



**Listing Methodology Document
Public Meeting No. 2**

Department of Natural Resources
1101 Riverside Drive
Jefferson City, MO
January 14, 2019

Meeting Purpose:

An open forum for comments, questions, and discussion on 303(d) Listing Methodology Document (LMD) topics.

Summary of the Topics Discussed:

- The Missouri Department of Natural Resources opened the Discussion with a review of topics discussed in the previous meeting:
 - Trend Analysis/Nutrient Lake Criteria
 - Appendix F of the 2022 LMD - Nutrient Implementation Plan
 - The Department is specifically looking at removing everything except pages 10 through 23 in Appendix F, Nutrient Implementation Plan (NIP). Pages 10 through 23 are specific to how lakes will be assessed against lake nutrient criteria. The rest of the NIP is not needed in the LMD. The Department is requesting comment on this proposal.
 - Dissolved Oxygen (DO) Criteria
 - The Department expressed an openness to adjusting methodologies for assessing DO with data sondes and seeks input regarding methodologies implemented in other states.
 - Chronic Ammonia Criteria
 - The Department is requesting comments on the amount of data needed and the procedure for assessing against the 30-day rolling average chronic ammonia criteria. (e.g., three or more samples collected over a 24-48 hour period)
- Jodi Whittier, PhD, with the University of Missouri (MU), gave a presentation outlining a systematic, data-based approach for identifying potential candidate headwater reference streams.
- The Department discussed the benefits of using such an approach, which is repeatable and more transparent to the public. The process was developed using open source R-code. This approach allows anyone to run the process themselves and verify reference stream selection.
- MU staff and Department staff emphasized that this approach is a good starting point for filtering potential reference candidates. Reference stream selection will be further refined through the use of aerial imagery, and field verification.

- The Department state that the goal of the approach is to identify streams currently having high biological integrity and to determine the highest level that is currently attainable in an ecoregion.
- A comment was made to provide GIS data layer of the reference stream list with the R-code.
- The Department encouraged public feedback, focusing on where this process may select reference streams that should not be included for consideration, or where it may not identify candidates that should be included for consideration.
- The public expressed interest in seeing how the R-code works to filter down reference stream candidates. The Department suggested a public meeting in which Department staff run the code and show maps for each step of the process.
- The Department will announce subsequent meetings through GovDelivery and the Department's 303(d) website.