

**Modeling and Regulatory Support Workgroup (MRSW) Meeting**  
July 6, 2021, 9:30 AM to 12:00 PM  
**Remote Access Only (see last page of agenda for instructions)**

Materials related to the meeting will be placed on the UNRBA [Meeting page](#) prior to the meeting.

**I. Opening Comments, Agenda Review/Revisions — Chair, Michelle Woolfolk**

**II. Falls Lake Research Presentation**

Item Summary (Forrest Westall and Rick Luettich): As a follow-up to the May 19, 2021 joint symposium hosted by the UNRBA and UNC Collaboratory, researchers funded through the Collaboratory to study Falls Lake will be invited to present their studies at either MRSW or PFC meetings in 2021 beginning with the July meeting. The first in the series will be Dr. Rick Luettich's study on water circulation and physical properties of Falls Lake. This work is important to the UNRBA lake modeling efforts that are currently underway. The [presentation](#) from the Symposium and the [interim report](#) are available on line at <https://nutrients.web.unc.edu/2021-falls-lake-symposium/> and <https://nutrients.web.unc.edu/resources/> respectively. The presentation during the MRSW meeting will provide additional time for technical presentation relative to the 10-minute version available online.

**III. MRSW Workgroup Reports**

Item Summary (Michelle Woolfolk): The MRSW established two workgroups to screen and select scenarios for evaluation with the models and to develop reporting formats to facilitate comparison of scenario output. Members of the Scenario Output and the Model Scenario Output Workgroups will provide status reports to the MRSW.

**IV. Plan for Statistical Model Development and Regulatory Options for the Chlorophyll-a Water Quality Standard**

Item Summary (Forrest Westall and Alix Matos): The UNRBA legal workgroup discussed the FY2021 scope of work with Barnes and Thornburg to provide legal support. The primary task for FY2021 is to begin consideration of a petition for rulemaking for Falls Lake (e.g., site specific criteria). This work will be partially supported by the UNRBA Statistical Model of Falls Lake. The models supporting the Re-examination of the Falls Nutrient Management Strategy will be discussed with an emphasis on the Statistical Model. To support this effort, the Technical Advisors Workgroup met in May to discuss contacts for local data and information that can be used to evaluate the designated uses of Falls Lake. The Technical Advisors Workgroup is comprised of MRSW and PFC members and has identified staff at their jurisdictions or other local experts to provide data and information. The preliminary list of contacts will be discussed during the meeting. The modeling team will be meeting virtually with these contacts in July and August. The statistical modeling team and the legal team are also coordinating with Dr. Marty Lebo who has been identified as a Subject Matter Expert for assistance to the UNRBA for evaluating site-specific criteria for Falls Lake. Evaluation of other State's site-specific standards for chlorophyll-a and nutrient-related standards is ongoing.

**V. Status of the DWR 2021 Falls Lake Status Report — Informational Item**

Item Summary (Forrest Westall and John Huisman): DWR has drafted its 5-year status report for Falls Lake which includes references to the summaries and findings from the [2019 UNRBA Monitoring Report](#). John Huisman provided an overview of the report and the PFC provided comments during the April 6, 2021 PFC meeting. DWR revised the draft report to respond to UNRBA comments and provided a revised draft for

review by the UNRBA. DWR plans to present this report to the water quality committee and full EMC at the July EMC meetings.

**VI. Modeling and Regulatory Support Status – WARMF Watershed and EFDC Lake**

Item Summary (Scott Sheeder and Alix Matos): The Watershed Analysis Risk Management Framework (WARMF) model for the Falls Lake watershed is being calibrated for stream flows and water quality. The modeling team will review the status of the model calibration and summarize the calibration efforts. The model output is being post-processed to identify the major sources of loading to the lake. The Falls Lake bathymetry data collected by the UNRBA is has been processed to develop the modeling segments for WARMF Lake. Hydrodynamic calibration of the Environmental Fluid Dynamics Code (EFDC) is ongoing and the water quality inputs are being set up to transition to water quality calibration. The modeling team is working on the watershed model calibration report and the EFDC model calibration report.

**Next MRSW or PFC Meeting: August 3, 2021, 9:30 AM to Noon**

**Next BOD Meeting: September 15, 2021, 9:30 AM to Noon**

**Remote Access Instructions for the MRSW and PFC Meetings**

**This meeting will open 10 minutes prior to the official meeting start time to allow for users to test equipment and ensure communication methods are functioning.**

Equipment Type	Access Information	Notes
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Computers without audio capabilities, or audio that is not working	<a href="#">Join Microsoft Teams Meeting</a> (888) 404-2493 Passcode: 371 817 961# <b>Please mute your phone unless you want to provide input.</b>	Follow instructions above. <b>Turn down your computer speakers, mute your computer microphone</b> , dial the number through your phone and enter the passcode.
Phone only	(888) 404-2493 Passcode: 371 817 961#	Dial the toll-free number and enter the passcode. <b>Please mute your phone unless you want to provide input.</b>

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- If you dial in through your phone, mute your microphone, and turn down your speakers to avoid feedback
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