



## **Draft 2022 Listing Methodology Document - Virtual Public Availability Session**

Missouri Department of Natural Resources  
1101 Riverside Drive  
Jefferson City, Missouri

**September 1, 2020 | 9:00am – 12:00pm**

### **Participant List:**

1. Ann Lavaty - EPA Region 7
2. Anna McElfresh - Missouri DNR
3. Austin Nieman - St. Louis MSD
4. Brandy Bergthold - Missouri DNR
5. Chris Riggert - Missouri Department of Conservation
6. Chris Wieberg – Missouri DNR
7. Cody Luebbering - Geosyntec Consultants
8. Dave Michaelson - Missouri DNR
9. David Carani - HDR
10. Emily Tracy-Smith - University of Missouri
11. Erin Petty - Missouri DNR, Monitoring and Assessment
12. Jason Daniels - EPA Region 7
13. Jeanne Heuser - Moniteau County citizen
14. Joel Reschly - Missouri DNR
15. John Christiansen - HDR
16. John Hoke, Missouri DNR
17. Julianne Epplin - Ameren Missouri
18. Katrina Knott - Missouri Department of Conservation
19. Laura Richardson - Missouri DNR, Monitoring and Assessment
20. Leslie Holloway - Missouri Farm Bureau
21. Lin Kuhn - Missouri Department of Conservation
22. Lynn Milberg - Missouri DNR, Water Quality Monitoring Section
23. Lynne Hooper - Boone County Resource Management
24. Mary Culler - Stream Teams United
25. Matt Combes - Missouri Department of Conservation
26. Matt Matheney - Missouri Department of Conservation, Science Branch
27. Nick Muenks - Geosyntec Consultants
28. Rebecca O’Hearn - Missouri Department of Conservation
29. Roger Walker - REGFORM
30. Theresa Hyland - Missouri Department of Conservation
31. Tim Rielly - Missouri DNR
32. Trish Rielly – Missouri DNR, 319 NPS Program



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**Meeting Purpose:** To offer an open forum welcoming discussion, questions, and comments on the proposed Draft 2022 303(d) Listing Methodology Document (LMD).

### **Meeting Summary:**

- The Department provided an overview of the recent changes and updates made to the 2022 303(d) LMD. Many of the edits were intended to enhance the overall quality of the document by correcting spelling and grammatical errors, as well as by simplifying language that improved clarity and resulted in a shorter, more concise LMD.
- The Department emphasized the two most substantial changes to the content of the LMD:
  - The assessment method for pH has been reverted back to binomial probability.
  - The Nutrient Implementation Plan in Appendix F has been removed and replaced with Missouri's Lake Numeric Nutrient Criteria (NNC).
- The Department was asked to clarify new language, which explained components of Missouri Water Quality Standards for downstream use protection.
- Department staff anticipate additional clarification will be requested and subsequently provided for assessing lakes with the NNC following the public comment period. For example, the NNC currently requires samples to be collected from the surface but does not specify a depth. Language will be updated to more clearly define the maximum allowable sample depth that would constitute a surface sample.
- The Department highlighted that no changes were made to the section regarding small candidate reference streams. Public comment requested that language be added to clarify when a small candidate reference stream assessment would be deemed inconclusive. The Department welcomes suggested language for further improving clarity.
- The Department clarified that no rules were changed as to how lakes will be assessed under the NNC. Staff indicated that relevant sections of the NNC were provided as an appendix to the LMD. Some tables not relevant to the LMD were not included, but the Department will provide updated versions of those tables upon request.

- The public inquired whether or not Lake NNC algal toxin thresholds would change based on EPA’s recommendations and the values used in other states. The Department indicated that the current algal toxin thresholds have thus far been protective of uses and further emphasized that current thresholds are based on state statute using cell counts and tied specifically to the protected use (recreation versus aquatic life). In response, the public requested that the Department at least update the language in the NNC to correct outdated sources.
- The Department addressed language regarding fish kills as a response assessment endpoint after the public expressed concerns about contradictory guidelines. The Department specified that the LMD distinguishes between “2-3 fish kills within the last 3 years” and “more than 1 fish kill in the last 10 years” in order to account for climatic and biological variability in lakes. The Department also clarified that a fish kill is only used in assessment purposes when it is associated with a eutrophication event. The public requested that the Department add language to more clearly express that a fish kill will not result in impairment unless it, or the occurrences of dissolved oxygen excursions, pH, algal blooms, or the toxins associated with algal blooms, have been associated with eutrophication. The Department welcomes suggested language for further improving clarity.
- The public comment period for the 2022 303(d) LMD ends on October 2, 2020.