

## 5.5.4 Effluent Limits/Water Quality Based Effluent Limits/ Effluent Limitations for Specific Waters/Class L3 Lakes (Other Lakes)

### **Applicability:**

This information summarizes the maximum effluent limits for point sources, water contaminant sources and wastewater treatment facilities that discharge to the Class 2 and Class 3 Lakes and Reservoirs and to tributaries within one-half mile of the point it enters the lake or reservoir at normal full pool. The key regulatory citation is 10 CSR 20-7.015(3). Class L2 Lakes are the 14 major reservoirs. Class L3 Lakes are lakes or reservoirs that are waters of the state that are not used as a source for drinking water supply.

### **Content:**

These effluent limits apply to Class L2 Lakes and to Class L3 Lakes that are publicly owned. A publicly owned Class L3 Lake is one for which a substantial portion of the surrounding lands are publicly owned or managed. Class L3 lakes that are not publicly owned are subject to the effluent rule provisions of 10 CSR 20-7.015(3)(E) and (8).

For discharges from wastewater treatment facilities that receive primarily domestic waste or from publicly owned treatment works (POTWs):

- BOD5 - monthly average equal to or less than 20 mg/l
  - weekly average equal to or less than 30 mg/l
- NFR - monthly average equal to or less than 20 mg/l
  - weekly average equal to or less than 30 mg/l
- pH - maintained in the range of 6.0 to 9.0 standard units

### **Carbonaceous BOD5 (CBOD5)**

When the wastewater treatment process causes nitrification, CBOD5 can be substituted for BOD5 at 5 mg/l less than the regular BOD5 limit in the operating permit.

### **POTW Storm Water Facilities with Noncontinuous Discharge**

- BOD5 - weekly average equal to or less than 45 mg/l
- NFR - weekly average equal to or less than 45 mg/l
- pH - maintained in the range of 6.0 to 9.0 standard units

### **Fecal Coliform**

Discharges to lakes and reservoirs identified as whole body contact areas shall not contain more than:

- a monthly geometric mean of 400 colonies/100 ml, and
- a daily maximum of 1000 colonies/100 ml.

These limits are in effect from April 1 to October 31. The department may waive or relax this limitation if the owner or operator of the wastewater treatment facility can demonstrate that neither health nor water quality will be endangered. Facilities without disinfection shall comply with the implementation schedule in 10 CSR 20-7.01599(H). A temporary suspension of the bacterial limitation during periods of wet weather may be sought through the process described in 10 CSR 20-7.015(9)(I).

## Sludge

Sludge removed in the treatment process is not to be discharged. It is to be used or disposed in accord with the approved sludge management practices.

## Special Effluent Limitations

Where the use of the standard effluent limitations is known or expected to endanger water quality, site-specific effluent limitations will be developed and incorporated into the permit. All permits in a study area for a waste load allocation or TMDL can be modified to reflect the limits established through the study.

## Legal References:

*Missouri Clean Water Law, Chapter 644*

[644.026\(8\), \(13\) and \(17\)](#)

Powers and duties of commission--rules, procedure.

[644.051.1\(3\) and .2](#)

Prohibited acts--permits required, when, fee--bond required of permit holders, when--permit application procedures--rulemaking--limitation on use of permit fee moneys.

*Code of State Regulations:*

[10 CSR 20-6.010\(1\)\(A\) and \(5\)\(A\)](#)

Construction and Operating Permits -  
(1)(A) General - Permits Required for Point Sources  
(5)(A) Operating Permits (OP) - Required

[10 CSR 20-7.015\(1\)\(A\)2 and \(3\)](#)

Effluent Regulations -  
(1)(A)2 - Designations of Waters of the State - Waters of the State Categories  
(3) Lakes and Reservoirs Limitations

[10 CSR 20-7.031\(1\)\(F\)3, \(4\), and \(10\)](#)

Water Quality Standards  
(1)(F)3 - Definitions - Classified Waters  
(4) Specific Criteria  
(10) Permittee compliance Timeframes

## Other Links:

[5.1 Overview – Effluent Limits](#)

[5.3.3 Best Professional Judgment \(BPJ\) Permit Limits](#)

[5.5.3 Class L1 Lakes \(Drinking Water Lakes\)](#)

[6.1.5.3 Analytical Detection Levels-Total Residual Chlorine](#)

[6.1.6.4 Class L2 and L3 Lakes – Monitoring Requirements](#)

## Key Words:

Effluent limits, effluent limitations, effluent regulations, Class L2 Lakes, Class L3 Lakes, lakes, reservoirs

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