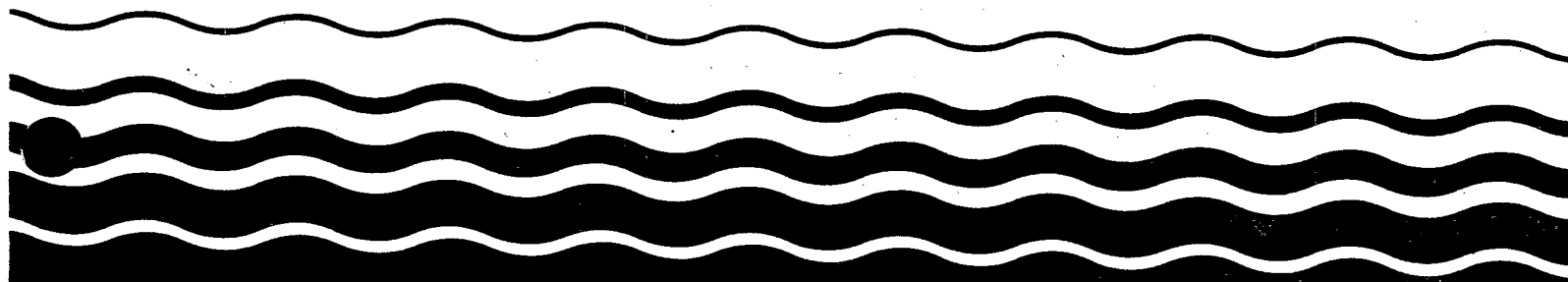


Water



State Water Quality Standards Summary: Montana



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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: PB89-141931.

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Responsible Agency:
Montana State Dept. of Health and Env. Science
Capitol Station

State Contact:

Helena 59601
406-449-2406

Standards Available From:
Steven Pilicher, Chief, Water Quality Bureau
Dept. of Health and Envir. Sciences
Capitol Station

State Contact:

Helena 59601
406-449-2406 Fee: Mailing List: no

State Narrative Language For: Antidegradation

The Montana Board of Health and Environmental Sciences shall require:

1. That any state waters whose existing quality is higher than the established water quality standards be maintained at that high quality unless it has been affirmatively demonstrated to the board that a change is justifiable as a result of necessary economic or social development and will not preclude present and anticipated use of these waters; and
2. Any industrial, public or private project or development which would constitute a new source of pollution to high quality waters, referred to in subsection (1), to provide the degree of waste treatment necessary to maintain that existing high water quality.

State Narrative Language For: Toxics

The maximum allowable concentrations of toxic or deleterious substances must not exceed acute or chronic problem levels as revealed by bioassay or other methods. The values listed in EPA Water Quality Criteria documents (Federal Register Vol. 45, No. 231, Friday, November 28, 1980, pages 79318 - 79379) shall be used as a guide to determine problem levels unless local conditions make these values inappropriate. In accordance with section 75-5-306(1), MCA, it is not necessary that wastes be treated to a purer condition than the natural condition of the receiving water.

State Narrative Language For: Free From

State surface waters must be free from substances attributable to municipal, industrial, agricultural practices or other discharges that will:

- A. Settle to form objectionable sludge deposits or emulsions beneath the surface of the water or upon adjoining shorelines;
- B. Create floating debris, scum, a visible oil film (or be present in concentrations at or in excess of 10 mg/l) or globules of grease or other floating materials;
- C. Produce odors, colors or other conditions as to which create a nuisance or render undesirable tastes to fish flesh or make fish inedible;
- D. Create concentrations or combinations of materials which are toxic or harmful to human, animal, plant or aquatic life; and
- E. Create conditions which produce undesirable aquatic life.

State Narrative Language For: Low Flow

Until such time as minimum stream flows are established for dewatered streams, the minimum treatment requirements for discharges to dewatered receiving streams must be no less than the minimum treatment requirements set forth in ARM 16.20.631 (2) & (3).

State Narrative Language For: Mixing Zones

Discharges to surface waters may be entitled a mixing zone which will have a minimum impact on surface water quality, as determined by the department.

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Classifications:

- A-Closed
Classification Waters classified as A-Closed are suitable for drinking, culinary and food processing purposes after simple disinfection.
- A-1 Classification Waters classified A-1 are suitable for drinking, culinary and food processing purposes after conventional treatment for removal of naturally present impurities. Water quality must be suitable for bathing, swimming and recreation; growth and propagation of salmonid fishes and associated aquatic life, waterfowl and furbearers; and agricultural and industrial water supply.
- B-1 Classification Waters classified as B-1 are suitable for drinking, culinary and food processing purposes, after conventional treatment; bathing, swimming and recreation; growth and propagation of salmonid fishes and associated aquatic life, waterfowl and furbearers; and agricultural and industrial water supply.
- B-2 Classification Waters classified B-2 are suitable for drinking, culinary and food processing purposes, after conventional treatment; bathing, swimming and recreation; growth and marginal propagation of salmonid fishes and associated aquatic life, waterfowl and furbearers; and agricultural and industrial water supply.
- B-3 Classification Waters classified B-3 are suitable for drinking, culinary and food processing purposes, after conventional treatment; bathing, swimming and recreation; growth and propagation of non-salmonid fishes and associated aquatic life, waterfowl and furbearers; and agricultural and industrial water supply.
- C-1 Classification Waters classified C-1 are suitable for bathing, swimming and recreation; growth and propagation of salmonid fishes and associated aquatic life, waterfowl and furbearers; and agricultural and industrial water supply.
- C-2 Classification Waters classified C-2 are suitable for bathing, swimming and recreation; growth and marginal propagation of salmonid fishes and associated aquatic life, waterfowl and furbearers; and agricultural and industrial water supply.
- C-3 Classification Waters classified C-3 are suitable for bathing, swimming and recreation, growth and propagation of non-salmonid fishes and associated aquatic life, waterfowl and furbearers; and agricultural industrial water supply.

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	All Classes	A-Closed	A-1 Classificat..	B-1 Classificat..
Physical				
pH				
Upper Value		Narr.	8.5	8.5
Lower Value			6.5	6.5
Dissolved Oxygen				
Lower Value				
Temperature			7.0 mg/L	7.0 mg/L
Upper Value			Narr.	Narr.
Temperature Change				
Upper Value			1 F	1 F
Secondary Upper Limit			0.5 F	0.5 F
Turbidity				
Upper Value			Narr.	Narr.
Nutrients				
Toxic Metals				
Arsenic				
Upper Value		Narr. site-spec.		
Cadmium				
Upper Value		Narr. site-spec.		
Iron				
Upper Value		Narr.		
Pesticides				
Organics				
Bacteria				
Fecal Coliform				
Upper Value				Narr.
Total Coliform				
Upper Value		Narr.	Narr.	

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B-2 Classificat.. B-3 Classificat.. C-1 Classificat.. C-2 Classificat..

Physical

pH

Upper Value

9.0

9.0

8.5

9.0

Lower Value

6.1

6.5

6.5

6.5

Dissolved Oxygen

Lower Value

7.0 mg/L

5.0 mg/L

7.0 mg/L

7.0 mg/L

Temperature

Upper Value

Narr.

Narr.

Narr.

Narr.

Temperature Change

Upper Value

1 F

3 F

1 F

1 F

Secondary Upper Limit

0.5 F

0.5 F

0.5 F

0.5 F

Turbidity

Upper Value

Narr.

Narr.

Narr.

Narr.

Nutrients

Toxic Metals

Pesticides

Organics

Bacteria

Fecal Coliform

Upper Value

Narr.

Narr.

Narr.

Narr.

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C-3 Classificat..

Physical

pH

Upper Value 9.0

Lower Value 6.5

Dissolved Oxygen

Lower Value 5.0 mg/L

Temperature

Upper Value Narr.

Temperature Change

Upper Value 3 F

Secondary Upper Limit 0.5 F

Turbidity

Upper Value Narr.

Nutrients

Toxic Metals

Pesticides

Organics

Bacteria

Fecal Coliform

Upper Value Narr.

