

****THIS MEETING IS RECORDED****

**CHESAPEAKE BAY PROGRAM
WATER QUALITY GOAL IMPLEMENTATION TEAM
APRIL 25, 2022 CONFERENCE CALL**

Meeting link: <https://umces.webex.com/umces/j.php?MTID=m60980723fcb032004e4790947a5715d3>

Meeting number: 2623 926 6713

Password: #git3mtg2022

OR

Phone: +1-408-418-9388 United States Toll

Access code: 2623 926 6713

Please join by either computer audio **or your phone, not both. Viewing the webinar in the desktop app is recommended over the web browser. If you experience bandwidth issues, we recommend turning off your video when not speaking.*

Meeting Materials: [Link](#)

1:00 Welcome & Announcements – WQGIT Chair (10 min.)

A formal roll call will not be taken for today's call. Participants are asked to enter their name and affiliation in the WebEx chat. Anyone participating by phone is requested to verbally identify themselves.

Announcements:

- Oyster BMP Panel Report Update – Jeff Cornwell, UMCES, and Olivia Caretti, ORP
- **Next WQGIT conference call:** May 23, 2022

Prior Business/ Outstanding Action Items:

- Reminders:
 - See latest Log of WQGIT Actions & Decisions
 - Feedback on CAST21 was due April 15
- Verbal updates:
 - Status Update for CAST21 – Olivia Devereux, Devereux Consulting

1:10 Overview and introduction – Gary Shenk, USGS (10 min.)

Gary will briefly describe the six elements and how they relate. Materials for each element are posted on the [calendar page](#), but anyone can also view materials on the CBP website [Phase 7 Model Development page](#), which will be updated as progress is made on each element.

Phase 7 Element Specific Presentations

Participants are encouraged to enter their questions into the chat box in WebEx, which will be saved and shared with the presenters if offline follow-up is needed. Each presentation includes some time for live Q&A. Participants should use the “raise hand” feature and unmute themselves when called upon.

1:20 Estuarine model – Lew Linker, EPA CBPO (20 min.)

Lew Linker will review the new estuarine model that is being developed for the entire tidal Chesapeake (the Main Bay Model), incorporating the latest techniques. Multiple Tributary Models will also be developed as testbeds for improved overall model performance.

1:40 Hi resolution land use data and land use change model – Peter Claggett, USGS (30 min.)

Peter Claggett will review the high resolution land use products that are being developed at the meter scale for delivery in 2024. They will go directly into the watershed modeling efforts and provide information for other CBP partnership goals and outcomes.

2:10 Watershed Model – Gary Shenk, USGS (30 min.)

Gary Shenk will review how the watershed model underlying the CAST calculations is being updated for better representation of physical processes, improved nutrient application calculations, and variable-scale modeling.

2:40 Chesapeake Assessment Scenario Tool (CAST) – Olivia Devereux, Devereux Consulting (30 min.)

In this presentation, Olivia will review the CAST interface enhancements and the timeline for incorporation. Updates requested include increased transparency in BMP annual reporting (NEIEN), adding BMP benefits and ecosystem services, and integrating land use views. We will also explain the new software naming convention.

3:10 **BREAK** (15 min.)

3:25 Optimization – Lew Linker, EPA CBPO (15 min.)

Lew Linker will review how the optimization software is being developed so that CAST scenarios can be generated representing the least cost to achieve a desired level of nutrient and sediment reduction.

3:40 Water quality criteria assessment – Peter Tango, USGS (30 mins.)

Peter Tango will review how expanding monitoring efforts using new technologies to collect high temporal density habitat information are being used to improve data collections and fill fundamental data gaps in our water quality criteria attainment assessments. A parallel effort is working to create a new 4-dimensional Bay interpolator that will use the new and existing data streams to support the evaluation of all dissolved oxygen criteria including those which could not previously be evaluated.

4:10 Discussion of overall process, what comes next – Ed Dunne, DC DOEE (15 mins.)

Ed will summarize how the WQGIT can stay abreast of the activities for the presented P7 elements through regular WQGIT announcements, the WQGIT newsletter, and CBP webpage. A larger, extensive update can be planned for a particular annual WQGIT call or meeting. WQGIT feedback is requested about the form and frequency of updates.

Action Requested: WQGIT input on form/frequency of updates.

4:25 Recap of Actions and Next Steps – Hilary Swartwood, CRC (5 min.)

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Hilary Swartwood will recap the actions and next steps from today's meeting.

4:30 Adjourn