



UNRBA Board Meeting November 17, 2021

**Remote Access Only
(see next slides)**



Remote Access for UNRBA Board Meetings

Equipment Type	Access Information	Notes
Computers with microphones and speakers	Join Microsoft Teams Meeting Please mute your microphone unless you want to provide input.	Press control and click on this link to bring up Microsoft Teams through the internet. You can view the screen share and communicate through your computer's speakers and microphone
Computers without audio capabilities, or audio that is not working	Join Microsoft Teams Meeting (888) 404-2493 Passcode: 981 714 577# Please mute your phone unless you want to provide input.	Follow instructions above Turn down your computer speakers, mute your computer microphone, and dial the toll-free number through your phone and enter the passcode
Phone only	(888) 404-2493 Passcode: 981 714 577# Please mute your phone unless you want to provide input.	Dial the toll-free number and enter the passcode

Remote Access Guidelines

- This meeting will open 30 minutes prior to the official meeting start time to allow users to **test equipment** and ensure communication methods are working
- If you dial in through your phone, mute your microphone and turn down your speakers to **avoid feedback**
- Unless you are speaking, please mute your computer or device microphone and phone microphone to **minimize background noise**
- UNRBA meetings are open meetings; however, for this remote access meeting, please **limit the discussion to UNRBA Board Members** to facilitate moving through action items

November 17, 2021 UNRBA Board Agenda

- **Opening—Sig Hutchinson, Chair**
- **Action Items – UNRBA Board**
 - Approval of September 15, 2021, Meeting Minutes
 - Approval of the Treasurer’s Report
 - Approval of 2022 Meeting Dates
 - Appointment of Officer Nominating Committee
 - Personnel Committee Activity
- **Status Reports and Informational Items**
 - Results of UNRBA Audit
 - Revisions to UNRBA Policies and Procedures Manual
 - Status of the UNRBA Stage I Existing Development Interim Alternative Implementation Approach (IAIA)
 - Status of Proposed Chlorophyll a Site-Specific Standards for High Rock Lake
 - Statistical Model Development and Regulatory Options for the Chlorophyll-a Water Quality Standard
 - Modeling and Regulatory Support (MRS) Status
 - Communications
 - Ongoing Discussions/Issues
- **Closing Comments**

Opening—Sig Hutchinson

Opening

- Introductions, Board member comments, and announcements
- Roll call for quorum
- Identification of any conflicts
- Review and approval of agenda

Action Items - UNRBA Board

**Approval of September 15, 2021
Meeting Minutes**

Approval of the Treasurer's Report

11/8/2021

Balance Forward: (per bank statement - 8/31/2021)	Checking	\$	1,204,654.55
	Savings		570,412.38
Debits:			
McGill Asso. (2021 Invs)		\$	37,446.72
Brown & Caldwell (MRS, FY 21, Invs)			64,428.77
Corporate Environmental Advisors (2021 Inv.)			340.00
Sauber Water Quality Consulting (2021 Invs)			5,460.00
Brown & Caldwell (MRS, FY 22, Invs)			104,428.71
Phthisic Consulting, Inc. (2021 Invs)			1,067.50
MFG Consulting, LLC (2021 Invs)			360.00
Total Debits		\$	213,531.70
Credits:			
Interest (checking)		\$	278.29
Interest (savings)			703.67
Bank Service Fee (stop payment)			15.00
Account Balance (per bank statement - 10/31/2021)	Checking	\$	991,386.14
	Savings		571,117.06
Total UNRBA Account Balance :		\$	1,562,503.20

Outstanding invoices/deposits in process since the close of bank statement (10/31/2021):

Debits:			
McGill Asso. (October, 2021 Inv)		\$	14,723.74
Brown & Caldwell (MRS, FY 21, October, 2021 Inv)			-
Brown & Caldwell (MRS, FY 22, October, 2021 Inv)			-
MFG Consulting, LLC (October, 2021 Inv)			306.00
Sauber Water Quality Consulting (October 2021 Inv)			2,940.00
Corporate Environmental Advisors (August 2021 Inv.)			271.25
JMW Bookkeeping (2020 990 Tax Return)			630.00
Phthisic Consulting, Inc. (October, 2021 Inv)			420.00
Credits:			
Transfer from Savings to Checking		\$	-
Current Account Balances:	Checking		972,095.15
	Savings		571,117.06
Total UNRBA Account Balance :		\$	1,543,212.21

Approval of 2022 Meeting Dates

Board Meeting Dates:

January 19, 2022

March 16, 2022

May 18, 2022

June 15, 2022

September 21, 2022

November 16, 2022

Path Forward Committee:

January 4, 2022

February 1, 2022

March 1, 2022

April 5, 2022,

May 3, 2022

June 7, 2022

July 5, 2022

August 2, 2022

September 6, 2022

October 4, 2022

November 1, 2022

December 6, 2022

Appointment of Officer Nominating Committee

Personnel Committee:

The Personnel Committee will meet in December to assess this year's activities and review the work provided under the Executive Director Services Contract

**No Action Items for the
Compliance Group Committee
(CGC)**

Status Reports and Informational Items

Results of the UNRBA Audit

Results of the UNRBA Audit

- The UNRBA Bylaws require an independent audit once every three years
- The audit was conducted by Winston, Williams, Creech, Evans & Co., LLP.
- The results of the successful [audit](#) will be presented by Carleen Evans at the November 17, 2021, Board Meeting

Revisions to UNRBA Policies and Procedures Manual

Revisions to UNRBA Policies and Procedures Manual

- As part of the audit review process, UNRBA Board members suggested revisions to the UNRBA Policies and Procedures Manual
 - Whistleblower protections
 - Record keeping requirements
- The Board discussed these suggestions during the September 15, 2021, Board meeting.
- A status of the revisions will be made during the November Board meeting

Status of the UNRBA Stage I Existing Development Interim Alternative Implementation Approach (IAIA)

Status of the IAIA Program

- A reporting tool has been developed to assist the IAIA participants in tracking eligible projects and compliance with the Program
- The draft tool has been reviewed by the IAIA Reporting Workgroup:
 - Sandi Wilbur and Lance Fontaine, City of Durham
 - Terry Hackett, Town of Hillsborough
 - John Huisman, DWR
- The PFC discussed the tool at their November meeting; DWR provided some additional suggestions for clarity that have been incorporated
- Action for approving the reporting template will be brought forward at the January 19, 2022, meeting
- The “[About Us](#)” page on the www.unrba.org website has been updated to include a copy of the revised Bylaws including the UNRBA IAIA Program Document.

Status of Proposed Chlorophyll- a Site Specific Standards for High Rock Lake

Status of Proposed Chlorophyll-a Site Specific Standards for High Rock Lake

- In July, the EMC voted to send the proposed High Rock Lake Site Specific Water Quality Standard out to public hearing.
 - The official public notice was issued in the September 1st edition of the NC Register.
 - The hearing was held virtually on October 28th
 - Comment period ended November 15th
- Proposal is precedent setting for site specific chlorophyll-a criteria in NC lakes and reservoirs and will likely affect the process for Falls Lake site specific standards.
- At the September 15, 2021, Board meeting, the Board reaffirmed authorization of the Executive Director to comment on this rule-making precedent
- UNRBA comments were submitted on October 26, 2021

Statistical Model Development and Regulatory Options for the Chlorophyll-a Water Quality Standard

Statistical Model Development and Regulatory Options for the Chlorophyll-a Water Quality Standard

- The UNRBA is developing a statistical/Bayesian model to link the water quality in Falls Lake to its designated uses
- The Technical Advisors Workgroup for the legal group, MRSW, and PFC have identified local subject matter experts to provide data and information regarding satisfaction with the designated uses of Falls Lake
- The modeling team has been conducting virtual meetings with these experts to understand the types of data and information that are tracked with respect to designated uses to inform development of the statistical/Bayesian modeling
- Development of a site-specific chlorophyll-a standard represents an important consideration for a revised Falls Lake management strategy and is linked to this modeling effort
- Subject matter expert, Dr. Marty Lebo, was approved by the Board in June and has begun his work in support of this effort.

Modeling and Regulatory Support for the Re-examination of Stage II

Watershed Modeling Status

- Watershed Analysis Risk Management Framework (WARMF) has been calibrated for stream flow, temperature, sediment
- Approved by the MRSW and the PFC for building lake models and developing the re-examination strategy
- Subject matter experts and third-party reviewers are currently reviewing the load allocations from the model
- Requests for additional information are being incorporated into watershed modeling report and modeling status updates at MRSW, PFC, and Board meetings
 - Sources of loading to Falls Lake
 - Watershed modeling report and model files
 - Discussions of uncertainty and model bias

Lake Modeling Status

- Output from the watershed model has been approved to support development of two lake models
 - WARMF Lake
 - Environmental Fluid Dynamics Code (EFDC)
- Modeling team is reaching out to Collaboratory-funded researchers to review modeling as it progresses
- Model documentation is under development
- The PFC, MRSW, and the scenario screening workgroup is in the process of selecting scenarios for evaluation with the models; potential list to be presented to the Board in the Fall

Status of Scenario Screening Workgroup

- The Scenario Screening Workgroup is ranking potential scenarios to recommend to the MRSW and PFC and Board for evaluation

Communications

Continued Coordination with the UNC Collaboratory

- Collaboratory-funded researchers have been presenting their studies to the UNRBA PFC and MRSW
 - July - Dr. Rick Luettich presented his study on water circulation and physical properties of Falls Lake.
 - August - Dr. Nathan Hall presented his study on nitrogen fixation and denitrification in Falls Lake; he also presented Dr. Mike Piehler's study on quantifying nutrient processing in Falls Lake.
 - September - Dr. Brent McKee presented his study of suspended sediment inputs and associated organic carbon to Falls Lake, and the amount of sediment mixing and accumulation impacting nutrient fluxes and carbon Falls Lake.
 - October - Dr. Michael O'Driscoll presented his on estimating the influence of onsite wastewater treatment systems on nutrient loading to Falls Lake Watershed
- The UNRBA Modeling Team has been and will continue to reach out to the Falls Lake researchers as the modeling progresses to ensure the best science and available information is incorporated

Upcoming Stakeholder Workshops/Conferences

- The UNRBA is planning a technical stakeholders' workshop for Spring 2022 to discuss the status of the modeling efforts.
- Planning has also begun for a joint symposium with the Collaboratory to be held in Spring 2022.
- We are also working with the Collaboratory-funded researchers to develop a proposed session on Falls Lake at the upcoming Water Resources Research Institute's Annual Meeting in March 2022.

Meetings with DEQ and DWR

- DEQ leadership meeting tomorrow
 - Provide an overview of technical work
 - Monitoring
 - Modeling
 - Collaboratory research and coordination
- DWR planning and modeling groups
 - Review of technical work
 - Monitoring
 - Modeling
 - Collaboratory research and coordination
 - Approach for re-examination

External Stakeholder Communication Needs

- Objectives continue to be reviewed relative to communication opportunities with stakeholders.
- To support the re-examination process and achieve broad support for the UNRBA recommendations, additional outreach to external stakeholders including DWR, DEQ, and other interested stakeholders is needed;
- Coordination with local leaders to convey messages and facilitate outreach will be necessary.
- This effort will require the support of the UNRBA membership, staff and Board representatives.
- As a reminder, the [Infographic](#) and [Fast Facts](#) are available online <https://upperneuse.org/resource-library>
- An [Overview of the Work of the UNRBA](#) provided to the UNC Collaboratory for inclusion in their reporting is available online <https://nutrients.web.unc.edu/resources/>

Ongoing Discussions/Issues

Ongoing Items

- Intensive workgroup activity and management of expectations and resources—A lot to do between now and recommendations in 2023
- Ongoing DEQ/DWR Items
 - MOA
 - Neuse Watershed Model Information Session – Delivery Factors for WWTP

Closing Comments

**The next UNRBA Board Meeting is
Scheduled for January 19, 2022
from 9:30 AM to Noon
Currently Planned as Virtual**

**This is the UNRBA's Annual Meeting as
prescribed by the Bylaws; officer elections will
occur during this meeting.**