Potential Milestone Products

Recommended	Addressed by	Contact	Current Partnership Work
Product	science prioritization needs/ WQGIT 2- year workplan		
Verification Protocol Updates	No/Actions #2.2, 5.4	MB/ WQGIT/ Habitat GIT/ workgroups/ BMP verification committee/ EPA	 Annually, EPA reviews each states' BMP submissions and BMP Verification Programs. Addition of information to existing CBP BMP Verification documents can be discussed as part of this review process. BMP verification was last discussed on the February 2019 Water Quality GIT meeting and the July 2019 WQGIT meeting.as well as February, March and September 2019 Watershed Technical Workgroup meetings and the February 2019 Forestry Workgroup Meeting. The approval of new or modified verification protocols currently goes through the relevant source-sector workgroup and the MB/GITs for approval. Annually, jurisdictions provide input on the grant guidance, which includes BMP verification requirements.
Process to expedite inclusion of new BMPs in CAST and associated tools		PSC/ MB/ WQGIT/ workgroups	Current partnership-approved process for "new" BMPs: Protocol for the Development, Review, and Approval of Loading and Effectiveness Estimates for Nutrient and Sediment Controls in the Chesapeake Bay Watershed Model Timing is controlled by prior PSC, MB, WQGIT decisions.
Bay Watershed Data Dashboard	Line 57, 67, 68 / Action #8.3	STAR GIS team, CBP modeling team, WQGIT, jurisdictions	Beta version available at: <u>Bay Watershed Dashboard</u> . Currently contains water quality monitoring data and trends, watershed data to help geographically target implementation, CAST output data, current BMP implementation information and data to help guide land conservation decisions.

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Optimization	?/Action #7.1, 7.3	CBPO Modeling	On-going work – Contact: Dan Kaufman, Research Scientist, Chesapeake Research
engine that builds from		Modeling Team, CAST	Consortium, (410) 267-5744, dkaufman@chesapeakebay.net
		,	
previous		Team,	
progress year	1: 57 (7 (0 /	WQGIT	1 D W (1 1D 11 1/2 11/2 (1
Tools to facility	Line 57, 67, 68 /	USGS, STAR	1. <u>Bay Watershed Dashboard</u> (in addition to have a tool to sort/filter BMPs based on
implementation	Action #8.3	Integrated	removal and cost efficiencies, also contains a section on maximizing co-benefits
targeting,		Trends and	based on TetraTech BMP Impact Scoring Report.
maximize co-		Assessment	2. "Cross-GIT Mapping" tool to understand geographic opportunities for restoration
benefits and		WG, WQGIT,	and conservation co-benefits. See: Maps in the Chesapeake Bay Watershed Model
improve cost		State	Phase 6 Map Viewer and the methods used to identify and merge datasets
effectiveness		Agencies	3. EPA currently has a 6-year cooperative agreement with the Chesapeake
			Conservancy which includes a project to build off the Cross-GIT mapping project
			and/or incorporate that info into the Watershed Data Dashboard.
			4. Under the 6-year cooperative agreement with the Chesapeake Conservancy is
			working with Chesapeake Commons and Drexel University to develop products for
			BMP prioritization, planning, tracking and reporting, especially at a local level.
			The first version of these tools is in development as a pilot in Pennsylvania,
			working with PADEP and Lancaster and York counties. This pilot should expand
			over the next year or two and will eventually work with all jurisdictions to
			iteratively develop the products.
Improvements	Line 51/ Action	CBPO	1. Ongoing: Updated land cover and land use information. For example, 2019 CAST
to CAST,	#5.4, 7.1, 7.2, 7.3	Modeling	updates will include updated 1-meter high resolution land cover data for certain
including		Team, CAST	areas of the watershed identified as hot spots of change (identified through
updated cost		Team,	comparing land use between years and change detection methodologies). Hotpots
data and how		WQGIT	will again be updated in June 2021. Full watershed-wide wall-to-wall updates of 1-

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CAST will be used with milestone reporting			meter high resolution land cover will be made available in June 2020 and June 2023. Full wall-to-wall updates will be converted from land cover to land use in March 2021 and March 2024. 2. Cost data updates are typically done as "new" BMPs are introduced. Currently, cost information is being updated to current dollars. CAST has several versions of cost data to choose from for the development of alternative scenarios and there are options to employ user-specified cost data.
Tools to analyze monitoring trends and target to improve water quality attainment (EPA expectations Appendix A)		USGS, STAR Integrated Trends and Assessment WG, WQGIT, State Agencies	 Bay Watershed Dashboard includes monitoring data. The EPA has also developed tools for exploring water quality standards attainment in freshwater rivers and streams (https://www.epa.gov/waterdata/attains) and for exploring all water quality data available for streams (https://watersgeo.epa.gov/mywaterway/mywaterway.html).
Process and timing for incorporating updated base data from local partners and industries	?/Action #1.3, 1.4	PSC/ MB/ WQGIT	Timing has been discussed at the WQGIT: https://www.chesapeakebay.net/channel-files/26230/data-input deadlines-and-guidan-ce-to-inform-planning-using-the-phase-6-model-clean-12072018.pdf The Management Board, in January 2016, made decisions on the timing of updates. See:

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	year workplan		
			https://www.chesapeakebay.net/what/event/management_board_meeting_february_20
			16 https://www.chesapeakebay.net/what/event/management_board_meeting_january_201 6
			PSC made decisions on timing in July 2018:
			https://www.chesapeakebay.net/channel_files/29609/i.a. psc_actions-decisions_7-9-18_final_2.pdf
Process and		MB/ WQGIT	See info directly above.
timing for			
incorporating			
updated 2025			
forecast of base			
conditions into			
CAST and			
associated tools			