HISTORY OF FLORIDA WATER QUALITY CRITERIA DEVELOPMENT FOR TOXIC POLLUTANTS HARMFUL TO HUMAN HEALTH

Supplement to January 19, 2022 letter requesting that the Administrator of EPA make a determination that new and revised water quality criteria for toxic pollutants in Florida are necessary to meet the requirements of the Clean Water Act and protect human health.

Submitted to the U.S. Environmental Protection Agency on June , 2022.

Table of Contents

Table of Contents. i

Abbreviations. iii

Background. 1

Analysis Methodology. 3

Analysis Results.. 4

Conclusion. 5

1,1,2,2-Tetrachloroethane 6

1,1-Dichlorethylene (1,1-Dichloroethene). 42

2,4,6-Trichlorophenol.. 77

2,4-Dichlorophenol.. 113

2,4-Dinitrophenol. 149

2,4-Dinitrotoluene. 185

2-Chlorophenol.. 221

4,4-DDT (p,p-Dichlorodiphenyltrichloroethane). 256

Acenaphthene.. 291

Aldrin. 325

Anthracene. 360

Antimony.. 396

Benzene. 432

beta-Hexachlorocyclohexane (beta-BHC).. 467

ED_013582_00000081-00002

Bromoform. 502

Carbon Tetrachloride. 537

Chlordane. 571

Chlorodibromomethane (Dibromochloromethane). 606

Chloroform. 640

Dichlorobromomethane (Bromodichloromethane). 674

Dieldrin. 709

Fluoranthene.. 743

Fluorene. 778

gamma-BHC (gamma-Hexachlorocyclohexane, Lindane). 812

Heptachlor.. 847

Hexachlorobutadiene.. 883

Methylene Chloride (Dichloromethane).. 917

Pentachlorophenol. 951

Polychlorinated Biphenyls (PCBs). 985

Pyrene. 1021

Tetrachloroethylene (Tetrachloroethene). 1056

Thallium.. 1090

Trichloroethylene (Trichloroethene).. 1125

Appendix. 1161

Jan. 19, 2022 request that EPA make a determination that
new and revised water quality criteria for toxic pollutants in Florida
are necessary to meet the requirements of the Clean Water Act

ED_013582_00000081-00003

Abbreviations

BAF. . . . . Bioaccumulation Factor

BC. . . . . Bioconcentration Factor

BW. . . . . Body Weight

CSF. . . . . Cancer Slope Factor

CWA. . . . . Clean Water Act

DI. . . . . Drinking Water Intake

EDA.. . . . . Environmental Defense Alliance

EPA. . . . . Environmental Protection Agency

FCR. . . . . Fish Consumption Rate

Fed. Reg.. . . . . Federal Register

Fla. Admin. Reg.. . . . . Florida Administrative Register

Fla. Admin. Wkly.. . . . . Florida Administrative Weekly

g (or G). . . . . gram

kg (or KG).. . . . . kilogram

L. . . . . Liter

LEAF. . . . . Legal Environmental Assistance Foundation, Inc.

µg. . . . . microgram

mg. . . . . milligram

RSC. . . . . Relative Source Contribution

RfD. . . . . Reference Dose

WQC.. . . . . Water Quality Criteria

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Background

The Water Quality Act of 1987[1] significantly amended the Clean Water Act with respect to the regulation of toxic pollutants. Congress had become dissatisfied with the piecemeal, slow progress being made by States in setting water quality standards for toxics. Congress reacted by legislating new requirements and deadlines directing the States to establish criteria for toxic pollutants, especially for those priority toxic pollutants that could reasonably be expected to interfere with the designated uses of waters. In § 308(d) of the Act,[2] Congress mandated:

> *Whenever* a State *reviews* water quality standards pursuant to paragraph (1) of this subsection,[3] *or revises or adopts* new standards pursuant to this paragraph, such State *shall* adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses.

(Italics added). Thus, Congress expressly required that States adopt new or revised toxic pollutant criteria necessary to protect the designated uses of waters whenever the State conducts a triennial review of water quality standards and whenever the State revises or adopts any water quality standards.

In 1988, the EPA published guidance for the States to implement the new statutory mandate.[4] The guidance allowed States three options to comply with the new mandate:

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[1] Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (1987).

[2] Codified at 33 U.S.C. § 1313(c)(2)(B).

[3] These reviews of water quality standards are required every three years and are known as "triennial reviews."

[4] Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

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(1) Adopt Statewide numeric criteria in State water quality standards for all section 307(a) toxic pollutants for which EPA has developed criteria guidance, regardless of whether the pollutants are known to be present;

(2) Adopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses;

(3) Adopt a procedure to be applied to a narrative water quality standard provision that prohibits toxicity in receiving waters. Such a procedure would be used by the State in calculating derived numeric criteria, which criteria shall be used for all purposes under section 303(c) of the CWA. At a minimum, such criteria need to be developed for Section 307(a) toxic pollutants, as necessary to support designated uses, where these pollutants are discharged or present in the affected waters and could reasonably be expected to interfere with designated uses.

The State of Florida elected to implement option 2. As a result, in 1990 and 1992, Florida adopted criteria for 33 (of a possible 91) toxic pollutants to protect human health.[5]

Whenever a State conducts a triennial review of water quality standards and whenever a State revises or adopts any water quality standards, the State is required to undertake a review of all available information and data to determine whether the discharge or the presence of a toxic pollutant is interfering or is likely to interfere with the attainment of the

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[5] The toxic pollutants for which Florida adopted criteria were 1,1,2,2-Tetrachloroethane, 1,1-Dichloroethene, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 2-Chlorophenol, Acenaphthene, Aldrin, Anthracene, Antimony, Benzene, beta-BHC (beta-Hexachlorocyclohexane), Bromoform, Carbon Tetrachloride, Chlordane, Chlorodibromomethane, Chloroform, Dichlorobromomethane, 4,4'-DDT, Dieldrin, Fluoranthene, Fluorene, gamma-BHC (Lindane), Heptachlor, Hexachlorobutadiene, Methylene Chloride (Dichloromethane), Pentachlorophenol, Polychlorinated Biphenyls (PCBs), Pyrene, Tetrachloroethylene (Tetrachloroethene), Thallium, and Trichloroethylene (Trichloroethene).

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designated uses of any water body.[6] A State's failure to complete the timely review and adoption of appropriate standards required by 33 U.S.C. § 1313(c)(2)(B), constitutes a failure "to meet the requirements of the Act" and is a sufficient basis for the Administrator to make a determination under 33 U.S.C. § 1313(c)(4)(B), that new or revised water quality criteria are necessary to ensure that designated uses are adequately protected. *Water Quality Standards; Establishment of Numeric Criteria for Priority Toxic Pollutants; States' Compliance – Final Rule*, 57 Fed. Reg. 60848, 60857 (Dec. 22, 1992);[7] *Water Quality Standards; Establishment of Numeric Criteria for Priority Toxic Pollutants for the State of California – Final rule*, 65 Fed. Reg. 31682, 31687 (May 18, 2000).

On January 19, 2022, the Environmental Defense Alliance and Waterkeepers Florida submitted a request to the Administrator of EPA that he make a determination under 33 U.S.C. § 1313(c)(4)(B), that new or revised water quality criteria for toxic pollutants are necessary to ensure that the designated uses of waters in Florida are adequately. See Appendix.

Analysis Methodology

To establish whether new or revised water quality criteria are necessary to ensure that designated uses are adequately protected, we must determine whether Florida has failed to meet the requirements of 33 U.S.C. § 1313(c)(2)(B), i.e., whether Florida has failed to undertake a review of all available information and data to determine whether the discharge or the presence of a toxic pollutant is interfering or is likely to interfere with the attainment of the designated uses of any water body. Such reviews are required to be undertaken whenever the State conducts a triennial review of water quality standards and whenever a State adopts new or revised water quality standards.

We examined the available administrative record (Federal Register notices, EPA water quality criteria documents, EPA's Integrated Risk Information System documents, other EPA publications, Florida Administrative Weekly notices, Florida Administrative Register notices, Florida administrative rules, and historical Florida rulemaking records) to determine whether

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[6] Such reviews are required. "If a State is unsure whether a toxic pollutant is interfering with, or is likely to interfere with the designated use and therefore is unsure that control of the pollutant is necessary to support the designated use, the State should undertake to develop sufficient information upon which to make such a determination."

[7] This rule is commonly identified as the "National Toxics Rule."

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(1) EPA has revised national recommended water quality criteria subsequent to 1992, and made any revisions to factors and methodologies by which recommended criteria are derived;

(2) Florida has conducted triennial reviews of water quality standards since 1992;

(3) Florida has adopted new or revised water quality standards since 1992; and

(4) Florida has adopted new or revised water quality criteria for toxic pollutants since 1992.

Analysis Results

The analysis demonstrates that after EPA's publication of recommended toxic pollutant criteria in 1992 (the "National Toxics Rule"), EPA revised many of those criteria recommendations in 1998, 2002, 2003, and 2015. These revised recommended criteria reflect progressive improvements in the quality and accuracy of scientific evidence which supports higher national fish consumption rates, higher national drinking water intake rates, and higher national human body weights; the use of bioaccumulation methodologies; and the revision of pollutant toxicity estimates. The toxic pollutant criteria adopted by Florida in 1990 and 1992 are based on data that no longer represents sound or accurate scientific evidence.

The analysis further demonstrates that Florida has conducted many triennial reviews of water quality standards since 1992, including in 2005, 2008, 2012, 2015, 2019, and 2021. The analysis further indicates that Florida adopted new or revised water quality standards on many occasions.

Th analysis further demonstrates that Florida's water quality criteria for 33 toxic pollutants potentially harmful to human health have remained unchanged since 1992. Although Florida has conducted seemingly endless studies and analyses of its toxic pollutant criteria during the last 25 years, it has failed to propose and adopt revised criteria. As a result, Florida continues to rely on 30-year old criteria to develop permit discharge limitations for 33 toxic pollutants that may be harmful to human health. Moreover, subsequent to 1992, Florida has not undertaken any review of the many other toxic pollutants for which EPA has published

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recommended water quality criteria to determine whether they are discharged into Florida waters or are present in Florida waters or are reasonably expected to interfere with the designated uses of such waters.

Conclusion

Florida's failure to timely review and adopt appropriate water quality criteria for all toxic pollutants to protect human health constitutes a failure to meet the requirements of the Clean Water Act. Accordingly, the Administrator of EPA is authorized to make a determination that new or revised water quality criteria for toxic pollutants in Florida are necessary to meet the requirements of the Clean Water Act. The Environmental Defense Alliance and Waterkeepers Florida urge the Administrator to make such a determination. Upon making such a determination, the Administrator is required to "promptly" propose federal water quality criteria for toxic pollutants in Florida. 33 U.S.C. § 1313(c)(4).

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Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-00010

Dec. 7, 1990
FLORIDA ADOPTS WQC FOR
1,1,2,2-TETRACHLOROETHANE
0.17 µg/L (organisms+water)
10.8 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 5 L/kg
CSF = 0.2 per mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

Nov. 19, 1991
EPA PROPOSES NATIONAL
RECOMMENDED WQC FOR
1,1,2,2-TETRACHLOROETHANE
0.17 µg/L (organisms+water)
11 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 5 L/kg tissue
CSF = 0.2 per mg/kg-day

Sources: Ambient Water Quality Criteria for Chlorinated Ethanes, EPA 440/5-80-029 (Oct. 1980); Integrated Risk Information System - 1,1,2,2-Tetrachloroethane (Mar. 31, 1987); 56 Fed. Reg. 58442 (Nov. 19, 1991).

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Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR 1,1,2,2-TETRACHLOROETHANE
0.17 µg/L (organisms+water)
11 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 5 L/kg tissue
CSF = 0.2 per mg/kg-day

Source: Ambient Water Quality Criteria for Chlorinated Ethanes, EPA 440/5-80-029 (Oct. 1980); Integrated Risk Information System - 1,1,2,2-Tetrachloroethane (Mar. 31, 1987); 57 Fed. Reg. 60911 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

ED_013582_00000081-00012

July 21, 1995
LEAF PETITIONS FLORIDA
TO REVISE WQC FOR
1,1,2,2-TRETRACHLOROETHANE
0.16 µg/L (organisms+water)
1.52 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 5 L/kg tissue
CSF = 0.2 per mg/kg-day

Source: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (July 21, 1995).

Oct. 25, 1995
FLORIDA DENIES LEAF PETITION
TO REVISE WQC FOR
1,1,2,2-TRETRACHLOROETHANE
0.16 µg/L (organisms+water)
1.52 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 5 L/kg tissue
CSF = 0.2 per mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995).

ED_013582_00000081-00013

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

ED_013582_00000081-00014

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-00015

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-00016

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

ED_013582_00000081-00017

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR 1,1,2,2-TETRACHLOROETHANE
0.17 µg/L (organisms+water)
4.0 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 5 L/kg tissue
CSF = 0.2 per mg/kg-day

Sources: Ambient Water Quality Criteria for Chlorinated Ethanes, EPA 440/5-80-029 (Oct. 1980); Integrated Risk Information System - 1,1,2,2-Tetrachloroethane (Mar. 31, 1987); National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

ED_013582_00000081-00018

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

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July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

ED_013582_00000081-00020

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005)

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code r. 62-302.700 & 62-302.800.

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Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

ED_013582_00000081-00022

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

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Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-00024

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00025

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

ED_013582_00000081-00026

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009).

ED_013582_00000081-00027

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

ED_013582_00000081-00028

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

ED_013582_00000081-00029

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

ED_013582_00000081-00030

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-00031

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

ED_013582_00000081-00032

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

ED_013582_00000081-00033

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

ED_013582_00000081-00034

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.353, 62-303.360, 62-303.380, 62-303.420, 62-303.450, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00035

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00036

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

ED_013582_00000081-00037

June 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR 1,1,2,2-TETRACHLOROETHANE
0.2 µg/L (organisms+water)
3 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 5.7, 7.4, and 8.4 L/kg tissue
CSF = 0.2 per mg/kg-day

Sources: Integrated Risk Information System - 1,1,2,2-Tetrachloroethane (Mar. 31,1987); Update of Human Health Ambient Water Quality Criteria: 1,1,2,2-Tetrachloromethane, EPA 820-R-15-069 (June 2015); 80 Fed. Reg. 36986 (June 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (June 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

ED_013582_00000081-00039

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

ED_013582_00000081-00040

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-00041

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00042

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Sources: History note to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016).

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

ED_013582_00000081-00043

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for 1,1,2,2-Tetrachloroethane or any other toxic pollutants or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

ED_013582_00000081-00045

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-00046

Dec. 7, 1990
FLORIDA ADOPTS WQC FOR 1,1-DICHLOROETHENE
0.057 µg/L (organisms+water)
3.2 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 5.6 L/kg
CSF = 0.6 per mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR 1,1-DICHLOROETHYLENE
0.057 µg/L (organisms+water)
3.2 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 5.6 L/kg tissue
CSF = 0.6 per mg/kg-day

Sources: Ambient Water Quality Criteria for Dichloroethylenes, EPA 440-5-80-041 (Oct. 1980); Integrated Risk Information System - 1,1-Dichloroethylene (Mar. 31, 1987); 56 Fed. Reg. 58443 (Nov. 19, 1991).

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR 1,1-DICHLOROETHYLENE
0.057 µg/L (organisms+water)
3.2 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 5.6 L/kg tissue
CSF = 0.6 per mg/kg-day

Sources: Ambient Water Quality Criteria for Dichloroethylenes, EPA 440-5-80-041 (Oct. 1980); Integrated Risk Information System - 1,1-Dichloroethylene (Mar. 31, 1987); 57 Fed. Reg. 60914 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

ED_013582_00000081-00048

July 21, 1995
LEAF PETITIONS FLORIDA
TO REVISE WQC FOR
1,1-DICHLROETHYLENE
0.052 µg/L (organisms+water)
0.45 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 5.6 L/kg tissue
CSF = 0.6 per mg/kg-day

Sources: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (July 21, 1995).

Oct. 25, 1995
FLORIDA DENIES LEAF
PETITION TO REVISE WQC FOR
1,1-DICHLROETHYLENE
0.052 µg/L (organisms+water)
0.45 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 5.6 L/kg tissue
CSF = 0.6 per mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995).

ED_013582_00000081-00049

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

ED_013582_00000081-00050

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-00051

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-00052

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

ED_013582_00000081-00053

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

ED_013582_00000081-00054

Dec. 31, 2003
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR 1,1-DICHLOROETHYLENE
330 µg/L (organisms+water)
7,100 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 5.6 L/kg tissue
RfD = 0.05 mg/kg-day
RSC = 0.20

Sources: Ambient Water Quality Criteria for Dichloroethylenes, EPA 440-5-80-041 (Oct. 1980); Integrated Risk Information System - 1,1-Dichloroethylene (Aug. 13, 2002); 68 Fed. Reg. 75510 (Dec. 31, 2003).

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

ED_013582_00000081-00055

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

ED_013582_00000081-00056

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

ED_013582_00000081-00057

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

ED_013582_00000081-00058

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

ED_013582_00000081-00059

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-00060

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00061

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

ED_013582_00000081-00062

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009).

ED_013582_00000081-00063

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

ED_013582_00000081-00064

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-00066

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530, 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

ED_013582_00000081-00067

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

ED_013582_00000081-00068

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

ED_013582_00000081-00069

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.320, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.420, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00070

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00071

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

ED_013582_00000081-00072

June 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR 1,1-DICHLOROETHYLENE
300 µg/L (organisms+water)
20,000 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 2.0, 2.4, and 2.6L/kg tissue
RfD = 0.05 mg/kg-day
RSC = 0.20

Sources: Update of Human Health Ambient Water Quality Criteria: 1,1-dichloroetyhylene, EPA 820-R-15-071 (June 2015); 80 Fed. Reg. 36986 (June 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (June 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

ED_013582_00000081-00074

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

ED_013582_00000081-00075

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-00076

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00077

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Sources: History note to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016).

ED_013582_00000081-00078

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

ED_013582_00000081-00079

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for 1,1-Dichloroethylene or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

ED_013582_00000081-00080

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-00081

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR 2,4,6-TRICHLOROPHENOL
2.1 µg/L (organisms+water)
6.5 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 150 L/kg tissue
CSF = 0.011 per mg/kg-day

Sources: Ambient Water Quality Criteria for Chlorinated Phenols, EPA 440-5-80-032 (Oct. 1980); Integrated Risk Information System - 2,4,6-Trichlorophenol (June 1, 1990); 56 Fed. Reg. 58443 (Nov. 19, 1991).

Mar. 27, 1992
FLORIDA ADOPTS WQC FOR 2,4,6-TRICHLOROPHENOL
2.1 µg/L (organisms+water)
6.5 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 150 L/kg
CSF = 0.011 per mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

ED_013582_00000081-00082

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR 2,4,6-TRICHLOROPHENOL
2.1 µg/L (organisms+water)
6.5 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 150 L/kg tissue
CSF = 0.011 per mg/kg-day

Sources: Ambient Water Quality Criteria for Chlorinated Phenols, EPA 440-5-80-032 (Oct. 1980); Integrated Risk Information System - 2,4,6-Trichlorophenol (June 1, 1990); 57 Fed. Reg. 60914 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

July 21, 1995
LEAF PETITIONS FLORIDA TO REVISE WQC FOR 2,4,6-TRICHLOROPHENOL
0.715 µg/L (organisms+water)
0.922 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 150 L/kg tissue
CSF = 0.011 per mg/kg-day

Source: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (July 21, 1995).

ED_013582_00000081-00083

Oct. 25, 1995
FLORIDA DENIES LEAF PETITION TO REVISE WQC FOR 2,4,6-TRICHLOROPHENOL
1.4 µg/L (organisms+water)
2.4 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 150 L/kg tissue
CSF = 0.011 per mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995).

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

ED_013582_00000081-00084

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

ED_013582_00000081-00085

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-00086

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-00087

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

ED_013582_00000081-00088

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR 2,4,6-TRICHLOROPHENOL
1.4 µg/L (organisms+water)
2.4 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 150 L/kg tissue
CSF = 0.011 per mg/kg-day

Sources: Ambient Water Quality Criteria for Chlorinated Phenols, EPA 440-5-80-032 (Oct. 1980); Integrated Risk Information System - 2,4,6-Trichlorophenol (June 1, 1990); National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

ED_013582_00000081-00089

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

ED_013582_00000081-00090

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

ED_013582_00000081-00091

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

ED_013582_00000081-00092

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

ED_013582_00000081-00093

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

ED_013582_00000081-00094

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-00095

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00096

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

ED_013582_00000081-00097

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

ED_013582_00000081-00098

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009)

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

ED_013582_00000081-00099

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

ED_013582_00000081-00100

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

ED_013582_00000081-00101

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-00102

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800.

ED_013582_00000081-00103

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

ED_013582_00000081-00104

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

ED_013582_00000081-00105

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for 2,4,6-Trichlorophenol any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.320, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.420, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00106

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00107

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

ED_013582_00000081-00108

June 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR 2,4,6-TRICHLOROPHENOL
1.5 µg/L (organisms+water)
2.8 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 94, 130, 150 L/kg tissue
CSF = 0.011 per mg/kg-day

Sources: Integrated Risk Information System - 2,4,6-Trichlorophenol (June 1, 1990); Update of Human Health Ambient Water Quality Criteria: 2,4,6-Trichlorophenol, EPA 820-R-15-015 (June 2015); 80 Fed. Reg. 36986 (June 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (June 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED
WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-00112

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00113

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Sources: History note to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016).

ED_013582_00000081-00114

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutant proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

ED_013582_00000081-00115

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for 2,4,6-Trichlorophenol or any other toxic pollutant proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

ED_013582_00000081-00116

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-00117

Dec. 7, 1990
FLORIDA ADOPTS WQC FOR 2,4-DICHLOROPHENOL
0.3 µg/L (organisms+water)
0.3 µg/L (organisms only)

Criteria Factors:
Organoleptic Concern

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); Ambient Water Quality Criteria for 2,4-Dichlorophenol, EPA 440-5-80-042 (Oct. 1980).

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR 2,4-DICHLOROPHENOL
93 µg/L (organisms+water)
790 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 40.7 L/kg tissue
RfD = 0.003 mg/kg-day

Sources: Ambient Water Quality Criteria for 2,4-Dichlorophenol, EPA 440-5-80-042 (Oct. 1980); Integrated Risk Information System - 2,4-Dichlorophenol (Jan. 31, 1987); 56 Fed. Reg. 58442 (Nov. 19, 1991).

ED_013582_00000081-00118

Mar. 27, 1992
FLORIDA ADOPTS WQC FOR 2,4-DICHLOROPHENOL
93 µg/L (organisms+water)
790 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 40.7 L/kg
RfD = 0.003 mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR 2,4-DICHLOROPHENOL
93 µg/L (organisms+water)
790 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 40.7 L/kg tissue
RfD = 0.003 mg/kg-day

Sources: Ambient Water Quality Criteria for 2,4-Dichlorophenol, EPA 440-5-80-042 (Oct. 1980); Integrated Risk Information System - 2,4-Dichlorophenol (Jan. 31, 1987); 57 Fed. Reg. 60912 (Dec. 22, 1992).

ED_013582_00000081-00119

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994)

July 21, 1995
LEAF PETITIONS FLORIDA TO REVISE WQC FOR 2,4-DICHLOROPHENOL
54 µg/L (organisms+water)
112 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 40.7 L/kg tissue
RfD = 0.003 mg/kg-day

Source: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (July 21, 1995)

Oct. 25, 1995
FLORIDA DENIES LEAF PETITION TO REVISE WQC FOR 2,4-DICHLOROPHENOL
54 µg/L (organisms+water)
112 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 40.7 L/kg tissue
RfD = 0.003 mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995).

ED_013582_00000081-00120

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

ED_013582_00000081-00121

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-00122

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-00123

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

ED_013582_00000081-00124

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR 2,4-DICHLOROPHENOL
77 µg/L (organisms+water)
290 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 40.7 L/kg tissue
RfD = 0.003 mg/kg-day

Sources: Ambient Water Quality Criteria for 2,4-Dichlorophenol, EPA 440-5-80-042 (Oct. 1980); Integrated Risk Information System - 2,4-Dichlorophenol (Jan. 31, 1987); National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

ED_013582_00000081-00125

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540

ED_013582_00000081-00126

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

ED_013582_00000081-00127

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

ED_013582_00000081-00128

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

ED_013582_00000081-00129

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

ED_013582_00000081-00130

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-00131

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code rs. 62-302.800.

ED_013582_00000081-00132

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

ED_013582_00000081-00133

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

ED_013582_00000081-00134

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009).

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

ED_013582_00000081-00135

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

ED_013582_00000081-00136

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

ED_013582_00000081-00137

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-00138

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

ED_013582_00000081-00139

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

ED_013582_00000081-00140

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

ED_013582_00000081-00141

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244 ,62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.353, 62-303.360, 62-303.380, 62-303.420, 62-303.450, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00142

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00143

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

ED_013582_00000081-00144

June 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR 2,4-DICHLOROPHENOL
10 µg/L (organisms+water)
60 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 31, 42, 48 L/kg tissue
RfD = 0.003 mg/kg-day
RSC = 0.20

Sources: Integrated Risk Information System - 2,4-Dichlorophenol (Jan. 31, 1987); Update of Human Health Ambient Water Quality Criteria: 2,4-Dichlorophenol, EPA 820-R-15-084 (June 2015); 80 Fed. Reg. 36986 (June 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (June 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

ED_013582_00000081-00146

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

ED_013582_00000081-00147

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-00148

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00149

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016).

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

ED_013582_00000081-00150

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

ED_013582_00000081-00151

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for 2,4-Dichlorophenol or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

ED_013582_00000081-00152

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-00153

Dec. 7, 1990
FLORIDA ADOPTS WQC FOR 2,4-DINITROPHENOL
69.7µg/L (organisms+water)
14,260 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 1.5 L/kg
RfD = 0.002 mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR 2,4-DINITROPHENOL
70 µg/L (organisms+water)
14,000 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 1.5 L/kg tissue
RfD = 0.002 mg/kg-day

Sources: Ambient Water Quality Criteria for Nitrophenols, EPA 440-5-80-063 (Oct. 1980); Integrated Risk Information System - 2,4-Dinitrophenol (Mar. 31, 1987); 56 Fed. Reg. 58442 (Nov. 19, 1991).

ED_013582_00000081-00154

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR 2,4-DINITROPHENOL
14 µg/L (organisms+water)
4,300 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 1.5 L/kg tissue
RfD = 0.002 mg/kg-day

Sources: Ambient Water Quality Criteria for Nitrophenols, EPA 440-5-80-063 (Oct. 1980); Integrated Risk Information System - 2,4-Dinitrophenol (Mar. 31, 1987); 57 Fed. Reg. 60912 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

ED_013582_00000081-00155

July 21, 1995
LEAF PETITIONS FLORIDA
TO REVISE WQC FOR
2,4-DINITROPHENOL
67.7 µg/L (organisms+water)
2,030 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 1.5 L/kg tissue
RfD = 0.002 mg/kg-day

Source: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (July 21, 1995).

Oct. 25, 1995
FLORIDA DENIES LEAF
PETITION TO REVISE WQC FOR
2,4-DINITROPHENOL
67.7 µg/L (organisms+water)
2,030 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 1.5 L/kg tissue
RfD = 0.002 mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995).

ED_013582_00000081-00156

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

ED_013582_00000081-00157

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-00158

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-00159

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

ED_013582_00000081-00160

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR 2,4-DINITROPHENOL
69 µg/L (organisms+water)
5,300 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 1.5 L/kg tissue
RfD = 0.002 mg/kg-day

Sources: Ambient Water Quality Criteria for Nitrophenols, EPA 440-5-80-063 (Oct. 1980); Integrated Risk Information System - 2,4-Dinitrophenol (Mar. 31, 1987); National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

ED_013582_00000081-00161

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

ED_013582_00000081-00162

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

ED_013582_00000081-00163

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

ED_013582_00000081-00164

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

ED_013582_00000081-00165

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

ED_013582_00000081-00166

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-00167

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00168

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

ED_013582_00000081-00169

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

ED_013582_00000081-00170

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009).

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

ED_013582_00000081-00171

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

ED_013582_00000081-00172

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

ED_013582_00000081-00173

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-00174

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532

ED_013582_00000081-00175

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

ED_013582_00000081-00176

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244 ,62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.353, 62-303.360, 62-303.380, 62-303.420, 62-303.450, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00178

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800

ED_013582_00000081-00179

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

ED_013582_00000081-00180

June 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR 2,4-DINITOPHENOL
10 µg/L (organisms+water)
300 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 4.4 L/kg tissue
RfD = 0.002 mg/kg-day
RSC = 0.20

Sources: Integrated Risk Information System - 2,4-Dinitrophenol (Mar. 31, 1987); Update of Human Health Ambient Water Quality Criteria: 2,4-Dinitrophenol, EPA 820-R-15-086 (June 2015); 80 Fed. Reg. 36986 (June 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (June 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

ED_013582_00000081-00182

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

ED_013582_00000081-00183

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-00184

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00185

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Sources: History note to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016).

ED_013582_00000081-00186

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

ED_013582_00000081-00187

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for 2,4-Dinitrophenol or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-00189

Dec. 7, 1990
FLORIDA ADOPTS WQC FOR 2,4-DINITROTOLUENE
0.11 µg/L (organisms+water)
9.1 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.8 L/kg
CSF = 0.311 per mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR 2,4-DINITROTOLUENE
0.11 µg/L (organisms+water)
9.1 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.8 L/kg tissue
CSF = 0.311 per mg/kg-day

Sources: Ambient Water Quality Criteria for Dinitrotoluene, EPA 440-5-80-045 (Oct. 1980); 56 Fed. Reg. 58443 (Nov. 19, 1991).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR 2,4-DINITROTOLUENE
0.11 µg/L (organisms+water)
9.1 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.8 L/kg tissue
CSF = 0.311 per mg/kg-day

Sources: Ambient Water Quality Criteria for Dinitrotoluene, EPA 440-5-80-045 (Oct. 1980); 57 Fed. Reg. 60914 (Dec. 22, 1992).

July 21, 1995
LEAF PETITIONS FLORIDA TO REVISE WQC FOR 2,4-DINITROTOLUENE
0.10 µg/L (organisms+water)
1.29 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.8 L/kg tissue
CSF = 0.311 per mg/kg-day

Sources: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (Jul. 21, 1995).

ED_013582_00000081-00191

Oct. 25, 1995
FLORIDA DENIES LEAF PETITION TO REVISE WQC FOR 2,4-DINITROTOLUENE
0.10 µg/L (organisms+water)
1.29 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.8 L/kg tissue
CSF = 0.311 per mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995).

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

ED_013582_00000081-00192

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

ED_013582_00000081-00193

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-00194

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-00195

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

ED_013582_00000081-00196

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR 2,4-DINITROTOLUENE
0.11 µg/L (organisms+water)
3.4 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.8 L/kg tissue
CSF = 0.311 per mg/kg-day

Sources: Ambient Water Quality Criteria for Dinitrotoluene, EPA 440-5-80-045 (Oct. 1980); National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

ED_013582_00000081-00197

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

ED_013582_00000081-00198

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

ED_013582_00000081-00199

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

ED_013582_00000081-00200

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

ED_013582_00000081-00201

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

ED_013582_00000081-00202

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-00203

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00204

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

ED_013582_00000081-00205

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

ED_013582_00000081-00206

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009)

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

ED_013582_00000081-00207

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

ED_013582_00000081-00208

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

ED_013582_00000081-00209

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-00210

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530, 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

ED_013582_00000081-00211

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

ED_013582_00000081-00212

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

ED_013582_00000081-00213

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.320, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.420, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00214

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00215

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

ED_013582_00000081-00216

Jun. 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR 2,4-DINITROTOLUENE
0.80 µg/L (organisms+water)
21 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 2.8, 3.5, and 3.9 L/kg tissue
CSF = 0.667 per mg/kg-day

Sources: Update of Human Health Ambient Water Quality Criteria: 2,4-Dinitrotoluene, EPA 820-R-15-087 (Jun. 2015); 80 Fed. Reg. 36986 (Jun 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (Jun 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

ED_013582_00000081-00218

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

ED_013582_00000081-00219

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-00220

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00221

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Sources: History note to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016).

ED_013582_00000081-00222

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

ED_013582_00000081-00223

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for 2,4-Dinitrotoluene or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

ED_013582_00000081-00224

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-00225

Dec. 7, 1990
FLORIDA ADOPTS WQC FOR 2-CHLOROPHENOL
0.1 µg/L (organisms+water)
0.1 µg/L (organisms only)

Criteria Factors:
Organoleptic Concerns

Sources: Ambient Water Quality Criteria for 2-Chlorophenol, EPA 440-5-80-034 (Oct. 1980).

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR 2-CHLOROPHENOL
120 µg/L (organisms+water)
400 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 134 L/kg tissue
RfD = 0.005 mg/kg-day

Sources: Ambient Water Quality Criteria for 2-Chlorophenol, EPA 440-5-80-034 (Oct. 1980); Integrated Risk Information System - 2-Chlorophenol (Aug. 22, 1988); 56 Fed. Reg. 58442 (Nov. 19, 1991).

ED_013582_00000081-00226

Mar. 27, 1992
FLORIDA ADOPTS WQC FOR 2-CHLOROPHENOL
120 µg/L (organisms+water)
400 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 134 L/kg
RfD = 0.005 mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR 2-CHLOROPHENOL
120 µg/L (organisms+water)
400 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 134 L/kg tissue
RfD = 0.005 mg/kg-day

Sources: Ambient Water Quality Criteria for 2-Chlorophenol, EPA 440-5-80-034 (Oct. 1980); Integrated Risk Information System - 2-Chlorophenol (Aug. 22, 1988); 57 Fed. Reg. 60890 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

ED_013582_00000081-00228

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-00229

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-00230

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

ED_013582_00000081-00231

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR 2-CHLOROPHENOL
81 µg/L (organisms+water)
150 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 134 L/kg tissue
RfD = 0.005 mg/kg-day

Sources: Ambient Water Quality Criteria for 2-Chlorophenol, EPA 440-5-80-034 (Oct. 1980); Integrated Risk Information System - 2-Chlorophenol (Aug. 22, 1988); National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

ED_013582_00000081-00232

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

ED_013582_00000081-00233

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

ED_013582_00000081-00234

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

ED_013582_00000081-00235

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

ED_013582_00000081-00236

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

ED_013582_00000081-00237

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-00238

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00239

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

ED_013582_00000081-00240

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (Jul. 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

ED_013582_00000081-00241

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009).

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

ED_013582_00000081-00242

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

ED_013582_00000081-00243

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

ED_013582_00000081-00244

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-00245

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

ED_013582_00000081-00246

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

ED_013582_00000081-00247

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244 ,62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.353, 62-303.360, 62-303.380, 62-303.420, 62-303.450, 62-303.470, 62-303.480, 62-303.500 & 62-303.720

ED_013582_00000081-00249

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00250

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

ED_013582_00000081-00251

June 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR 2-CHLOROPHENOL
30 µg/L (organisms+water)
800 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 3.8, 4.8, 5.4 L/kg tissue
RfD = 0.005 mg/kg-day
RSC = 0.20

Sources: Integrated Risk Information System - 2-Chlorophenol (Aug. 22, 1988); Update of Human Health Ambient Water Quality Criteria: 2-Chlorophenol, EPA 820-R-15-089 (June 2015); 80 Fed. Reg. 36986 (June 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (June 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

ED_013582_00000081-00253

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

ED_013582_00000081-00254

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-00255

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00256

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016).

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

ED_013582_00000081-00257

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

ED_013582_00000081-00258

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for 2-Chlorophenol or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

ED_013582_00000081-00259

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-00260

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR 4,4'-DDT
0.00059 µg/L (organisms+water)
0.00059 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 53,600 L/kg tissue
CSF = 0.34 per mg/kg-day

Sources: Ambient Water Quality Criteria for DDT, EPA 440-5-80-038 (Oct. 1980); Integrated Risk Information System - p,p'-Dichlorodiphenyltrichloroethane (DDT) (Mar. 31, 1987); 56 Fed. Reg. 58443 (Nov. 19, 1991).

Mar. 27, 1992
FLORIDA ADOPTS WQC FOR 4,4'-DDT
0.00059 µg/L (organisms+water)
0.00059 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 53,600 L/kg
CSF = 0.34 per mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, Fla. Dep't of Envt'l Protection , to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR 4,4'-DDT
0.00059 µg/L (organisms+water)
0.00059 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 53,600 L/kg tissue
CSF = 0.34 per mg/kg-day

Sources: Ambient Water Quality Criteria for DDT, EPA 440-5-80-038 (Oct. 1980); Integrated Risk Information System - p,p'-Dichlorodiphenyltrichloroethane (DDT) (Mar. 31, 1987); 57 Fed. Reg. 60914 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

July 21, 1995
LEAF PETITIONS FLORIDA TO REVISE WQC FOR 4,4'-DDT
0.00008 µg/L (organisms+water)
0.00008 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 53,600 L/kg tissue
CSF = 0.34 per mg/kg-day

Source: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (July 21, 1995).

Oct. 25, 1995
FLORIDA DENIES LEAF PETITION TO REVISE WQC FOR 4,4'-DDT

0.00008 µg/L (organisms+water)
0.00008 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 53,600 L/kg tissue
CSF = 0.34 per mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995).

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

ED_013582_00000081-00263

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-00264

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-00265

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

ED_013582_00000081-00266

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR 4-4'-DDT

0.00022 µg/L (organisms+water)
0.00022 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 53,600 L/kg tissue
CSF = 0.34 per mg/kg-day

Sources: Ambient Water Quality Criteria for DDT, EPA 440-5-80-038 (Oct. 1980); Integrated Risk Information System - p,p'-Dichlorodiphenyltrichloroethane (DDT) (Mar. 31, 1987); National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

ED_013582_00000081-00267

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

ED_013582_00000081-00268

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

ED_013582_00000081-00269

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

ED_013582_00000081-00270

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

ED_013582_00000081-00271

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-00273

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00274

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

ED_013582_00000081-00275

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 g/day

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Fla. Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Fla. Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009)

ED_013582_00000081-00276

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

ED_013582_00000081-00277

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Fla. Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

ED_013582_00000081-00278

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

(*continued . . .*)

ED_013582_00000081-00279

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800.

ED_013582_00000081-00280

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

ED_013582_00000081-00281

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

ED_013582_00000081-00282

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for 4,4'-DDT any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.320, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.420, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00283

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Fla. Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

June 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR 4,4-DDT

0.000030 µg/L (organisms+water)
0.000030 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 35,000, 240,000, and 1,100,000 L/kg tissue
CSF = 0.34 per mg/kg-day

Sources: Integrated Risk Information System - p,p'-Dichlorodiphenyltrichloroethane (DDT) (Mar. 31, 1987); Update of Human Health Ambient Water Quality Criteria: p,p-Dichlorodiphenyltrichloroethane (DDT), EPA 820-R-15-095 (June 2015); 80 Fed. Reg. 36986 (Jun 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (Jun 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED
WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

(*continued . . .*)

ED_013582_00000081-00288

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-00290

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720

ED_013582_00000081-00291

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Sources: History note to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016).

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

ED_013582_00000081-00292

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

ED_013582_00000081-00293

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for 4,4'-DDT or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

ED_013582_00000081-00294

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-00295

Dec. 7, 1990
FLORIDA ADOPTS WQC FOR ACENAPHTHENE
20 µg/L (organisms+water)
20 µg/L (organisms only)

Criteria Factors:
Organoleptic Concern

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); Ambient Water Quality Criteria for Acenaphthene, EPA 440-5-80-015 (Oct. 1980); 45 Fed. Reg. 79318 (Nov. 28, 1980).

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR ACENAPHTHENE
1,200 µg/L (organisms+water)
2,700 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 242 L/kg tissue
RfD = 0.06 mg/kg-day

Sources: Ambient Water Quality Criteria for Acenaphthene, EPA 440-5-80-015 (Oct. 1980); Integrated Risk Information System - Acenaphthene (Nov. 1, 1990); 56 Fed. Reg. 58442 (Nov. 19, 1991).

ED_013582_00000081-00296

Mar. 27, 1992
FLORIDA ADOPTS WQC FOR ACENAPHTHENE
1,200 µg/L (organisms+water)
2,700 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 242 L/kg
RfD = 0.06 mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR ACENAPHTHENE
1,200 µg/L (organisms+water)
2,700 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 242 L/kg tissue
RfD = 0.06 mg/kg-day

Sources: Ambient Water Quality Criteria for Acenaphthene, EPA 440-5-80-015 (Oct. 1980); Integrated Risk Information System - Acenaphthene (Nov. 1, 1990); 57 Fed. Reg. 60890 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

ED_013582_00000081-00298

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-00299

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-00300

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

ED_013582_00000081-00301

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR ACENAPHTHENE
670 µg/L (organisms+water)
990 µg/L (organisms only)

Criteria Factors:
FCR = 17.52 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 242 L/kg tissue
RfD = 0.06 mg/kg-day

Sources: Ambient Water Quality Criteria for Acenaphthene, EPA 440-5-80-015 (Oct. 1980); Integrated Risk Information System - Acenaphthene (Nov. 1, 1990); National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

ED_013582_00000081-00302

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

ED_013582_00000081-00303

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

ED_013582_00000081-00304

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

ED_013582_00000081-00305

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

ED_013582_00000081-00306

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

ED_013582_00000081-00307

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-00308

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code rs. 62-302.800.

ED_013582_00000081-00309

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

ED_013582_00000081-00310

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

ED_013582_00000081-00311

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009).

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-00314

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800.

ED_013582_00000081-00315

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code rs. 62-302.532

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

ED_013582_00000081-00316

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244 ,62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.353, 62-303.360, 62-303.380, 62-303.420, 62-303.450, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00318

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00319

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

ED_013582_00000081-00320

June 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR ACENAPHTHENE
70 µg/L (organisms+water)
90 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 510 L/kg tissue
RfD = 0.06 mg/kg-day
RSC = 0.20

Sources: Integrated Risk Information System - Acenaphthene (Nov. 1, 1990); Update of Human Health Ambient Water Quality Criteria: Acenaphthene, EPA 820-R-15-002 (June 2015); 80 Fed. Reg. 36986 (Jun 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (Jun 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

ED_013582_00000081-00322

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-00324

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00325

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Sources: History note to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016).

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Acenaphthene or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

ED_013582_00000081-00328

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-00329

Dec. 7, 1990
FLORIDA ADOPTS WQC FOR ALDRIN
0.00013 µg/L (organisms+water)
0.00014 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 4670 L/kg
CSF = 17 per mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, Fla. Dep't of Envtl. Protection, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR ALDRIN
0.00013 µg/L (organisms+water)
0.00014 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 4670 L/kg tissue
CSF = 17 per mg/kg-day

Sources: Ambient Water Quality Criteria for Aldrin/Dieldrin, EPA 440-5-80-019 (Dec. 1980); Integrated Risk Information Service - Aldrin (Sep. 30, 1987); 56 Fed. Reg. 58443 (Nov. 19, 1991).

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR ALDRIN
0.00013 µg/L (organisms+water)
0.00014 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 4670 L/kg tissue
CSF = 17 per mg/kg-day

Sources: Ambient Water Quality Criteria for Aldrin/Dieldrin, EPA 440-5-80-019 (Dec. 1980); Integrated Risk Information Service - Aldrin (Sep. 30, 1987); 57 Fed. Reg. 60912 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

July 21, 1995
LEAF PETITIONS FLORIDA TO REVISE WQC FOR ALDRIN
0.00002 µg/L (organisms+water)
0.00002 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 4670 L/kg tissue
CSF = 17 per mg/kg-day

Sources: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (July 21, 1995).

Oct. 25, 1995
FLORIDA DENIES LEAF PETITION TO REVISE WQC FOR
0.00002 µg/L (organisms+water)
0.00002 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 4670 L/kg tissue
CSF = 17 per mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995).

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

ED_013582_00000081-00332

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-00333

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-00334

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR ALDRIN

0.000049 µg/L (organisms+water)
0.000050 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 4670 L/kg tissue
CSF = 17 per mg/kg-day

Sources: Ambient Water Quality Criteria for Aldrin/Dieldrin, EPA 440-5-80-019 (Dec. 1980); Integrated Risk Information Service - Aldrin (Sep. 30, 1987); National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

ED_013582_00000081-00336

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

ED_013582_00000081-00337

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

ED_013582_00000081-00338

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

ED_013582_00000081-00339

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

ED_013582_00000081-00340

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

ED_013582_00000081-00341

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-00342

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code rs. 62-302.800.

ED_013582_00000081-00343

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

ED_013582_00000081-00344

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code rs. 62-302.200.

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Fla. Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Fla. Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

ED_013582_00000081-00345

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009).

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

ED_013582_00000081-00346

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Fla. Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

ED_013582_00000081-00348

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-00349

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code rs. 62-302.532.

ED_013582_00000081-00350

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

ED_013582_00000081-00351

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

ED_013582_00000081-00352

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244 ,62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.353, 62-303.360, 62-303.380, 62-303.420, 62-303.450, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00353

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00354

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Fla. Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

ED_013582_00000081-00355

June 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR ALDRIN

0.00000077 µg/L (organisms+water)
0.00000077 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 18,000, 310,000, and 650,000 L/kg tissue
CSF = 17 per mg/kg-day
RSC = 0.20

Sources: Integrated Risk Information Service - Aldrin (Sep. 30, 1987); Update of Human Health Ambient Water Quality Criteria: Aldrin, EPA 820-R-15-005 (June 2015); 80 Fed. Reg. 36986 (Jun 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (Jun 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

ED_013582_00000081-00357

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

ED_013582_00000081-00358

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-00359

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00360

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Sources: History note to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016).

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017)

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Aldrin or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-00364

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR ANTHRACENE
9,600 µg/L (organisms+water)
110,000 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF =30 L/kg tissue
RfD = 0.3 mg/kg-day

Sources: Ambient Water Quality Criteria for Polynuclear Aromatic Hydrocarbons, EPA 440-5-80-069 (Oct. 1980); Integrated Risk Information System - Anthracene (Sep. 1, 1990); 56 Fed. Reg. 58442 (Nov. 19, 1991).

Mar. 27, 1992
FLORIDA ADOPTS WQC FOR ANTHRACENE
9,600 µg/L (organisms+water)
110,000 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 30 L/kg
RfD = 0.3 mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR ANTHRACENE
9,600 µg/L (organisms+water)
110,000 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 30 L/kg tissue
RfD = 0.3 mg/kg-day

Sources: Ambient Water Quality Criteria for Polynuclear Aromatic Hydrocarbons, EPA 440-5-80-018 (Oct. 1980); Integrated Risk Information System - Anthracene (Sep. 1, 1990); 57 Fed. Reg. 60911 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

July 21, 1995
LEAF PETITIONS FLORIDA TO REVISE WQC FOR ANTHRACENE
6.2 µg/L (organisms+water)
15.2 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 30 L/kg tissue
RfD = 0.3 mg/kg-day

Sources: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (July 21, 1995).

ED_013582_00000081-00366

Oct. 25, 1995
FLORIDA DENIES LEAF PETITION TO REVISE WQC FOR ANTHRACENE

6.2 µg/L (organisms+water)
15.2 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 30 L/kg tissue
RfD = 0.3 mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995).

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-00369

June 10, 2002
FLORIDA ADOPTS REVISED
WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR ANTHRACENE

8,300 µg/L (organisms+water)
40,000 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 30 L/kg tissue
RfD = 0.3 mg/kg-day

Sources: Ambient Water Quality Criteria for Polynuclear Aromatic Hydrocarbons, EPA 440-5-80-018 (Oct. 1980); Integrated Risk Information System - Anthracene (Sep. 1, 1990); National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

ED_013582_00000081-00372

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

ED_013582_00000081-00373

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

ED_013582_00000081-00374

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

ED_013582_00000081-00375

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

ED_013582_00000081-00376

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

ED_013582_00000081-00377

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-00378

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00379

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009).

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

ED_013582_00000081-00382

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

ED_013582_00000081-00384

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-00385

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532

ED_013582_00000081-00386

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

ED_013582_00000081-00387

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.353, 62-303.360, 62-303.380, 62-303.420, 62-303.450, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00389

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

ED_013582_00000081-00391

June 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR ANTHRACENE
300 µg/L (organisms+water)
400 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 610 L/kg tissue
RfD = 0.3 mg/kg-day
RSC = 0.20

Sources: Integrated Risk Information System - Anthracene (Sep. 1, 1990); Update of Human Health Ambient Water Quality Criteria: Anthracene, EPA 820-R-15-008 (June 2015); 80 Fed. Reg. 36986 (Jun 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (Jun 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

ED_013582_00000081-00393

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

ED_013582_00000081-00394

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-00395

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00396

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Sources: History note to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016).

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540

ED_013582_00000081-00397

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N D. Fla. Order of Dismissal May 30, 2017).

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Anthracene or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-00400

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR ANTIMONY
14 µg/L (organisms+water)
4,300 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 0.5 L/kg tissue
RfD = 0.0004 mg/kg-day

Sources: Ambient Water Quality Criteria for Antimony, EPA 440-5-80-020 (Oct. 1980); Integrated Risk Information System - Antimony (Jan. 31, 1987); 56 Fed. Reg. 58442 (Nov. 19, 1991).

Dec. 7, 1990
FLORIDA ADOPTS WQC FOR ANTIMONY
14 µg/L (organisms+water)
4,300 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 0.5 L/kg
RfD = 0.0004 mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

ED_013582_00000081-00401

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR ANTIMONY
14 µg/L (organisms+water)
4,300 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 0.5 L/kg tissue
RfD = 0.0004 mg/kg-day

Sources: Ambient Water Quality Criteria for Antimony, EPA 440-5-80-020 (Oct. 1980); Integrated Risk Information System - Antimony (Jan. 31, 1987); 57 Fed. Reg. 60911 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

July 21, 1995
LEAF PETITIONS FLORIDA TO REVISE WQC FOR ANTIMONY
13.7 µg/L (organisms+water)
609 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 0.5 L/kg tissue
RfD = 0.0004 mg/kg-day

Source: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (Jul. 21, 1995).

Oct. 25, 1995
FLORIDA DENIES LEAF PETITION TO REVISE WQC FOR ANTIMONY
13.7 µg/L (organisms+water)
609 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 0.5 L/kg tissue
RfD = 0.0004 mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995).

Dec. 27, 1998
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR ANTIMONY
14 µg/L (organisms+water)
4,300 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 1.0 L/kg tissue
RfD = 0.0004 mg/kg-day

Sources: Ambient Water Quality Criteria for Antimony, EPA 440-5-80-020 (Oct. 1980); Integrated Risk Information System - Antimony (Jan. 31, 1987); 63 Fed. Reg. 68357 (Dec. 10, 1998).

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

ED_013582_00000081-00404

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-00405

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-00406

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR ANTIMONY

5.6 µg/L (organisms+water)
640 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 1.0 L/kg tissue
RfD = 0.0004 mg/kg-day
RSC = 0.40

Sources: Ambient Water Quality Criteria for Antimony, EPA 440-5-80-020 (Oct. 1980); Integrated Risk Information System (Feb. 1, 1991); National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

ED_013582_00000081-00408

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

ED_013582_00000081-00409

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

ED_013582_00000081-00410

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

ED_013582_00000081-00411

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

ED_013582_00000081-00412

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-00414

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code rs. 62-302.800.

ED_013582_00000081-00415

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

ED_013582_00000081-00416

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009).

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

ED_013582_00000081-00418

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

ED_013582_00000081-00419

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

ED_013582_00000081-00420

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-00421

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

ED_013582_00000081-00422

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

ED_013582_00000081-00423

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244 ,62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.353, 62-303.360, 62-303.380, 62-303.420, 62-303.450, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00425

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00426

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

ED_013582_00000081-00429

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-00431

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00432

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Sources: History note to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016).

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code r. 62-302.540.

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

ED_013582_00000081-00434

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Antimony or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-00436

Dec. 7, 1990
FLORIDA ADOPTSWQC FOR BENZENE
1.18 µg/L (organisms+water)
71.28 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 5.2 L/kg
CSF = 0.029 per mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR BENZENE
1.2 µg/L (organisms+water)
71 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 5.2 L/kg tissue
CSF = 0.029 per mg/kg-day

Sources: Ambient Water Quality Criteria for Benzene, EPA 440-5-80-018 (Oct. 1980); Integrated Risk Information System - Benzene (Nov. 19, 1991)) 56 Fed. Reg. 58442 (Nov. 19, 1991).

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR BENZENE
1.2 µg/L (organisms+water)
71 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 5.2 L/kg tissue
CSF = 0.029 per mg/kg-day

Sources: Ambient Water Quality Criteria for Benzene, EPA 440-5-80-018 (Oct. 1980); Integrated Risk Information System - Benzene (Dec. 22, 1992); 57 Fed. Reg. 60911 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

ED_013582_00000081-00438

July 21, 1995
LEAF PETITIONS FLORIDA TO REVISE WQC FOR BENZENE
1.08 µg/L (organisms+water)
10.09 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 5.2 L/kg tissue
CSF = 0.029 per mg/kg-day

Sources: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (July 21, 1995).

Oct. 25, 1995
FLORIDA DENIES LEAF PETITION TO REVISE WQC FOR BENZENE
1.08 µg/L (organisms+water)
10.09 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 5.2 L/kg tissue
CSF = 0.029 per mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995)

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.7 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

ED_013582_00000081-00440

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-00441

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

ED_013582_00000081-00442

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-00443

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR BENZENE

2.2 µg/L (organisms+water)
51 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 5.2 L/kg tissue
CSF = 0.015 - 0.055 per mg/kg-day

Sources: Ambient Water Quality Criteria for Benzene, EPA 440-5-80-018(Oct. 1980); Integrated Risk Information System - Benzene (Jan. 19, 2000); National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

ED_013582_00000081-00445

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

ED_013582_00000081-00446

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-00450

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00451

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009).

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-00456

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

ED_013582_00000081-00457

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.320, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.420, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00460

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00461

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015)

June 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR BENZENE

0.58 - 2.1 µg/L (organisms+water)
16 - 58 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 3.6, 4.5, and 5.0 L/kg tissue
CSF = 0.015 - 0.055 per mg/kg-day

Sources: Integrated Risk Information System - Benzene (Jan. 19, 2000); Update of Human Health Ambient Water Quality Criteria: Benzene, EPA 820-R-15-009 (June 2015); 80 Fed. Reg. 36986 (Jun 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (Jun 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-00466

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720

ED_013582_00000081-00467

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Sources: History note to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016).

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Benzene or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-00471

Dec. 7, 1990
FLORIDA ADOPTS WQC FOR BETA-HEXACHLOROCYCLOHEXANE
0.014 µg/L (organisms+water)
0.046 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 130 L/kg
CSF = 1.8 per mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR BETA-HEXACHLOROCYCLOHEXANE
0.014 µg/L (organisms+water)
0.046 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 130 L/kg tissue
CSF = 1.8 per mg/kg-day

Sources: Ambient Water Quality Criteria for Hexachlorocyclohexane, EPA 440-5-80-054 (Oct. 1980); Integrated Risk Information Service - beta-Hexachlorocyclohexane (Sep. 30, 1987); 56 Fed. Reg. 58443 (Nov. 19, 1991).

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR BETA-HEXACHLOROCYCLOHEXANE
0.014 µg/L (organisms+water)
0.046 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 130 L/kg tissue
CSF = 1.8 per mg/kg-day

Sources: Ambient Water Quality Criteria for Hexachlorocyclohexane, EPA 440-5-80-054 (Oct. 1980); Integrated Risk Information Service - beta-Hexachlorocyclohexane (Sep. 30, 1987); 57 Fed. Reg. 60914 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

July 21, 1995
LEAF PETITIONS FLORIDA
TO REVISE WQC FOR
BETA-HEXACHLOROCYCLOHEXANE
0.0049 µg/L (organisms+water)
0.0065 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 130 L/kg tissue
CSF = 1.8 per mg/kg-day

Sources: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (July 21, 1995).

Oct. 25, 1995
FLORIDA DENIES LEAF
PETITION TO REVISE WQC FOR
BETA-HEXACHLOROCYCLOHEXANE
0.0049 µg/L (organisms+water)
0.0065 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 130 L/kg tissue
CSF = 1.8 per mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995).

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-00476

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR BETA-HEXACHLOROCYCLOHEXANE
0.0091 µg/L (organisms+water)
0.017 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 130 L/kg tissue
CSF = 1.8 per mg/kg-d

Sources: Ambient Water Quality Criteria for Hexachlorocyclohexane, EPA 440-5-80-054 (Oct. 1980); Integrated Risk Information Service - Beta-Hexachlorocyclohexane (Sep. 30, 1987); National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

ED_013582_00000081-00481

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

ED_013582_00000081-00483

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

ED_013582_00000081-00484

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-00485

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00486

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009)

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for beta-Hexchlorocyclohexane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

ED_013582_00000081-00489

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-00491

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

ED_013582_00000081-00492

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

ED_013582_00000081-00493

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244 ,62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.353, 62-303.360, 62-303.380, 62-303.420, 62-303.450, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00495

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00496

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

June 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR BETA-HEXACHLOROCYCLOHEXANE
0.0080 µg/L (organisms+water)
0.014 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 110, 160, 180 L/kg tissue
CSF = 1.8 per mg/kg-d

Sources: Update of Human Health Ambient Water Quality Criteria: beta-Hexachlorocyclohexane, EPA 820-R-15-015 (June 2015); 80 Fed. Reg. 36986 (Jun 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (Jun 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

ED_013582_00000081-00499

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

ED_013582_00000081-00500

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-00501

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00502

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Sources: History note to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016)

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutant proposed or adopted

Source: History notes to Fla. Admin. Code r. 62-302.540.

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for beta-Hexachlorocyclohexane or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

ED_013582_00000081-00505

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-00506

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR BROMOFORM
4.3 µg/L (organisms+water)
360 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.75 L/kg tissue
CSF = 0.0079 per mg/kg-day

Sources: Ambient Water Quality Criteria for Halomethanes, EPA 440-5-80-051 (Oct. 1980); Integrated Risk Information System - Bromoform (Sep. 1, 1990); 56 Fed. Reg. 58443 (Nov. 19, 1991).

Mar. 27, 1992
FLORIDA ADOPTS WQC FOR BROMOFORM
4.3 µg/L (organisms+water)
360 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.75 L/kg
CSF = 0.0079 per mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

ED_013582_00000081-00507

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR BROMOFORM
4.3 µg/L (organisms+water)
360 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.75 L/kg tissue
CSF = 0.0079 per mg/kg-day

Sources: Ambient Water Quality Criteria for Halomethanes, EPA 440-5-80-051 (Oct. 1980); Integrated Risk Information Service (Sep. 1, 1990); 57 Fed. Reg. 60914 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

ED_013582_00000081-00508

July 21, 1995
LEAF PETITIONS FLORIDA TO REVISE WQC FOR BROMOFORM
4.1 µg/L (organisms+water)
51.37 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.75 L/kg tissue
CSF = 0.0079 per mg/kg-day

Sources: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (July 21, 1995).

Oct. 25, 1995
FLORIDA DENIES LEAF PETITION TO REVISE WQC FOR BROMOFORM
4.1 µg/L (organisms+water)
51.37 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.75 L/kg tissue
CSF = 0.0079 per mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995).

ED_013582_00000081-00509

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

ED_013582_00000081-00510

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-00511

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-00512

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

ED_013582_00000081-00513

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR BROMOFORM
4.3 µg/L (organisms+water)
140 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.75 L/kg tissue
CSF = 0.0079 per mg/kg-day

Sources: Ambient Water Quality Criteria for Halomethanes, EPA 440-5-80-051 (Oct. 1980); Integrated Risk Information System (Sep. 1, 1990); National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

ED_013582_00000081-00514

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

ED_013582_00000081-00515

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

ED_013582_00000081-00516

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

ED_013582_00000081-00517

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

ED_013582_00000081-00518

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-00520

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00521

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

ED_013582_00000081-00522

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009)

ED_013582_00000081-00523

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

ED_013582_00000081-00524

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-00526

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

ED_013582_00000081-00527

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

ED_013582_00000081-00528

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

ED_013582_00000081-00529

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Bromoform any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.320, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.420, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00530

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00531

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

June 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR BROMOFORM
7.0 µg/L (organisms+water)
120 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 5.8, 7.5, and 8.5 L/kg tissue
CSF = 0.0045 per mg/kg-day

Sources: Update of Human Health Ambient Water Quality Criteria: Bromoform, EPA 820-R-15-021 (June 2015); 80 Fed. Reg. 36986 (June 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (June 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

ED_013582_00000081-00534

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-00536

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00537

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N D. Fla. Complaint filed Dec. 28, 2016).

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Bromoform oor any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code r. 62-302.540.

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N. D. Fla. Order of Dismissal May 30, 2017).

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019.)

ED_013582_00000081-00539

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Bromoform or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-00541

Dec. 7, 1990
FLORIDA ADOPTS WQC FOR CARBON TETRACHLORIDE
0.25 µg/L (organisms+water)
4.42 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 18.75 L/kg
CSF = 0.13 per mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR CARBON TETRACHLORIDE
0.25 µg/L (organisms+water)
4.4 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 18.75 L/kg tissue
CSF = 0.13 per mg/kg-day

Sources: Ambient Water Quality Criteria for Carbon Tetrachloride, EPA 440/5-80-026 (Oct. 1980); Integrated Risk Information System - Carbon Tetrachloride (Jan. 31, 1987); 56 Fed. Reg. 58442 (Nov. 19, 1991).

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR CARBON TETRACHLORIDE
0.25 µg/L (organisms+water)
4.4 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 18.75 L/kg tissue
CSF = 0.13 per mg/kg-day

Sources: Ambient Water Quality Criteria for Carbon Tetrachloride, EPA 440/5-80-026 (Oct. 1980); Integrated Risk Information System - Carbon Tetrachloride (Jan. 31, 1987); 57 Fed. Reg. 60911 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

July 21, 1995
LEAF PETITIONS FLORIDA TO REVISE WQC FOR CARBON TETRACHLORIDE
0.19 µg/L (organisms+water)
0.62 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 18.75 L/kg tissue
CSF = 0.13 per mg/kg-day

Sources: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (July 21, 1995).

ED_013582_00000081-00543

Oct. 25, 1995
FLORIDA DENIES LEAF PETITION TO REVISE WQC FOR CARBON TETRACHLORIDE
0.19 µg/L (organisms+water)
0.62 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 18.75 L/kg tissue
CSF = 0.13 per mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995)

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

ED_013582_00000081-00544

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-00545

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-00546

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR CARBON TETRACHLORIDE
2.3 µg/L (organisms+water)
1.6 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 18.75 L/kg tissue
CSF = 0.13 per mg/kg-day

Sources: Ambient Water Quality Criteria for Carbon Tetrachloride, EPA 440/5-80-026 (Oct. 1980); Integrated Risk Information System - Carbon Tetrachloride (Jan. 31, 1987); National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

ED_013582_00000081-00548

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

ED_013582_00000081-00549

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

ED_013582_00000081-00550

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

ED_013582_00000081-00551

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

ED_013582_00000081-00552

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

ED_013582_00000081-00553

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-00554

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00555

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

ED_013582_00000081-00556

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009).

ED_013582_00000081-00557

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

ED_013582_00000081-00558

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-00560

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

ED_013582_00000081-00561

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

ED_013582_00000081-00562

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

ED_013582_00000081-00563

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.320, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.420, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00564

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00565

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

June 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR CARBON TETRACHLORIDE

0.58 - 2.1 µg/L (organisms+water)
16 - 58 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 9.3, 12, and 14 L/kg tissue
CSF = 0.07 per mg/kg-day

Sources: Update of Human Health Ambient Water Quality Criteria: Carbon Tetrachloride , EPA 820-R-15-023 (June 2015); 80 Fed. Reg. 36986 (Jun 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (Jun 2015)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

ED_013582_00000081-00568

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

ED_013582_00000081-00569

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-00570

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00571

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Sources: History note to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N D. Fla. Complaint filed Dec. 28, 2016).

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

ED_013582_00000081-00573

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Carbon Tetrachloride or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-00575

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR CHLORDANE
0.00057 µg/L (organisms+water)
0.00059 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 14,100 L/kg tissue
CSF = 1.3 per mg/kg-day

Sources: Ambient Water Quality Criteria for Chlordane, EPA 440-5-80-027 (Oct. 1980); Integrated Risk Information System - Chlordane (Mar. 31, 1987); 56 Fed. Reg. 58443 (Nov. 19, 1991).

Mar. 27, 1992
FLORIDA ADOPTS WQC FOR CHLORDANE
0.00058 µg/L (organisms+water)
0.00059 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 14,100 L/kg
CSF = 1.3 per mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

ED_013582_00000081-00576

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR CHLORDANE
0.00057 µg/L (organisms+water)
0.00059 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 14,100 L/kg tissue
CSF = 1.3 per mg/kg-day

Sources: Ambient Water Quality Criteria for Chlordane, EPA 440-5-80-027 (Oct. 1980); Integrated Risk Information System - Chlordane (Mar. 31, 1987); 57 Fed. Reg. 60914 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994)

July 21, 1995
LEAF PETITIONS FLORIDA TO REVISE WQC FOR CHLORDANE
0.00008 µg/L (organisms+water)
0.00008 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 14,100 L/kg tissue
CSF = 1.3 per mg/kg-day

Source: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (July 21, 1995).

Oct. 25, 1995
FLORIDA DENIES LEAF PETITION TO REVISE WQC FOR CHLORDANE
0.00008 µg/L (organisms+water)
0.00008 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 14,100 L/kg tissue
CSF = 1.3 per mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995)

Dec. 10, 1998
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR CHLORDANE
0.0021 µg/L (organisms+water)
0.0022 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 14,100 L/kg tissue
CSF = 0.35 per mg/kg-day

Source: Ambient Water Quality Criteria for Chlordane, EPA 440-5-80-027 (Oct. 1980); Integrated Risk Information System - Chlordane (Feb. 7, 1998); 63 Fed. Reg. 68358 (Dec. 10, 1998).

ED_013582_00000081-00578

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

ED_013582_00000081-00579

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-00580

June 10, 2002
FLORIDA ADOPTS REVISED
WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-00581

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

ED_013582_00000081-00582

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR CHLORDANE

0.00080 µg/L (organisms+water)
0.00081 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 14,100 L/kg tissue
CSF = 0.35 per mg/kg-day

Sources: Ambient Water Quality Criteria for Chlordane, EPA 440-5-80-027 (Oct. 1980); Integrated Risk Information System - Chlordane (Feb. 7, 1998); National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

ED_013582_00000081-00583

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

ED_013582_00000081-00584

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

ED_013582_00000081-00585

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

ED_013582_00000081-00586

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

ED_013582_00000081-00587

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

ED_013582_00000081-00588

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-00589

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00590

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

ED_013582_00000081-00591

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009).

ED_013582_00000081-00592

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-00595

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code rs. 62-302.532.

ED_013582_00000081-00596

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

ED_013582_00000081-00597

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

ED_013582_00000081-00598

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Chlordane any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.320, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.420, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00599

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00600

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

June 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR CHLORDANE
0.00031 µg/L (organisms+water)
0.00032 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 5,300, 44,000 and 60,000 L/kg tissue
CSF = 0.35 per mg/kg-day

Sources: Integrated Risk Information System - Chlordane (Feb. 7, 1998); Update of Human Health Ambient Water Quality Criteria: Chlordane, EPA 820-R-15-024 (June 2015); 80 Fed. Reg. 36986 (June 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (June 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-00605

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00606

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Sources: History note to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016).

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

ED_013582_00000081-00608

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Chlordane or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-00610

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR CHLORODIBROMOMETHANE
0.41 µg/L (organisms+water)
34 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.75 L/kg tissue
CSF = 0.084 per mg/kg-day

Sources: Ambient Water Quality Criteria for Halomethanes, EPA 440-5-80-051 (Oct. 1980); Integrated Risk Information System - Dibromochloromethane (Nov. 1, 1990); 56 Fed. Reg. 58443 (Nov. 19, 1991).

Mar. 27, 1992
FLORIDA ADOPTS WQC FOR CHLORODIBROMOMETHANE
0.41 µg/L (organisms+water)
34 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.75 L/kg
CSF = 0.084 per mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, Fla. Dep't of Envtl. Protection, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021). See 56 Fed. Reg. 58460-61 (Nov. 19, 1991) (Florida adopted numeric criteria for toxic pollutants but did not submit and certify the criteria to EPA with a request for approval).

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR CHLORODIBROMOMETHANE
0.41 µg/L (organisms+water)
34 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.75 L/kg tissue
CSF = 0.084 per mg/kg-day

Sources: Ambient Water Quality Criteria for Halomethanes, EPA 440-5-80-051 (Oct. 1980); Integrated Risk Information System - Dibromochloromethane (Nov. 1, 1990); 57 Fed. Reg. 60914 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

July 21, 1995
LEAF PETITIONS FLORIDA TO REVISE WQC FOR CHLORODIBROMOMETHANE
0.38 µg/L (organisms+water)
4.83 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.75 L/kg tissue
CSF = 0.084 per mg/kg-day

Sources: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (July 21, 1995).

ED_013582_00000081-00612

Oct. 25, 1995
FLORIDA DENIES LEAF PETITION TO REVISE WQC FOR CHLORODIBROMOMETHANE
0.38 µg/L (organisms+water)
4.83 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.75 L/kg tissue
CSF = 0.084 per mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995).

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-00614

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

ED_013582_00000081-00616

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR CHLORODIBROMOMETHANE
0.40 µg/L (organisms+water)
13 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.75 L/kg tissue
CSF = 0.084 per mg/kg-day

Sources: Ambient Water Quality Criteria for Halomethanes, EPA 440-5-80-051 (Oct. 1980); Integrated Risk Information System - Dibromochloromethane (Nov. 1, 1990); National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

ED_013582_00000081-00617

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

ED_013582_00000081-00618

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

ED_013582_00000081-00619

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

ED_013582_00000081-00620

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

ED_013582_00000081-00621

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-00623

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00624

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

ED_013582_00000081-00625

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Fla. Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Fla. Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

Jun. 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (Jun. 18, 2009)

ED_013582_00000081-00626

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

ED_013582_00000081-00627

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Fla. Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-00629

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

ED_013582_00000081-00630

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

ED_013582_00000081-00631

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

ED_013582_00000081-00632

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244 ,62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.353, 62-303.360, 62-303.380, 62-303.420, 62-303.450, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00633

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Fla. Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

Jun. 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR CHLORODIBROMOMETHANE
0.80 µg/L (organisms+water)
21 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 3.7, 4.8, and 5.3 L/kg tissue
CSF = 0.040 per mg/kg-day

Sources: Update of Human Health Ambient Water Quality Criteria: Chlorodibromomethane, EPA 820-R-15-026 (Jun. 2015); 80 Fed. Reg. 36986 (Jun 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (Jun 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

ED_013582_00000081-00637

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-00639

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00640

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Sources: History note to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016).

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

ED_013582_00000081-00641

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Chlorodibromomethane or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-00644

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR CHLOROFORM
5.7 µg/L (organisms+water)
470 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.75 L/kg tissue
CSF = 0.0061 per mg/kg-day

Sources: Ambient Water Quality Criteria for Chloroform, EPA 440-5-80-033 (Oct. 1980); Integrated Risk Information Service - Chloroform (Nov. 19, 1991); 56 Fed. Reg. 58443 (Nov. 19, 1991).

Mar. 27, 1992
FLORIDA ADOPTS WQC FOR CHLOROFORM
5.67 µg/L (organisms+water)
470.8 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.75 L/kg
CSF = 0.0061 per mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, Fla. Dep't of Envtl. Protection, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR CHLOROFORM
5.7 µg/L (organisms+water)
470 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.75 L/kg tissue
CSF = 0.0061 per mg/kg-d

Sources: Ambient Water Quality Criteria for Chloroform, EPA 440-5-80-033 (Oct. 1980); Integrated Risk Information Service - Chloroform (Dec. 22, 1992); 57 Fed. Reg. 60914 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

July 21, 1995
LEAF PETITIONS FLORIDA TO REVISE WQC FOR CHLOROFORM
5.28 µg/L (organisms+water)
66.52 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.75 L/kg tissue
CSF = 0.0061 per mg/kg-day

Sources: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (July 21, 1995).

ED_013582_00000081-00646

Oct. 25, 1995
FLORIDA DENIES LEAF PETITION TO REVISE WQC FOR CHLOROFORM

5.28 µg/L (organisms+water)
66.52 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.75 L/kg tissue
CSF = 0.0061 per mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995).

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

ED_013582_00000081-00647

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-00648

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-00649

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

ED_013582_00000081-00650

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR CHLOROFORM

5.7 µg/L (organisms+water)
470 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.75 L/kg tissue
CSF = 0.0061 per mg/kg-day

Sources: Ambient Water Quality Criteria for Chloroform, EPA 440-5-80-033 (Oct. 1980); Integrated Risk Information System - Chloroform (Jan. 1, 1992); National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

ED_013582_00000081-00651

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

ED_013582_00000081-00652

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

ED_013582_00000081-00653

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

ED_013582_00000081-00654

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

ED_013582_00000081-00655

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

ED_013582_00000081-00656

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-00657

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00658

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

ED_013582_00000081-00659

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Fla. Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Fla. Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009).

ED_013582_00000081-00660

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

ED_013582_00000081-00661

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Fla. Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-00663

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

ED_013582_00000081-00664

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

ED_013582_00000081-00665

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Chloroform any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.320, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.420, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00667

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00668

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Fla. Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

June 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR CHLOROFORM
60 µg/L (organisms+water)
2,000 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 2.8, 3.4, and 3.8 L/kg tissue
RfD = 0.01 mg/kg-day
RSC = 0.20

Sources: Update of Human Health Ambient Water Quality Criteria: Chloroform, EPA 820-R-15-027 (June 2015); 80 Fed. Reg. 36986 (Jun 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (Jun 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-00673

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Chloroform or any other toxic pollutant proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00674

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chloroform or any other toxic pollutant proposed or adopted

Sources: History notes to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016).

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Chloroform or any other toxic pollutant proposed or adopted

Source: History notes to Fla. Admin. Code r. 62-302.540.

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Chloroform or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-00678

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR DICHLOROBROMOMETHANE
0.27 µg/L (organisms+water)
22 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.75 L/kg tissue
CSF = 0.13 per mg/kg-day

Sources: Ambient Water Quality Criteria for Halomethanes, EPA 440-5-80-051 (Oct. 1980); Integrated Risk Information System - Bromodichloromethane (Nov. 19, 1991); 56 Fed. Reg. 58443 (Nov. 19, 1991).

Mar. 27, 1992
FLORIDA ADOPTS WQC FOR DICHLOROBROMOMETHANE
0.27 µg/L (organisms+water)
22 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.75 L/kg
CSF = 0.13 per mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (1993); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR DICHLOROBROMOMETHANE
0.27 µg/L (organisms+water)
22 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.75 L/kg tissue
CSF = 0.13 per mg/kg-day

Sources: Ambient Water Quality Criteria for Halomethanes, EPA 440-5-80-051 (Oct. 1980); Integrated Risk Information System - Bromodichloromethane (Dec. 22, 1992); 57 Fed. Reg. 60914 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

July 21, 1995
LEAF PETITIONS FLORIDA TO REVISE WQC FOR DICHLOROBROMOMETHANE
0.52 µg/L (organisms+water)
6.55 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.75 L/kg tissue
CSF = 0.13 per mg/kg-day

Source: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (July 21, 1995).

ED_013582_00000081-00680

Oct. 25, 1995
FLORIDA DENIES LEAF PETITION TO REVISE WQC FOR DICHLOROBROMOMETHANE
0.52 µg/L (organisms+water)
6.55 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.75 L/kg tissue
CSF = 0.13 per mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995).

Dec. 10, 1998
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR DICHLOROBROMOMETHANE
0.56 µg/L (organisms+water)
46 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.75 L/kg tissue
CSF = 0.062 per mg/kg-day

Sources: Ambient Water Quality Criteria for Halomethanes, EPA 440-5-80-051 (Oct. 1980); Integrated Risk Information System - Bromodichloromethane (Feb. 1, 1993); 63 Fed. Reg. 68357 (Dec. 10, 1998).

ED_013582_00000081-00681

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-00683

June 10, 2002
FLORIDA ADOPTS REVISED
WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-00684

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR DICHLOROBROMOMETHANE
0.55 µg/L (organisms+water)
17 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 3.75 L/kg tissue
CSF = 0.062 per mg/kg-day

Sources: Ambient Water Quality Criteria for Halomethanes, EPA 440-5-80-051 (Oct. 1980); Integrated Risk Information System - Bromodichloromethane (Feb. 1, 1993); National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

ED_013582_00000081-00686

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

ED_013582_00000081-00687

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

ED_013582_00000081-00689

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

ED_013582_00000081-00690

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

ED_013582_00000081-00691

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-00692

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00693

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

ED_013582_00000081-00694

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009).

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-00698

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

ED_013582_00000081-00699

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

ED_013582_00000081-00700

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.320, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.420, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00702

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

June 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR DICHLOROBROMOMETHANE
0.95 µg/L (organisms+water)
27 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 3.4, 4.3, 4.8 L/kg tissue
CSF = 0.034 per mg/kg-day

Sources: Update of Human Health Ambient Water Quality Criteria: Dichlorobromomethane, EPA 820-R-15-015 (June 2015); 80 Fed. Reg. 36986 (Jun 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (June 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

ED_013582_00000081-00706

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-00708

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00709

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Sources: History note to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016).

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Dichlorobromomethane or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

Dec. 7, 1990
FLORIDA ADOPTS WQC FOR DIELDRIN
0.00014 µg/L (organisms+water)
0.00014 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 4,670 L/kg
CSF = 16 per mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR DIELDRIN
0.00014 µg/L (organisms+water)
0.00014 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF =4,670 L/kg tissue
CSF = 16 per mg/kg-day

Sources: Ambient Water Quality Criteria for Aldrin/Dieldrin, EPA 440-5-80-019 (Dec. 1980); 56 Fed. Reg. 58442 (Nov. 19, 1991).

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR DIELDRIN
0.00014 µg/L (organisms+water)
0.00014 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 4,670 L/kg tissue
CSF =16 per mg/kg-day

Sources: Ambient Water Quality Criteria for Aldrin/Dieldrin, EPA 440-5-80-019 (Dec. 1980); 57 Fed. Reg. 60911 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

July 21, 1995
LEAF PETITIONS FLORIDA TO REVISE WQC FOR DIELDRIN
0.00002 µg/L (organisms+water)
0.00002 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 4,670 L/kg tissue
CSF = 16 per mg/kg-day

Sources: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (July 21, 1995).

Oct. 25, 1995
FLORIDA DENIES LEAF PETITION TO REVISE WQC FOR DIELDRIN

0.00002 µg/L (organisms+water)
0.00002 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 4,670 L/kg tissue
CSF = 16 per mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995).

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

ED_013582_00000081-00716

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-00717

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-00718

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

ED_013582_00000081-00719

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR DIELDRIN

0.000052 µg/L (organisms+water)
0.000054 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 4,670 L/kg tissue
CSF = 16 per mg/kg-day

Sources: National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

ED_013582_00000081-00720

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code r. 62-302.530.

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

ED_013582_00000081-00722

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

ED_013582_00000081-00723

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

ED_013582_00000081-00724

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

ED_013582_00000081-00725

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-00726

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code rs. 62-302.800.

ED_013582_00000081-00727

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

ED_013582_00000081-00728

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009).

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.320, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.420, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

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Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800

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June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

ED_013582_00000081-00738

June 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR DIELDRIN

0.0000012 µg/L (organisms+water)
0.0000012 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 14,000, 210,000, and 410,000 L/kg tissue
CSF = 16 per mg/kg-day

Sources: Update of Human Health Ambient Water Quality Criteria: Dieldrin, EPA 820-R-15-034 (June 2015); 80 Fed. Reg. 36986 (Jun 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (Jun 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

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Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-00742

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Sources: History note to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016).

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Dieldrin or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988)

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Dec. 7, 1990
FLORIDA ADOPTS WQC FOR FLUORANTHENE
42 µg/L (organisms+water)
54 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = ? L/kg
RfD = ? mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021). See 56 Fed. Reg. 58460-61 (Nov. 19, 1991) (Florida adopted numeric criteria for toxic pollutants but did not submit and certify the criteria to EPA with a request for approval).

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR FLUORANTHENE
300 µg/L (organisms+water)
370 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 1150 L/kg tissue
RfD = 0.04 mg/kg-d

Sources: Ambient Water Quality Criteria for Fluoranthene, EPA 440-5-80-049 (Oct. 1980); Integrated Risk Information System - Fluoranthene (Sep. 1, 1990); 56 Fed. Reg. 58442 (Nov. 19, 1991).

Mar. 27, 1992
FLORIDA ADOPTS WQC FOR FLUORANTHENE
300 µg/L (organisms+water)
370 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 1150 L/kg
RfD = 0.04 mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021). See 56 Fed. Reg. 58460-61 (Nov. 19, 1991) (Florida adopted numeric criteria for toxic pollutants but did not submit and certify the criteria to EPA with a request for approval).

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR FLUORANTHENE
300 µg/L (organisms+water)
370 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 1150 L/kg tissue
RfD = 0.04 mg/kg-day

Sources: Ambient Water Quality Criteria for Fluoranthene, EPA 440-5-80-049 (Oct. 1980); Integrated Risk Information System - Fluoranthene (Sep. 1, 1990); 57 Fed. Reg. 60911 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

July 21, 1995
LEAF PETITIONS FLORIDA TO REVISE WQC FOR FLUORANTHENE
0.051 µg/L (organisms+water)
0.053 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 1150 L/kg tissue
RfD = 0.04 mg/kg-day

Source: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (July 21, 1995.

Oct. 25, 1995
FLORIDA DENIES LEAF PETITION TO REVISE WQC FOR FLUORANTHENE
0.051 µg/L (organisms+water)
0.053 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 1150 L/kg tissue
RfD = 0.04 mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995).

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

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May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-00752

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-00753

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

ED_013582_00000081-00754

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES REVISED NATIONAL RECOMMENDED WQC FOR FLUORANTHENE

1,100 µg/L (organisms+water)
5,300 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 30 L/kg tissue
RfD = 0.04 mg/kg-day

Sources: Ambient Water Quality Criteria for Fluoranthene, EPA 440-5-80-049 (Oct. 1980); Integrated Risk Information System - Fluoranthene (Sep. 1, 1990); National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

ED_013582_00000081-00755

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

ED_013582_00000081-00756

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

ED_013582_00000081-00757

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

ED_013582_00000081-00758

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

ED_013582_00000081-00759

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

ED_013582_00000081-00760

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-00761

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00762

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

ED_013582_00000081-00763

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code rs. 62-302.200.

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009).

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

(*continued . . .*)

ED_013582_00000081-00767

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800

ED_013582_00000081-00768

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244 ,62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.353, 62-303.360, 62-303.380, 62-303.420, 62-303.450, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00771

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

June 29, 2015
EPA PUBLISHES REVISED NATIONAL RECOMMENDED WQC FOR FLUORANTHENE
50 µg/L (organisms+water)
70 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 230, 450, 710 L/kg tissue
RfD = 0.04 mg/kg-day
RSC = 0.20

Sources: Integrated Risk Information System - Fluoranthene (Sep. 1, 1990; Update of Human Health Ambient Water Quality Criteria: Fluoranthene, EPA 820-R-15-044 (June 2015); 80 Fed. Reg. 36986 (Jun 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (Jun 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

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Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

ED_013582_00000081-00776

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-00777

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00778

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Sources: History note to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N. D. Fla. Complaint filed Dec. 28, 2016)

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Fluoranthene or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021)

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-00782

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR FLUORENE
1,300 µg/L (organisms+water)
14,000 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 30 L/kg tissue
RfD = 0.04 mg/kg-day

Sources: Ambient Water Quality Criteria for Polynuclear Aromatic Hydrocarbons, EPA 440-5-80-069 (Oct. 1980); Integrated Risk Information System - Fluorene (Nov. 1, 1990); 56 Fed. Reg. 58442 (Nov. 19, 1991).

Mar. 27, 1992
FLORIDA ADOPTS WQC FOR FLUORENE
1,300 µg/L (organisms+water)
14,000 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 30 L/kg
RfD = 0.04 mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

Dec. 22, 1992
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR FLUORENE
1,300 µg/L (organisms+water)
14,000 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 30 L/kg tissue
RfD = 0.04 mg/kg-day

Sources: Ambient Water Quality Criteria for Polynuclear Aromatic Hydrocarbons, EPA 440-5-80-069 (Oct. 1980); Integrated Risk Information System - Fluorene (Nov. 1, 1990); 57 Fed. Reg.60914 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

Jul. 21, 1995
LEAF PETITIONS FLORIDA TO REVISE WQC FOR FLUORENE
0.083 µg/L (organisms+water)
2.03 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 30 L/kg tissue
RfD = 0.04 mg/kg-day

Sources: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (Jul. 21, 1995).

Oct. 25, 1995
FLORIDA DENIES LEAF PETITION TO REVISE WQC FOR FLUORENE

0.083 µg/L (organisms+water)
2.03 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 30 L/kg tissue
RfD = 0.04 mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995).

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-00786

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR FLUORENE

1,100 µg/L (organisms+water)
5,300 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 30 L/kg tissue
RfD = 0.04 mg/kg-dayay

Sources: National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002); Integrated Risk Information System - Fluorene (Nov. 1, 1990).

ED_013582_00000081-00789

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

Jul. 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

Jul. 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

ED_013582_00000081-00790

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

ED_013582_00000081-00791

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

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ED_013582_00000081-00794

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-

ED_013582_00000081-00795

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code rs. 62-302.800

ED_013582_00000081-00796

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code rs. 62-302.200

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 g/day

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10

Jul. 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (Jul. 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008)

Jun. 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (Jun. 18, 2009)

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012)

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-00801

Jul. 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

ED_013582_00000081-00802

Jul. 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244 ,62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.353, 62-303.360, 62-303.380, 62-303.420, 62-303.450, 62-303.470, 62-303.480, 62-303.500 & 62-

ED_013582_00000081-00805

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00806

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015)

ED_013582_00000081-00807

Jun. 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR FLUORENE
50 µg/L (organisms+water)
70 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 230, 450, 710 L/kg tissue
RfD = 0.04 mg/kg-day
RSC = 0.20

Sources: Update of Human Health Ambient Water Quality Criteria: Fluorene, EPA 820-R-15-044 (Jun. 2015); 80 Fed. Reg. 36986 (Jun 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (Jun 2015)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

ED_013582_00000081-00809

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

ED_013582_00000081-00810

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-00811

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720

ED_013582_00000081-00812

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code r. 62-302.400

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N. D. Fla. Complaint filed Dec. 28, 2016)

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code r. 62-302.540

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017)

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N. D. Fla. Order of Dismissal May 30, 2017)

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019)

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Fluorene or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021)

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022)

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-00816

Dec. 7, 1990
FLORIDA ADOPTS WQC FOR GAMMA-BHC (LINDANE)
0.019 µg/L (organisms+water)
0.063 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 130 L/kg
CSF = 1.3 per mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR GAMMA-BHC (LINDANE)
0.019 µg/L (organisms+water)
0.063 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 130 L/kg tissue
CSF = 1.3 per mg/kg-day

Sources: Ambient Water Quality Criteria for Hexachlorocyclohexane, EPA 440-5-80-054 (Oct. 1980); 56 Fed. Reg. 58443 (Nov. 19, 1991).

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR GAMMA-BHC (LINDANE)
0.019 µg/L (organisms+water)
0.063 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 130 L/kg tissue
CSF = 1.3 per mg/kg-day

Sources: Ambient Water Quality Criteria for Hexachlorocyclohexane, EPA 440-5-80-054 (Oct. 1980); 57 Fed. Reg. 60914 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

ED_013582_00000081-00818

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

ED_013582_00000081-00819

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-00820

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-00821

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

ED_013582_00000081-00822

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

ED_013582_00000081-00823

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

ED_013582_00000081-00824

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

ED_013582_00000081-00825

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

ED_013582_00000081-00826

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

ED_013582_00000081-00827

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

(*continued . . .*)

ED_013582_00000081-00828

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutant proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360 & 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-00829

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00830

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

ED_013582_00000081-00831

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (Jul. 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (Jun. 18, 2009).

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

ED_013582_00000081-00833

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

ED_013582_00000081-00834

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

ED_013582_00000081-00835

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-00836

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.53, 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

ED_013582_00000081-00837

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

ED_013582_00000081-00838

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.320, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.420, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00840

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00841

Jun. 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Jun. 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR GAMMA-BHC (LINDANE)
4.2 µg/L (organisms+water)
4.4 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 1,200, 2,400, and 2,500 L/kg tissue
RfD = 0.0047 mg/kg-day
RSC = 0.50

Sources: Update of Human Health Ambient Water Quality Criteria: gamma-Hexachlorocyclohexane, EPA 820-R-15-045 (Jun. 2015); 80 Fed. Reg. 36986 (Jun 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (Jun 2015).

ED_013582_00000081-00842

Jun. 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED
WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-00846

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00847

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Sources: History note to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016).

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for gamma-BHC (Lindane) or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-00851

Dec. 7, 1990
FLORIDA ADOPTS WQC FOR HELPTACHLOR
0.00021 µg/L (organisms+water)
0.00021 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 11,200 L/kg
CSF = 4.5 per mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021). See 56 Fed. Reg. 58460-61 (Nov. 19, 1991) (Florida adopted numeric criteria for toxic pollutants but did not submit and certify the criteria to EPA with a request for approval).

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR HELPTACHLOR
0.00021 µg/L (organisms+water)
0.00021 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 11,200 L/kg tissue
CSF = 4.5 per mg/kg-day

Sources: Ambient Water Quality Criteria for Heptachlor, EPA 440-5-80-052 (Oct. 1980); Integrated Risk Information System - Heptachlor (Sep. 30, 1987); 56 Fed. Reg. 58443 (Nov. 19, 1991).

Dec. 22, 1992
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR HELPTACHLOR
0.00021 µg/L (organisms+water)
0.00021 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 11,200 L/kg tissue
CSF = 4.5 per mg/kg-day

Sources: Ambient Water Quality Criteria for Heptachlor, EPA 440-5-80-052 (Oct. 1980); Integrated Risk Information System - Heptachlor (Sep. 30, 1987); 57 Fed. Reg. 60915 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

July 21, 1995
LEAF PETITIONS FLORIDA TO REVISE WQC FOR HELPTACHLOR
0.00003 µg/L (organisms+water)
0.00003 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 11,200 L/kg tissue
CSF = 4.5 per mg/kg-day

Sources: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (July 21, 1995).

Oct. 25, 1995
FLORIDA DENIES LEAF PETITION TO REVISE WQC FOR HELPTACHLOR

0.00003 µg/L (organisms+water)
0.00003 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 11,200 L/kg tissue
CSF = 4.5 per mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995).

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

ED_013582_00000081-00854

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

ED_013582_00000081-00855

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-00856

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-00857

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

ED_013582_00000081-00858

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR HELPTACHLOR

0.000079 µg/L (organisms+water)
0.000079 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 11,200 L/kg tissue
CSF = 4.5 per mg/kg-day

Sources: National Recommended Water Quality Criteria: 2002, EPA-822-R-02-047 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002); Integrated Risk Information System (July 1, 1993).

ED_013582_00000081-00859

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

ED_013582_00000081-00861

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800

ED_013582_00000081-00862

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800

ED_013582_00000081-00863

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

ED_013582_00000081-00864

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-00865

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code rs. 62-302.800.

ED_013582_00000081-00866

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code rs. 62-302.200.

ED_013582_00000081-00867

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009).

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006.)

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006.)

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-00871

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

ED_013582_00000081-00872

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244 ,62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.353, 62-303.360, 62-303.380, 62-303.420, 62-303.450, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00875

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00876

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

June 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR HELPTACHLOR

0.0000059 µg/L (organisms+water)
0.0000059 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 12,000, 180,000, 330,000 L/kg tissue
CSF = 4.1 per mg/kg-day

Sources: Update of Human Health Ambient Water Quality Criteria: Heptachlor, EPA 820-R-15-046 (June 2015); 80 Fed. Reg. 36986 (Jun 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (Jun 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

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Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

ED_013582_00000081-00880

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

ED_013582_00000081-00881

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-00882

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00883

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code r. 62-302.400

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016)

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code r. 62-302.540

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Heptachlor or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c) (2) (B)" (Dec. 12, 1988.

ED_013582_00000081-00887

Dec. 7, 1990
FLORIDA ADOPTS WQC FOR HEXACHLOROBUTADIENE
0.45 µg/L (organisms+water)
49.7 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 2.78 L/kg
CSF = 0.078 per mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR HEXACHLOROBUTADIENE
0.44 µg/L (organisms+water)
50 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 2.78 L/kg tissue
CSF = 0.078 per mg/kg-day

Sources: Ambient Water Quality Criteria for Hexachlorobutadiene, EPA 440-5-80-053 (Oct. 1980); Integrated Risk Information System - Hexachlorobutadiene (Mar. 31, 1987); 56 Fed. Reg. 58442 (Nov. 19, 1991).

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR HEXACHLOROBUTADIENE
0.44 µg/L (organisms+water)
50 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 2.78 L/kg tissue
CSF = 0.078 per mg/kg-day

Sources: Ambient Water Quality Criteria for Hexachlorobutadiene, EPA 440-5-80-053 (Oct. 1980); Integrated Risk Information System - Hexachlorobutadiene (Mar. 31, 1987); 57 Fed. Reg. 60911 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

July 21, 1995
LEAF PETITIONS FLORIDA TO REVISE WQC FOR HEXACHLOROBUTADIENE
0.42 µg/L (organisms+water)
7.02 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 2.78 L/kg tissue
CSF = 0.078 per mg/kg-day

Sources: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (July 21, 1995).

ED_013582_00000081-00889

Oct. 25, 1995
FLORIDA DENIES LEAF PETITION TO REVISE WQC FOR HEXACHLOROBUTADIENE
0.42 µg/L (organisms+water)
7.02 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 2.78 L/kg tissue
CSF = 0.078 per mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995).

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-00892

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR HEXACHLOROBUTADIENE
0.44 µg/L (organisms+water)
18 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 2.78 L/kg tissue
CSF = 0.078 per mg/kg-day

Sources: Ambient Water Quality Criteria for Hexachlorobutadiene, EPA 440-5-80-053 (Oct. 1980); Integrated Risk Information System - Hexachlorobutadiene (Mar. 31, 1987; National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

ED_013582_00000081-00894

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

ED_013582_00000081-00896

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

ED_013582_00000081-00897

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

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Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-00900

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00901

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

ED_013582_00000081-00902

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008)

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009).

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

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July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code rs. 62-302.532

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July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.320, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.420, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00910

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code r. 62-302.800

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June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

June 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR HEXACHLOROBUTADIENE
0.01 µg/L (organisms+water)
0.01 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 23,000, 2,800, and 1,100 L/kg tissue
CSF = 0.04 per mg/kg-day

Sources: Update of Human Health Ambient Water Quality Criteria: Hexachlorobutadiene, EPA 820-R-15-049 (June 2015); 80 Fed. Reg. 36986 (Jun 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (Jun 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

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Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

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Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00917

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Sources: History note to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016).

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017)

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N. D. Fla. Order of Dismissal May 30, 2017)

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

ED_013582_00000081-00919

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Hexachlorobutadiene or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

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Dec. 7, 1990
FLORIDA ADOPTS WQC FOR DICHLOROMETHANE (METHYLENE CHLORIDE)
4.65 µg/L (organisms+water)
1,580 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 0.9 L/kg
CSF = 0.0075 per mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR METHYLENE CHLORIDE (DICHLOROMETHANE)
4.7 µg/L (organisms+water)
1,600 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 0.9 L/kg tissue
CSF = 0.0075 per mg/kg-day

Sources: Ambient Water Quality Criteria for Halomethanes, EPA 440-5-80-051 (Dec. 1980); Integrated Risk Information Service - Methylene Chloride (Sep. 1, 1990); 56 Fed. Reg. 58443 (Nov. 19, 1991).

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR METHYLENE CHLORIDE (DICHLOROMETHANE)
4.65 µg/L (organisms+water)
1,580 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 0.9 L/kg tissue
CSF = 0.0075 per mg/kg-day

Sources: Ambient Water Quality Criteria for Halomethanes, EPA 440-5-80-051 (Dec. 1980); Integrated Risk Information Service - Methylene Chloride (Sep. 1 1990); 57 Fed. Reg. 60912 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

July 21, 1995
LEAF PETITIONS FLORIDA TO REVISE WQC FOR DICHLOROMETHANE (METHYLENE CHLORIDE)
4.57 µg/L (organisms+water)
225 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 0.90 L/kg tissue
CSF = 0.0075 per mg/kg-day

Sources: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (July 21, 1995).

Oct. 25, 1995
FLORIDA DENIES LEAF PETITION TO REVISE WQC FOR DICHLOROMETHANE (METHYLENE CHLORIDE)

4.57 µg/L (organisms+water)
225 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 0.90 L/kg tissue
CSF = 0.0075 per mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995).

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

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Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-00925

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-00926

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

ED_013582_00000081-00927

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR METHYLENE CHLORIDE (DICHLOROMETHANE)
4.6 µg/L (organisms+water)
590 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 0.9 L/kg tissue
CSF = 0.0075 per mg/kg-day

Sources: Ambient Water Quality Criteria for Halomethanes, EPA 440-5-80-051 (Dec. 1980); Integrated Risk Information System - Methylene Chloride (Sep. 1 1990); National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

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Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

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May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

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Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC fo Methylene Chloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Methylene Chloride or other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

ED_013582_00000081-00931

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Methylene Chloride or any other toxic pollutant proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

ED_013582_00000081-00932

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

ED_013582_00000081-00933

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-00934

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for Methylene Chloride or other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00935

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

ED_013582_00000081-00936

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Methylene Chloride or other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009).

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Methylene Chloride of any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-00940

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

ED_013582_00000081-00941

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

ED_013582_00000081-00942

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.320, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.420, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00944

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

June 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR METHYLENE CHLORIDE (DICHLOROMETHANE)
20 µg/L (organisms+water)
1,000 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 1.4, 1.5, and 1.6 L/kg tissue
CSF = 0.002 per mg/kg-day

Sources: Update of Human Health Ambient Water Quality Criteria: Methylene Chloride, EPA 820-R-15-057 (June 2015); 80 Fed. Reg. 36986 (Jun 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (Jun 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

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Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

ED_013582_00000081-00949

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-00950

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00951

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016).

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017)

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Methylene Chloride or other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Methylene Chloride or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

ED_013582_00000081-00954

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-00955

Dec. 7, 1990
FLORIDA ADOPTS WQC FOR PENTACHLOROPHENOL
0.28 µg/L (organisms+water)
8.2 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 11 L/kg
CSF = 0.12 per mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR PENTACHLOROPHENOL
0.28 µg/L (organisms+water)
8.2 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 11 L/kg tissue
CSF = 0.12 per mg/kg-day

Sources: Ambient Water Quality Criteria for Pentachlorophenol, EPA 440/5-86-009 (1986); Integrated Risk Information System - Pentachlorophenol (Mar. 1, 1991); 56 Fed. Reg. 58442 (Nov. 19, 1991).

ED_013582_00000081-00956

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR PENTACHLOROPHENOL
0.28 µg/L (organisms+water)
8.2 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 11 L/kg tissue
CSF = 0.12 per mg/kg-d

Sources: Ambient Water Quality Criteria for Pentachlorophenol, EPA 440/5-86-009 (1986); Integrated Risk Information System - Pentachlorophenol (Mar. 1, 1991); 57 Fed. Reg. 60911 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

July 21, 1995
LEAF PETITIONS FLORIDA TO REVISE WQC FOR PENTACHLOROPHENOL
0.23 µg/L (organisms+water)
1.15 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 11 L/kg tissue
CSF = 0.12 per mg/kg-day

Sources: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (July 21, 1995).

Oct. 25, 1995
FLORIDA DENIES LEAF PETITION TO REVISE WQC FOR PENTACHLOROPHENOL

0.23 µg/L (organisms+water)
1.15 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 11 L/kg tissue
CSF = 0.12 per mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995).

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

ED_013582_00000081-00958

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-00959

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-00960

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

ED_013582_00000081-00961

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR PENTACHLOROPHENOL
0.27 µg/L (organisms+water)
3.0 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 11 L/kg tissue
CSF = 0.12 per mg/kg-day

Sources: Ambient Water Quality Criteria for Pentachlorophenol, EPA 440/5-86-009 (1986); Integrated Risk Information System - Pentachlorophenol (Mar. 1, 1991); National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

ED_013582_00000081-00962

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

ED_013582_00000081-00963

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code r. 62-4.244

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

ED_013582_00000081-00965

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

ED_013582_00000081-00966

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

ED_013582_00000081-00967

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-00968

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-00969

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009).

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-00974

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

ED_013582_00000081-00975

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

ED_013582_00000081-00976

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.320, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.420, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-00978

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code r. 62-302.800.

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

ED_013582_00000081-00980

June 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR PENTACHLOROPHENOL
0.03 µg/L (organisms+water)
0.04 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 44, 290, and 520 L/kg tissue
CSF = 0.04 per mg/kg-day

Sources: Update of Human Health Ambient Water Quality Criteria: Pentachlorophenol, EPA 820-R-15-060 (June 2015); 80 Fed. Reg. 36986 (Jun 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (Jun 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

ED_013582_00000081-00982

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

ED_013582_00000081-00983

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-00984

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N. D. Fla. Complaint filed Dec. 28, 2016)

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Pentachlorophenol or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutantsts listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutantsts as necessary to support designated uses where such pollutantsts are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-00989

Dec. 7, 1990
FLORIDA ADOPTS WQC FOR POLYCHLORINATED BIPHENYLS
0.000044 µg/L (organisms+water)
0.000045 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 31,210 L/kg
CSF = 7.7 per mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR POLYCHLORINATED BIPHENYLS
0.000044 µg/L (organisms+water)
0.000045 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 31,200 L/kg tissue
CSF = 7.7 per mg/kg-day

Sources: Ambient Water Quality Criteria for Polychlorinated Biphenyls, EPA 440-5-80-068 (Oct. 1980); Integrated Risk Information System - Polychlorinated Biphenyls (May 1, 1989); 56 Fed. Reg. 58442 (Nov. 19, 1991).

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR POLYCHLORINATED BIPHENYLS
0.000044 µg/L (organisms+water)
0.000045 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 31,210 L/kg tissue
CSF = 7.7 per mg/kg-day

Sources: Ambient Water Quality Criteria for Polychlorinated Biphenyls, EPA 440-5-80-068 (Oct. 1980); Integrated Risk Information System - Polychlorinated Biphenyls (May 1, 1989); 57 Fed. Reg. 60911 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

Jul. 21, 1995
LEAF PETITIONS FLORIDA
TO REVISE WQC FOR
POLYCHLORINATED BIPHENYLS
0.00001 µg/L (organisms+water)
0.00001 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 31,210 L/kg tissue
CSF = 7.7 per mg/kg-day

Sources: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (Jul. 21, 1995).

Oct. 25, 1995
FLORIDA DENIES LEAF
PETITION TO REVISE WQC FOR
POLYCHLORINATED BIPHENYLS
0.00001 µg/L (organisms+water)
0.00001 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 31,210 L/kg tissue
CSF = 7.7 per mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995).

Dec. 10, 1998
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR POLYCHLORINATED BIPHENYLS
0.00017 µg/L (organisms+water)
0.00017 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 31,210 L/kg tissue
CSF = 2.0 per mg/kg-day

Sources: Ambient Water Quality Criteria for Polychlorinated Biphenyls, EPA 440-5-80-068 (Oct. 1980); Integrated Risk Information System - Polychlorinated Biphenyls (Oct. 1, 1996); 63 Fed. Reg. 68359 (Dec. 10, 1998).

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-00996

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

ED_013582_00000081-00997

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR POLYCHLORINATED BIPHENYLS
0.000064 µg/L (organisms+water)
0.000064 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 31,210 L/kg tissue
CSF = 2.0 per mg/kg-day

Sources: Ambient Water Quality Criteria for Polychlorinated Biphenyls, EPA 440-5-80-068 (Oct. 1980); Integrated Risk Information System - Polychlorinated Biphenyls (June 1, 1997); National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

ED_013582_00000081-00999

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

ED_013582_00000081-01000

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

ED_013582_00000081-01001

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

ED_013582_00000081-01002

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

ED_013582_00000081-01003

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-01004

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code rs. 62-302.800.

ED_013582_00000081-01005

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

ED_013582_00000081-01006

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

Jul. 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (Jul. 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

Jun. 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009).

ED_013582_00000081-01007

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-01010

Jul. 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Jul. 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244 ,62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.353, 62-303.360, 62-303.380, 62-303.420, 62-303.450, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-01014

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code r. 62-302.532

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code r. 62-302.800

ED_013582_00000081-01015

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

ED_013582_00000081-01017

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

ED_013582_00000081-01018

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

ED_013582_00000081-01019

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-01020

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-01021

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code r. 62-302.400

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016).

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code r. 62-302.540

ED_013582_00000081-01022

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Polychlorinated Biphenyls or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

ED_013582_00000081-01024

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-01025

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR PYRENE
960 µg/L (organisms+water)
11,000 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 30 L/kg tissue
RfD = 0.03 mg/kg-day

Sources: Ambient Water Quality Criteria for Pyrene, EPA 440-5-80-049 (Oct. 1980); Integrated Risk Information System - Pyrene (Sep. 1, 1990); 56 Fed. Reg. 58442 (Nov. 19, 1991).

Mar. 27, 1992
FLORIDA ADOPTS WQC FOR PYRENE
960 µg/L (organisms+water)
11,000 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 30 L/kg
RfD = 0.03 mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021). See 56 Fed. Reg. 58460-61 (Nov. 19, 1991) (Florida adopted numeric criteria for toxic pollutants but did not submit and certify the criteria to EPA with a request for approval).

ED_013582_00000081-01026

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR PYRENE
960 µg/L (organisms+water)
11,000 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 30 L/kg tissue
RfD = 0.03 mg/kg-day

Sources: Ambient Water Quality Criteria for Pyrene, EPA 440-5-80-049 (Oct. 1980); Integrated Risk Information System - Pyrene (Sep. 1, 1990); 57 Fed. Reg. 60911 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

July 21, 1995
LEAF PETITIONS FLORIDA TO REVISE WQC FOR PYRENE

0.62 µg/L (organisms+water)
1.52 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 30 L/kg tissue
RfD = 0.03 mg/kg-day

Sources: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (July 21, 1995).

Oct. 25, 1995
FLORIDA DENIES LEAF PETITION TO REVISE WQC FOR PYRENE

0.62 µg/L (organisms+water)
1.52 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 30 L/kg tissue
RfD = 0.03 mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995).

ED_013582_00000081-01028

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

ED_013582_00000081-01029

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-01030

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-01031

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

ED_013582_00000081-01032

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR PYRENE

830 µg/L (organisms+water)
4,000 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 30 L/kg tissue
RfD = 0.03 mg/kg-day

Sources: Ambient Water Quality Criteria for Pyrene, EPA 440-5-80-049 (Oct. 1980); Integrated Risk Information System - Pyrene (Sep. 1, 1990); National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

ED_013582_00000081-01036

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(continued . . .)

ED_013582_00000081-01038

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-01039

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code rs. 62-302.800.

ED_013582_00000081-01040

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

ED_013582_00000081-01041

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009).

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-01045

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

ED_013582_00000081-01046

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

ED_013582_00000081-01048

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244 ,62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.353, 62-303.360, 62-303.380, 62-303.420, 62-303.450, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-01049

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code r. 62-302.800

ED_013582_00000081-01050

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code r. 62-302.532

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

June 29, 2015
EPA PUBLISHES REVISED NATIONAL RECOMMENDED WQC FOR PYRENE
20 µg/L (organisms+water)
30 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 860 L/kg tissue
RfD = 0.03 mg/kg-day
RSC = 0.20

Sources: Update of Human Health Ambient Water Quality Criteria: Pyrene, EPA 820-R-15-062 (June 2015); 80 Fed. Reg. 36986 (Jun 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (Jun 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

ED_013582_00000081-01053

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

ED_013582_00000081-01054

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-01055

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-01056

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Sources: History note to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016).

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Pyrene or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-01060

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR TETRACHLOROETHYLENE
0.8 µg/L (organisms+water)
8.85 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 30.6 L/kg tissue
CSF = 0.0398 per mg/kg-day

Sources: Ambient Water Quality Criteria for Tetrachloroethylene, EPA 440-5-80-073 (Oct. 1980); 56 Fed. Reg. 58442 (Nov. 19, 1991).

Mar. 27, 1992
FLORIDA ADOPTS WQC FOR TETRACHLOROETHYLENE (TETRACHLOROETHENE)
0.8 µg/L (organisms+water)
8.85 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 30.6 L/kg
CSF = 0.0398 per mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR TETRACHLOROETHYLENE
0.8 µg/L (organisms+water)
8.85 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 30.6 L/kg tissue
CSF = 0.0398 per mg/kg-d

Sources: Ambient Water Quality Criteria for Tetrachloroethyylene, EPA 440-5-80-073 (Oct. 1980); 57 Fed. Reg. 60911 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

July 21, 1995
LEAF PETITIONS FLORIDA TO REVISE WQC FOR TETRACHLOROETHYLENE (TETRACHLOROETHENE)
0.52 µg/L (organisms+water)
1.25 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 30.6 L/kg tissue
CSF = 0.0398 per mg/kg-day

Sources: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (July 21, 1995).

Oct. 25, 1995
FLORIDA DENIES LEAF PETITION TO REVISE WQC FOR TETRACHLOROETHYLENE (TETRACHLOROETHENE)

0.52 µg/L (organisms+water)
1.25 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 30.6 L/kg tissue
CSF = 0.0398 per mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995).

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

ED_013582_00000081-01063

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-01065

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

ED_013582_00000081-01066

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR TETRACHLOROETHYLENE
0.69 µg/L (organisms+water)
3.3 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 30.6 L/kg tissue
CSF = 0.0398 per mg/kg-day

Sources: National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

ED_013582_00000081-01067

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code r. 62-302.530.

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

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Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

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Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code rs. 62-302.800.

ED_013582_00000081-01074

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009).

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-01079

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530 & 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

ED_013582_00000081-01080

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

ED_013582_00000081-01081

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

ED_013582_00000081-01082

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.320, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.420, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-01083

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

June 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR TETRACHLOROETHYLENE
10 µg/L (organisms+water)
29 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 49, 66, and 76 L/kg tissue
CSF = 0.0021 per mg/kg-day

Sources: Update of Human Health Ambient Water Quality Criteria: Tetrachlororethylene, EPA 820-R-15-009 (June 2015); 80 Fed. Reg. 36986 (Jun 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (Jun 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

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Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

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Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-01089

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-01090

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Sources: History note to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016).

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Tetrachloroethylene or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

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Dec. 7, 1990
FLORIDA ADOPTS WQC FOR THALLIUM
13 µg/L (organisms+water)
48.0 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 119 L/kg
ADI = 37.1 µg/day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR THALLIUM
1.7 µg/L (organisms+water)
6.3 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 116 L/kg tissue
RfD = 0.000068 mg/kg-day

Sources: Ambient Water Quality Criteria for Thallium, EPA 440-5-80-074 (Oct. 1980); Integrated Risk Information System - Thallium (Sep. 1, 1990); 56 Fed. Reg. 58442 (Nov. 19, 1991).

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR THALLIUM
1.7 µg/L (organisms+water)
6.3 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 116 L/kg tissue
RfD = 0.000068 mg/kg-day

Sources: Ambient Water Quality Criteria for Thallium, EPA 440-5-80-034 (Oct. 1980); 45 Fed. Reg. 79318 (Nov. 28, 1980); Integrated Risk Information System (Sep. 1, 1990); 57 Fed. Reg. 60911 (Dec. 22, 1992).

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FLORIDA ADOPTS WQC FOR THALLIUM
1.7 µg/L (organisms+water)
6.3 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 116 L/kg
RfD = 0.000068 mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

July 21, 1995
LEAF PETITIONS FLORIDA TO REVISE WQC FOR THALLIUM
0.64 µg/L (organisms+water)
0.87 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 116 L/kg tissue
RfD = 0.000068 mg/kg-day

Sources: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (Jul. 21, 1995).

Oct. 25, 1995
FLORIDA DENIES LEAF PETITION TO REVISE WQC FOR THALLIUM
0.62 µg/L (organisms+water)
1.52 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 116 L/kg tissue
RfD = 0.000068 mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995).

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

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June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

ED_013582_00000081-01101

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

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Dec. 31, 2003
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR THALLIUM
0.24 µg/L (organisms+water)
0.47 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 116 L/kg tissue
RfD = 0.000068 mg/kg-day
RSC = 0.20

Sources: Ambient Water Quality Criteria for Thallium, EPA 440-5-80-034 (Oct. 1980); Integrated Risk Information System - Thallium (Sep. 1, 1990); 68 Fed. Reg. 75510 (Dec. 31, 2003).

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

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Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

(*continued . . .*)

ED_013582_00000081-01107

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.700 & 62-303.710.

ED_013582_00000081-01108

Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

ED_013582_00000081-01109

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

ED_013582_00000081-01110

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (Jul. 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (Jun. 18, 2009).

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

ED_013582_00000081-01112

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

(*continued . . .*)

ED_013582_00000081-01114

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 , 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.530, 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

ED_013582_00000081-01116

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

ED_013582_00000081-01117

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244 ,62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.353, 62-303.360, 62-303.380, 62-303.420, 62-303.450, 62-303.470, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-01118

Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

ED_013582_00000081-01120

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

ED_013582_00000081-01122

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

(continued . . .)

ED_013582_00000081-01123

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-01124

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-01125

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016).

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Thallium or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

Feb. 4, 1987
WATER QUALITY ACT OF 1987 ENACTED

"Whenever a State reviews water quality standards pursuant to paragraph (1) of this subsection, or revises or adopts new standards pursuant to this paragraph, such State shall adopt criteria for all toxic pollutants listed pursuant to section 307(a)(1) of this Act for which criteria have been published under section 304(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State, as necessary to support such designated uses."

Sources: Pub. L. No. 100-4, § 308(d), 101 Stat. 39 (codified at 33 U.S.C. § 1313(c)(2)(B)).

Dec. 12, 1988
EPA ISSUES "GUIDANCE FOR STATE IMPLEMENTATION OF WATER QUALITY STANDARDS FOR CWA SECTION 303(c)(2)(B)"

States may "[a]dopt specific numeric criteria in State water quality standards for section 307(a) toxic pollutants as necessary to support designated uses where such pollutants are discharged or are present in the affected waters and could reasonably be expected to interfere with designated uses."

Source: Mem. from Rebecca W. Hanmer, Acting Assistant Administrator for Water, to Water Management Division Directors, EPA Regions I-X, and Directors, State Water Pollution Control Agencies, Transmittal of Final "Guidance for State Implementation of Water Quality Standards for CWA Section 303(c)(2)(B)" (Dec. 12, 1988).

ED_013582_00000081-01129

Nov. 19, 1991
EPA PROPOSES NATIONAL RECOMMENDED WQC FOR TRICHLOROETHYLENE (TRICHLOROETHENE)
2.7 µg/L (organisms+water)
81 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 10.6 L/kg tissue
CSF = 0.0126 per mg/kg-day

Sources: Ambient Water Quality Criteria for Trichloroethylene, EPA 440-5-80-077 (Oct. 1980); 56 Fed. Reg. 58443 (Nov. 19, 1991).

Mar. 27, 1992
FLORIDA ADOPTS WQC FOR TRICHLOROETHENE (TRICHLOROETHYLENE)
2.7 µg/L (organisms+water)
80.7 µg/L (organisms only)

Criteria Factors:
FCR= 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 10.6 L/kg
CSF = 0.0126 per mg/kg-day

Sources: Fla. Admin. Code r. 17-302.530 (Feb. 13, 1992); electronic mail from Kaitlyn Sutton, Environmental Administrator, Water Quality Standards Development Section, Division of Environmental Assessment and Restoration, FDEP, to David A. Ludder, Law Office of David A. Ludder, PLLC (Aug. 30, 2021).

Dec. 22, 1992
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR TRICHLOROETHYLENE (TRICHLOROETHENE)
2.7 µg/L (organisms+water)
81 µg/L (organisms only)

Criteria Factors:
FCR = 6.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 10.6 L/kg tissue
CSF = 0.0126 per mg/kg-day

Sources: Ambient Water Quality Criteria for Trichloroethylene, EPA 440-5-80-077 (Oct. 1980); 57 Fed. Reg. 60914 (Dec. 22, 1992).

Aug. 31, 1994
SURVEY BY RESEARCH CENTER FINDS AVERAGE FLORIDA FISH AND SHELLFISH CONSUMPTION IS 46 G/DAY

Source: Univ. of Fla. Agric. & Mkt. Research Ctr., Per Capita Fish and Shellfish Consumption in Florida, Industry Report 94-2 (Aug. 31, 1994).

July 21, 1995
LEAF PETITIONS FLORIDA TO REVISE WQC FOR TRICHLOROETHENE (TRICHLOROETHYLENE)
2.2 µg/L (organisms+water)
11.4 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 10.6 L/kg tissue
CSF = 0.0126 per mg/kg-day

Sources: Petition for Amendment of Fla. Admin. Code r. 62-302.530, Criteria for Surface Water Quality Classifications (July 21, 1995).

Oct. 25, 1995
FLORIDA DENIES LEAF PETITION TO REVISE WQC FOR TRICHLOROETHENE (TRICHLOROETHYLENE)
5.28 µg/L (organisms+water)
66.52 µg/L (organisms only)

Criteria Factors:
FCR = 46 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 10.6 L/kg tissue
CSF = 0.0126 per mg/kg-day

Source: Order, In re Petition to Amend Rule 62-302.530 of the Fla. Admin. Code (Oct. 25, 1995).

Mar. 26, 2000
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Oct. 2000
EPA RECOMMENDS INCREASED NATIONAL DEFAULT FISH CONSUMPTION RATE (17.5 G/DAY) AND SHIFT FROM BIOCONCENTRATION FACTORS TO BIOACCUMULATION FACTORS

Sources: Methodology for Deriving Ambient Water Quality Criteria for the Protection of Human Health, EPA-822-B-00-004 (Oct. 2000); 65 Fed. Reg. 66444 (Nov. 3, 2000).

Apr. 4, 2001
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

ED_013582_00000081-01133

May 15, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 302.200, 62-302.300, 62-302.500, 62-302.530 & 62-302.800.

ED_013582_00000081-01134

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62.303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

(*continued . . .*)

ED_013582_00000081-01135

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.400 Drinking Water Use Support and Protection of Human Health

62-303.410 Determination of Aquatic Life Use Support

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

(*continued . . .*)

ED_013582_00000081-01136

June 10, 2002
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.720 Delisting Procedure

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.400, 62-303.410, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

Dec. 27, 2002
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR TRICHLOROETHYLENE (TRICHLOROETHENE)

2.5 µg/L (organisms+water)
30 µg/L (organisms only)

Criteria Factors:
FCR = 17.5 g/day
DI = 2.0 L/day
BW = 70 kg
BCF = 10.6 L/kg tissue
CSF = 0.0126 per mg/kg-day

Sources: Ambient Water Quality Criteria for Trichloroethylene, EPA 440-5-80-077 (Oct. 1980); National Recommended Water Quality Criteria: 2002, EPA-822-R-02-04 (Nov. 2002); 67 Fed. Reg. 79091 (Dec. 27, 2002); National Recommended Water Quality Criteria: 2002, Human Health Criteria Calculation Matrix, EPA-822-R-02-012 (Nov. 2002).

Dec. 11, 2003
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.700.

July 15, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

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July 19, 2004
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.530 Table: Surface Water Quality Criteria

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.530.

May 25, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

Sep. 1, 2005
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Source: Notice of Proposed Rule Development and Public Workshops, Department of Environmental Protection (Aug. 12, 2005).

Dec. 13, 2005
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.244 Mixing Zones: Surface Waters

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-4.244.

Jan. 9, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code rs. 62-302.700 & 62-302.800.

Dec. 7, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.300, 62-302.400, 62-303.500, 62-302.530, 62.302.700 & 62-302.800.

Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.100 Scope and Intent

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

(*continued . . .*)

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Dec. 11, 2006
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutant proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.100, 62-303.200, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.352, 62-303.353, 62.303.360 & 62-303.370, 62-303.380, 62-303.400, 62-303.420, 62-303.430,

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Jan. 2, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.351 Nutrients in Freshwater Streams

62-303.410 Determination of Aquatic Life Use Support

62-303.600 Evaluation of Pollution Control Mechanisms

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.351, 62-303.410 & 62-303.600.

Aug. 5, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.800.

Sep. 4, 2007
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.720 Delisting Procedure

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.360, 62-303.370, 62-303.380, 62-303.460, 62-303.470, 62-303.480 & 62-303.720.

Apr. 2, 2008
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.200.

May 2008
FLORIDA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 63.5 G/DAY

Source: Univ. of Fla. Ctr. for Envt'l & Human Toxicology, Final Baseline Risk Analysis for Chapter 62-302, F.A.C. (May 2008), at Table 10.

July 23, 2008
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Sources: 34 Fla. Admin. Wkly. 3497 (July 3, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 16, 2008); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 17, 2008).

June 18, 2009
FLORIDA CLEAN WATER NETWORK PETITIONS EPA TO PROPOSE AND PROMULGATE WQC FOR FLORIDA

Source: Petition for Proposal and Promulgation of Water Quality Criteria for the Protection of Human Health in the State of Florida (June 18, 2009).

Aug. 5, 2010
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

62-302.530 Table: Surface Water Quality Criteria

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.400, 62-302.530 & 62-302.800.

Sep. 2011
EPA: 90TH PERCENTILE NATIONAL ADULT CONSUMPTION RATE OF COMMUNITY WATER IS 2.4 L/DAY

Source: Exposure Factors Handbook: 2011 Edition, Chap. 3, EPA-600-R-09-052F (Sep. 2011), at Table 3-23 (based on National Health and Nutrition Examination Survey (NHANES) data from 2003 TO 2006).

Sep. 2011
EPA: NATIONAL MEAN ADULT HUMAN BODY WEIGHT IS 80 KG

Source: Exposure Factors Handbook: 2011 Edition, Chap. 8, EPA-600-R-09-052F (Sep. 2011), at Table 8-1 (based on National Health and Nutrition Examination Survey (NHANES) data from 1999 to 2006).

May 15, 2012
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Sources: 38 Fla. Admin. Wkly. 1685 (Apr. 27, 2012); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Nov. 30, 2012).

July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.310 Evaluation of Aquatic Life Use Support

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

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July 2, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.390 The Study List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.150, 62-303.200, 62-303.310, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.390, 62-303.420 & 62-303.430, 62-303.450, 62-303.710 & 62-303.720.

ED_013582_00000081-01150

July 3, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.200 Definitions

62-302.530 Table: Surface Water Quality Criteria

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-302.200, 62-302.53, 62-302.531, 62-302.532 & 62-302.800.

Dec. 20, 2012
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

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July 17, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.300.

Aug. 2013
EPA: 90TH PERCENTILE FLORIDA FISH CONSUMPTION RATE IS 28 G/DAY

Source: Fish Consumption in Connecticut, Florida, Minnesota, and North Dakota, EPA/600/R-13/098F (Aug. 2013), at Table E-96.

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

62-302.200 Definitions

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

62-302.500 Surface Waters: Minimum Criteria, General Criteria

62-302.530 Table: Surface Water Quality Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.300 Methodology to Develop the Planning List

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.353 Nutrients in Estuaries and Open Coastal Waters

(*continued . . .*)

Aug. 1, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.200, 62-302.400, 62-302.500, 62-302.530, 62-302.532, 62-302.533, 62-302.800, 62-303.300, 62-303.320, 62-303.353, 62-303.360, 62-303.370, 62-303.380, 62-303.420, 62-303.450, 62-303.460, 62-

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Aug. 20, 2013
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

Apr. 2014
EPA: 90TH PERCENTILE CONSUMPTION RATE OF FISH AND SHELLFISH FROM INLAND AND NEARSHORE WATERS FOR THE U.S. ADULT POPULATION IS 22 G/DAY; 90TH PERCENTILE GULF FISH CONSUMPTION RATE IS 28.6 G/DAY

Source: Estimated Fish Consumption Rates for the U.S. Population and Selected Subpopulations (NHANES 2003-2010), EPA-820-R-14-002 (April 2014), at Table 9b.

Oct. 6, 2014
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-302.800 Site Specific Alternative Criteria

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Source: History notes to Fla. Admin. Code r. 62-302.800.

June 7, 2015
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.532.

June 29, 2015
EPA PUBLISHES NATIONAL RECOMMENDED WQC FOR TRICHLOROETHYLENE (TRICHLOROETHENE)
0.6 µg/L (organisms+water)
7 µg/L (organisms only)

Criteria Factors:
FCR = 22 g/day
DI = 2.4 L/day
BW = 80 kg
BAF = 8.7, 12, and 13 L/kg tissue
CSF = 0.05 mg/kg-day

Sources: pdate of Human Health Ambient Water Quality Criteria: Trichloroethylene, EPA 820-R-15-066 (June 2015); 80 Fed. Reg. 36986 (Jun 29, 2015); Human Health Ambient Water Quality Criteria: 2015 Update, EPA 820-F-15-001 (Jun 2015).

ED_013582_00000081-01156

June 10, 2015
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

Public comments urge adoption of revised WQC; No revision of WQC for Trichlorothene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Sources: 41 Fla. Admin. Reg. 2317 (May 19, 2015); Letter to Eric Shaw, Bureau of Standards and Special Projects, Florida Dep't of Envtl. Protection, from David A. Ludder, Law Office of David A. Ludder, PLLC (Sep. 30, 2015).

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-4.242 Antidegradation Permitting Requirements; Outstanding Florida Waters; Outstanding National Resource Waters

62-4.244 Mixing Zones: Surface Waters

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

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

62-302.530 Table: Surface Water Quality Criteria

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED
WATER QUALITY STANDARDS

62-302.531 Numeric Interpretations of Narrative Nutrient Criteria

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

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

62-302.800 Site Specific Alternative Criteria

62-303.100 Scope and Intent

62-303.150 Relationship Among Planning, Study and Verified Lists

62-303.200 Definitions

62-303.300 Methodology to Develop the Planning List

62-303.310 Evaluation of Aquatic Life Use Support

62-303.320 Exceedances of Aquatic Life-Based Water Quality Criteria

62-303.330 Biological Assessment

62-303.350 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.351 Nutrients in Freshwater Streams

(*continued . . .*)

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Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.352 Nutrients in Freshwater Lakes

62-303.353 Nutrients in Estuaries and Open Coastal Waters

62-303.354 Nitrate-nitrite in Freshwater Spring Vents

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.400 Methodology to Develop the Verified List

62-303.420 Aquatic Life-Based Water Quality Criteria Assessment

62-303.430 Biological Impairment

62-303.450 Assessments of Numeric Interpretation of Narrative Nutrient Criteria

62-303.460 Primary Contact and Recreation Use Support

62-303.470 Fish and Shellfish Consumption Use Support

(*continued . . .*)

Feb. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.600 Evaluation of Pollution Control Mechanisms

62-303.700 Listing Cycle

62-303.710 Format of Verified List and Verified List Approval

62-303.720 Delisting Procedure

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-4.242, 62-4.244, 62-302.300, 62-302.400, 62-302.530, 62-302.531, 62-302.532, 62-302.533, 62-302.800, 62-303.100, 62-303.150, 62-303.200, 62-303.300, 62-303.310, 62-303.320, 62-303.330, 62-303.350, 62-303.351, 62-303.352, 62-303.353, 62-303.354, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.400, 62-303.420, 62-303.430, 62-303.450, 62-303.460, 62-303.470, 62-303.480, 62-303.500, 62-303.600, 62-303.700, 62-303.710 & 62-303.720.

ED_013582_00000081-01160

Oct. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

62-303.310 Evaluation of Aquatic Life Use Support

62-303.360 Primary Contact and Recreation Use Support

62-303.370 Fish and Shellfish Consumption Use Support

62-303.380 Drinking Water Use Support and Protection of Human Health

62-303.390 The Study List

62-303.480 Drinking Water Use Support and Protection of Human Health

62-303.500 Prioritization for TMDL Development

62-303.720 Delisting Procedure

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Sources: History notes to Fla. Admin. Code rs. 62-303.310, 62-303.360, 62-303.370, 62-303.380, 62-303.390, 62-303.480, 62-303.500 & 62-303.720.

ED_013582_00000081-01161

Nov. 17, 2016
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Sources: History note to Fla. Admin. Code r. 62-302.400.

Dec. 28, 2016
FLORIDA CLEAN WATER NETWORK SUES EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Complaint filed Dec. 28, 2016).

Mar. 28, 2017
FLORIDA ADOPTS REVISED WATER QUALITY STANDARDS

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

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Source: History note to Fla. Admin. Code r. 62-302.540.

May 23, 2017
EPA DENIES FLORIDA CLEAN WATER NETWORK PETITION TO PROPOSE AND PROMULGATE WQC FOR FLORIDA FILED JUNE 18, 2009 BASED ON EXPECTATION THAT FLORIDA WOULD SUBMIT REVISED WQC "IN THE NEAR FUTURE"

Source: Letter from Michael H. Shapiro, Acting Assistant Administrator for EPA (May 23, 2017).

May 30, 2017
FLORIDA CLEAN WATER NETWORK SUIT AGAINST EPA ADMINISTRATOR FOR UNREASONABLE DELAY IN RESPONDING TO JUNE 18, 2009 PETITION TO PROPOSE AND PROMULGATE WQC FOR TOXICS IN FLORIDA DISMISSED AS MOOT

Source: Florida Clean Water Network v. Gina McCarthy, Adm'r of EPA, Case No. 3:16-cv-00709-MCR-CJK (N.D. Fla. Order of Dismissal May 30, 2017).

May 14, 2019
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Source: 45 Fla. Admin. Reg. 1308 (Mar. 29, 2019).

May 5, 2021
FLORIDA CONDUCTS TRIENNIAL REVIEW OF WATER QUALITY STANDARDS HEARING

No new or revised WQC for Trichloroethene (Trichloroethylene) or any other toxic pollutants proposed or adopted

Source: 47 Fla. Admin. Reg. 1577 (Mar. 31, 2021).

Jan. 19, 2022
EDA AND FLORIDA WATERKEEPERS PETITION EPA TO MAKE DETERMINATION THAT NEW OR REVISED WATER QUALITY CRITERIA ARE NECESSARY TO ENSURE THE DESIGNATED USES OF FLORIDA WATERS ARE ADEQUATELY PROTECTED

Source: Letter (and tables) from David A. Ludder, Attorney for Environmental Defense Alliance, and Jen Lomberk, Chair, Florida Waterkeepers (Jan. 19, 2022).

APPENDIX

ED_013582_00000081-01165

January 19, 2022

Delivered via U.S. Mail & Electronic Mail

Honorable Michael S. Regan, Administrator
U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, N.W.
Mail code: 1101A
Washington, D.C. 20460
Regan.Michael@epa.gov

Honorable Daniel Blackman, Regional Administrator
U.S. Environmental Protection Agency – Region 4
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, Georgia 30303-8960
Blackman.Daniel@epa.gov

Re: Florida Water Quality Criteria for Toxic Pollutants to Protect Human Health

Dear Administrator Regan and Regional Administrator Blackman:

This letter, submitted by the Environmental Defense Alliance and Waterkeepers Florida, requests that the U.S. Environmental Protection Agency take immediate action to ensure the adoption of new and revised water quality criteria for toxic pollutants to protect human health in Florida.

As you know, States are required to conduct a review of water quality standards, including water quality criteria, at least once every three years (the "triennial review"). Clean Water Act § 303(c)(1), 33 U.S.C. § 1313(c)(1); 40 C.F.R. § 131.20. Whenever a State conducts such a triennial review or revises or adopts new standards, it is required to adopt criteria for all toxic pollutants listed pursuant to Clean Water Act § 307(a)(1), 33 U.S.C. § 1317(a)(1), for which criteria have been published under Clean Water Act § 304(a), 33 U.S.C. § 1314(a), the discharge or presence of which in the affected waters could reasonably be expected to interfere with those designated uses adopted by the State,

as necessary to support such designated uses. States should establish numerical criteria based on EPA recommended criteria published under Clean Water Act § 304(a), 33 U.S.C. § 1314(a), EPA recommended criteria modified to reflect site-specific conditions, or other scientifically defensible methods. 40 C.F.R. § 131.11(b). States are required to adopt water quality criteria, based on sound scientific rationale and sufficient parameters or constituents, that protect the designated uses of water bodies. Clean Water Act § 303(c)(2)(A), 33 U.S.C. § 1313(c)(2)(A); 40 C.F.R. § 131.11(a).

The Clean Water Act directs the Administrator to promptly prepare and publish proposed regulations setting forth revised or new water quality standards for the navigable waters involved in any case where the Administrator determines that a revised or new standard is necessary to meet the requirements of the Clean Water Act. Clean Water Act § 303(c)(4)(B), 33 U.S.C. § 1313(c)(4)(B). A State's failure to complete the timely review and adoption of appropriate standards required by Clean Water Act § 303(c)(2)(B), 33 U.S.C. § 1313(c)(2)(B), constitutes a failure "to meet the requirements of the Act" and is a sufficient basis for the Administrator to make a determination under Clean Water Act § 303(c)(4)(B), 33 U.S.C. § 1313(c)(4)(B), that new or revised water quality criteria are necessary to ensure designated uses are adequately protected. *Water Quality Standards; Establishment of Numeric Criteria for Priority Toxic Pollutants; States' Compliance – Final Rule*, 57 Fed. Reg. 60848, 60857 (Dec. 22, 1992); *Water Quality Standards; Establishment of Numeric Criteria for Priority Toxic Pollutants for the State of California – Final rule*, 65 Fed. Reg. 31682, 31687 (May 18, 2000).

Despite numerous triennial reviews, the adoption of numerous new or revised water quality standards, and the consideration of a rulemaking petition, the Florida Department of Environmental Protection has failed to adopt new or revised water quality criteria necessary to protect drinking water consumption uses and fish and shellfish consumption uses of navigable waters in Florida. Specifically, the Department has failed to adopt new water quality criteria for 67 toxic pollutants (see **TABLE 1** enclosed) without demonstrating that these toxic pollutants are not present in the navigable waters of Florida or could not reasonably be expected to interfere with the designated uses of such waters; the Department has adopted water quality criteria for 19 toxic pollutants that are less stringent than EPA's recommended national water quality criteria (see **TABLE 2** enclosed) without demonstrating that the criteria are based on site-specific conditions or other scientifically defensible methods; and the Department has failed to revise existing water quality criteria for 32 toxic pollutants that are no longer based on sound scientific rationale (see **TABLE 3** through **TABLE 9** enclosed).

To ensure adequate protection of human health from the consumption of water, fish and shellfish in Florida, your immediate action is needed. Accordingly, we request

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that you make a determination that new and revised water quality criteria are necessary to meet the requirements of the Clean Water Act in Florida.

We request the opportunity to meet with you and your staff concerning this matter.

Sincerely,

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