

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 [and habitat](#). 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, [Funding \(at a minimum, stable funding but ideally increased funding\), developing innovative technical and financial solutions and technical assistance support for Ag implementation might be should continue to be another an area of focus since there is a greater reliance on that sector in meeting 2025 goals.](#) ~~perhaps a~~ [greater emphasis on climate-resilient BMP research might be another areas of focus 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.

Commented [PL1]: PADEP comment: The narrative should be adjusted based on the feedback from WQGIT on the red/yellow/green for the Logic and Action Plan.

Commented [PL2]: DOEE comment: Agree. For example, there are over 50 actions.

Commented [PL3]: DOEE comment: 100% agree. Are the actions that we want to prioritize and focus on.

Commented [MD4]: Agriculture should be the #1 issue to address, given the charts below.

Commented [PL5]: DOEE comment: Agree with all of this. We could also include components about communication.

In the narrative, we could rank the examples. Maybe asking the WQGIT to rank might help build a targeted and prioritized list.

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.

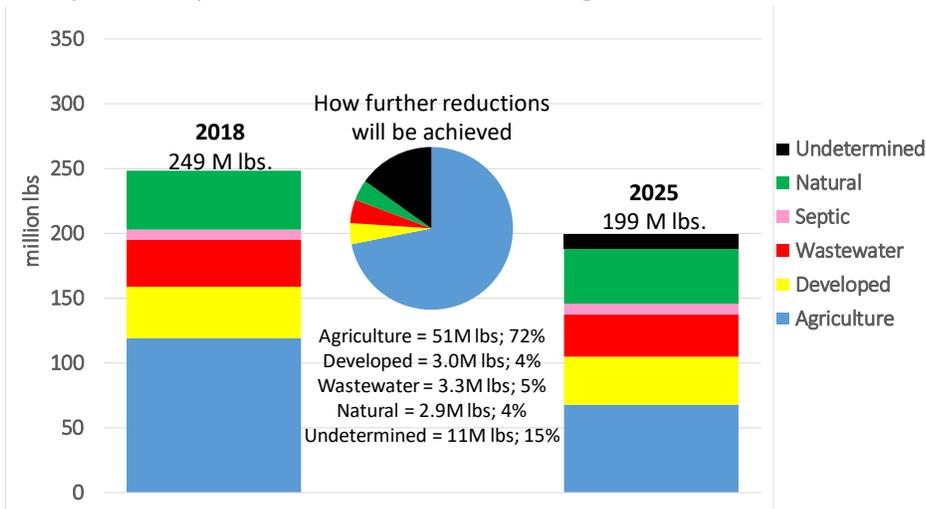
Use the **editable** graph below (or your own chart) to illustrate your progress. Explain any gap(s) between our actual progress and our anticipated trajectory.

While some jurisdictions are on track to meet the 2025 WIP outcome for nutrients and sediment, To achieve the 2025 water quality goals, modeled gaps remain in achieving the necessary nitrogen pollutant load reductions.

Commented [PL6]: What do you think of the following charts and tables? We can certainly present in another format.

Commented [MD7R6]: I think these are good charts to sum up the progress. We need to clearly state that we are significantly off-track in both N and P watershed-wide.

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 [PL8]: 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, if approved.

*Charts and graphs from CAST 2017 (can be updated for CAST 2019). Some jurisdictions encountered data errors with the 2019 progress submission using CAST 2017 that have since been corrected in CAST 2019. Therefore, results may be different if using CAST 2019.

**"Undetermined" reflected in the first chart represents the NY and PA loading gaps between their respective Phase III WIPs and the 2025 Phase III WIP planning targets.

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), including a communications plan of action

–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 and address what specifically is needed – technical assistance, funding, staffing – to accelerate implementation in the agricultural sector. If this information is included in the jurisdictions’ Phase III WIPs, is there a need for a synthesis of this at the watershed level for MB consumption? Does the CBC have a role here?

–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?

- Transparent, clear, and concise communication with the ag community is going to be really important. Between NGOs, industry associations, Farm Bureaus, LGUs, SWCDs and the CBP the ag community may receive mixed messaging. We are asking thousands of small business owners to significantly contribute to the common good via goals and outcomes that are often intangible in the short-term so it is important they understand their role and we understand what can reasonably be expected of them with available resources.

- Funding of education and outreach

- Historic policies need to be reviewed, discussed, and addressed in order to more completely manage adaptively.

- A dashboard of actions, decisions, plans, and tools (Expert panel reports, framework documents, etc.) needs to be developed and presented in a more transparent way in order to better educate and inform stakeholders as well as CBP Partners.

a. Diversity, Equity, Inclusion and Justice must be explicitly incorporated in Logic and Action Plan, with measurable outcomes. We should acknowledge the impacts we are trying to mitigate, such as the fact that the health of these communities are negatively impacted from pollution related disease, more likely to be exposed to poor quality air and water, more susceptible to environmental crimes, etc. but they are less likely to be employed in the environmental fields or benefit from water quality and environmental improvements (i.e. access to recreation). Engaging communities of color, low income communities, and other underrepresented groups in development and implementation of the workplan

b. Explicitly consider within each workplan how to distribute benefits and improvements more equitably to communities of color, low income communities, and other underrepresented groups.

c. Explicitly consider within each workplan how to reduce disproportionate adverse environmental impacts in communities in color, low income communities, and other underrepresented groups.

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.

Commented [WJ9]: Per our discussion with Carin Bisland and Lucinda Power, related to the Wetlands Expert Panel Report and historic processes and challenges.

Commented [PL10R9]: This needs further discussion and support by the partnership, which I don’t believe has happened yet. Let’s definitely flag.

Commented [WJ11]: DEIJ needs to be incorporated in a thoughtful and meaningful way for the next Logic and Action Plan.

Commented [WJ12]: How are we collectively engaging these groups in the development of the next Logic and Action Plan?

Commented [PL13]: DOEE Comment: Agreed. Targeting specific actions that have substantial impact and concentrating the GIT efforts on those actions sounds like an effective approach.

What are our top three-five actions to help achieve outcomes? How can we create a roadmap to get from where we are now, to undertaking priority actions to get to where we want to go.

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.). In addition, perhaps the Management Board can help the WQGIT with identifying the next round of priorities. For example, the WQGIT could identify 10 priority actions and ask the Management Board to help tighten that list of actions to 3-5.

Commented [PL14]: -PADEP comment: BMP Verification Framework – what is the timeframe for this to be revisited/revised? I believe I heard 2 years, but I'd like confirmation.

-Adjusting procedures and governance protocols so that it doesn't take 2 years to move an Expert Panel report through, or to revise historic technical and policy issues.