

	Chapter 7-Water Quality 10 CSR 20-7	10 CSR 20-7-DEPARTMENT OF NATURAL RESOURCES	
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(M) Hypolimnion—Zone beneath the zone of atmorpheric mixing in a thermostratified lake. (N) Lethal concentrations, (LC _m)—Con- contraction of a stoticant which howe been analyzed designated uses. (N) Lethal concentrations, (LC _m)—Con- contraction of a stoticant which would be contraction of a stoticant which would be individuals of the set species corganisms in a stot of specified length of time. (M) Hypolimnion—Zone beneath the zone which have been analyzed designated uses. (N) Lethal concentrations, (LC _m)—Con- con November 6, 5013, reflects Tables G and expected to kill fifty percent (50%) of the individuals of the set species corganisms in a stot of specified length of time. (D) Lesing stream—A stream which dis- tore draw (30%) or more of its flow during bor flow confilton through no- toor draw (50%) or more of its	 Branch, PO Box 176, Jefferson City, MO 65102-0176. Effluent monitoring commin tion of fith, shellfish, and wildlife and recrements for CSOs shall be addressed in and on the water as outlined in Sec. CSO Control Policy. CSO Contrel Policy. CSO Control Policy. CSO Co	ad are intended to be used for ware skillag, or skin diving. O Category A (WBC-A)—This pikes to waters that have been by the property owner as post- sense wide-ening access by the witaming backs, but are not limited to: liss((a) by the police, Example, and Interview, Hosta, nam- mats, fish, amplibians, and reprise, iss(a) by the police, Example, and the second tiss((a) by the police, Example, and the second tisso the fideling, hunting, and observing widdlife, second the second tissoft of the theory of the second tissoft of the police, Example, and the second tissoft of the theory of the second time the second time theory of the second time the second time theory of the	ing lands are publicly owned or managed. 4. Class P—Streams that maintain per- manent flow even in drought periods. 5. Class PI—Standing-noter reaches of Class P streams. 6. Class C—Streams that may cease flow in day periods but maintain permanent pools which support aquatic life.
opnient, valley con development, dye tr characterities, soort	we do for		a how or perturbation remeral surface flow or procephation events, thands that are waters of a criteria in the Corps of Deliveration Manual subsequent federal revi- ns. Class W waters do flat are artificially com- mutationed for the treat- ge, stormwater control, with road communition, icipal, or agricultural s of fish-The pre-batch report-batch free embryo
(b) Landar con the regulation is the c the low-flow condition immediately upstran	nial Review?		the larval period during i feeds. Arcenia fish, ally rather similar to izred an early life stage. coregions denote areas is ecosystems and in the natity of environmental designed to serve as a r the resurch, assess-, and monitoring of votem components. By
charge and realistic. 1. Seven-(7) dr year low flow (10)1 flow for seven (7) cn probable recurrence (20) year. 2. Sity-(80-) d year low flow (600) flow for will (600) f	IN CAR 49-1/001 VARY URANY STANDARDS. RUNDARING READER HADDER PROSENDER 1955 - 75. THORE DAVY CORDES DESIGNARI	ini any sy manuji, mi sinane. Ini na umurum nere a symoogia Lunc.	inal differences in the miniba of eccoptema, be environment by its is distribution (Hyce, , 1999), use of atmospheric mix- ied lake. df (E. col)—A type of a fourd in the innextures ms. The presence of E. org inficiention of recent watte contamination. many types of disease- athogens).
nut tas a probable incurrence interval of early Frietrence and deen not include any tater CPR 2.53.20(5) and the United Matter Emission and Control of Appartiants. A Case- (1-) day, case (1-) in-tro- (10) year. 4. Case- (1-) day, case. (1-) in-tro- (10) year. 4. Case- (1-) day, case. (1-) in-tro- (10) year. (b) (10(0) — The lowest werage means and shall make them analizable to the flow for one (1) day that has a probable for impaction. (Q) Missouri Use Designation Dataset—A digital goospatial dataset used in conjunction (W) Reference lakes or reservoirs-Lakes estimate chronic and acute toxicity or reservoirs determined by Missouri Departorment. This dataset meanintained by the department.	PURPOSE: This rule identifies uses of waters based on linnological characteristics (such as (WBC)—Activities involving direct human contact with waters of the state, criteria to protect those uses, and different learnant degradation policy, it is devel, of the state criteria to protect those uses, and the frequent state with water fact. Section 10 Great River A. Warm Water Habitat (WWL)—Activities involving direct human contact with waters of the state to the point of complete body submergence. The water may oped in response to the fusiouri Clean Water fact. Section 10 Great River Goal of the state contact with waters of the state to the point of complete body submergence. The water may body organs, such as the eyes, ears, and the name of a wide variety of warm-water biota. 3036(c)(1) and (2), which requires that state water quality standards be reviewed at least once every three (3) years. These revisions (II) Large River not intended to be used as a potable supply unless acceptable treatment is applied. Waters	net in these standards; These permanent backwater areas are considered to have been aread to have the same hydrologic class as the water body into which the tributary flows. 1. Class L1—Lakes used permanent backwater areas are considered to have the same hydrologic class as the water body into which the tributary flows. 1. Class L1—Lakes used permanent backwater areas are considered to have the same hydrologic class as the water hydrologic class as the same hydrologic class as the hydrologic class as the same hydrologic class as the hydrologic class as	a body of water becomes certiched in dis- solved matricents, such as mirrogen and phos- phorus, that stimulate the execusive growth of algae and other plants. Europhication may be accelerated by human activities. Existing uses—Those uses accually attained in the water body on our after Novem- ber 28, 1975, whether or not they are identi- fied in the water quality standards.
Jowe R. Asictory (1/29/19) CODE OF STATE REGULATIONS Security of State	Jown R. Assexnorr (1/29/19) CODE OF STATE REGULATIONS 11 Secretary of State	CODE OF STATE REGULATIONS	(1/28/19) Jone R. Assembly of State

Out with the Old Process

Triennial Review & Rulemaking

- When? About every three years
- What? Scoping, research, development, and incorporation of updates to the WQS rule; follows formal rulemaking process set forth by DNR
- Stakeholder engagement is all encompassing:
 - Notice of Intent (NOI) to begin rulemaking seeks input from the public for prioritization
 - Stakeholder meetings (DNR rulemaking process) focus on relaying technical aspects to attendees and presenting our recommendations for rule revisions
- Public hearing held per state statute; satisfies the federal triennial review requirement
- End product is the revised rule and submittal to EPA

Research and Development

- When? Occurs either during or outside of the rulemaking process
- What? Technical development and review prioritized through triennial review findings, management input, and resource availability
- Stakeholder engagement focused on technical aspects of WQS projects; meetings usually take place as a part of the formal rulemaking process
- End products are varied (reports, rationale documents, white papers, etc.)



In with the New Process

Triennial Review

- When? Every three years on a set schedule
- What? Identification and prioritization of needed WQS revisions; unit conducts required review per CFR
- Stakeholder engagement focused on general public input and interest in WQS revisions; surveys; starts informally then moves to public hearing
- **Public hearing** held to satisfy the federal triennial review requirement
- End products are triennial review report (public input), gap analysis, project inventory/prioritization document

Rulemaking

- When? No set schedule for when we start; no required frequency; start the process when there are sufficient revisions to be made to the rule either in number or significance
- What? Formal rulemaking process set forth by the DNR
- Stakeholder engagement focused on specific revisions in rule text/tables/formatting; technical aspects will have been worked out in R&D phase
- Public hearing held per state statute
- End product is the revised rule and submittal to EPA

Research and Development

- When? Ongoing; project plans set schedules for specific projects
- What? Technical development and review prioritized through triennial review findings, management input, and resource availability
- **Stakeholder engagement** focused on technical aspects of WQS projects; multiple, informal public meetings possible to work through technical details
- End products are technical documents, fact sheets, and recommendation to move to rulemaking



Topics we covered in our Triennial Review

- Aluminum
- Selenium
- Cobalt
- Cyanotoxins
- 1,4 Dioxane
- Human Health Protection
- Escherichia coli





Topics Moving Forward to Rulemaking

- 2013 recommended AQL criteria for Ammonia
 - Excluding the Missouri and Mississippi Rivers
- Update to fish consumption rate
 - 6.5 grams/day to 14.3 grams/day
- General edits clarifying bioaccumulative pollutants
- Potential recreational UAA





Triennial Review Rulemaking Estimate

- Ammonia
 (excluding Big Rivers)
- Fish Consumption Rate
- Bioaccumulation
- Metropolitan No-Discharge

MUDD Corrections

- Aluminum
- General Edits
 - Losing Streams
 - Hardness

- Ammonia for Big Rivers
- PFAs ?

2028

- DWS
- HHP
- AQL

• MUDD Corrections

2030



Questions?

Contact: Victoria.Bushan@dnr.mo.gov wqs@dnr.mo.gov

Workgroup Webpage:

https://dnr.mo.gov/about-us/forumsstakeholder-groups/water-quality-standards

