

# UNRBA Board Meeting November 15, 2017

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Location: Butner Town  
Hall

# **Sig Hutchinson, Chair**

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**Introductions and Announcements**

**Roll Call to Confirm Quorum**

**Identification of any Conflict of Interest Issues**

# Audit Report

Ms. Carleen Evans

Winston, Williams, Creech,  
Evans & Co., LLP

# **Action Items:**

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**Approval of September 20, 2017  
Meeting Minutes**

# **Action Items (continued):**

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Treasurer's Report — Jimmy Clayton

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

**Date: 11/14/2017**

<b>Balance Forward: (per bank statement - 9/26/17)</b>	Checking	\$	845,854.00
	Savings		504,673.61

<b>Debits:</b>			
Brown & Caldwell (MDP Sept 17 Inv)			-
Cardno (Aug 17 Inv, MRS FY 17)			5,592.00
MFG Consulting, LLC (Sept 17 Inv)			125.00
Phthisic Consulting Inc. (July & Aug 17 Invs)			178.75
Sauber Water Consulting (Aug & Sept 17 Invs)			4,060.00
McGill Asso. (Aug & Spt 17 Invs)			29,186.70
Great American Insurance			1,024.00
Bank Charges (check fee & maintenance fee)			1.00
<b>Total Debits</b>		<b>\$</b>	<b>40,167.45</b>

<b>Credits:</b>			
Interest (checking)		\$	95.03
Interest (savings)			96.80
FY 2017-18 Membership Fees			-

<b>Account Balance (per bank statement -10/24/17)</b>	Checking	\$	805,781.58
	Savings		504,770.41
<b>Total UNRBA Account Balance :</b>		<b>\$</b>	<b><u>1,310,551.99</u></b>

**Outstanding invoices/deposits in process since the close of bank statement (10/24/17):**

<b>Debits:</b>			
McGill Asso. (October 17 Inv)		\$	-
Brown & Caldwell (October 17 Inv.)			7,003.95
Brown & Caldwell (MDP, Sept. & Oct. 17 Inv.)			53,204.34
Cardno (Sept 17 Inv, MRS FY 17)			3,381.00
Dispute Settlement Center (MRS)			1,528.65
JMW Bookkeeping (990 Tax Prep)			600.00
MFG Consulting, LLC (October 17 Inv)			100.00
Sauber Water Consulting (October 17 Inv)			1,330.00
Phthisic Consulting Inc. (October 17 Inv)			1,386.54

<b>Credits:</b>			
FY 2017-18 Membership Fees		\$	-

<b>Current Account Balances:</b>	Checking	\$	737,247.10
	Savings		504,770.41
<b>Total UNRBA Account Balance :</b>		<b>\$</b>	<b><u>1,242,017.51</u></b>

# **Action Items (Continued): Contracts for Approval**

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Approval of RFQ Issuance for  
Communications Support

# From Draft Communications RFQ

Table 1 Procurement Schedule

<b>Item</b>	<b>Date</b>
RFQ release date	November 17, 2017
Deadline for submittal of questions	December 4, 2017
Answers to questions posted on UNRBA website	December 11, 2017
Due date for qualifications packages	January 8, 2018
Shortlisted teams notified	January 12, 2018
Shortlist interviews held in Butner, NC*	January 17, 2018
Selected team notified	February 1, 2018

\*Proposers' key personnel should hold January 17, 2018 for interviews.



# Meeting Schedule for Board in 2018

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- January 24 or 31, 2018
- March 21, 2018
- May 16, 2018
- June 20, 2018
- September 19, 2018
- November 14 or 28, 2018

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# Appointment of a Nominating Committee

# Results of the Algae Turf Scrubber Project

Michelle Woolfolk, City of  
Durham

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# Information Items and Reports:

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# Update of DWR Activities Related to UNRBA Interests

John Huisman, DWR



## **DWR Activities Update**

*November 15, 2017  
UNRBA BOD Meeting*

*Department of Environmental Quality*





## 02B Nutrient Rulemaking Process Moving Forward (Neuse, Tar-Pamlico, Randleman Lake Rules)

October 18, 2017	Stakeholder Meeting in Wilson, County (Currently Reviewing Comments)
November 8, 2017	Information Item Update to WQC
January 10, 2018	Request Permission Begin Development of Fiscal Note
May - July 2018	Present Draft Rules & Fiscal Note to WQC
July - September 2018	Request Permission from EMC to Proceed to Public Comment - 60 Day Public Comment, Public Hearings, Hearing Officers
Early 2019	EMC Adoption of Rules / RRC Approval

**Note: 02B WQ Standards Rules Also Going to January WQC**



- Existing Development Model Program
  - Stage I Jurisdictional Loads
  - Trading Framework
  - Implementation Guidance
  - Nutrient Credit Practices Catalog
- Opportunity for input moving forward
- May 2018 – Present to EMC for Approval





- Trading Framework
  - Addressing comments, next draft ~ January 2018
- Stage I Jurisdictional Loads
  - Begun meeting w/ local governments
  - Discuss work done, methods, data availability, challenges
  - Met w/ Granville, Person, Stem, Butner, Creedmoor
  - Next: Durham, Hillsborough, Orange County
- Implementation Guidance
  - Plans to update current language



- Nutrient Catalog
  - Part of Model Program – Creditable Practices
  - Includes SCMs, UNRBA Practices, DWR Practices

In Progress – To Be Completed by May 2018	Additional Practices
Buffer Improvement in Developed Areas	Stream Restoration
Forest Preservation	Urban Reforestation
Storm Drain Cleanout	Urban Tree Canopy
Wastewater Regionalization / Overtreatment	Cropland Conversion
Street Sweeping	Bioswales
Remedy Malfunctioning Septic Systems	Rural Buffer Restoration
Remedy Discharging Sand filters	Regenerative Conveyance

# *QUESTIONS*

**John Huisman**  
Environmental Program Consultant  
N.C. Dept. Of Environmental Quality  
Division of Water Resources  
<https://deq.nc.gov/nps>

919-807-6436  
john.huisman@ncdenr.gov

*Department of Environmental Quality*



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# Planning Considerations, FY 2018-2019 Budget

# FY 2017-2018 Budget Discussion

- Table of Fees is for Discussion Purposes only
- Projected Fees Based on Flow and Jurisdictional Information from Current FY
- Assumes Current Monitoring and Modeling Program Funding stays at \$800,000
- Based on no Change to Executive Director Services
- No Specific Funding Included for Legal Support
- Current Funding for Administrative Items
- No funding for Audit Services (Audit Every 3 Years)

# FY 2017-2018 Budget Discussion (Continued)

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## Projection Includes:

- ❑ \$40,000 for Communications Support (\$10K Increase)
- ❑ Additional \$3,500 for Website and Data Access/Use Improvements

# Prospective UNRBA Membership Fees for FY 2018-19

**\$ 1,029,100.00** Projected Revenue

Date: 11/15/17

Member	Base Rate (10%)	2016 Raw Water Demands (50%)			Jurisdiction's Land Area (40%)			FY 2018-19 Fees (Prospective)	FY 2017-18 Fees (Current)
		2016 Average Raw Water Demand (MGD)	\$ 514,550.00 (%)	Member's Sub-Share Cost	Jurisdiction's Acres Within Watershed	\$ 411,640.00 (%)	Member's Sub-Share Cost	Total Membership Fees	Total Membership Fees
Town of Butler	\$ 7,350.71	NA			8,822	1.8	\$ 7,392.69	\$ 14,743.40	\$14,661.77
City of Creedmoor	7,350.71	NA			3,226	0.7	2,703.33	10,054.04	10,212.90
City of Durham	7,350.71	26.630	37.3	\$ 191,846.81	31,113	6.3	26,072.17	225,269.69	230,337.43
Durham County	7,350.71	NA			99,663	20.3	83,515.93	90,866.64	89,935.85
Franklin County	7,350.71	NA			5,284	1.1	4,427.90	11,778.61	11,719.70
Granville County	7,350.71	NA			72,019	14.7	60,350.72	67,701.43	67,009.61
Town of Hillsborough	7,350.71	1.337	1.9	9,631.96	3,713	0.8	3,111.43	20,094.10	20,551.15
Orange County	7,350.71	NA			122,067	24.8	102,290.10	109,640.81	108,531.30
Person County	7,350.71	NA			81,161	16.5	68,011.56	75,362.27	76,420.43
City of Raleigh	7,350.71	40.510	56.7	291,840.56	1,118	0.2	936.87	300,128.14	292,388.01
SGWASA	7,350.71	2.947	4.1	21,230.66	NA		-	28,581.37	28,797.51
Town of Stem	7,350.71	NA			506	0.1	424.02	7,774.73	7,746.48
Wake County	7,350.71	NA			61,630	12.5	51,644.91	58,995.62	59,209.53
Town of Wake Forest	7,350.71	NA			905	0.2	758.37	8,109.08	8,078.28
<b>Total</b>	<b>\$ 102,909.94</b>	<b>71.424</b>	<b>100</b>	<b>\$ 514,549.99</b>	<b>491,227</b>	<b>100</b>	<b>\$ 411,640.00</b>	<b>\$ 1,029,099.93</b>	<b>\$ 1,025,599.95</b>

**Notes:**

\* Cost Allocation = 10% by uniform participation; 50% by raw water demands; and 40% by jurisdictional land area in UNRBA.

\*\* 2016 annual daily average raw water demand reported by user systems.

\*\*\* Jurisdictional areas obtained from members, January, 2016. Percentages are calculated based on total basin acres. The towns of Mebane and Franklinton have a few acres but not enough to affect percentages. Municipal acreages do NOT include ETJs (although some municipalities may have some planning jurisdiction in ETJs, they do not collect tax revenue from these properties). SGWASA- and OAWS-owned acreages are included in their respective jurisdictional areas and are not calculated separately.

# Update on UNRBA Involvement in 2B Rules Readoption Process

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- UNRBA Comments Filed:  
11-13-2017
- DWR/EMC Process
- Chlorophyll a Standard
- Neuse Buffer Rule Revisions
- Nutrient Trading Framework



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Upcoming Legislative Session:

UNRBA Requested Changes to  
Session Law 2016-94 and GS  
143-214.26

# UNRBA Requested Changes to Session Law 2016-94

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- Initially Filed with President Pro Temp of the Senate
- Incorporated into Senate Bill 434, Passed Senate
- Additional Revisions Proposed
- Coordination with UNC Collaboratory Schedule

# Major Areas of Concern in Current Law

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- Responded to Concerns About Pathway to Stage I Existing Development Compliance
- Dealt with Process for Model Program Adoption
- Coordinates UNRBA and UNC Processes

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# Modeling and Regulatory Support Update—Alix Matos

UNRBA Board Meeting

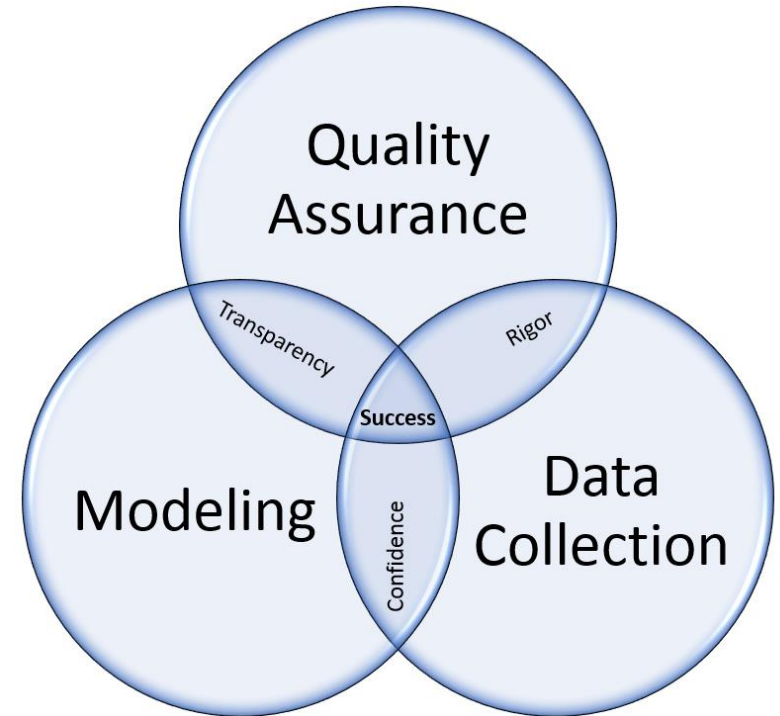
# MRS Project Status Update

November 15, 2017



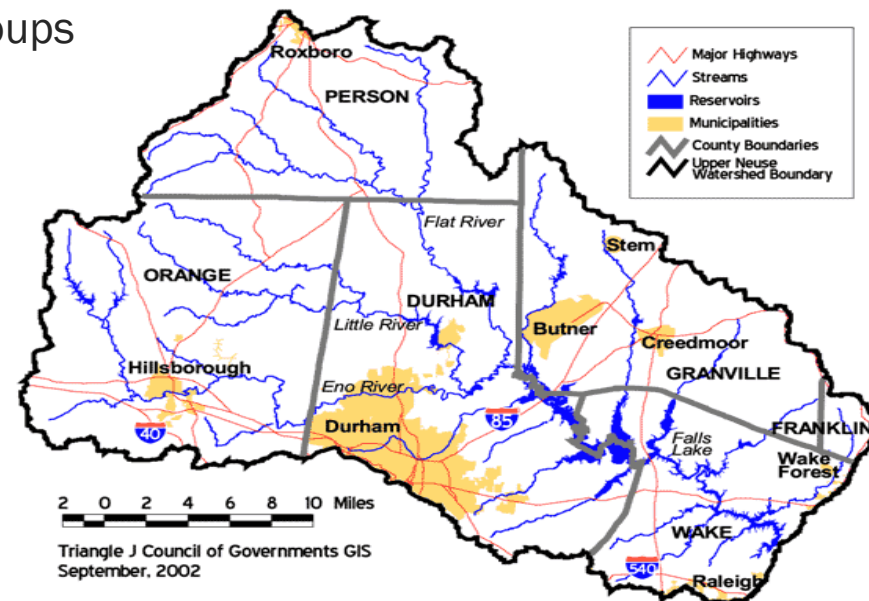
# Status of the Modeling Quality Assurance Project Plan (QAPP)

- MRSW reviewed September draft
  - Addressed latest round of comments from DWR
  - Updated contract team (Brown and Caldwell, Dynamic Solutions, and Systech Water Resources)
- Contractors and Forrest have provided responses to MRSW comments received in October
- MRSW will discuss proposed revisions during a conference call scheduled for November 17<sup>th</sup>



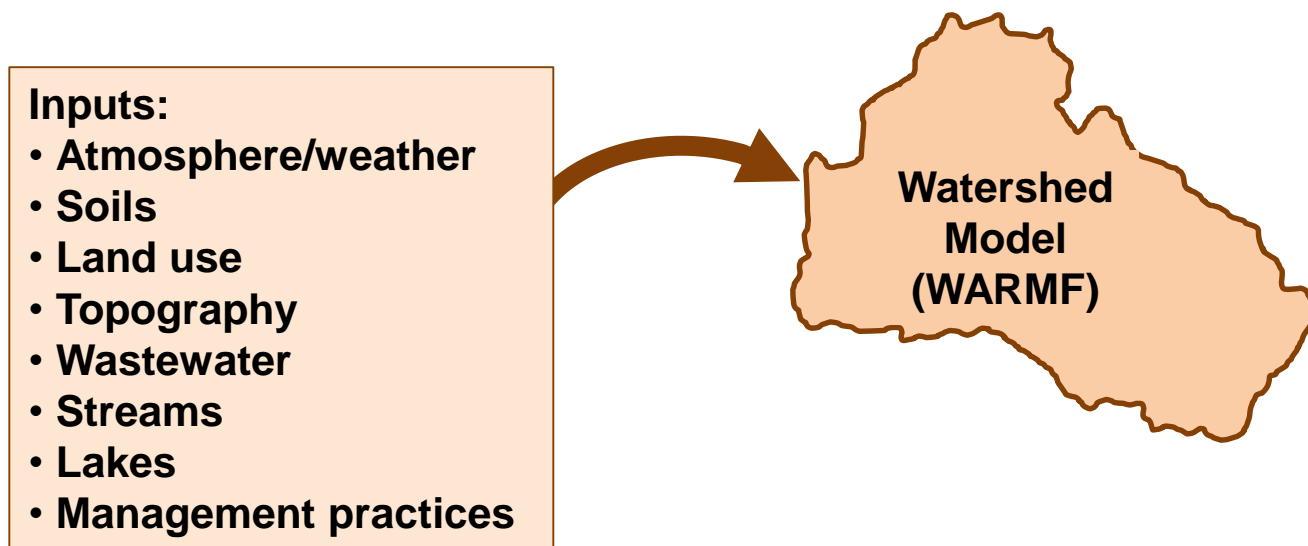
# Year 2 Stakeholder Kickoff Meeting

- Meeting was held at the Butner Town Hall on October 25<sup>th</sup>
- Over 50 meeting participants representing
  - UNRBA Member Organizations
  - Agriculture
    - Department of Agriculture
    - Farm Bureau
    - Local Soil and Water Conservation Groups
  - Environmental Groups
    - American Rivers
    - River Guardian Foundation
  - Agencies
    - NCDOT
    - NCDEQ
    - USGS
    - NC Wildlife Resources Commission
  - UNC Collaboratory



# Distribution of Data Acquisition Form

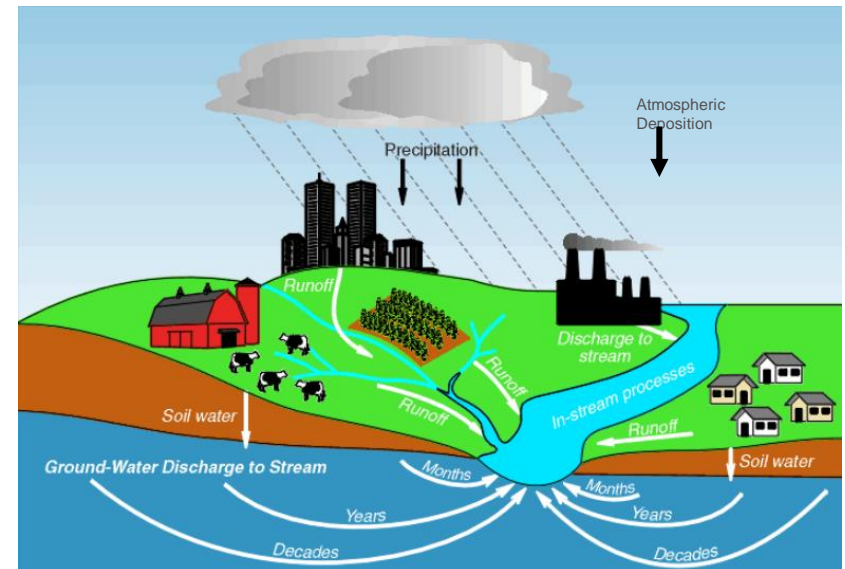
- Prior to the meeting, modeling team distributed a Data Acquisition Form
  - Lists types of data being requested by UNRBA
  - Facilitates assignment of data contacts
  - Provides information to the Modeling Team on the type and quantity of data to expect
  - Facilitates tracking of data received and follow-ups





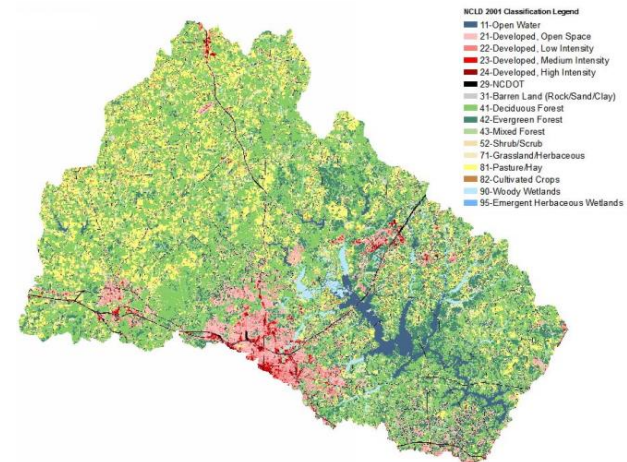
# Meeting Presentations

- Opened with an overview of the UNRBA
  - Monitoring and Modeling Projects
  - Challenges
  - Goals
- Described the watershed model selected for the reexamination
  - Watershed Analysis Risk Management Framework (WARMF)
  - How the model works
  - What data is required



# Small Group Questions

- What obstacles do you anticipate to submit data sets to the UNRBA in a timely manner?
- What advice can people at the table provide that will help the others overcome obstacles?
- What help would you like from UNRBA or others?
- What are the concerns about use of the data?
- Do you have any lessons learned from similar projects?



# Small Group Reports

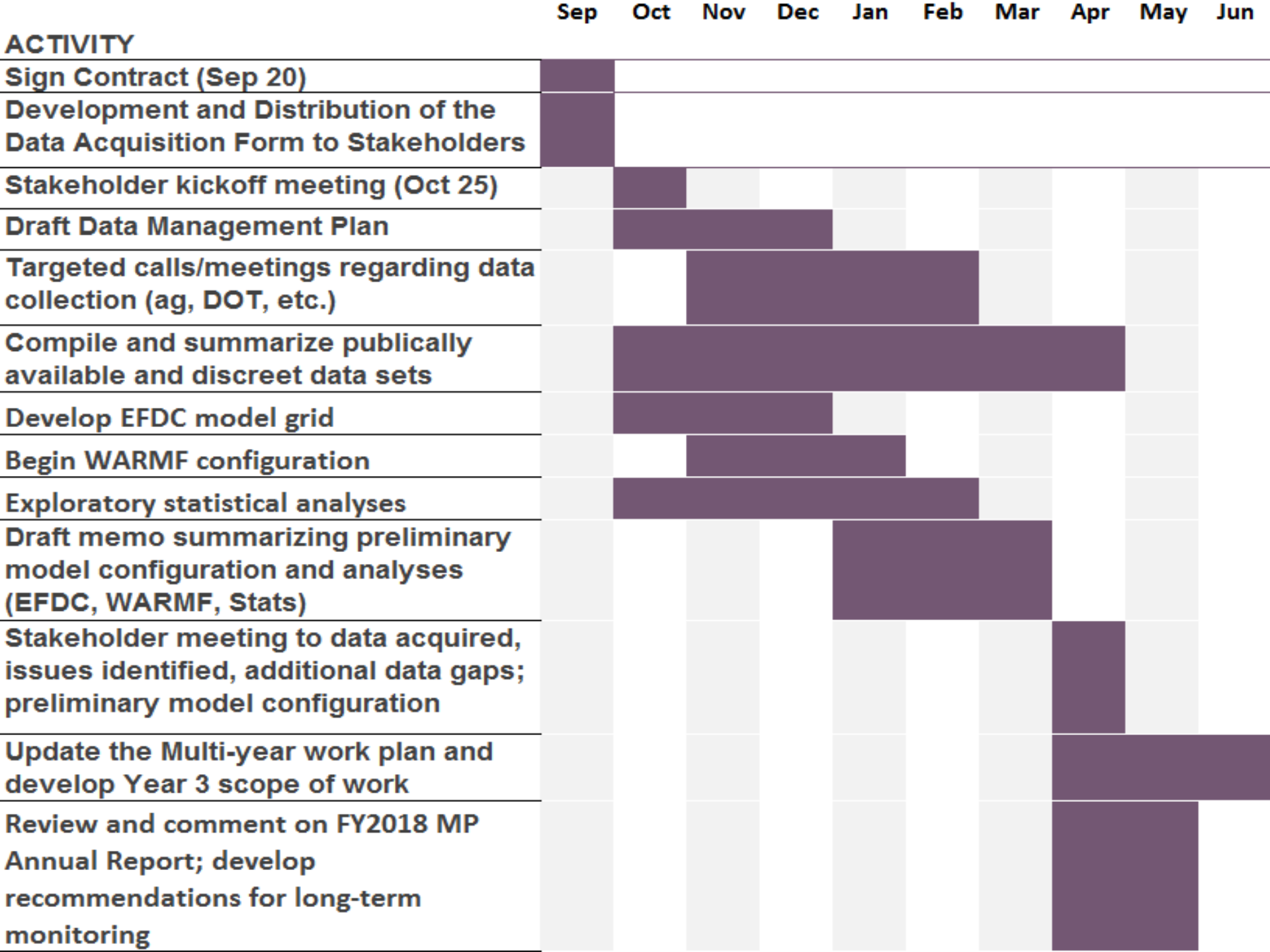
- Obstacles for submitting data in a timely manner
  - Staff time and resources needed
  - Not all data is available electronically or collected under an approved Quality Assurance Project Plan
  - Some data are fluid and difficult to track
    - Septic system hookups to WWTPs
    - Land use changes
  - Data is often in many different places with varying levels of accuracy
  - Some data is private
  - Historic data (2005 - 2007) may not have been archived

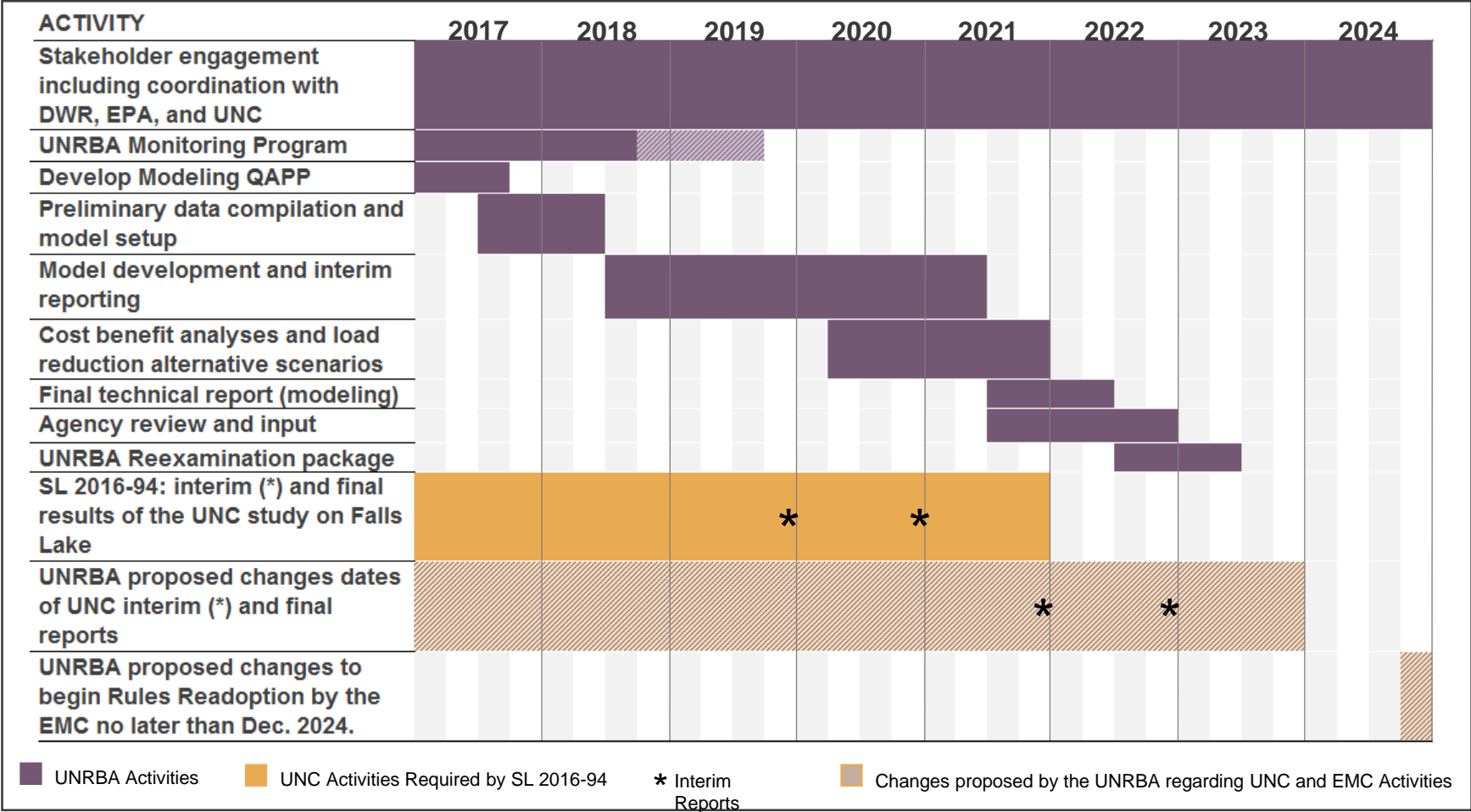
# Small Group Reports, Continued

- Concerns about use of data or modeling
  - Simulating different types of onsite wastewater systems is challenging
  - Any changes to model code should be documented
  - Roads should not be simulated as direct pipes to streams
- Advice to others for compiling data
  - Neighboring jurisdictions should coordinate
- Assistance needed from UNRBA or contractors
  - Follow-up calls with modelers to ask questions and prioritize efforts
  - Field work assistance
- Suggestion for a Memorandum of Agreement with the State that the data collected is adequate
- Appreciation for the UNRBA's efforts to acquire best data

# Questions ?







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# Monitoring Program Status Update—Alix Matos



UNRBA Board of Directors

# Monitoring Program Status Update

November 15, 2017



# Routine Monitoring Update

November 2017

# Routine Monitoring Status

Date	Sample Collection	Sample Analysis	Data Review	Posted to Database
Aug - Dec 2014	✓	✓	✓	✓
Jan - Dec 2015	✓	✓	✓	✓
Jan - Dec 2016	✓	✓	✓	✓
January 2017	✓	✓	✓	✓
February 2017	✓	✓	✓	✓
March 2017	✓	✓	✓	✓
April 2017	✓	✓	✓	✓
May 2017	✓	✓	✓	✓
June 2017	✓	✓	✓	✓
July 2017	✓	✓	✓	✓
August 2017	✓	✓	✓	
September 2017	✓	✓		
October 2017	✓			
November 2017	✓			
December 2017				

As of October 2017, more than 3 years, and 3 full growing seasons of data have been collected by the UNRBA

# Routine Monitoring Activities Ahead

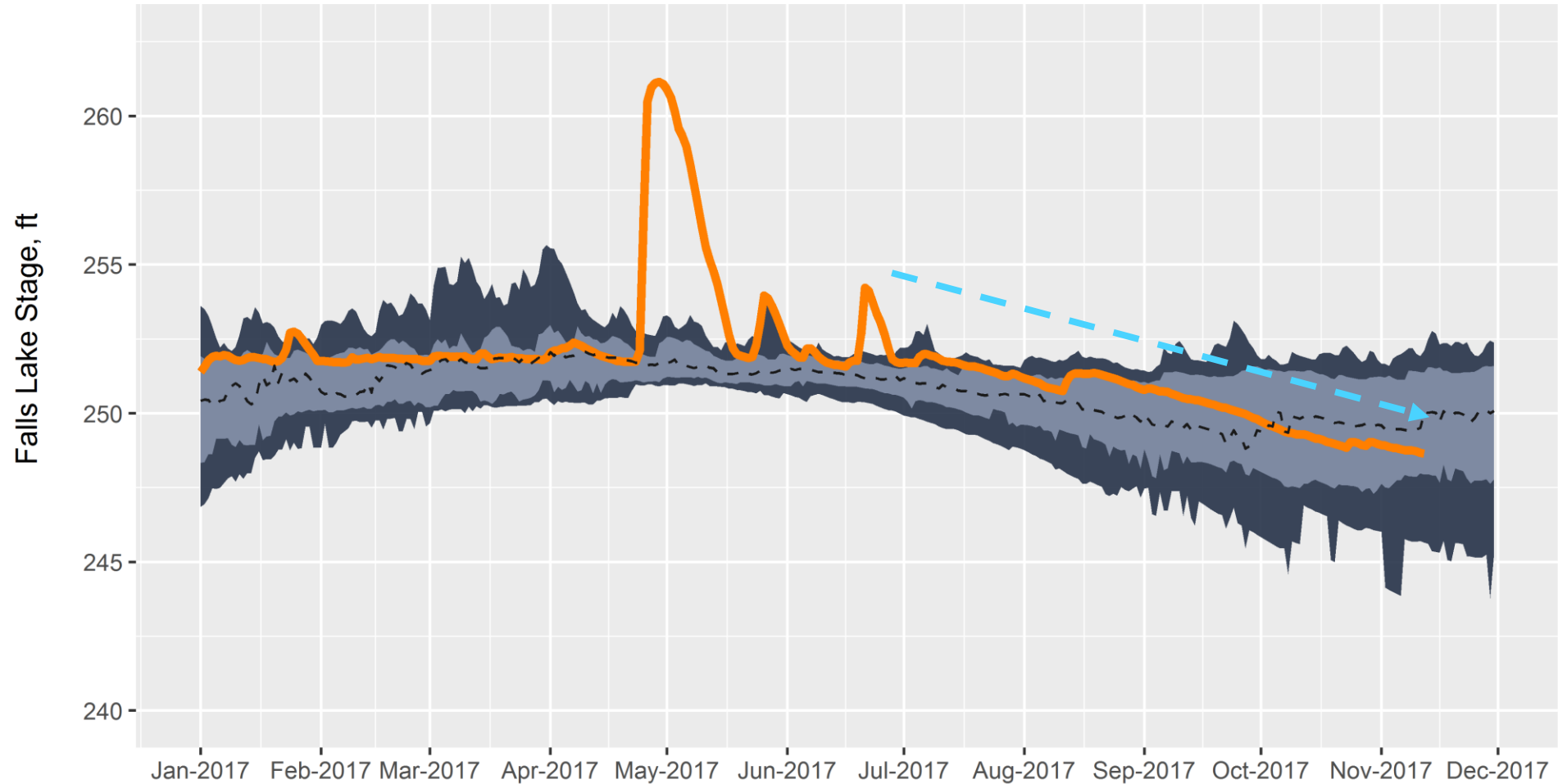
- Begin Annual Report preparation
  - Due in April 2018
  - More analysis than in prior reports
  - Working with SME's and modeling team on beneficial content
- Consider changes to Routine Monitoring after October 2018 (4 years and 4 full growing seasons of data collection)
  - Work closely with Path Forward Committee
  - Include recommendations in Annual Report
  - Develop preliminary monitoring budget for FY2019

# Special Studies Update

November 2017

# High Flow Sampling

- Since July, no rain events suitable to allow for sample collection



# Sediment Study

- Working closely with Dr. Marc Alperin (UNC) to complete report on sediment sampling and analysis
- Will be included in the Annual Report
- Results will be provided to the lake response modeling team

# Other Activities

- Considering additional efforts to address Designated Use support
  - Addressing the Biological Integrity facet of the standard, for example
  - Working with Forrest and his Subject Matter Experts, the Modeling and Regulatory Support Workgroup and the PFC
  - Assessing available information and data
  - Considering whether supplemental data acquisition or analysis may be warranted



# Questions ?



# Nutrient Credits Pending

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- Land Conservation
- Buffer Improvement in Developed Areas

# PFC Report

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Lindsay Mize and Kenny Waldroup

Meetings:, September 27, 2017,  
Upcoming: December 4, 2017

# Regulatory and Legislative Update

Don O'Toole, City of  
Durham

# Executive Director Report Items

- Comments on the Phase I and II NPDES MS4 SW Permit
- MOA with DEQ
- Conservation Credit
- EMC Meetings, November 8 and 9
- UNRBA Contractor Status Calls: Weekly
- WRRRI Annual Conference, March 14-15, 2018
- AWWA/WEA Spring Conference, March 26-27, 2018
- DWR Nutrient Criteria SAC Meeting September 27, 2017 and November 15, 2017 (today)
- Collaboratory Work Products/Reports
- Communications Workgroup
- NSAB Meeting Coming Up December 1, 2017
- Coming Reexamination Results

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# Closing Comments

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Next Scheduled Board Meeting:  
January, 2018, Butner Town Hall,  
Beginning at 9:30 AM  
Annual Meeting