



Model Schedule, Verification

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Watershed Technical Workgroup Meeting
December 5, 2019



Model-Related Schedule

Phase 3 WIPs

- EPA evaluations of Phase 3 WIPs will be final before the end of December, 2019



Model-Related Schedule

2019 Progress

- September, 2019: Jurisdictions encouraged to begin submitting their BMP implementation data to NEIEN.
- December 2, 2019: QA/QC'd final data to be submitted by jurisdictions, including any updates to BMP Verification Program Plans describing new data sources and changes to methods of tracking to CBPO.
- January 15, 2020: Jurisdictions submit final progress for 2018-2019 programmatic milestones to EPA.
- February 8, 2020: CBPO finalizes 2019 Progress model assessment. Jurisdictions finalize BMP Verification Program Plans.



Model-Related Schedule 2020–2021 Milestone Period

- There will be two versions of 2019 Progress
 - One to finish the 2018–2019 Milestone period – current CAST
 - One to begin the 2020–2021 Milestone period with new methods and data; historic progress scenarios will be rerun



Model-Related Schedule 2020–2021 Milestone Period

- At the 12/12/19 Management Board meeting, a discussion will continue about numeric 2-year Milestone scenarios
 - “An overview and discussion about the refined recommendations to measure progress using a straight-line trajectory rather than state and federal numeric milestones.”
 - Decision requested: Approve revised approach for state and federal numeric milestones.



Model-Related Schedule 2020–2021 Milestone Period

- Currently finalizing changes to CAST for use during the 2020-2021 Milestone period = updates to methods and data that do not violate calibration and the critical period.



Model-Related Schedule

CAST 2019

- ~~1. Final number for other haylage; grass silage, etc. Nitrogen fixation~~
- ~~2. 2019, 2020 permitted acres (harvested forest and construction), can also update 2013–2018~~
- ~~3. AFO/CAFO splits for 2019+, can also update 2013–2018~~
- ~~4. Land policy land uses for land policy BMPs~~
5. Land use and septic data under review (Land Use Workgroup)
 - Update Phase III WIP land use (2014 – 2025) with 2017 Ag Census + added updates to Sewer Service Areas (SSAs) and MS4s + updates to population for all counties with 2025 projections adjusted: $*(v_{2019} / v_{2017})$ = all counties that did not provide projections are scaled accordingly
6. Extend time period of urban fertilizer data
7. VA manure nutrient concentrations
8. New NEIEN data pull for all progress years
- ~~9. Methodology for VW settlement reductions~~



2019 Progress Scenario

Verification

- For the 2018 Progress scenario, EPA did several reviews of the BMP and wastewater data, highlighting issues that needed investigation or attention. The same will be done for future progress scenario BMP submissions.
- General procedures for the analysis are currently available at https://www.chesapeakebay.net/channel_files/32642/sweeney_wqgit_2018progressverification_021119.pdf
- Detailed procedures are being finalized and will become an appendix to the verification framework document at <https://www.chesapeakebay.net/documents/Complete%20CBP%20BMP%20Verification%20Framework%20with%20appendices.pdf>



2019 Progress Scenario

Verification

- There are nine recommendations directed towards jurisdictions in documenting their BMP verification and compliance programs.
- The verification framework document encourages jurisdictions to consult the following four products developed by the BMP Verification Review Panel:
 - 1) Design Matrix (Table 5)
 - 2) Decision Steps (Table 6)
 - 3) Components Checklist (Table 7)
 - 4) Design Table (Table 8)



2019 Progress Scenario

Verification

- For the 2019 Progress scenario, it was recommended to particular attention to your documentation of the quality of Nutrient Application Management data
 - The QAPP should describe how, exactly, reported compliance levels are accounted for and calculated for each type of Nutrient Management (core and supplemental, both N- and P-based).
 - How are raw data used and calculations done to determine the degree to which landowners are following their plans – for each Bay Program-defined element of the BMP?



2019 Progress Scenario

Verification

- Other verification actions:
 - EPA to revisit and document the schedule for submissions of updates to the jurisdictions' BMP Verification Program Plans.
 - The Watershed Technical Workgroup has completed the WQGIT's request to simplify NEIEN error reports.

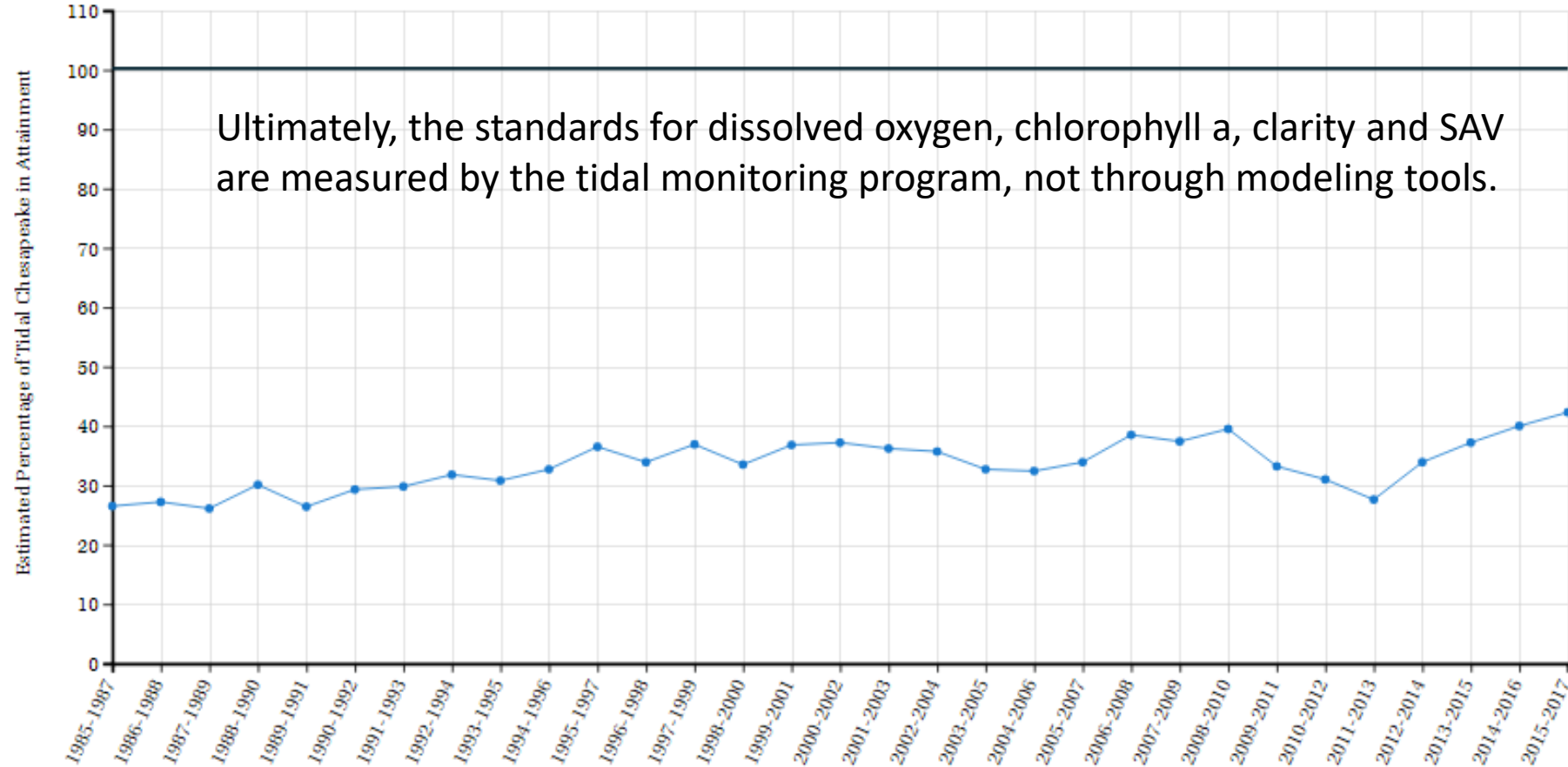


2019 Progress Scenario

Verification

- Also at the 12/12/19 Management Board, BMP Verification Protocols and Procedures
 - The Water Quality GIT submitted a draft letter to the Management Board on September 26 raising several concerns with the current BMP verification protocols and procedures and recommending that the BMP Verification Subcommittee or a similar new group be convened.
 - Decision Requested: Consensus on the draft response letter from the MB to the Water Quality GIT.

Water Quality Standards Attainment



Interactive Slider

