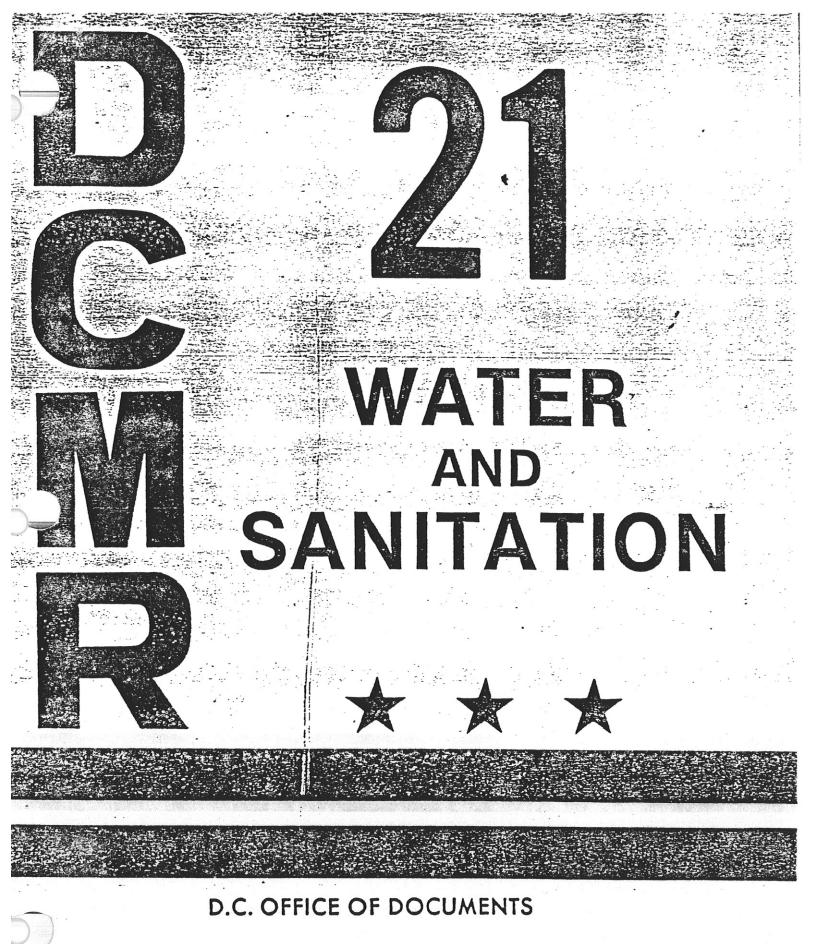
This is a copy of an archived set of water quality standards regulations. This is not current. For current Water Quality Standard regulations, please visit <u>District of Columbia Municipal Regulations</u>.



MARCH 1987

MARION BARRY, JR. MAYOR

AVIS T. HAWKINS DIRECTOR OF DOCUMENTS

CHAPTER 11 WATER QUALITY STANDARDS

1100 PURPOSE AND SCOPE 1100.1 This chapter establishes the revised Water Quality Standards for the surface and ground waters of the District of Columbia under §5 of the D.C. Law 5-188, the "Water Pollution Control Act of , 1984", which authorizes the revision of the classification of the beneficial uses of the waters and the criteria needed for the particular class of beneficial uses. The second 1100.2 The purpose of this chapter is to regulate the restoration of the cleanliness and purity of the District of Columbia waters. 1100.3 It is hereby declared that the public policy of the District is to conserve the waters of the District and to protect, maintain and improve the quality of the waters of the District as a resource of multiple beneficial uses. Whereas the waters of the District are a resource of the public 1100.4 and used beneficially for public water supply; propagation of aquatic life, waterfowl and other wildlife; recreation and aesthetic enjoyment; industrial; navigational and other legitimate uses; it is hereby declared that pollution of the waters of the District which impairs the use of the waters by and for the public is contrary to the best interests of the public. 1100.5 It is further declared that is is public policy to abate, eliminate and ameliorate pollution of the waters of the District and the downstream neighbors of the District in cooperation with the general public, interested parties, local, District, state and Federal agencies; taking into due consideration economic, social, institutional and technical problems; placing first in priority pollution which represents a hazard to the public health. 1100.6 Waters of the District which are of such characteristics as to be a District or national resource shall be maintained or restored to the highest quality achievable above the standards by designation as an antidegradation segment. New point source discharges of wastewater, treated or otherwise, 1100.7 shall be prohibited in antidegradation segments after the effective date of designation.

ALL STATE	1100	PURPOSE AND SCOPE (Continued)
)	1100.8	Increases in loadings or new pollutants from existing point source discharges shall be prohibited in antidegradation segments.
	1100.9	Non-point source discharges, stormwater discharges and combined sewer overflows to antidegradation segments shall be controlled in conjunction with §1100.5 to the extent feasible through implementation of best management practices and regulatory programs.
	1100.10 1100.11	Construction projects such as roads, bridges and bank stabilization in the waters of a designated segment which may lead to pollution shall be considered on a case by case basis to insure that there are no long term adverse water quality effects and no impairment of the designated beneficial uses of the segment. Short term water quality effects on antidegradation segments from construction projects shall be subject to intergovernmental coordination and public participation requirements.
	1100.12	The following waters of the District are hereby designated as antidegradation segments:
D -		(a) Rock Creek and tributaries; and(b) Battery Kemble Creek and tributaries.
	1100.13	The second
	1100.14	Waters of the District which are not of such quality as to meet or exceed the water quality standards of the beneficial uses

assigned to them in the Restoration category of §1101.3 shall be restored to such a quality as to be able to support and sustain those uses.

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BENEFICIAL USE CLASSES 1101

The waters of the District shall be grouped into classes so as 1101.1 to protect the waters from pollution for the beneficial uses designated within each class as set forth in this section.

BENEFICIAL USE CLASSES (Continued)

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1101.3

- 1101.2 The following classes of waters shall be protected for the purposes indicated below:
 - (a) Class A waters shall be protected for primary contact recreation;
 - (b) Class B waters shall be protected for secondary contact recreation and aesthetic enjoyment;

(c) Class C waters shall be protected for aquatic life, waterfowl, shore birds and water oriented wildlife;

(d) Class D waters shall be protected for use as a raw water source for public water supply;

- (e) Class E waters shall be protected for use as a raw water source for industrial water supply;
- (f) Class F waters shall be protected for navigational use; and

(g) Class G groundwaters are protected for multiple uses.

The waters of the District shall be classified according to beneficial uses as follows:

	USE CLASSE	S
Water Of The District	Maintenance (Present)	Restoration (Future)
Potomac River and tributaries (except as listed below) from Montgomery County line to Key Bridge	B,C,D,E,F,	A,B,C,D,E,F
Battery Kemble Creek	B,C	A,B,C
C & O Canal	B,C	A,B,C
Potomac River and tributaries (except as listed below) from Key Bridge to Hains Point		A,B,C,E,F
Rock Creek and tributaries	B,C	A,B,C
Tidal Basin	B,C,E	A,B,C,E

BENEFICIAL USE CLASSES (Continued)

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I101.3 (Continued)

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	-		US	E CLASSES
	later	Of The District	Maintenance (Present)	Restoration (Future)
(except	as lis int to	and tributaries ted below) from Prince George's	B,C,E,F	A,B,C,E,F
Washingt	on Shi	p Channel		A,B,C,F
Oxon Run			B,C	A,B,C
		r and tributaries ted below)	B,C,E,F	A,B,C,E,F
Hickory	Run		B,C	B,C
Watts Br	anch		B,C	B,C
1102 1102 . 1	The	DARDS waters of the Distri ibutable to point or entrations that do t	non-point source	
		Settle to form obje		s:
	(b)			
	(c)	Produce objectionab	le odor, color, t	aste or turbidity;
	(d)	Injure, or toxic to behavioral response		rse physiological or ts or animals; or
	(e)	Produce undesirable of nuisance species		result in the domina

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1102.2 Numerical standards for the protection of the quality of the water to sustain the beneficial use classes consist of specific criteria. The numerical standards that apply to the use classes which can be protected by the assignment of specific water quality criteria are given in §1102.8. For those waters of the District with multiple designated beneficial uses, the most strigent standards or criteria shall govern.

Those criteria listed in §1102.8 under the category of Toxics shall be applicable only to protection of the designated beneficial use for periods of less than ninety-six (96) hours. The determination of the criteria needed to protect the beneficial use for a longer period of time shall be made on a case by case basis and may be more stringent.

Class A waters shall be free of discharges of untreated sewage; unmarked, submerged or partially submerged, man-made structures, and litter which constitute a hazard to the health of the users.

- 1102.5 **Class D** waters shall be free from pollution in the form of pathogens, carcinogens, toxicants and other substances in concentrations that cannot be reduced to levels safe for distribution by the existing or presently proposed water treatment facilities which use these waters.
- 1102.6 Class F waters shall be free of unmarked submerged or partially submerged man-made objects which pose a hazard to users of these waters.

1102.7 **Class G** groundwaters shall be free from pollution in the form of oil, carcinogens, toxicants, and other substances in concentrations which might present a health hazard or render the groundwaters unusable.

1102.8 The numerical standards necessary to sustain the use classes shall be as follows:

1102 STANDARDS (Continued) 1102.8 (Continued)

	Criteria For Classes							
Constituent	A	В	C) ,	Ε		
Bacteriological (No./100 ml)		1.000		- -	, non	1,000		
Fecal Coliform	200	1,000			.,000			
(Maximum 30 day geometric mean for 5 samples)				·				
	-							
Physical						بر . بر ایون این این ای		
Disolved oxygen (mg/l) Minimum daily average		, 41.25.25 A.A. 			· ·			
(3 samples per 24 hours			5.0					
once per 8 hours)			4.0		•	n an an an sa sha Shi a sa s		
Instantaneous minimum	•		4.0	· .		7		
Temperature (°C) Maximum			32.2			• 115.		
Maximum change above								
ambient			2.8					
PH Constant than	6.0	6.0	6.0)	6.0	6.0		
Greater than and less than	8.5	8.5			8.5	8.5		
Turbidity increase above			. 00	•	20			
ambient (NTV)	20	20	20	4				
Total dissolved gases (maximum % saturation)			110	•		81 - 1994 -		
Hydrogen sulfide								
(maximum (ug/1)			2.0					
Oil & grease (mg/l)			10.0					
Chemical (Maximum mg/l)					0.00	0000(7)		
Arsenic, total recoverable			0.	09	1.0	0002(I)		
Barium, total recoverable		121	(1	I)	0.01			
Cadmium, total recoverable Chlorine, total residual	•		ò.	01				
Chromium, hexavalent				01	0.05			
Copper, total recoverable			•	II) 003	0.2			
Cyanide free			1.					
Iron, total Lead, total recoverable	5		(1	(V)		01		
Mercury, total recoverable				000012 02		101		
NH3, un-ionized (as N)				.1				
Phenol Selenium, total recoverable				.04	0.01 5.0			

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STANDARDS (Continued)

1102.8 (Continued)

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Toxics (Maximum-ug/l)AcenaphtheneAcrylonitrileAntimonyAldrinAcroleinBenzeneBenzidineBerylliumCarbon tetrachlorideChlorinated benzenes (except di)Chlorinated tehanesChlorinated ethanesChlorinated naphthaleneChloroalkyl ethersChloroformDichlorobenzenesDichlorobenzenesDichlorobenzidineDichlorobenzidineDiphenylhydrazineEndosulfanEndrinEthylbenzeneFlourantheneHaloethers <th></th> <th>L</th> <th>÷.,</th>		L	÷.,
Acenaphthene Acrylonitrile Antimony Aldrin Acrolein Benzene Benzidine Beryllium Carbon tetrachloride Chlorinated benzenes (except di) Chlorinated benzenes (except di) Chlorinated thanes Chlorinated naphthalene Chlorinated phenols (except penta) Chloroalkyl ethers Dichlorobenzenes Dichlorobenzenes Dichlorobenzidine Dichlorobenzidine Dichlorobenzidine Dichlorobenzidine Dichlorobenzidine Dichlorobenzidine Dichlorobenzidine Dichlorobenzidine Dichlorobenzenes Dichlorobenzenes Dichlorobenzene Flouranthene Haloethers Halomethanes Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene			-
Acenaphthene Acrylonitrile Antimony Aldrin Acrolein Benzene Benzidine Beryllium Carbon tetrachloride Chlorinated benzenes (except di) Chlorinated benzenes (except di) Chlorinated thanes Chlorinated naphthalene Chlorinated phenols (except penta) Chloroalkyl ethers Dichlorobenzenes Dichlorobenzenes Dichlorobenzidine Dichlorobenzidine Dichlorobenzidine Dichlorobenzidine Dichlorobenzidine Dichlorobenzidine Dichlorobenzidine Dichlorobenzidine Dichlorobenzenes Dichlorobenzenes Dichlorobenzene Flouranthene Haloethers Halomethanes Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene			
Acrylonitrile Antimony Aldrin Acrolein Benzene Benzidine Beryllium Carbon tetrachloride Chlorinated benzenes (except di) Chlorinated thanes Chlorinated naphthalene Chlorinated naphthalene Chlorinated phenols (except penta) Chloroalkyl ethers Chloroform DDT & isomers Dichlorobenzenes Dichlorobenzidine Dichlorobenzidine Dichloroethylenes Dichloroethylenes Dichloroethylenes Dichloroethylenes Dichloroethylenes Dichloroethylenes Haloethers Haloethers Haloethers Haloethers Halomethanes Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	FO 0	20.0	
Acrylonitrile Antimony Aldrin Acrolein Benzene Benzidine Beryllium Carbon tetrachloride Chlorinated benzenes (except di) Chlorinated thanes Chlorinated naphthalene Chlorinated naphthalene Chlorinated phenols (except penta) Chloroalkyl ethers Chloroolkyl ethers Dichlorobenzenes Dichlorobenzenes Dichlorobenzidine Dichlorobenzidine Dichloroethylenes Dichloroethylenes Dichloroethylenes Dichloroethylenes Dichloroethylenes Dichloroethylenes Diphenylhydrazine Endosulfan Endrin Ethylbenzene Flouranthene Haloethers Halomethanes Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	50.0		
Antimony Aldrin Acrolein Benzene Beryllium Carbon tetrachloride Chlorinated benzenes (except di) Chlorinated ethanes Chlorinated naphthalene Chlorinated phenols (except penta) Chloroalkyl ethers Chloroform DDT & isomers Dichlorobenzenes Dichlorobenzenes Dichlorobenzidine Diphenylhydrazine Endosulfan Endrin Ethylbenzene Flouranthene Haloethers Halomethanes Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	700.0	0.06(1)	
Aldrin Acrolein Benzene Benzidine Beryllium Carbon tetrachloride Chlorinated benzenes (except di) Chlorinated benzenes (except di) Chlorinated naphthalene Chlorinated phenols (except penta) Chloroalkyl ethers Chloroform DDT & isomers Dichlorobenzenes Dichlorobenzidine Dichlorobenzidine Dichlorobenzidine Dichlorobenzidine Dichlorobenzidine Dichlorobenzidine Dichlorobenzidine Dichlorobenzidine Dichlorobenzidine Dichlorobenzidine Dichlorobenzidine Dichlorobenzidine Dichlorobenzidine Dichlorobenzidine Heyachlor Heyachlor Hexachlorobutadiene Hexachlorobutadiene Isophorone Naphthalene	60.0	100.0	-
Acrolein Benzene Benzidine Beryllium Carbon tetrachloride Chlorinated benzenes (except di) Chlorinated thanes Chlorinated naphthalene Chlorinated phenols (except penta) Chloroalkyl ethers Chloroform DDT & isomers Dichlorobenzenes Dichlorobenzidine Dichlorobenzidine Dichloroethylenes Dichloroethylenes Dichloroethylenes Dichlorobenzine Endosulfan Endrin Ethylbenzene Flouranthene Haloethers Halomethanes Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	0.4	0.00007(I)	
Benzene 1, Benzidine Beryllium Carbon tetrachloride 1, Chlordane Chlorinated benzenes (except di) Chlorinated naphthalene Chlorinated naphthalene Chlorinated phenols (except penta) 1, Chloroalkyl ethers 1, Chloroform 3, DDT & isomers 1, Dichlorobenzidine 1 Bieldrin 1 Dichlorobenzidine 1 Bieldrin 1 Hotosulfan 1 Haloethers 1 Halomethanes 1 Hexachlorocyclopentadiene 1 <	10.0	300.0	
Benzidine Beryllium Carbon tetrachloride Chlordane Chlorinated benzenes (except di) Chlorinated naphthalene Chlorinated naphthalene Chlorinated phenols (except penta) Chloroalkyl ethers Chloroform DDT & isomers Dichlorobenzenes Dichlorobenzidine Dieldrin Dinitrotoluene Diphenylhydrazine Endosulfan Endrin Ethylbenzene Flouranthene Halomethanes Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	0.000	0.8(I)	
Beryllium Carbon tetrachloride 1, Chlordane Chlorinated benzenes (except di) Chlorinated naphthalene Chlorinated phenols (except penta) Chloroalkyl ethers 1, Chloroform 3, DDT & isomers Dichlorobenzenes Dichlorobenzidine 1 Dichloroethylenes 1 Dieldrin Dinitrotoluene Diphenylhydrazine Endosulfan Endrin Ethylbenzene Flouranthene Haloethers Halomethanes 1 Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	250.0	0.0001(I)	
Carbon tetrachloride 1. Chlordane Chlorinated benzenes (except di) Chlorinated naphthalene Chlorinated phenols (except penta) Chloroalkyl ethers 1. Chloroform 3. DDT & isomers Dichlorobenzenes Dichlorobenzidine 1. Dieldrin 0. Dieldrin 0. Dieldrin 1. Diphenylhydrazine Endosulfan 1. Ethylbenzene Flouranthene Haloethers 1. Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	150.0	0.0004(I)	
Chlordane Chlorinated benzenes (except di) Chlorinated ethanes Chlorinated naphthalene Chlorinated phenols (except penta) Chloroalkyl ethers Chloroform DDT & isomers Dichlorobenzenes Dichlorobenzidine Dichlorobenzidine Dieldrin Dinitrotoluene Diphenylhydrazine Endosulfan Ethylbenzene Flouranthene Haloethers Halomethanes Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	,000.0	0.4(1)	
Chlorinated benzenes (except di) Chlorinated ethanes Chlorinated naphthalene Chlorinated phenols (except penta) Chloroalkyl ethers Chloroform DDT & isomers Dichlorobenzenes Dichlorobenzidine Dichloroethylenes Dichloroethylenes Dieldrin Dinitrotoluene Diphenylhydrazine Endosulfan Endrin Ethylbenzene Flouranthene Haloethers Halomethanes Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	0.0043	0.0005(I)	· · · ·
Chlorinated ethanes Chlorinated naphthalene Chlorinated phenols (except penta) Chloroalkyl ethers Chloroform DDT & isomers Dichlorobenzenes Dichlorobenzidine Dichloroethylenes Dieldrin Dinitrotoluene Diphenylhydrazine Endosulfan Endrin Ethylbenzene Flouranthene Haloethers Halomethanes Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	25.0	20.0	
Chlorinated naphthalene Chlorinated phenols (except penta) Chloroalkyl ethers Chloroform DDT & isomers Dichlorobenzenes Dichlorobenzidine Dichloroethylenes Dieldrin Dinitrotoluene Diphenylhydrazine Endosulfan Endrin Ethylbenzene Flouranthene Haloethers Halomethanes Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	50.0	1.0(I)	100
Chlorinated phenols (except penta) Chloroalkyl ethers 1, Chloroform 3, DDT & isomers Dichlorobenzenes Dichlorobenzidine 1, Dichloroethylenes 1, Dieldrin 1, Dinitrotoluene 1, Diphenylhydrazine 1, Endosulfan 1, Endrin 1, Ethylbenzene 1, Haloethers 1, Haloethers 1, Heptachlor 1, Hexachlorobutadiene 1, Hexachlorocyclopentadiene 1, Naphthalene 1, Naphthalene 1, Chloroalkyl ethers 1, Chloroalkyl ethers 1, Chloroform 3, Chloroform 3, C	200.0		•
Chloroalkyl ethers Chloroform DDT & isomers Dichlorobenzenes Dichlorobenzidine Dichloroethylenes Dieldrin Dinitrotoluene Diphenylhydrazine Endosulfan Endrin Ethylbenzene Flouranthene Haloethers Halomethanes Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	3.0	0.04	
Chloroform 3, DDT & isomers Dichlorobenzenes Dichloroethylenes 1 Dieldrin Dinitrotoluene Diphenylhydrazine Endosulfan Endrin Ethylbenzene Flouranthene Haloethers Halomethanes Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	,000.0	0.0(I)	
DDT & isomers Dichlorobenzenes Dichlorobenzidine Dichloroethylenes Dieldrin Dinitrotoluene Diphenylhydrazine Endosulfan Endrin Ethylbenzene Flouranthene Haloethers Halomethanes Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	.000.0	0.2(I)	² -
Dichlorobenzenes Dichlorobenzidine Dichloroethylenes Dieldrin Dinitrotoluene Diphenylhydrazine Endosulfan Endrin Ethylbenzene Flouranthene Haloethers Halomethanes Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	0.001	0.0(I)	· .
Dichlorobenzidine 1 Dichloroethylenes 1 Dieldrin Dinitrotoluene Diphenylhydrazine Endosulfan Endrin Ethylbenzene Flouranthene Haloethers 1 Halomethanes 1 Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene 1 Naphthalene	200.0	400.0	
Dichloroethylenes Dieldrin Dinitrotoluene Diphenylhydrazine Endosulfan Endrin Ethylbenzene Flouranthene Haloethers Halomethanes Halomethanes Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	10.0	0.01(I)	
Dichloroethyrenes Dieldrin Dinitrotoluene Diphenylhydrazine Endosulfan Endrin Ethylbenzene Flouranthene Haloethers Haloethers Halomethanes Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	,000.0	0.03(1)	
Dinitrotoluene Diphenylhydrazine Endosulfan Endrin Ethylbenzene Flouranthene Haloethers Halomethanes Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	0.0019	0.00007(I)	
Diphenylhydrazine Endosulfan Endrin Ethylbenzene Flouranthene Haloethers Halomethanes Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	33.0	0.1(I)	
Endosulfan Endrin Ethylbenzene Flouranthene Haloethers Halomethanes Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	30.0	0.04(I)	
Endrin Ethylbenzene Flouranthene Haloethers Halomethanes Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	0.01	75.0	
Ethylbenzene Flouranthene Haloethers Halomethanes Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	0.0023		
Flouranthene Haloethers Halomethanes Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	40.0	1,400.0	
Haloethers Halomethanes Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	400.0	40.0	
Halomethanes Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	40.0	Let arrest a restant de la	
Heptachlor Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	1,000.0	0.2(I)	
Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	0.0039		
Hexachlorobutadiene Hexachlorocyclopentadiene Isophorone Naphthalene	10.0	0.5(I)	
Isophorone Naphthalene	0.5	1.0	
Isophorone Naphthalene		5,200.0	
Naphthalene	1,000.0	5,200.0	·
	600.0	13.0	
Nickel	100.0		
Nitrobenzene	1,000.0	30.0	
Nitrophenols	20.0	13.0	
Nitrosamines .	600.0 7.0	0.001(I) 30.0	111

(Continued) STANDARDS

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(Continued)

	Criteria For Classes							
Constituent	Α	·B	÷.	C		D	E	
Phthalate esters				100.0			0000	
Polychlorinated biphenyls				0.01			0008 (
Polynuclear aromatic hydrocarb	ons	•	-	1.0		0.0 50.0		- it.
√Silver (dissolved) Tetrachloroethylene			j	300.0			(1)	
Thallium		. E		100.0		13.0		
Toluene				500.0		000.0		
Toxaphene				0.01		0.0	007()	()
Trichloroethylene	•••••	•		0.000		- 3.0		•
2-chlorophenol				100.0		0.1		i
2,4-dichlorophenol				200.0		0.3		
2,4-dimethylphenol				200.0		400.0 400.0		
Dichloropropane				400.0		80.0		
Dichloropropene Hexachlorocyclohexane		2		0.0		-	1(I)	`
(Lindane & isomers)							/	
Others				(V)				3
				:		÷		
	2							••
(I) A risk factor of $10-6$ is as	sociat	ed w	with t	he cr	iteric	n; th	e	
preferred level is absolute	ly nor	e.						
	- 19		ha ai	unn h				
(II) The numerical standard in u	ig/1 Sr	dii	be gi	ven b	y •			~
e(0.7852]]n(h	ardnes	s) -	3.49	0)				
(III) The numerical standard in u	ig/1 st	all	be gi	ven b	y:			
e(0.8545/1n()	nardnes	s) ·	-1.465)				•
(IV) The numerical standard in u	ıg/1 sł	all	be gi	ven b	y:			
e(1.2730 ln(h	nardnes	ss)	-4.705	5)				
Hardness in each case shall be me	easure	i as	mg/1	of Ca	CO3.	•		
(V) A guideline value for Class	C wat		chall	ha ta		ent ((10%)	of

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1103	APPLICABILITY
1103.1	The public policy of the protection of the beneficial uses of the waters of the District by the attainment of the water quality standards can accommodate economic growth and social well-being.
1103.2	The discharge of pollutants in quantities that prevent the attainment of the water quality standards shall be allowed temporarily only if the discharger can demonstrate at least once every three (3) years through a public hearing process that one (1) of the following conditions holds:
	(a) Irretrievable and irreversible conditions exist which prevent the attainment of the standards; or
	(b) The application of technology sufficient to attain the standards would result in substantial and widespread adverse economic and social impacts.
1103.3	The numerical standards shall not apply at flows less than the average siven (7) day low flow which has a probability of occurrence of once in ten (10) years.
1103.4	The numerical standards for fecal coliform, dissolved oxygen, turbidity and un-ionized ammonia shall not apply for a period of twenty-four (24) hours following high flow conditions.
1103.5	High flow for the Potomac River is defined as a two hundred percent (200%) increase in flow during a twenty-four (24) hour period.
1103.6	High flow for the Anacostia River is defined as a rainfall with an intensity greater than two-tenths of an inch $(0.2")$ per hour for a period of one (1) hour in the portion of the District of Columbia contributory to the Anacostia River or a three hundred percent (300%) increase in flow during a twenty-four (24) hour period.
1103.7	High flow for Rock Creek and tributaries is defined as a rainfall with an intensity greater than two-tenths of an inch (0.2") per hour for a period of one (1) hour in the portion of the District of Columbia contributory to "Rock Creek or a two hundred percent (200%) flow increase during a twenty-four (24) hour period.
1103.8	High flow for other tributaries to the Potomac and Anacostia Rivers is defined as a flow increase of five hundred percent (500%) during a twenty-four (24) hour period.

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APPLICABILITY (Continued)

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1103.9 The numerical standards shall not apply to intermittent streams. Dischargers to intermittent streams shall provide a demonstration that the discharge will not impair the designated beneficial uses of the stream segment nor downstream segments.

1103.10 Mixing zones shall be established for point source discharges of pollutants which immediately threaten the present nearby aquatic community or present or future water uses. The following factors shall be used in establishing mixing zones:

- (a) Permissible size of the zone shall be dependent on an acceptable amount of impact and the size of the receiving water body;
- (b) Mixing zones shall be free from discharged substances that will settle to form objectionable deposits; float to form unsightly masses; or produce objectionable color, odor or turbidity;
 - (c) Mixing zones shall protect aquatic life in shallow areas which serve as nursery areas;
 - (d) A mixing zone, or two (2) or more mixing zones, shall not form a barrier to migratory aquatic life;

....

- (e) As a guideline, the quality for life within a mixing zone shall be such that the acute toxicity for biota significant to the area's aquatic life community is not exceeded;
- (f) The positioning of mixing zones shall be done in a manner that provides the greatest protection to aquatic life and for the various uses of the water; and
- (g) Within the estuary, the maximal dimension of the mixing area shall not exceed ten percent (10%) of the numerical value of the cross-sectional area of the waterway and shall not occupy more than one third (1/3) of the width of the waterway.
- 1103.11 All laboratory examinations of samples collected to determine violations of these water quality standards shall be performed in accordance with procedures approved by the U.S. Environment Protection Agency.

1103.12 All field analyses and measurements to determine compliance with these water quality standards shall be conducted in accordance with standard procedures specified by the government of the District of Columbia.

1103 APPLICABILITY (Continued)

1103.13

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Nothing in these water quality standards shall be interpreted as alleviating any discharger from meeting more stringent water quality standards of downstream jurisdictions.

DEFINITIONS

1199.1 When used in this chapter, the terms and phrases defined in this chapter shall have the meanings ascribed:

Acute Toxicity - the concentration of a substance which is lethal to fifty percent (50%) of the test organisms within ninety-six (96) hours, also referred to as the L C50.

Ambient - those conditions existing before or upstream of a source or incidence of pollution.

Intermittent Stream - a water course which has no flow for a period of seven (97) consecutive days on a frequency of at least once a year.

Mixing Zone - an area, contiguous to a discharge, in which dilution occurs such that there is a transition between effluent limitations and water quality standards.

Primary Contact Recreation - those water contact sports which result in frequent whole body immersion and/or involve significant risks of ingestion.

Secondary Contact Recreation - those water contact sports which seldom result in whole body immersion and/or do not involve significant risks of ingestion.

Standards - those regulations, numerical or narrative which specify a level of quality of the waters necessary to sustain the designated beneficial uses.