

Idaho

Water Quality Standards

&

Wastewater Treatment

Requirements

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Idaho Dept. of Health & Welfare

Division of Environment

ATTACHMENT 9

TITLE 1
Chapter 2
WATER QUALITY STANDARDS AND
WASTEWATER TREATMENT REQUIREMENTS

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WATER QUALITY

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warm water biota and not cold water biota, its total chlorine residual concentration exceeds one one-hundredth (0.01) mg/l. (1-30-80)

- .02 Exceptions to Treatment Requirements. Exceptions to treatment requirements can be granted on a case-by-case basis when it can be demonstrated by the person requesting the exceptions: (1-30-80)

- (a) That such exceptions will not seriously affect existing water quality and uses are adequately protected; and (1-30-80)
- (b) That the treatment requirement is: (1-30-80)
 - (1) Unreasonable with current applicable technology; or (1-30-80)
 - (2) Economically prohibitive; or (1-30-80)
- (c) That treatment to a lesser degree would result in a net improvement in the water quality of the receiving water. (1-30-80)

- .03 Mixing Zone. After a biological, chemical, and physical appraisal of the receiving water and the proposed discharge and after consultation with the person(s) responsible for the wastewater discharge, the Department will determine the applicability of a mixing zone and, if applicable, its size, configuration, and location. In defining a mixing zone, the Department will consider the following principles: (1-30-80)

- (a) The mixing zone may receive wastewater through a submerged pipe, conduit or diffuser. (1-30-80)
- (b) The mixing zone is to be located so it does not cause unreasonable interference with or danger to existing beneficial uses. (1-30-80)
- (c) When two (2) or more individual mixing zones are needed for a single activity, the sum of the areas and volumes of the several mixing zones is not to exceed the area and volume which would be allowed for a single zone. (1-30-80)
- (d) Multiple mixing zones can be established for a single discharge, each being specific for one

- (1) or more pollutants contained within the discharged wastewater. (1-30-80)
- (e) Mixing zones in flowing receiving waters are to be limited to the following: (1-30-80)
 - (1) The cumulative width of adjacent mixing zones when measured across the receiving water is not to exceed fifty percent (50%) of the total width of the receiving water at that point. (1-30-80)
 - (2) The width of a mixing zone is not to exceed twenty-five percent (25%) of the stream width or three hundred (300) meters plus the horizontal length of the diffuser as measured perpendicularly to the stream flow, whichever is less. (1-30-80)
 - (3) The mixing zone is to be no closer to the ten (10) year, seven (7) day low-flow shoreline than fifteen percent (15%) of the stream width. (1-30-80)
 - (4) The mixing zone is not to include more than twenty-five percent (25%) of the volume of the stream flow. (1-30-80)
- (f) Mixing zones in reservoirs and lakes are to be limited to the following: (1-30-80)
 - (1) The total horizontal area allocated to mixing zones is not to exceed ten percent (10%) of the surface area of the lake. (1-30-80)
 - (2) Adjacent mixing zones are to be no closer than the greatest horizontal dimension of any of the individual zones. (1-30-80)
- (g) The water quality within a mixing zone is subject to General Water Quality Standards contained in Manual Sections 1-2200.03, "Radioactive Materials", 1-2200.04, "Floating and Submerged Matter", and 1-2200.05 "Excess Nutrients", and can be exempt from the standards contained in Manual Sections 1-2200.01 "Hazardous Materials" and 1-2200.02 "Deleterious Material", as well as from Manual Section 1-2250, as determined appropriate, provided that the receiving water's existing quality is

not in violation of that standard or provision. (1-30-80)

- (h) Concentrations of hazardous materials within the mixing zone must not exceed the ninety-six (96) hour LC50 for biota significant to the receiving water's aquatic community. (1-30-80)

.04 Operation. Any person who owns or operates any sewage or other wastewater treatment facility must at all times: (1-30-80)

- (a) Insure that such facility is operated under competent supervision and with the highest efficiency that can reasonably be expected; and (1-30-80)

- (b) Maintain such facility in good repair. (1-30-80)

.05 Treatment Records. Any person who owns or operates any facility or carries out any operation which results in the discharge of wastewater must furnish to the Department such information concerning quality and quantity of discharged wastewaters and maintain such treatment records as the Department requires to evaluate the effects of any receiving waters. Required information can include, but is not limited to: (1-30-80)

- (a) Treated wastewater discharge volumes; and (1-30-80)

- (b) Treated wastewater discharge BOD; and (1-30-80)

- (c) Treated wastewater discharge suspended solid concentration; and (1-30-80)

- (d) Discharge pH; and (1-30-80)

- (e) Discharge temperatures. (1-30-80)

.06 Falsification of Records. It is a violation of these regulations for any person to falsify or knowingly render inaccurate any treatment record which can be required as provided in these regulations. (1-30-80)

1-2401 -- 1-2419 (RESERVED)

1-2420 REGULATIONS GOVERNING POINT SOURCE SEWAGE WASTEWATER DISCHARGES. All provisions and requirements of Manual