

UNRBA Board Meeting September 21, 2016

Location: Butner Town
Hall

Pam Hemminger, Chair

Introductions and Announcements

Administrative Item: Approval of June 15, 2016 Meeting Minutes

- Review of Draft Minutes
- Comments and Corrections
- Board Vote

Regulatory and Legislative Update—Sarah Collins, NC League of Municipalities

Actions Items

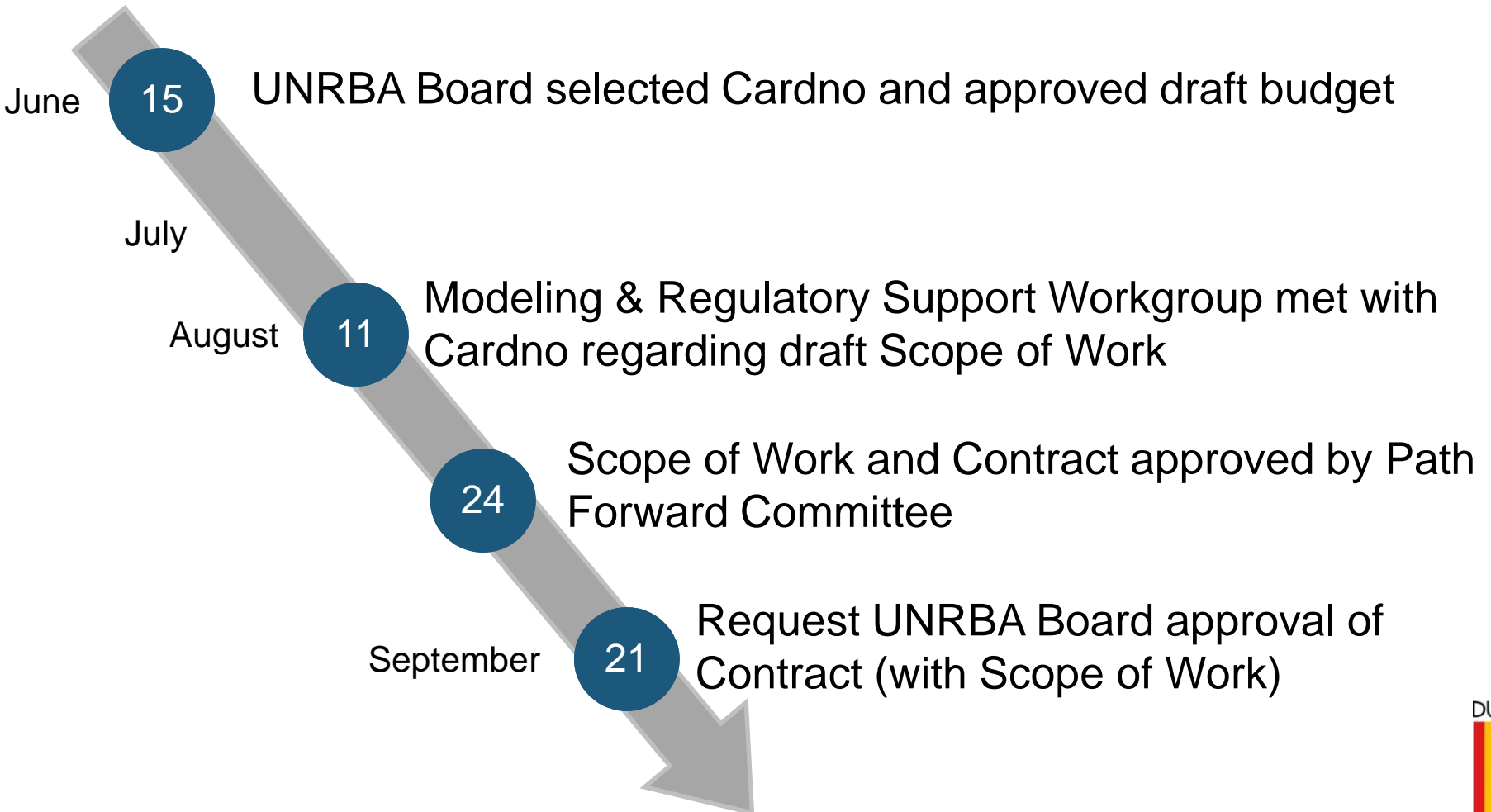
**Review of the UNBA's 2016-
2017 Modeling and Regulatory
Support (MRS) Contract and
Scope of Work—Michelle
Woolfolk, MRS Workgroup**



UNRBA Modeling & Regulatory Support Contract

Michelle Woolfolk,
UNRBA Board Meeting, 21 September 2016

Modeling & Regulatory Support Contract Development





**Principal-in-Charge
and QA Officer**
Paul Leonard¹

Project Manager
Alix Matos, PE¹

**Cost Benefit
Analyses**
Kelley Myers, PhD¹
Susan Burke, PhD¹

**Reservoir Nutrient
Response Modeling**

**Watershed Nutrient
Modeling**

**Regulatory
Support**
Alix Matos, PE¹
Doug Durbin, PhD⁴
Jan Mandrup-Poulson²
Legal Counsel

**Additional Technical
Experts**
Bill Walker, PhD⁴
Melissa Kenney, PhD⁴
David Reckhow, PhD⁴
Alexa Obolensky, PhD⁴
Chris Mickle, PMP¹
David Van Senden, PhD¹

Mechanistic
Chris Wallen, PG²
Andy Stoddard, PhD²
Silong Lu, PhD, PE.D.WRE²

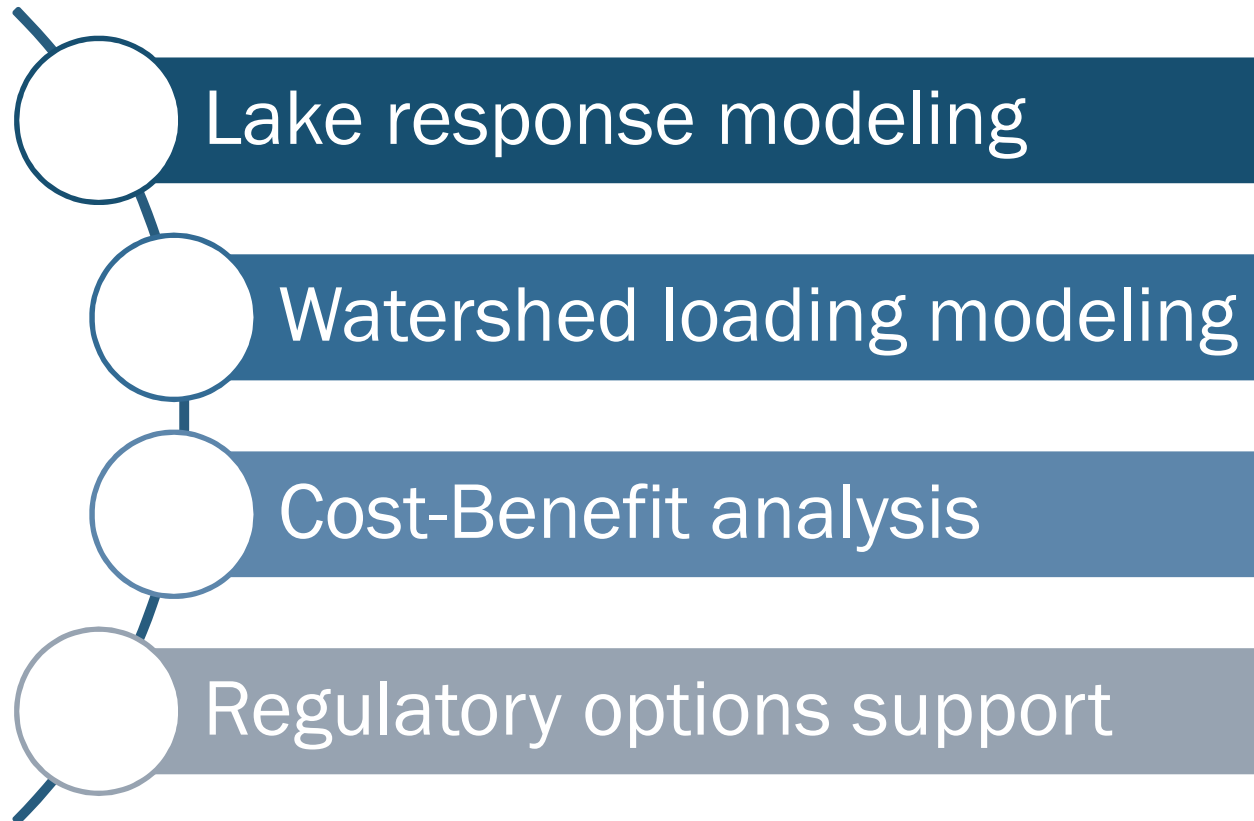
**Empirical/
Bayesian**
Matt Van De Bogert, PhD¹
Ken Reckhow, PhD⁴
Elizabeth Albright, PhD⁴
Lauren Handsel, EIT¹

Mechanistic
Katie Van Werkhoven, PhD²
Scott Sheeder³
Joel Herr, PE³

LEGEND
1 Cardno, Inc.
2 Dynamic Solutions, LLC
3 Systech Water Resources, Inc.
4 Independent Consultants

Bolded names indicate Project Oversight and Task Management

RFQ Service areas



Scope of Work

- Task 1: Develop the Modeling QAPP
- Task 2: Develop a two-year work plan for modeling & cost-benefit analysis
- Placeholders for
 - Task 3 (Cost Benefit Analysis) and
 - Task 4 (Regulatory Options Support)
- Task 5: Project Management and General Meetings

Modeling & Regulatory Support Kickoff Meeting September 28, 2016



Invited Stakeholders

- UNRBA members
- Environmental groups, universities, legislators
- State and Federal agencies
 - Division of Water Resources, Department of Agriculture, Corrections, Camp Butner, DOT
- Agriculture
 - Soil & Water Conservation Districts, Farm Bureau
- Home Builders Associations, Chambers of Commerce

Comments from Cardno—Paul Leonard

Recommendation from the
MRS Workgroup and PFC
Michelle Woolfolk, Lindsey
Mize, Kenny Waldroup

Executive Director Recommendation

**Scheduled Kickoff Meeting,
September 28, 2016, 1 to 4 PM,
Butner, Facilitator Funding**

Recommendation:

Authorize Executive Director to use of up to \$3,000 from the UNRBA Contingency Fund to provide Facilitator Services for the Modeling and Regulatory Support Kickoff Meeting



Nutrient Credits Project Status Update—Alix Matos



UNRBA
Nutrient Credit
Development
Project
BOD Meeting
September 2016



September 21, 2016

Task 1 – Credit Development



Effects of State Stormwater Program on UNRBA Project

- The Division of Energy, Mineral and Land Resources (DEMLR) began a process to revise the NC Best Management Practices (BMP) Manual
- Includes revised nutrient crediting for stormwater control measures including three practices being developed by the UNRBA
 - Bioretention design variants
 - Level spreader filter strip design variants
 - Infiltration devices (over and under sizing)
- The UNRBA has submitted final practice standard documents to DEQ for these three practices



Effects of State Stormwater Program on UNRBA Project, continued

- DEMRL will incorporate our work into the revised manual to be released for public comment on September 30th with a targeted implementation date of January 1, 2017
- Crediting methods for these measures are applicable to existing development and new development
- All Stormwater Control Measures will incorporate an over / under sizing approach
- Additional practices previously identified by the UNRBA as high priority will also be included in the revised manual
 - Permeable pavement design variants
 - Grassed swales with check dams



Soil Improvement

- Final practice standard was approved by the Path Forward Committee for submission to DEQ on August 24th pending additional revisions regarding credit life and verification
- Modified text was distributed to the PFC and DEQ for final review
- Practice standard was submitted to DEQ on September 14th
- DEQ is reviewing the final draft prior to releasing for public comment
- DEQ may revise language regarding credit life that we will continue to track during and after public comment



Livestock Exclusion

- Draft practice standard released for review by the PFC, Nutrient Scientific Advisory Board (NSAB), and Watershed Oversight Committee (WOC) of August 16th
- Received comments from the WOC and NSAB
- Will draft preliminary responses to comments for discussion with DWR and the PFC
- Finalize with practice standard for final PFC review
- Following PFC approval at the October PFC meeting, send to DWR as final document for public comment



Land Conservation

- Agency rejected nutrient credits for land conservation in a letter dated July 8th from Jay Zimmerman
- Drafted practice standard document for review by the PFC for formal submittal



Buffer Restoration in Developed Areas

- We have met with the agency several times to discuss methods and constraints with existing buffer rules
- Revised methodology in June based on feedback from DWR
- Submitted a preliminary, partial draft practice standard to DWR on July 8th; expecting comments back in mid September
- Finalize a draft for review by PFC and NSAB



Elimination of Illegal Discharges

- Drafted practice standard based primarily on the Chesapeake Bay framework
- Data incorporates local data when available (City of Durham mobile car wash study and HVAC coil cleaning study)
- Submitted a preliminary draft practice standard to DWR on August 16th
- Anticipating comments back in to mid September

Task 2 – Tool Development



UNRBA Credit Tool

- DWR has generated a 4th version of JFSAT that needs to be coded into the UNRBA Credit Tool
- We will begin coding in non-structural measures as practices move through the approval process:
 - Livestock exclusion, buffer restoration, and removal of illicit discharges from storm systems or surface waters
- Task Force call on September 20th to discuss reporting requirements with DWR



CENTER FOR
WATERSHED
PROTECTION



Monitoring Program Status Update—Matt Van De Bogert

General Assembly's Nutrient Strategy Evaluation--UNC-CH

Meeting with Brad Ives Associate Vice
Chancellor for Campus Enterprises
& Chief Sustainability Officer, August 23rd

Information Items and Reports:

PFC Report— Meetings, June 22nd,
July 27th, August 24th and Upcoming
September 28th

Lindsay Mize and Kenny Waldroup

Treasurer's Report—Jimmy Clayton

- All Dues and Fees for FY 2017 have been submitted and deposited
- The first reimbursement from DWR's additional \$20,000 grant for the Nutrient Credits Project has been received
- Bank account balances

**Upper Neuse River Basin Association, Inc.
Treasurer's Report**

Date: 9/20/2016

Balance Forward: (per bank statement - 7/26/16)	Checking	\$	141,641.91
	Savings		503,201.27
Debits:		\$	75,497.22
Cardno (June 16 Inv, MDP FY 16)			4,957.88
Cardno (June 16 Inv, NCDP *)			-
McGill Asso. (July 16 Inv)			200.00
MFG Consulting, LLC (June & July 16 Inv)			268.05
Phthisic Consulting Inc. (July 16 Inv)			2,240.00
Sauber Water Consulting (July 16 Inv)			1.00
Bank Charges (check fee & maintenance fee)			<u>1.00</u>
Total Debits		\$	83,164.15
Credits:		\$	36.80
Interest (checking)			96.25
Interest (savings)			-
Transfer from Savings to Checking			377,943.03
Deposit to Checking (Membership fees)			
Account Balance (per bank statement -8/23/16)	Checking	\$	436,457.59
	Savings		<u>503,297.52</u>
Total UNRBA Account Balance :		\$	<u>939,755.11</u>

Outstanding invoices/deposits in process since the close of bank statement (8/23/16):

Debits:		\$	12,460.13
McGill Asso. (July & Aug 16 Inv)			15,968.82
Cardno (July 16 Inv, MDP FY 17)			1,019.00
Gret American Insurance (Officer & Director)			4,034.44
Cardno (July 16 Inv, NCDP*)			125.00
MFG Consulting, LLC (Aug 16 Inv)			2,030.00
Sauber Water Consulting (Aug 16 Inv)			1,195.57
Phthisic Consulting Inc. (Aug 16 Inv)			569.00
Penn National Insurance (Liability)			
Credits:		\$	-
Transfer to Checking from Savings			16,210.05
205J Grant Reimbursement			467,928.38
FY 2016-17 Membership Fees			
Current Account Balances:	Checking	\$	866,984.01
	Savings		<u>503,297.52</u>
Total UNRBA Account Balance :		\$	<u>1,370,281.53</u>

* Nutrient Credit Development Project

Executive Director Report

Executive Director Report

- Follow-up with DWR on 303(d) Process and Segmentation of Lake for Use-Support Determinations, Meeting August 25th—Awaiting Feedback
- UNRBA Policy Documents/Audit Process—Legal Group
- Legislative Action and the Rules Review Process—Impacts on the Stage I Existing Development Schedule
- EMC Water Quality Committee and EMC Meetings August 7th and 8th
- NSAB Meetings, August 5th and September 9th
- Watershed Oversight Committee Meeting August 16th
- Follow-up Meeting of Triangle Delegation to One-Water Summit August 3rd

Next Scheduled Board Meeting:
November 16, 2016, Butner Town
Hall, Beginning at 9:30 AM

Closing Comments