MEETING MINUTES

UPPER CAPE FEAR RIVER BASIN ASSOCIATION TECHNICAL ADVISORY COMMITTEE MEETING

Remote – Microsoft Teams October 27, 2020 9:30 AM – 11:00am

Attendees

NAME	AGENCY	CONTACT INFO
Maya Cough-Schulze	TJCOG	mcough-schulze@tjcog.org
Anna Leonard	PTRC	aleonard@ptrc.org
Williams, Elijah	City of Greensboro	elijah.williams@greensboro-nc.gov
Jonathan Baker	City of Durham- Stormwater	Jonathan.baker@durhamnc.gov
Terry Houk	City of High Point	terry.houk@highpointnc.gov
Martie Groome	City of Greensboro	Martie.Groome@greensboro-nc.gov
Maria Vanderloop	Town of Cary	Maria.vanderloop@townofcary.org
Charlie Cocker	City of Durham	charles.cocker@durhamnc.gov
Ben Bani	City of Reidsville	bbani@ci.reidsville.nc.us
Peter Raabe	American Rivers	praabe@americanrivers.org
Amanda Hancock	Meritech	amanda.hancock@meritechlabs.com
Dawn Molnar	City of High Point	dawn.molnar@highpointnc.gov
Jennifer Hunter	OWASA	jhunter@owasa.org
Alicia Goots	City of Greensboro	alicia.goots@greensboro-nc.gov
Bob Patterson	City of Burlington	bpatterson@ci.burlington.nc.us
Dennis Hodge	City of Mebane	dhodge@cityofmebane.com
Derrick Boone	City of High Point	derrick.boone@highpointnc.gov
Michael Rhoney	City of Asheboro	mrhoney@ci.asheboro.nc.us
Steve Tedder	Tedderfarm Consulting	tedderfarmconsulting@gmail.com
Mary Giorgino	USGS	giorgino@usgs.gov
Ana Maria Garcia	USGS	agarcia@usgs.gov
Martie Groome	City of Greensboro	martie.groome@creensboro-nc.gov
Julie DeMeester	The Nature Conservancy	julie.demeester@tnc.org
Taylor Rowley	USGS	trowley@usgs.gov
Tonya Mann	City of Graham	tmann@cityofgraham.com
Mark Vander Borgh	NC DWR	mark.vanderborgh@ncdenr.gov

The meeting opened at 9:30am. No changes to the agenda were requested.

Organizational Report, Maya Cough-Schulze, TJCOG

- Contact with Meritech was renewed at last Board meeting; will go through August 2023
- In December, will wrap up additional sampling for DWR to support Middle Cape Fear River Basin Model
- New officers take effect at this meeting: Charlie is the new board chair; Elijah, Vice Chair; Alicia will continue as TAC chair. TAC Vice Chair position remains vacant.
- The QA/QC subcommittee will meet 10/28, so no QA/QC report today. They will send an email with updates before the next Joint meeting.

Interest in presenting on PFAS panel at Joint Meeting?

- Charles Cocker likes the idea
- Jennifer Hunter: OWASA has been testing for over 2 years now, would find panel discussion useful
- Martie Groome asked what the law firm was offering. Maya: Offered to share information with municipalities about legal risk. Representing downstream municipalities against Chemours/Dupont and can also provide legal counsel if desired.
- Martie: NPDES discharges now using new application form and is now on web, now report anything the state hasn't asked for in the past, has asked state for clarification this would be a useful topic for next meeting
- Terry Houk, already have an environmental law group that work with regularly, not sure about adding competition
- Elijah Williams, NC water quality association, also says it would be good not to blur lines between different groups

Julie DeMeester - Dams, Floods, Droughts - The Nature Conservancy's Work in the Cape Fear River Basin (refer to presentation for full details)

Julie presented on TNC's Sustainable Rivers Program, which focuses on how to use dams as a tool to create healthier ecosystems while meeting peoples' water needs, mostly downstream of Jordan Lake but also considering in-lake ideas

- The Cape Fear is one of 25 rivers now in this program (the Roanoke was one of the first)
- Given diverse fish and human needs, they considered environmental flows for the entire river and strove to identify problems and opportunities
 - Jordan Dam has 5 purposes: flood control, drinking water, water quality, wildlife, and recreation
 - Hydrographs show minimal overbank flooding after the dam was built. This has impacts including less sediment making its way downstream
 - How far down are flows influencing downstream environment lock and dam 1, dam has potential to influence over 100 miles downstream

• Moving Forward:

- 2-year partnership w/ USGS
- Updating gage info at Fayetteville to include cubic feet per second, adding water quality sensor to Lillington gage
- Using USGS autonomous underwater vehicle to study water quality
- o Calibrating gybe sensor tech to get real-time samples of water quality
- What does this mean for above Jordan Lake? TNC wants to consider the river as a whole and obtain input from upstream users on ways to meet both human and ecological needs

OUESTIONS

- Jonathan Baker: Is there any collaboration happening with Jordan Lake One Water and the Jordan Lake Policy Collaboratory?
 - Julie: We are staying in touch with them
- Hannah: Are there plans to do similar testing and modeling in other watersheds/ river basins in NC?
 - Julie: We are not currently expanding to other NC river basins, focusing on first completing Cape Fear. Other groups are doing modeling on the Neuse.
- Peter Raabe: Did the reach 0 group look at releases that would reduce the residence time?
 - Julie: No, but we can add this to our list of research questions

Julie also presented on TNC's Hurricane Risk and Resilience work:

- Hurricane impacts include WWTPs flooding, hog lagoons flooding, adding nutrients into basins, impacting fish (0-2mg oxygen yielding fish kills), many road closures, clearly impacting both humans and nature
 - TNC did remote sensing to asses where to implement solutions
 - Assessed floodplain condition
 - Sentinel satellite uses radar to see through clouds; this data was compared with USGS high water marks, NOAA aerial photography
 - Incorporated social vulnerability index
 - NCOneMap has all flood modeling publicly available
 - Ongoing SWAT modeling needs ~6-8 more months

QUESTIONS

- Maya: What would be helpful for you from this group? To learn more about flooding impacts to WWTP?
 - Julie: Any info you can share in that vein is helpful
- Mark: It used to be that remote sensing couldn't capture the Cape Fear because of its width-has technology improved enough to do this?
 - Julie: With the sensor we use, we have about 6 pixels to work with, minus two because of edge of river effects. Currently we are calibrating the sensor and satellite; will learn more about accuracy from that.
 - Mark: Have you heard about EPA's Cyan satellite imaging work?
 - Julie: No—I will have to check that out!
- o Jonathan Baker: Have you talked to the stormwater community at all? To consider at rainfall intensity and flooding issues.
 - Julie: We have had minimal conversations with the stormwater community; we were going to have a session at WRRI, and when that was cancelled have not had chances to interface directly with a large group of stormwater professionals

Updates from around the Upper Basin

- Charlie We have been without a permit for 4 years now--is everyone still in same situation?
 - Elijah: Greensboro does not have new permit either
 - Michael: Asheboro is in the same situation
 - Jennifer: OWASA was overdue but it was renewed summer this year and had reduced nitrogen and phosphorus limits

Future Meeting Dates

- Hold February 2nd for next Joint meeting
- This will give more time for QA/QC to be completed

The meeting adjourned at 10:58am.