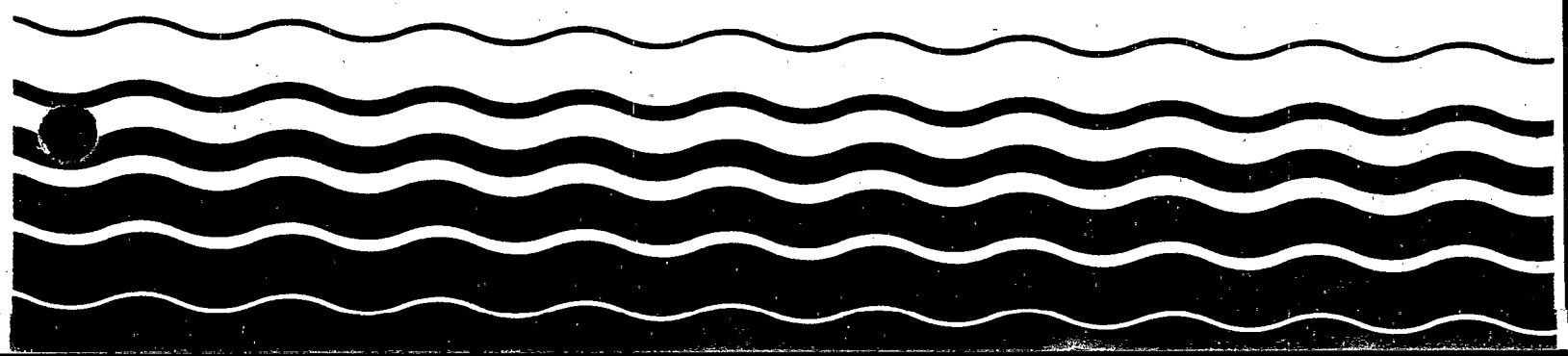


Water



State Water Quality Standards Summary: Michigan





DISCLAIMER

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The reader should consult the water quality standards of a particular State for exact regulatory language applicable to that State. Copies of State water quality standards may be obtained from the State's Water Pollution Control Agency or its equivalent.

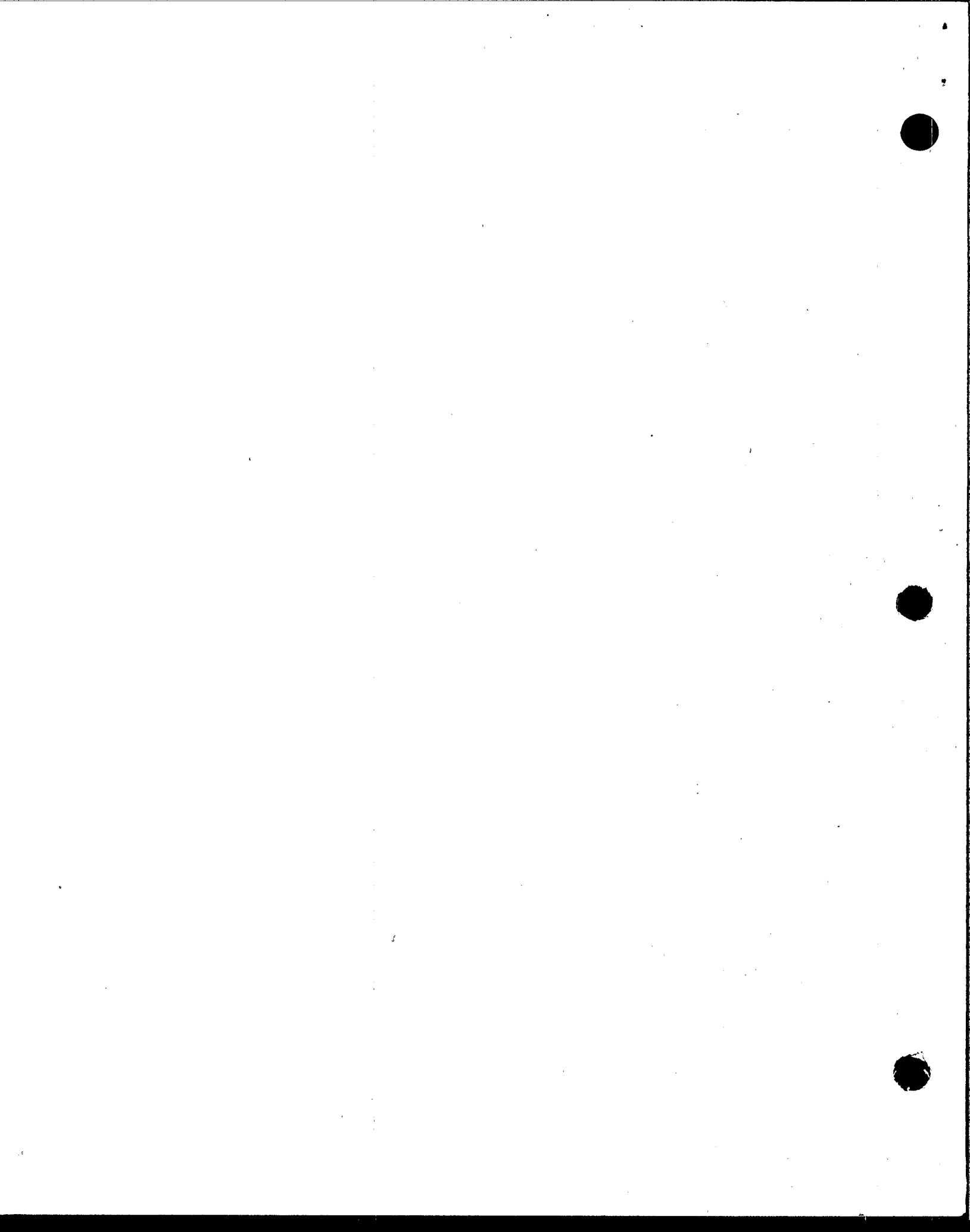
Additional information may also be obtained from the:

Standards Branch
Criteria and Standards Division (WH-585)
Office of Water Regulations and Standards
U.S. Environmental Protection Agency
Washington, D.C. 20460
202-475-7315

This document may be obtained only from the National Technical Information Service (NTIS) at the following address:

National Technical Information Service
5285 Front Royal Road
Springfield, Virginia 22161
703-487-4650

The NTIS order number is: PB89-141899



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Responsible Agency:

Water Resource Commission
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Box 30028

Lansing 48909
517-373-0928

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State Narrative Language For: Antidegradation

1. Rule 98 applies to waters of the state in which the existing water quality is better than the water quality standards prescribed by these rules or than needed to protect existing uses.
2. These waters shall not be lowered in quality by action of the commission (Michigan Water Resources Commission) unless it is determined by the commission that such lowering will not do any of the following:
 - (a) Become injurious to the public health, safety, or welfare.
 - (b) Become injurious to domestic, commercial, industrial, agricultural, recreational, or other uses which are or may be made of such waters.
 - (c) Become injurious to the value or utility of riparian lands.
 - (d) Become injurious to livestock, wild animals, including birds, fish, and other aquatic animals, or plants or their growth or propagation.
 - (e) Destroy or impair the value of game, fish, and wildlife.
 - (f) Be unreasonable and against the public interest in view of the existing conditions.
3. In addition to the requirements of subrule (2) of this rule, specified protected waters shall not be lowered in quality unless, after opportunity for public hearing, it has been demonstrated by the applicant to the commission that a lowering in quality will not be unreasonable, is in the public interest in view of existing conditions, is necessary to accommodate important social or economic development, and that there are no prudent and feasible alternatives to lowering water quality.
4. Wild rivers designated under the wild and scenic rivers act of 1968, rivers flowing into, through, or out of national parks or national lakeshores, and wilderness rivers designated under Act No. 231 of the Public Acts of 1970, being 281.761 et seq of the Michigan Compiled laws shall not be lowered in quality.

State Narrative Language For: Toxics

Toxic substances shall not be present in the waters of the state at levels which are or may become injurious to the public health, safety, or welfare; plant and animal life; or the designated uses of those waters. Allowable levels of toxic substances shall be determined by the commission using appropriate scientific data. There are provisions that apply for purposes of developing allowable levels of toxic substances in the surface waters of the state applicable to point source discharge permits issued pursuant to Act No. 245 of the Public Acts of 1929, as amended, being 323.1 et seq. of the Michigan Compiled Laws. (See Michigan Water Quality Standards Rule 57 Section R 323.1057 in BNA Environment Reporter for these provisions.)

State Narrative Language For: Free From

The waters of the state shall not contain unnatural turbidity, color, oil films, floating solids, foams, settleable solids, suspended solids, or deposits in quantities which are or may become injurious to any designated use.

State Narrative Language For: Low Flow

Water quality standards shall apply at all flows equal to or exceeding the design flow. The design flow is equal to the most restrictive of the 12 monthly 95% exceedance flows, except where the commission determines

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that a more restrictive design flow is necessary or where the commission determines that seasonal design flows may be granted pursuant to R 323.1090(4). The 95% exceedance flow is the flow equal to or exceeded 95% of the time for the specified month.

State Narrative Language For: Mixing Zones

1. Exposure in mixing zones shall not cause an irreversible response which results in deleterious effects to populations of important aquatic life and wildlife. As a minimum restriction, the final acute value for aquatic life shall not be exceeded in the mixing zone at any point inhabitable by these organisms, unless it can be demonstrated to the commission that a higher concentration is acceptable. The mixing zone shall not prevent the passage of fish or fish food organisms in a manner which would result in adverse impacts on their immediate or future populations. Watercourses or portions thereof which, without 1 or more point source discharge, would have flow except during periods of surface runoff may be considered as a mixing zone for a point source discharge. The area of mixing zones should be minimized. To this end, devices for rapid mixing, dilution, and dispersion are encouraged where practicable.
2. For toxic substances, not more than 25% of the receiving water design flow, as stated in R 323.1090, shall be utilized when determining effluent limitations for surface water discharges, unless it can be demonstrated to the commission that the use of a larger volume is acceptable.
3. For substances not included in subrule (1) of this rule, the design flow, as stated in R 323.1090, shall be utilized when determining effluent limitations for surface water discharges if the provisions in subrule (1) of this rule are met, unless the commission determines that a more restrictive volume is necessary.
4. For all substances, defined mixing zone boundaries may be established and shall be determined on a case-by-case basis.
5. Mixing zones in the Great Lakes, their connecting waters, and inland lakes shall be determined on a case-by-case basis.

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Classifications:

Agricultural Uses

Navigation

Industrial Water
Supply

Public Water Supply
at the Point of
Water Intake

Warmwater Fish

Other Indigenous
Aquatic Life &
Wildlife

Partial Body Contact
Recreation

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	All Classes	Agricultural Us..	Navigation	Industrial Wate..
Physical				
pH				
Upper Value	9.0			
Lower Value	6.5			
Dissolved Oxygen				
Lower Value	Narr.			
Temperature				
Upper Value	Narr.			
Temperature Change				
Upper Value	Narr.			
Turbidity				
Upper Value	Narr.			
Total Dissolved Solids				
Upper Value	750	mg/L		
Nutrients				
Phosphorus				
Upper Value	1	mg/L		
Toxic Metals				
Pesticides				
Organics				
Bacteria				
Fecal Coliform				
Upper Value	Narr.			

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Public Water Su.. Warmwater Fish Other Indigenou.. Partial Body Co..

Physical
Chlorides
Upper Value

125 mg/L ave.

Nutrients

Toxic Metals

Pesticides

Organics

Bacteria

