# BIENNIAL STRATEGY REVIEW SYSTEM
## *Chesapeake Bay Program*

# Narrative Analysis

## 2025 WIP OUTCOME

The narrative analysis summarizes the findings of the logic and action plan and serves as the bridge between the logic and action plan and the quarterly progress meeting presentation. Based on what you learned over the past two years from your successes and challenges, you will describe whether the partnership should make adaptations or change course.

Use your completed pre-quarterly logic and action plan to answer the questions below. After the quarterly progress meeting, your responses to these questions will guide your updates to your logic and action plan. Additional guidance can be found on ChesapeakeDecisions.

1. Examine your red/yellow/green analysis of your management actions. What lessons have you learned over the past two years of implementation? Summarize what you have learned about what worked and what didn't. For example, have you identified additional factors to consider or filled an information gap?

*Many of the technical and modeling analyses have been completed to support planning and implementation efforts, including monitoring and trends data and addressing climate change and additional loads due to Conowingo infill. New science and data continue to be updated in the partnership's decision support tools to more accurately reflect what is happening on the ground and throughout the watershed. However, these updates have also led to changes to levels of effort needed to meet the 2025 WIP outcome. Further collaboration and discussions are needed on understanding the impacts of these changes and how to apply these changes to milestone development and implementation.*

*Additional capacity and research are needed to better quantify co-benefits and ecosystem services. There is a strong interest in exploring benefits beyond water quality of management practices, particularly as it relates to climate resiliency. In addition, technical assistance and financial resources will likely need to increase to support planning implementation to achieve 2025 goals. How can we better leverage existing resources and tap into the private sector? What are some innovative approaches to address technical and financial gaps and needs?*

*It might also be helpful to narrow down the list of actions for the next two-year period. Really hone in on those actions that the partnership, working collectively, can make a significant impact and contribution towards achievement of the 2025 goal. For example, perhaps a greater emphasis on climate-resilient BMP research since jurisdictions will be incorporating those impacts in their 2022-2023 milestones. Funding and technical assistance support for Ag implementation might be another area of focus since there is a greater reliance on that sector in meeting 2025 goals. Definitely some verification-related actions should be included since challenges have been identified by jurisdictional partners. Also, we might want to consider how to fold in COVID-19 impacts into future actions.*

Regardless of how successful your short-term progress has been over the past two years, indicate whether we are making progress at a rate that is necessary to achieve the outcome you are working toward. The example graph below illustrates this concept.

*Use the **editable** graph below (or your own chart) to illustrate your progress. Explain any gap(s) between our actual progress and our anticipated trajectory.*

*While some jurisdictions are on track to meet the 2025 WIP outcome for nutrients and sediment, gaps remain in achieving the necessary nitrogen reductions.*

## Chesapeake Bay Watershed Modeled Nitrogen Loads: 2018 – 2025
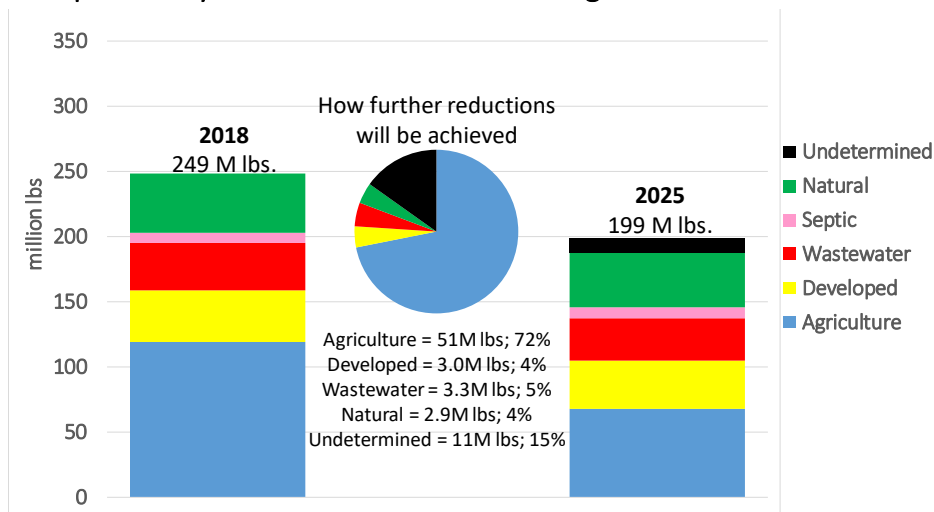
**2019 Percent of Goal Achieved by the Jurisdiction**

### Nitrogen

| Jurisdiction | Reduction Achieved 2009-2019 (M lbs/year) | Reduction Required by Bay TMDL (M lbs/year) | Percent Progress Toward 2025 Goals (70% = on track) |
|---|---|---|---|
| PA | 4.42 | 39.22 | 11% |
| MD | 6.67 | 11.68 | 57% |
| VA | 9.43 | 15.15 | 62% |
| WV | 0.29 | -0.16 | 100% |
| DE | 0.78 | 2.70 | 29% |
| DC | 0.71 | 0.34 | 100% |
| NY | 0.81 | 2.97 | 27% |
| AllJurisdictions | 23.11 | 71.90 | 32% |

### Phosphorus

| Jurisdiction | Reduction Achieved 2009-2019 (M lbs/year) | Reduction Required by Bay TMDL (M lbs/year) | Percent Progress Toward 2025 Goals (70% = on track) |
|---|---|---|---|
| PA | 0.654 | 1.558 | 42% |
| MD | 0.096 | 0.367 | 26% |
| VA | 0.688 | 1.406 | 49% |
| WV | 0.193 | 0.191 | 100% |
| DE | 0.027 | 0.031 | 87% |
| DC | 0.008 | -0.058 | 100% |
| NY | 0.114 | 0.150 | 76% |
| AllJurisdictions | 1.779 | 3.646 | 49% |

### Sediment

| Jurisdiction | Reduction Achieved 2009-2019 (M lbs/year) | Reduction Required by Bay TMDL (M lbs/year) | Percent Progress Toward 2025 Goals (70% = on track) |
|---|---|---|---|
| PA | 452 | 1,133 | 40% |
| MD | 24 | -725 | 100% |
| VA | 156 | -315 | 100% |
| WV | 47 | -12 | 100% |
| DE | 21 | 25 | 86% |
| DC | 9 | 3 | 100% |
| NY | 49 | 167 | 29% |
| AllJurisdictions | 758 | 276 | 100% |

> **Commented [PL2]:** Percent of the TMDL goals achieved by jurisdiction by 2019. Green indicates the jurisdiction is on track – at least 70% of the needed 2009-2025 load reduction goal is achieved by 2019. I believe this is based on the CAST 2017 version. We could use CAST 2019.

2. What scientific, fiscal and policy-related developments will influence your work over the next two years? This may include information learned at the previous biennial SRS meeting or more specific information about your outcome such as an increase or decrease in funding, new programs that address gaps, and new scientific data or research. Describe how these developments are likely to impact your recommended measure(s) of progress, the factors you believe impact your ability to succeed, and newly created or filled gaps. These changes should be reflected in the first three columns of your revised logic and action plan after your quarterly progress meeting.

*--COVID-19 is very likely to impact implementation efforts, especially due to budget and staffing cuts.*

*--The Conowingo WIP financing strategy could serve as a model for tapping into the private sector. Pay for performance pilot projects to also serve as model?*

*–Addressing climate change and Conowingo nutrient loads will increase the level of effort.*

*–Addressing verification issues and concerns, potential refinements to the partnership's Basinwide BMP Verification Framework document.*

*–Updated high-resolution land cover data will be available at some point over the next two year period.*

*—Updating CAST to incorporate new science and data (e.g., land cover data, BMPs)*

*–Optimization tool could be online over the next two-year period which is intended to enhance planning and implementation efforts.*

*–Better quantification of co-benefits and ecosystem services.*

*−Need to explore what specifically is needed – technical assistance, funding, staffing – to accelerate implementation in the agricultural sector.*

*−How can behavioral change be applied to our shared restoration goals? Upcoming STAC workgroup on social science and Ag. Work is also underway to develop a social science strategy. How can that plan support achievement of the 2025 water quality goal?*

3. Based on your response to the questions above, how will your work change over the next two years? Describe the adaptations that will be necessary to more efficiently achieve your outcome and explain how these changes will lead you to adjust your management strategy or the actions described in column four of your logic and action plan. Changes that the workgroup, GIT or Management Board consider significant should be reflected in your management strategy.

*I think we need to narrow the list of actions to those that will move the needle towards achievement of the 2025 WIP outcome and to those in which the partnership can play a significant role. See list of topics identified under Question 2.*

4. What, if any, actions can the Management Board take to help ensure success in achieving your outcome?  Please be as specific as possible. Do you need direct action by the Management Board? Or can the Management Board direct or facilitate action through other groups? Can you describe efforts the workgroup has already taken to address this issue? If this need is not met, how will progress toward your outcome be affected? This assistance may include support from within a Management Board member's jurisdiction or agency.

*Further discussions with the WQGIT are needed before this question can be fully addressed. Especially if we are going to narrow down and prioritize the list of action items we want to include in the next two-year period. Many of the existing factors will continue through to this next period (local capacity, funding, etc.).*