

## 6.1.6.9 Monitoring and Reporting Requirements/Monitoring Conditions/Requirements for Specific Waters/Outstanding State Resource Waters

### **Applicability:**

The intent of this topic is to assist the permit writer in establishing minimum requirements for monitoring programs for discharges to Outstanding State Resource Waters. The permit writer shall establish monitoring frequencies, locations, and sample types that fulfill the site-specific informational needs of the department.

### **Content:**

As defined at 10 CSR 20-7.031(1)(P), Outstanding State Resource Waters are high quality waters with a significant aesthetic, recreational or scientific value which are specifically designated as such by the Clean Water Commission. These waters receive special protection against any degradation in water quality as per 10 CSR 20-7.031(2)(C). Outstanding State Resource Waters are listed in Table E of the Water Quality Standards (10 CSR 20-7.031).

The basic effluent limitations and monitoring requirements for Outstanding State Resource Waters are presented at 10 CSR 20-7.015(6)(B), which refers to 10 CSR 20-7.015(8). The department will develop a wastewater and sludge sampling program based on design flow that shall require at a minimum of one wastewater sample per year for each 50,000 gallons per day (gpd) of effluent or fraction thereof, except that:

- Point sources that discharge less than 25,000 gpd may only be required to submit an annual report;
- Point sources that discharge more than one million gallons per day (1 mgd) will be required at a minimum to collect 20 wastewater samples per year unless the applicant can show that the wastewater has a consistent quality, such as once through cooling water or mine dewatering, then the department may set less frequent sampling requirements; and
- Sludge samples will be established in the permit.

Sampling frequency shall be spread evenly throughout the discharge year. This means that a point source with a continuous discharge shall take samples on a regular schedule, while point sources with seasonal discharges shall collect samples during the season of discharge.

Sample types shall be as follows:

- Samples collected from lagoons may be grab samples;
- Samples collected from mechanical plants shall be twenty-four (24)-hour composite samples, unless otherwise specified in the operating permit; and
- Sludge samples shall be a grab sample unless otherwise specified in the operating permit.

The monitoring frequency and sample types described above are minimum requirements. The permit writer shall establish monitoring frequencies, locations, and sample types that fulfill the site-specific informational needs of the department.

To establish an appropriate site-specific monitoring program, the permit writer should take into account:

- nature of the effluent
- variability of the effluent
- design capacity of the treatment facility
- size of the receiving stream
- treatment method used
- past compliance history
- frequency of discharge
- seasonality of discharge
- tiered limits

The antidegradation policy and the basic effluent provisions for waters designated as Outstanding State Resource Waters require that there shall be no lowering of the water quality. The site-specific monitoring program developed for Outstanding State Resource Waters should also address in-stream monitoring to determine the natural concentrations of the parameters of interest to assure no degradation of water quality occurs.

### **Legal References:**

*Code of State Regulations:*

[10 CSR 20-7.015  
\(6\)\(A\) 4](#)

Effluent Regulations - Special Streams Limitations - Outstanding National Resource Waters

[10 CSR 20-7.031  
\(1\)\(O\), \(2\)\(C\) and  
Table D](#)

Water Quality Standards

(1)(O) Definitions

(2)(C) Antidegradation - Outstanding State and National Resource Waters

Table D - Outstanding National Resource Waters

### **Other Links:**

[Missouri Clean Water Commission](#)

[EPA Water Quality Standards and Criteria](#)

[Appendix U -](#)

### **Key Words:**

Monitoring, monitoring requirements, Outstanding State Resource Waters, monitoring frequency, sampling, sampling frequency, in-stream monitoring, OSRW

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