



# Model Schedule, Verification

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# Model-Related Schedule

## Phase 3 WIPs

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- EPA evaluations of Phase 3 WIPs were published 12/19/19 at <https://www.epa.gov/chesapeake-bay-tmdl/epa-evaluation-final-phase-iii-wips>
  - Expectations for programmatic Milestones
- There are links to jurisdictions' WIPs that were received August 23, 2019



# Model-Related Schedule

## 2019 Progress

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- 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.
- February 7, 2020: CBPO finalizes 2019 Progress model assessment. Jurisdictions finalize BMP Verification Program Plans.





# 2019 Progress Scenario

## Verification

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- CBPO reviewed BMP and wastewater data, highlighting issues that needed investigation or attention.
  - Detailed procedures of how Progress data is analyzed were mailed with the findings on 1/17/20.
  - General procedures for the analysis are currently available at  
[https://www.chesapeakebay.net/channel\\_files/32642/sw\\_eeney\\_wqgit\\_2018progressverification\\_021119.pdf](https://www.chesapeakebay.net/channel_files/32642/sw_eeney_wqgit_2018progressverification_021119.pdf)



# 2019 Progress Scenario

## Verification

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- 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

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- The Watershed Technical Workgroup has completed the WQGIT's request to simplify NEIEN error reports.
- WQGIT's request for detailed procedures of how the annual analysis of BMP and wastewater data submissions is done – is complete. Can cover this at our next meeting.
- EPA to revisit and document the schedule for submissions of updates to the jurisdictions' BMP Verification Program Plans.



# Model-Related Schedule

## 2019 Progress

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- 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

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- 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.
  - 2017 Census of Agriculture = manure nutrients and crop/pasture acres
  - Landcover
  - Chemical fertilizer
  - etc., etc., etc.





## Alternatives for Numeric 2020-2021 Milestones

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Recommendation to the CBP Management Board regarding the development of numeric 2-year milestones under the Chesapeake Bay TMDL Accountability Framework

- The partnership's expectation that jurisdictions and federal agencies develop programmatic milestones remains.
- EPA conducts annual progress and verification assessments based on the jurisdictions' submission of BMP implementation and wastewater data.



## Alternatives for Numeric 2020-2021 Milestones

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- Jurisdictions and federal agencies will be held accountable to their 2-year estimated numeric load reductions through a biennial evaluation of progress compared to the straight-line trajectory of necessary reductions to the 2025 Phase III planning targets or federal agency planning goals.
  - EPA will provide the jurisdictions and federal agencies with the straight-line trajectory projection at the beginning of each 2-year milestone period.
  - Alternatively, jurisdictions and federal agencies could develop a non-straight-line trajectory to 2025, which would then be used in the biennial evaluation of progress.



## Alternatives for Numeric 2020-2021 Milestones

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Jurisdictions and federal agencies will have two alternatives for the development of numeric 2-year milestones

1. Develop a Chesapeake Assessment Scenario Tool or “CAST” scenario based on planned BMP implementation over the two year period.



# Alternatives for Numeric 2020-2021 Milestones

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2. Develop 2-year projections for BMP implementation:
  - Guided by EPA's evaluations of Phase III WIPs, milestones and annual progress, milestone period jurisdictional initiatives and other lines of evidence (e.g., potential for co-benefits, cost effectiveness, monitoring data, jurisdictional priorities, stakeholder input, etc.).
  - When choosing this option, jurisdictions and federal agencies should develop specific and detailed numeric BMP implementation targets as part of their programmatic milestones for those BMPs that are key to achieving the 2025 Phase III planning targets or federal agency planning goals. Additional measurable metrics like dollars committed and number of staff hired could also be included.





# Model-Related Schedule

## 2020-2021 Milestones

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- January 15, 2020 – The states and federal agencies report to EPA on progress toward achieving programmatic milestone commitments for the prior milestone period
- February 7, 2020 – CBP partnership finalizes numeric progress and verification assessment
  - This deadline is a Chesapeake Bay Program (CBP) partnership goal. The CBP partnership's Bay Barometer and Water Quality "Reducing Pollution Indicator" are dependent on the finalized numeric progress reports.



# Model-Related Schedule

## 2020-2021 Milestones

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- March 1, 2020 – The states submit drafts of the next set of programmatic two-year milestones to EPA.
  - Federal agencies submit drafts of next set of two-year milestones and federal agency-level programmatic two-year milestone commitments to states and EPA
- March 15, 2020 – The states post draft two-year milestone commitments to their websites for public access



## Model-Related Schedule 2020-2021 Milestones

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- Within 60 days of submission of draft programmatic two-year milestones or finalized numeric progress reports, whichever is later – EPA provides draft evaluations of states' and federal agencies' programmatic milestone commitments and prior milestone period progress
- Within 30 days of the EPA evaluation of draft milestone commitments and milestone progress – The states and federal agencies submit final two-year programmatic milestone commitments to EPA



## Model-Related Schedule 2020-2021 Milestones

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- Within two weeks of submitting final two-year programmatic milestones – The states post final programmatic milestone commitments to their websites for public access
- Within 60 days of submission of final programmatic two-year milestones – EPA posts the final evaluation of progress on existing milestones and evaluation of the new milestone commitments for each state and the federal agencies to the Chesapeake Bay TMDL website