



Non-Tidal Network Meeting

Wednesday, June 15, 2021

1:00 PM – 2:30 PM

Meeting Link*:

<https://umces.webex.com/umces/j.php?MTID=m9bb4d541f398c0927cdec15503343fdc>

Meeting Number: 120 450 3210

Password: NTNWG

Conference Line: +1-408-418-9388 Access Code: 120 450 3210

Meeting Materials:

https://www.chesapeakebay.net/what/event/nontidal_network_workgroup_june_2021_meeting

*If you are joining by webinar, please open the webinar first, then dial in.

This meeting will be recorded for internal use to assure the accuracy of meeting notes.

Action Items:

- ✓ Complete science needs homework assignment (*Provide track changes or email Breck Sullivan, bsullivan@chesapeakebay.net, with comments*):
 - *Review Monitoring Science Needs Spreadsheet.*
 - *Are there any Nontidal monitoring gaps missing?*
 - *Are there synergies between Nontidal work and Cross-GIT monitoring gaps?*
- ✓ Peter Tango and Tom Parham will talk more offline about the Deer Creek station.
- ✓ Ellen Campbell will update Peter Tango on the DH95 issue.
- ✓ Mark Nardi will share a Delaware contact with Peter Tango for these NTN meetings.
- ✓ WVDEP is looking for recommendations on sample collection and BMP implementation for the filamentous algae problem.
- ✓ Provide Peter Tango ideas, questions, or comments for the PACE (Plankton, Aerosol, Cloud, Ocean Ecosystem) Mission listening session with NASA **before July 28, 2021.**

AGENDA

1:00 Welcome, Introductions & Announcements – Peter Tango, Coordinator (USGS@CBPO)

1:10 PSC Review continues: Monitoring Gaps – Breck Sullivan CRC

Breck recently consolidated the gaps assessment from the Chesapeake Bay Program (CBP) Strategic Science and Research Framework (SSRF) database on science needs. Breck provides a short overview that is being used to address Question #4 of the 8 questions in the PSC review.

All CBP science needs are available on the [database](#). The science needs compiled to address the monitoring gaps for the PSC review are available in a spreadsheet on the Nontidal Teams page and the [calendar event page](#). The science needs compiled relate to monitoring, analysis, and synthesis needs. The science needs are categorized based on the current monitoring networks with a focus on the Water Quality Standards Attainment and Monitoring (WQSAM) Outcome. There is also a section to compile monitoring needs from other CBP outcomes that may be addressed by work within our current monitoring networks. There are synergies between the monitoring needs of other CBP outcomes and the current monitoring data.

The biggest takeaway from compiling the science needs is that not all of the monitoring needs stated by CBP workgroups through this PSC review are captured in the database. New projects and ideas have come up since outcomes have submitted their science needs to the database, but those need require attention now. The science needs compiled in this effort will be adjusted and condensed to be put in the final report. To make sure all science needs are captured, there is a homework assignment for the workgroup.

Homework #1 (Provide track changes or email Breck Sullivan with comments):

1. *Review Monitoring Science Needs Spreadsheet.*
2. *Are there any Nontidal monitoring gaps missing?*
3. *Are there synergies between Nontidal work and Cross-GIT monitoring gaps?*

1:30 NTN operations – All, Round Robin

How are we doing meeting sampling plans in 2021? Round robin of jurisdictions, agencies.

Cindy Johnson reported out for the state of Virginia. She announced they have been released to go back to normal field work due to the amount of people that have received COVID vaccines.

Doug Moyer commented on Virginia for USGS. Operations for the NTN are going as planned, and their COVID requirements are evolving such as being able to have two people in a car. Working with Cindy Johnson, they will be updating the NTN QAPP for Virginia NTN, and they will get it to the CBP in 2 – 4 weeks. They appreciate the extension. Peter Tango said if any one needs more time for the updated on their requirements to please reach out, and they are happy to give approval on the extension.

Doug Chambers reported out for USGS West Virginia. He stated travel restrictions and COVID requirements are lifting. The biggest issue is they lost one of their hydrologic

technicians because they transferred to another USGS office. They were able to pick up another hydrologic technician for their USGS center. Doug also said they are close to completing their targets for getting all their samples by the end of year. Peter Tango commented there was a little bit of a dry spell that has now been broken. Doug agreed and said they worked with folks from the Lee Town Field Office out continuously to collect some of the water.

Tom Parham reported out for Maryland. They are doing well on nontidal sampling for all 23 stations. For most of them, they have a majority of the samples. There's only 10 more stations they need more storm samples. He stated COVID vaccinated people can drive in the same vehicle now which makes operations much easier.

Peter Tango said the workgroup has the spreadsheet for NTN station supported. Deer Creek came up as an at-risk station for the waterflow because of permitting coming to an end. It is something he was just alerted to, and they will need to deal with it by the end of the fiscal year.

Tammy Zimmerman reported out for Pennsylvania USGS. They are fully on track for routine samples. They are having difficulty getting storm samples at Big Spring Run which is their smallest drainage area. The storms are coming at 11 PM or midnight and by the time they have gotten to the area, they have missed the storm. They missed one storm at Pequea Creek because bridge work going on there. They were able to get permission to collect storm samples and routine samples from this walking bridge in the camp area. There should be much of a gap or impact in the sampling until the bridge is completed. The bridge construction is slated to be completed in November 2021. There will be a few months they will need to alter the site location, but they are in communication with Doug Moyer and Joel Blomquist.

Peter Tango commented for the small watersheds in DC they set up auto samplers, and maybe that is something they can consider for Big Spring Run. Tammy said they have been discussing using a different sampling metric with Doug Moyer, and it is probably the direction they need to go towards with the site. They would need to make sure the data they collect from the automated sampler is comparable.

Ellen Campbell said their soft reopening was on June 1st. They are meeting routine and storm targets. She knows they need a new DH95 one and having trouble reaching the company for it.

Tammy said they reached out USGS, and they were able to give them another source. Ellen Campbell said they were in touch with someone that could put one together, but it is a roadblock for the future. Mark Bricker said if they need to borrow one, they have one in the warehouse. Mark asked what is the issue with their instrument. Ellen Campbell said she does not know. It is not compromising their current work, but it is an issue they are discussing.

There was not a representative present for D.C. or Delaware. Mark Nardi did not know of an update for Delaware, and he will share a Delaware contact with Peter.

Mark Nardi said USGS has been collecting samples all along and have been able to manage any obstacles in the way. Everything is going well.

2:15 Watershed Science: Discussion and announcement.

- Follow-up thoughts on the WV filamentous algae problem?
 - Not a clear point source for the issue
 - Looking for recommendations for further sample collection
 - Looking for recommendations on BMP implementation and further research to inform them
 - Does anyone have data collection of ground water in the Cacapon watershed?
 - Doug Chambers said they have proposals out in other areas of the eastern panhandle of WV, but they are not right in the Cacapon watershed drainage. They have spoken with WVDEP about the studies to clarify links surface water and groundwater interaction particularly in areas with more carbonated rock aquifers. He can follow up with them on some of those discussions and the proposals that have been revised.
- PACE (Plankton, Aerosol, Cloud, Ocean Ecosystem) Mission listening session with NASA, July 28, 2021 Register now - **are there ideas to share on upcoming mission design regarding guidance for monitoring water quality? Primary productivity/vegetation in streams?** Perhaps we can push them on toward helpful assessment of waterways on the landscape for considerations. Etc. [NASA PACE - Events \(Detail\) \(oceansciences.org\)](https://oceansciences.org/events/detail/pace-mission-listening-session)
 - NASA is working towards creating the technology putting on their PACE satellite. People interested in water quality monitoring are encouraged to join the listening session. Info on resolution and sensor targets needed are welcomed.
 - Tom Parham stated they use a lot of the NOAA satellites to look at the HHV sites, but the resolution is not good enough. If NASA had better resolution, they could look at smaller waters. Tom Parham will write the question and needed information for Peter Tango to provide at the July meeting.
- USGS Upcoming annual work plan meeting - June 29-July 1. Contact: Ken Hyer USGS.
 - This is the internal USGS planning meeting. They have a 2021 – 2025 strategy, but every year they have an updated yearly plan. They are meeting to plan their 2022 efforts and formulate their 2023 efforts. They have circulated the agenda so please contact Ken if a USGS member has not received it. As they put together their annual workplans, they are built to consider partner needs. He does not see any major changes in the USGS portfolio for nontidal monitoring.

- Peter Tango said next steps includes continuing the effort of the PSC review, update PSC documentation based on the information available now, and change it based on any additional information added through homework assignments.
- Potential next agenda items:
 - Presentation on projects to show managers how the data is being used and what products are available or soon to be released (tributary summaries, watershed-wide analysis).
 - Update on Conowingo work.
 - Continue PSC review effort and focus on innovations and financials. What happens if the program receives no additional funding? Can we estimate financials for next 5 years?

2:30 Adjourn

Next meeting: Wednesday, July 21, 2021, 1 PM – 2:30 PM

Participants: Breck Sullivan, Peter Tango, Doug Moyer, Cindy Johnson, Mark Nardi, Tammy Zimmerman, Doug Chambers, Curtis Schreffler, Durga Ghosh, Ken Hyer, Mark Brickner, Ellen Campbell, James Colgin, Tom Parham