EPA's Reviews of Maryland's November 14, 2015 Revised Draft BMP Verification Program Plan

Transmitted January 26, 2016

For your reference and consideration as Maryland works to further enhance its BMP verification program over the coming two years, please find a compilation of EPA's reviews of Maryland's November 14, 2015 Revised Draft BMP Verification Program Plan in the form of a series of evaluation forms.

Overarching Comments

Formatting and General Content:

1. The Panel felt that the approach of building a program plan around citations of verification procedures provided in often-lengthy attached appendices was not effective or transparent. The Panel highly recommends pulling out the relevant information (text, tables etc.) from such referenced appendices and placing them directly in the jurisdiction's program plan, and then provide a link to the full document within the program plan's text.

Was this comm Addressed:	nent suffic	iently addressed? Partially Addressed:		Not Addressed:	
		rmat and content, very e l the format and conten	•		

Use of Statistical Sampling Approaches and Practice Prioritization:

2. Anytime the jurisdictions select a subsampling percentage—e.g., 5 percent—they should document the process and rationale for how they selected that specific percentage. Simply citing a methodology used by NRCS or other data submitting partners is not sufficient in the Panel's opinion. Emphasis should be placed on documenting the criteria for subsample selection on how that percent subsampling meets the jurisdiction's own WIP and verification objectives to ensure they have achieved the Partnership's BMP Verification Principles.

Was this com Addressed:	ciently addressed? Partially Addressed:	Not Addressed:	
Comments:			

3. When using a statistical sampling based verification protocol (e.g., CTIC), the jurisdiction should clearly document how they plan to translate the findings from the statistical survey into the actual numbers and geographical distribution of practices submitted through NEIEN for crediting through the Partnership's annual progress runs.

Was this comm Addressed:	nent suffi	iciently addressed? Partially Addressed:	X	Not Addressed:			
Comments: Maryland has proposed a series of possible verification approaches for tillage practices, a number of which include statistical sampling, but they have not landed on a specific set of protocols yet.							

4. Jurisdictions should consider basing the rigor of their verification protocols by a practice's contributions to planned pollutant reductions under the jurisdiction's Watershed Implementation Plans (WIPs). Risk of practice failure may also be a workable means to prioritize verification if clear justification for assignment of risk to individual BMPs is provided.

Was this comm Addressed:	nent suffic X	iently addressed? Partially Addressed:		Not Addressed:	
Comments: Th sector.	nis commer	nt is addressed very ef	fectively a	cross all BMPs and	all

5. Jurisdictions should provide the overall percentage of the total WIP load reductions contributed by BMPs that the jurisdiction has included in its BMP verification protocols. Pennsylvania's draft program plan provides good examples of this approach (see page 5 for one example).

Was this comment sufficiently addressed? Addressed: X Partially Addressed: Not Addressed:							
Comments: Maryland does not provide specific percentages, but does use a consistent set of narrative terms across all BMPs and sectors.							

6. While the Panel recommends the prioritization of BMPs, they note that verification protocols must be developed for *all* BMPs that a jurisdiction plans to report. Therefore, the Panel is asking for the jurisdictions to fill in the blanks for any low and medium priority BMPs for which verification protocols have not yet been submitted. The Panel asks for a specific timeframe for providing verification protocols for these low and medium priority BMPs, as well as a description of the envisioned level(s) of verification, recognizing the Basinwide Framework allows for less rigorous levels of verification for these low priority practices.

Was this comment sufficiently addressed? Addressed: Partially Addressed	I: X Not Addressed:
Comments: Maryland recognizes that it has reported BMPs, specifically recognizing sor provide a complete listing of those BMPs for verification protocols for yet along with a so protocols.	ne in the text. Need Maryland to r which they have not yet developed

7. The Panel requests that all six states describe their proposed verification of septic systems/on-site treatment systems EVEN if those treatment technologies may be low priority and/or if the jurisdiction does not have plans to submit these technologies in the near future for pollutant reduction credit.

Was this comr Addressed:	nent suffic	iently addressed? Partially Address	ed:	Not Addressed:	
Comments: Fu	Illy docum	ented on pages 82-8	88.		

Practice Inspections:

8. Training requirements for inspectors were not clearly documented throughout the verification program plans. (See New York's draft agricultural plan for a good working example of what the Panel was looking for across the jurisdictions.)

Was this comm Addressed:	nent suffic	ciently addressed? Partially Addressed:		Not Addressed:		
Comments: Excellent, detailed documentation on training requirements with URL links to specific regulatory requirements and training documentation.						

9. The Panel feels that independent, third party review is necessary in most cases to meet the Public Confidence Principle.

Was this comn Addressed:	nent suffic	ciently addressed? Partially Addressed:		Not Addressed:			
Comments: Maryland has specific documentation for independent reviews for each BMP across all source sectors.							

10. If a BMP has been inspected and found to meet standards, then the jurisdiction needs to clearly document their plans to 'restart the clock' on that practice and apply a new life span.

Was this comn Addressed:	nent suffici	iently addressed? Partially Addressed:		Not Addressed:			
Comments: Maryland provided explicit documentation on the specific steps taken for each BMP across all source sectors.							

11. If a BMP has been inspected and found not to meet standards, then the jurisdiction needs to clearly document the process for corrective maintenance and the application of a new life span, or alternatively, to remove it from the jurisdiction's tracking data base.

Was this comm Addressed:		iently addressed? Partially Addressed:		Not Addressed:	
Comments: Ma for each BMP	•	ovided explicit docum source sectors.	entation on	the specific steps t	aken

12. Across the jurisdictions, the way that verification of erosion and sediment control for active construction and stormwater management for post-construction was conflated and/or confusing at times. A clear distinction between the verification approaches for these very different categories of BMPs should be provided.

Was this comn Addressed:	nent suffic	eiently addressed? Partially Addressed:		Not Addressed:		
Comments: Maryland addressed verification of erosion and sediment control for active construction and stormwater management for post-construction in two separate sections.						

Enhancing Existing Programs:

13. If a jurisdiction has not finished issuing all its MS4 permits, the Panel questions relying on MS4 permits for carrying out verification. Jurisdictions must develop a program plan that is consistent with the urban sector guidance, and cannot simply default to MS4 methodologies.

Was this comm Addressed:	nent suffic	eiently addressed? Partially Addressed:	Not Addressed:	
Comments:				

14. Where Bay TMDL NPDES permit limits are not yet met, a schedule for treatment upgrades and issuance of associated permits should be included in the jurisdictions' wastewater treatment verification sections.

Was this comm Addressed:	nent suffic	iently addressed? Partially Addressed:	Not Addressed:	
Comments:				

15. Verification procedures for BMPs owned or operated by Federal agencies, facilities and landowners were essentially absent from the jurisdictions' initial draft BMP verification program plans—this is an issue that needs to be addressed by both the jurisdictions AND their federal agency and facility partners.

Was this comment suf Addressed:	fficiently addressed? Partially Addressed:	X	Not Addressed:	
stormwater and waster	ecognition of federal facil water treatment sections, employed by those facilit	but no exp	olicit references to the	

Maryland

Agriculture (Green)

The Panel recognizes the incremental improvements in Maryland's AIRs, but more can be done to further improve the AIRs data.

Was this comr Addressed:	nent suffic	ciently addressed? Partially Addressed:		Not Addressed:	
	•	ocumented enhancement e to make improvement	•		s and

Need to address agricultural riparian forest buffers.

Was this comm Addressed:	nent suffic	ciently addressed? Partially Addressed:	Not Addressed:	
Comments: Ac	ddressed o	on pages 38-42.		

No mention of CAFOs and different inspection levels compared with AFOs.

Was this comment suff Addressed:	iciently addressed? Partially Addressed:		Not Addressed:	
Comments: Did not see verification protocols.	where this comment wa	as releva	nt to Maryland's	

xpand the proposed Maryland verification team's responsibilities to include nutrient management plan verification.

Was this com Addressed:	ment suffic	ciently addressed? Partially Addressed:	Not Addressed:	
Comments:				

The documentation could be better organized and a bit more concise.

Was this comr Addressed:	ment suffic	ciently addressed? Partially Addressed:	Not Addressed:	
Comments:				

The Panel asked Maryland to provide more documentation on their nutrient management plan verification procedures.

Was this com	ment sufficiently addressed?		
Addressed:	X Partially Addressed:	Not Addressed:	
Comments:			

Forestry (Red)

Maryland did not appear to follow the Forestry Workgroup verification guidance's inspection schedule.

Was this comm Addressed:	nent suffic	eiently addressed? Partially Addressed:		Not Addressed:	
Comments: Graspects of fore	2 1	anded and updated verif ces.	ication pr	otocols addressing	all

Need updated information on forestry harvesting practices.

Was this comm Addressed:	nent suffic	ciently addressed? Partially Addressed:	Not Addressed:	
Comments: Se	e pages 4	6-48.		

The overall Maryland forestry verification program is inadequate in that it is inconsistent with Forestry Workgroup's sector guidance and is missing many key elements. This is not a surprise since the submitted forestry practice verification document was dated 2011, WELL prior to the Partnership's adoption of the Basinwide BMP Verification Framework in September 2014.

Was this comm Addressed:	ent suffic	ciently addressed? Partially Addressed:		Not Addressed:	
Comments: Greater aspects of fores	v 1	anded and updated verifices.	cation pr	otocols addressing	all

Does not include any verification protocols for urban forestry practices.

Was this comr Addressed:	nent suff	iciently addressed? Partially Addressed:	Not Addressed:	X
Comments:				

The Panel asked that Maryland pull their riparian forest buffers verification procedures from their agricultural section and place into them into Maryland's forestry section.

Was this comment sufficiently addressed?					
Addressed:	X Partially Addressed:	Not Addressed:			
Comments:					

The Panel asked Maryland to reflect the Partnership's Forestry Workgroup verification guidance recommendations for additional follow-up checks in their revised BMP verification program plan. Specifically, the Panel asked Maryland to follow the forestry guidance's science-based recommendations that the initial on-site inspection be followed with a site check within 2-4 years to confirm that the buffer is successfully established, or that maintenance is performed to bring the buffer back to standard, and then transition to a statistical sub-sampling based system of spot checks with a focus on buffers of higher risk for failure. As the buffer nears end of contract, a site visit is recommended to encourage buffer retention through re-enrollment, easement or voluntary retention.

Was this comment sufficiently addressed?				
Addressed:	X Partially Addressed:	Not Addressed:		
Comments:				

Regarding other forestry practices, Maryland submitted a plan dated from 2011. This plan did not address urban tree canopy nor reflect the Partnership's recent work on the Tree Canopy Management Strategy and the Urban Tree Canopy expert panel.

a. Maryland would like the report urban tree canopy/tree planting data provided by their counties—the Panel agreed as long as the state has a system in place for ensuring the state agencies understand the counties' verification protocols and they are consistent with the state's program. The forestry verification guidance provides recommendations on crediting and verification of urban tree planting and riparian buffers. Maryland can take advantage of its biennial workplan for the Tree Canopy Management Strategy to develop its tracking and verification of urban forestry practices as soon as possible.

Was this comment sufficiently addressed?					
Addressed:	X Partially Addressed:	Not Addressed:			
Comments:					

For follow-up inspections: "Annual MACS spot-check reviews. Field inspections determine whether the BMPs were constructed according to plans and specifications and whether the BMPs are being maintained in accordance with contract." 10% of practices are re-verified annually, and information put in MDA's Conservation Tracker regardless of funding source. This is current procedure and does not follow FWG guidelines to revisit all sites after planting (years 1-4) to ensure establishment.

Was this comment sufficiently addressed?					
Addressed:	X Partially Addressed:	Not Addressed:			
Comments:					

MD's Protocol is clear about the first visit, at inception, but it is not clear about a second visit that is needed during the establishment period (1-4 years) to assure that any maintenance problems are detected and corrected, and risks identified. Re-visits happen on 10% of the practice sites, presumably for the life of the contract (15 yrs), but there is no mention of a risk-based statistical sampling with 80% confidence, nor is there mention of 100% inspection near the end of contract to encourage/facilitate buffer re-enrollment or retention.

Was this comment sufficiently addressed?					

Do proposed site inspection methods focus on common maintenance issues specifically related to water quality standards such as channelization or concentrated flows?

Not found in MD's Protocol.

Was this com	ment sufficiently addressed?		
Addressed:	Partially Addressed:	Not Addressed:	
Comments: D addressed or		nt well enough to know if it was	

Do statistical sampling methods document how they demonstrate a clear improvement over the current sampling rate? (The recommended rate is 80% confidence in reported practices)

MD's Protocol does not mention statistical sampling methods. There is no additional sampling suggested for RFB than what is currently being done.

Was this comment sufficiently addressed?					
Addressed:	X Partially Addressed:	Not Addressed:			
Comments:					

Does the program rely upon qualified local forestry partners for tracking, reporting, and maintenance for expanded tree canopy practices?

Overall, there is a lack of verification for urban forestry practices, especially considering the reliance on urban RFB.

Tree Canopy practices are represented by a new Management Strategy as well as an Expert Panel to determine efficiencies of the BMP. MD Forest Service is helping to develop improved tracking procedures and a Workplan which will help with verification.

Was this comment sufficiently addressed?					
Addressed:	X Partially Addressed:	Not Addressed:			
Comments:					

Stream Restoration (Red)

There are only two references to stream restoration within the 8 documents that Maryland provided: page 71 in the sediment and stormwater document mentions load reductions for an interim rate; and page 4 in the forestry document mentions a potential BMP category. Neither provides verification information.

Was this comr Addressed:	nent suffic	ciently addressed? Partially Addressed:	Not Addressed:	
Comments:				

The Panel asked Maryland to review and answer the applicable stream restoration evaluation review questions contained within Appendix A on page 51 in the Panel's August 7th report to the jurisdictions in their revised wetlands restoration verification protocol documentation.

Was this comment sufficiently addressed?					
Addressed:	Partially Addressed:	X Not Addressed:			
Comments:					

The Panel emphasized the need to focus on verifying functionality, not just presence.

Was this com	ment sufficiently addressed?		
Addressed:	Partially Addressed:	Not Addressed:	
	Inclear from the updated docu	umentation as to whether this not addressed at all.	

Urban Stormwater (Yellow)

The reader is required to wade through detailed standard operation procedures in order to try and piece together what the actual verification procedures for urban BMPs.

Was this comr Addressed:	nent suffic	ciently addressed? Partially Addressed:	Not Addressed:	
Comments:				

Missing clear documentation of the who, when, where and how responsibilities for each of the described urban stormwater verification procedures.

Was this comm Addressed:	nent suffic	ciently addressed? Partially Addressed:		Not Addressed:	
		, when, where and how a the supporting text.	re docum	nented in a series of	tables

Fill out Table 8 from the Basinwide Framework, answer the questions provided in the urban stormwater sector section of the Panel's evaluation form (see Appendix A), and provide an executive summary up front that offers key elements of the detailed SOP document—think in terms of providing the reader with a preview of and a guide to the detailed SOP document.

Was this comr Addressed:	ment suffi	ciently addressed? Partially Addressed:	Not Addressed:	
Comments:				

Clarify the field performance verification schedule?

Was this comment su Addressed:	ufficiently addressed? Partially Addressed:		Not Addressed:	
Comments: Not unde addressed or not.	erstand the comment well	enough to	o determine if it has	s been

The Panel asked for documentation on the state's plans for evaluating the MS4s programs and ensuring those inspections are consistent with Maryland's BMP verification program.

Was this com	ment sufficiently addressed?		
Addressed:	X Partially Addressed:	Not Addressed:	
Comments:			

The most troubling issue was to their failure to account for cleaning up their legacy BMPs, or provide any guidance to their MS4s on how to do it themselves. This is noteworthy because MD has the largest number of historical stormwater BMPs of any Bay state due to their 4 decades of doing stormwater BMPs. Without this degree of field verification, there is strong possibility that the model would overcredit the aggregate nutrient reductions achieved by stormwater practices in Maryland.

Was this com	ment sufficiently addressed?		
Addressed:	X Partially Addressed:	Not Addressed:	
Comments:			

Wastewater (Red)

Provide documentation for verification of septic system/on-site treatment systems.

Was this comr Addressed:	nent suffic	ciently addressed? Partially Addressed:	Not Addressed:	
Comments:				

Provide an up-front executive summary which includes answers to the set of wastewater sector questions contained in the Panel's evaluation form.

Was this comm Addressed:	nent suffi X	ciently addressed? Partially Addressed:	Not Addressed:	
Comments:				

The Panel asked for documentation that would address the wastewater evaluation review questions listed in Appendix A and pages 51-52, and providing links to the more detailed documentation.

Was this com	ment sufficiently addressed?		
Addressed:	X Partially Addressed:	Not Addressed:	
Comments:			

The Panel asked to be sure that Maryland also address verification for non-significant facilities which are seeking credit for nutrient load reductions.

Was this com	nment sufficiently addressed?		
Addressed:	X Partially Addressed:	Not Addressed:	
Comments:			

CSO is not covered. I recommend that MD specifically answer the CSO questions in the evaluation form. This assume that Baltimore and other areas have CSO program and contribute something to Bay nutrient/sediment reductions.

Was this com	ment sufficiently addressed?		
Addressed:	X Partially Addressed:	Not Addressed:	
Comments:			

Onsite system verification is not covered. Maryland should answer the questions regarding septic tanks in the evaluation form, as part of its septic tank verification protocol. Such a protocol is needed immediately, as this is a priority practice accounting for 7.2% of the nitrogen reduction in the WIP.

Was this com	ment sufficiently addressed?		
Addressed:	X Partially Addressed:	Not Addressed:	
Comments:			

I recommend that MD provide a narrative which summarizes the status of its WWTW nutrient reduction program, as an intro to its answers to the Panel's evaluation form. The purpose of such a narrative would be public information, so readers understand context and what's been done.

Was this com	ment sufficiently addressed?		
Addressed:	X Partially Addressed:	Not Addressed:	
Comments:			

There is no mention of verifying that CSOs, SSOs, or other illicit discharges are being reduced. There is also no verification for septic systems.

Was this com	ment sufficiently addressed?		
Addressed:	X Partially Addressed:	Not Addressed:	
Comments:			

Wetlands (Red)

Provide documentation of Maryland's wetland verification programs by providing complete answers to the series of questions contained within the wetlands sector section of the Panel's evaluation form (see Appendix A).

Was this com Addressed:	nent suff	ficiently addressed? Partially Addressed:	X	Not Addressed:	
Comments:					

Even if wetlands practices do not make up a significant part of Maryland's WIP reduction goals, verification information should still be provided, or a timeline for when the program will be fully developed should be submitted.

Was this comm Addressed:	nent suffic	ciently addressed? Partially Addressed:	Not Addressed:	
Comments:				

The Panel recommended Maryland follow Table 8 within the Basinwide BMP Verification Framework on page 34 as the format for presenting the sector specific BMP verification protocols and procedures.

Was this comr Addressed:	nent suffic	ciently addressed? Partially Addressed:	Not Addressed:	
Comments:				

Format

Submitted 8 documents for 4 sectors (Ag, forestry, stormwater, and wastewater). Major reorganization of the information is needed:

Ag BMP data - Need a comprehensive, stand-alone QAPP. The document "Maryland Agriculture BMP Implementation Reporting Procedures" mainly addresses verification. MDA has an approved QAPP for Cost-share BMPs (dated 3/30/12) that may provide missing information.

Was this comr Addressed:	nent suffic	eiently addressed? Partially Addressed:	Not Addressed:	
Comments:				

Forestry – Need a comprehensive, stand-alone QAPP for forestry BMPs. Add verification methods from "QAPP for Reporting Maryland NPS BMP Data via NEIEN" to "Procedures for Reporting Forest-related Practices".

Was this comr Addressed:	ment suffic	ciently addressed? Partially Addressed:	Not Addressed:	
Comments:				

Urban BMPs – Create a new, stand-alone QAPP for Stormwater and Sediment & Erosion Control BMPS. Consolidate information from numerous documents below, using format in Appendix Q Guidance:

- o BMP Verification Protocols/SOP for Sediment and Stormwater Program Review Division;
- Attachment A Urban BMP Database; MS4 Annual Report SOP; and Geodatabase QAPP;
- QAPP for Reporting Maryland NPS BMP Data via NEIEN;
- Erosion and Sediment Control SOP; and MDE SSA, etc.; and
- o Stormwater SOP; and Restoration Plans and Total Maximum Daily Loads SOP

Was this comr Addressed:	nent suffic	ciently addressed? Partially Addressed:	Not Addressed:	
Comments:				

Wastewater – Need a comprehensive, stand-alone QAPP for submitting point source data to the CBPO. Combine and update information from two documents: "QAPP for Technical Support for the ENR Program" and "Quality Assurance and Quality Control Plan for ICIS Data Management".

Was this com	ne <u>nt su</u> ffic	iently addressed?		
Addressed:	Χ	Partially Addressed:	Not Addressed:	
Comments:				

Wetland and Stream Restoration – Create one or two QAPPs for these sectors. Alternatively, insert the procedures for wetland and stream BMPs into the Forestry QAPP since all of these are managed within Maryland DNR. This combined QAPP would then cover 3 sectors.

Was this comm Addressed:	nent suffic	iently addressed? Partially Addressed:	Not Addressed:	
Comments:				

Overarching Comments

Formatting and General Content:

16. The Panel felt that the approach of building a program plan around citations of verification procedures provided in often-lengthy attached appendices was not effective or transparent. The Panel highly recommends pulling out the relevant information (text, tables etc.) from such referenced appendices and placing them directly in the jurisdiction's program plan, and then provide a link to the full document within the program plan's text.

Was this comm Addressed:	nent suffic	ciently addressed? Partially Addressed:		Not Addressed:	
Comments: Ta	bles, figu	res and texts seems to ha	ve been	included in the plan	itself.

Use of Statistical Sampling Approaches and Practice Prioritization:

17. Anytime the jurisdictions select a subsampling percentage—e.g., 5 percent—they should document the process and rationale for how they selected that specific percentage. Simply citing a methodology used by NRCS or other data submitting partners is not sufficient in the Panel's opinion. Emphasis should be placed on documenting the criteria for subsample selection on how that percent subsampling meets the jurisdiction's own WIP and verification objectives to ensure they have achieved the Partnership's BMP Verification Principles.

Was this comme Addressed:	nt suffi	ciently addressed? Partially Addressed	:	Not Addressed:	X
Comments: I did sub-sampling per		e a specific process a e.	nd rational	e for how MD select	ted a

18. When using a statistical sampling based verification protocol (e.g., CTIC), the jurisdiction should clearly document how they plan to translate the findings from the statistical survey into the actual numbers and geographical distribution of practices submitted through NEIEN for crediting through the Partnership's annual progress runs.

Was this comn Addressed:	nent suffic X	iently addressed? Partially Addressed:	Not Addressed:	
		was included in the Ag mitted through NEIEN	on protocols about h	now the

19. Jurisdictions should consider basing the rigor of their verification protocols by a practice's contributions to planned pollutant reductions under the jurisdiction's Watershed Implementation Plans (WIPs). Risk of practice failure may also be a workable means to prioritize verification if clear justification for assignment of risk to individual BMPs is provided.

Was this comm Addressed:	nent suffic	iently addressed? Partially Addressed	:		Not Addressed:		
Comments: MD does indicate whether a practice is a high or low WIP priority, as well as other ecosystem benefits beyond water quality.							

20. Jurisdictions should provide the overall percentage of the total WIP load reductions contributed by BMPs that the jurisdiction has included in its BMP verification protocols. Pennsylvania's draft program plan provides good examples of this approach (see page 5 for one example).

Was this comm Addressed:		iciently addressed? Partially Addressed:		Not Addressed:	X		
Comments: Did not see reference to WIP load reductions contributed by BMPs.							

21. While the Panel recommends the prioritization of BMPs, they note that verification protocols must be developed for *all* BMPs that a jurisdiction plans to report. Therefore, the Panel is asking for the jurisdictions to fill in the blanks for any low and medium priority BMPs for which verification protocols have not yet been submitted. The Panel asks for a specific timeframe for providing verification protocols for these low and medium priority BMPs, as well as a description of the envisioned level(s) of verification, recognizing the Basinwide Framework allows for less rigorous levels of verification for these low priority practices.

Was this comment su Addressed:	ufficiently addressed? Partially Addressed:	Not Addressed:	X
•	d does specify those priori to be verified. However, th ver-priority BMP.	U	

22. The Panel requests that all six states describe their proposed verification of septic systems/on-site treatment systems EVEN if those treatment technologies may be low priority and/or if the jurisdiction does not have plans to submit these technologies in the near future for pollutant reduction credit.

Was this comm Addressed:		ciently addressed? Partially Addressed:		Not Addressed:			
Comments: Yes, MD has proposed a verification plan for septic systems							

Practice Inspections:

23. Training requirements for inspectors were not clearly documented throughout the verification program plans. (See New York's draft agricultural plan for a good working example of what the Panel was looking for across the jurisdictions.)

Was this comment suf Addressed:	ficiently addressed? Partially Addressed:	X	Not Addressed:	
forestry, links were pro	equirements were documovided for E&S inspector nis satisfies the Verification	training r		

24. The Panel feels that independent, third party review is necessary in most cases to meet the Public Confidence Principle.

Was this comm Addressed:	nent suffic	iently addressed? Partially Addressed	1:		Not Addressed:		
Comments: Independent, third party verification is included in Maryland's plan.							

25. If a BMP has been inspected and found to meet standards, then the jurisdiction needs to clearly document their plans to 'restart the clock' on that practice and apply a new life span.

Was this comn Addressed:	nent suffic	eiently addressed? Partially Addressed:		Not Addressed:		
Comments: This information is summarized in their sector protocol design summary table, as well as in the text of the document.						

26. If a BMP has been inspected and found not to meet standards, then the jurisdiction needs to clearly document the process for corrective maintenance and the application of a new life span, or alternatively, to remove it from the jurisdiction's tracking data base.

Was this comn Addressed:		iently addressed? Partially Addressed:		Not Addressed:		
Comments: This information is summarized in their sector protocol design summary table, as well as in the text of the document.						

27. Across the jurisdictions, the way that verification of erosion and sediment control for active construction and stormwater management for post-construction was conflated and/or confusing at times. A clear distinction between the verification approaches for these very different categories of BMPs should be provided.

Was this comm Addressed:	nent suffic	iently addressed? Partially Addressed:		Not Addressed:			
Comments: I felt that MD adequately made this distinction.							

Enhancing Existing Programs:

28. If a jurisdiction has not finished issuing all its MS4 permits, the Panel questions relying on MS4 permits for carrying out verification. Jurisdictions must develop a program plan that is consistent with the urban sector guidance, and cannot simply default to MS4 methodologies.

Was this comment suff Addressed:	ficiently addressed? Partially Addressed:	X	Not Addressed:	
jurisdictions (particula	lso mentions visual inspe rly for those non-regulate same verification procedu	ory BMPs). However, these B	MPs

29. Where Bay TMDL NPDES permit limits are not yet met, a schedule for treatment upgrades and issuance of associated permits should be included in the jurisdictions' wastewater treatment verification sections.

Was this comn Addressed:	nent suffic	eiently addressed? Partially Addressed:		Not Addressed:			
Comments: Included – see pages 79-80.							

30. Verification procedures for BMPs owned or operated by Federal agencies, facilities and landowners were essentially absent from the jurisdictions' initial draft BMP verification program plans—this is an issue that needs to be addressed by both the jurisdictions AND their federal agency and facility partners.

Was this comr Addressed:	nent suff	ficiently addressed? Partially Addressed:	Not Addressed:	X
Comments:				

Maryland

Agriculture (Green)

The Panel recognizes the incremental improvements in Maryland's AIRs, but more can be done to further improve the AIRs data.

Was this comm Addressed:	nent suffic	ciently addressed? Partially Addressed:	Not Addressed:	
Comments: Ye	es, please	refer to page 26		

Need to address agricultural riparian forest buffers.

Was this comr Addressed:	ment suffic	ciently addressed? Partially Addressed:		Not Addressed:	
Comments: Ag page 38)	g riparian :	forest buffers is addresse	ed under	Section 3.2 (starting	g on

No mention of CAFOs and different inspection levels compared with AFOs.

Was this comment su Addressed:	fficiently addressed? Partially Addressed:		Not Addressed:	X
Comments: No inforr	nation added to address th	is comm	ent.	

Expand the proposed Maryland verification team's responsibilities to include nutrient management plan verification.

Was this comm Addressed:	nent suffic	ciently addressed? Partially Addressed:	Not Addressed:	
Comments: NI	MP verific	cation is included.		

The documentation could be better organized and a bit more concise.

Was this comm Addressed:	nent suffic	ciently addressed? Partially Addressed:	Not Addressed:	
		the prior draft to make a ty organized to me – sim		ent is

The Panel asked Maryland to provide more documentation on their nutrient management plan verification procedures.

Was this com	ment sufficiently addressed?		
Addressed:	Partially Addressed:	Not Addressed:	
Comments: W Maryland?	/hat specific additional docum	entation did the panel reque	st of

Forestry (Red)

Maryland did not appear to follow the Forestry Workgroup verification guidance's inspection schedule.

Was this comr Addressed:		ficiently addressed? Partially Addressed:		Not Addressed:	
Comments: No	eed to kr	now the Forestry Workg	oup's sc	hedule	

Need updated information on forestry harvesting practices.

Was this comr Addressed:	nent suf	ficiently addressed? Partially Addressed:	X	Not Addressed:	
Comments: Re information be		s are still from 2007/200 009?	9. Did the	Verification Panel 1	request

The overall Maryland forestry verification program is inadequate in that it is inconsistent with Forestry Workgroup's sector guidance and is missing many key elements. This is not a surprise since the submitted forestry practice verification document was dated 2011, WELL prior to the Partnership's adoption of the Basinwide BMP Verification Framework in September 2014.

Was this comment sufficiently addressed? Addressed: Partially Addressed: Not Addressed:	:					
Comments: I do not feel qualified to make this determination, as I am not thoroughly familiar with the Forestry Workgroup's sector guidance.						

Does not include any verification protocols for urban forestry practices.

Was this comm Addressed:	ent suff	iciently addressed? Partially Addressed:	X	Not Addressed:	
Comments: The looking for som		reference to urban fores more.	t buffers bu	It not sure if the par	nel was

The Panel asked that Maryland pull their riparian forest buffers verification procedures from their agricultural section and place into them into Maryland's forestry section.

Was this comment sufficiently addressed?					
Addressed:	X Partially Addressed:	Not Addressed:			
	laryland included their riparian their Forestry section.	forest buffers verification			

The Panel asked Maryland to reflect the Partnership's Forestry Workgroup verification guidance recommendations for additional follow-up checks in their revised BMP verification program plan. Specifically, the Panel asked Maryland to follow the forestry guidance's science-based recommendations that the initial on-site inspection be followed with a site check within 2-4 years to confirm that the buffer is successfully established, or that maintenance is performed to bring the buffer back to standard, and then transition to a statistical sub-sampling based system of spot checks with a focus on buffers of higher risk for failure. As the buffer nears end of contract, a site visit is recommended to encourage buffer retention through re-enrollment, easement or voluntary retention.

Was this com	ment sufficiently ad	dressed?		
Addressed:	Partially Addr	essed:	X Not Addressed:	
	nis seems to be the o ed riparian forest bu		shared agricultural buffer	s and

Regarding other forestry practices, Maryland submitted a plan dated from 2011. This plan did not address urban tree canopy nor reflect the Partnership's recent work on the Tree Canopy Management Strategy and the Urban Tree Canopy expert panel.

b. Maryland would like the report urban tree canopy/tree planting data provided by their counties—the Panel agreed as long as the state has a system in place for ensuring the state agencies understand the counties' verification protocols and they are consistent with the state's program. The forestry verification guidance provides recommendations on crediting and verification of urban tree planting and riparian buffers. Maryland can take advantage of its biennial workplan for the Tree Canopy Management Strategy to develop its tracking and verification of urban forestry practices as soon as possible.

Was this com	ment sufficiently addressed?		
Addressed:	Partially Addressed:	Not Addressed:	X
Comments: P	Plan still does not address urban	a tree canopy	

For follow-up inspections: "Annual MACS spot-check reviews. Field inspections determine whether the BMPs were constructed according to plans and specifications and whether the BMPs are being maintained in accordance with contract." 10% of practices are re-verified annually, and information put in MDA's Conservation Tracker regardless of funding source. This is current procedure and does not follow FWG guidelines to revisit all sites after planting (years 1-4) to ensure establishment.

nent sufficiently addressed?			
X Partially Addressed:	Not Addressed:		
Comments: 100% are checked a year after planting.			
	X Partially Addressed:	X Partially Addressed: Not Addressed:	

MD's Protocol is clear about the first visit, at inception, but it is not clear about a second visit that is needed during the establishment period (1-4 years) to assure that any maintenance problems are detected and corrected, and risks identified. Re-visits happen on 10% of the practice sites, presumably for the life of the contract (15 yrs), but there is no mention of a risk-based statistical sampling with 80% confidence, nor is there mention of 100% inspection near the end of contract to encourage/facilitate buffer re-enrollment or retention.

Was this com	ment sufficiently addressed?		
Addressed:	Partially Addressed:	X Not Addressed:	
Comments: Cocost shared.	ost shared is two years prior to	expiration but not the case w	/ith non-

Do proposed site inspection methods focus on common maintenance issues specifically related to water quality standards such as channelization or concentrated flows?

Not found in MD's Protocol.

ddressed?			
dressed:	Not Addressed: X		
Comments: Found no reference to these two issues.			
	dressed:		

Do statistical sampling methods document how they demonstrate a clear improvement over the current sampling rate? (The recommended rate is 80% confidence in reported practices)

MD's Protocol does not mention statistical sampling methods. There is no additional sampling suggested for RFB than what is currently being done.

Was this com	ment sufficiently addressed?		
Addressed:	Partially Addressed:	Not Addressed:	X
Comments: D currently beir	•	additional sampling beyond wh	at is
Does the program rely upon qualified local forestry partners for tracking, reporting, and maintenance for expanded tree canopy practices?

Overall, there is a lack of verification for urban forestry practices, especially considering the reliance on urban RFB.

Tree Canopy practices are represented by a new Management Strategy as well as an Expert Panel to determine efficiencies of the BMP. MD Forest Service is helping to develop improved tracking procedures and a Workplan which will help with verification.

Was this com	ment sufficiently addressed?		
Addressed:	Partially Addressed:	Not Addressed:	X
Comments: D verification pl		as a practice included in their	Forestry

Stream Restoration (Red)

There are only two references to stream restoration within the 8 documents that Maryland provided: page 71 in the sediment and stormwater document mentions load reductions for an interim rate; and page 4 in the forestry document mentions a potential BMP category. Neither provides verification information.

Was this comr Addressed:	nent suffic	ciently addressed? Partially Addressed:		Not Addressed:	
Comments: M agricultural an	•	cluded a specific section See section 4.	n on strea	m restoration –	

The Panel asked Maryland to review and answer the applicable stream restoration evaluation review questions contained within Appendix A on page 51 in the Panel's August 7th report to the jurisdictions in their revised wetlands restoration verification protocol documentation.

Was this com	ment sufficiently addressed?		
Addressed:	Partially Addressed:	Not Addressed:	
Comments: L	Inable to determine if this con	nment has been addressed.	

The Panel emphasized the need to focus on verifying functionality, not just presence.

Was this com	nent sufficiently addressed?		
Addressed:	X Partially Addressed:	Not Addressed:	
Comments: In urban and Ag.		ntenance and functionality for	both

Urban Stormwater (Yellow)

The reader is required to wade through detailed standard operation procedures in order to try and piece together what the actual verification procedures for urban BMPs.

Was this comm Addressed:	nent suffic	ciently addressed? Partially Addressed:		Not Addressed:	
Comments: Fo	ormat is si	milar to other sections, v	which I fo	und easy to follow.	

Missing clear documentation of the who, when, where and how responsibilities for each of the described urban stormwater verification procedures.

Was this comr Addressed:	ment suffic	ciently addressed? Partially Addressed:		Not Addressed:	
Comments: I f plan.	ound this	information to be includ	ed in the	stormwater verifica	ition

Fill out Table 8 from the Basinwide Framework, answer the questions provided in the urban stormwater sector section of the Panel's evaluation form (see Appendix A), and provide an executive summary up front that offers key elements of the detailed SOP document—think in terms of providing the reader with a preview of and a guide to the detailed SOP document.

Was this comm Addressed:	nent suffic	ciently addressed? Partially Addressed:	Not Addressed:	
Comments: Inc	cluded			

Clarify the field performance verification schedule?

The Panel asked for documentation on the state's plans for evaluating the MS4s programs and ensuring those inspections are consistent with Maryland's BMP verification program.

Was this com	ment sufficiently addressed?		
Addressed:	X Partially Addressed:	Not Addressed:	
Comments: D panel)	ocumentation is included (I do	n't know if it's enough to satist	fy the

The most troubling issue was to their failure to account for cleaning up their legacy BMPs, or provide any guidance to their MS4s on how to do it themselves. This is noteworthy because MD has the largest number of historical stormwater BMPs of any Bay state due to their 4 decades of doing stormwater BMPs. Without this degree of field verification, there is strong possibility that the model would overcredit the aggregate nutrient reductions achieved by stormwater practices in Maryland.

Was this com	nment sufficiently addressed?		
Addressed:	Partially Addressed:	X Not Addressed:	
	Maryland does provide docume is documentation is enough to	/	BMPs –

Wastewater (Red)

Provide documentation for verification of septic system/on-site treatment systems.

Was this comm Addressed:	ment suffic	ciently addressed? Partially Addressed:		Not Addressed:	
Comments: Th	nis inform	ation is included in Mary	/land's pl	an.	

Provide an up-front executive summary which includes answers to the set of wastewater sector questions contained in the Panel's evaluation form.

The Panel asked for documentation that would address the wastewater evaluation review questions listed in Appendix A and pages 51-52, and providing links to the more detailed documentation.

Was this com	ment sufficiently addressed?		
Addressed:	Partially Addressed:	Not Addressed:	
	isted in Appendix A of the Ver ing referenced here?	ification Framework? Or is and	other

The Panel asked to be sure that Maryland also address verification for non-significant facilities which are seeking credit for nutrient load reductions.

Was this com	ment sufficiently addressed?		
Addressed:	X Partially Addressed:	Not Addressed:	
Comments: D	oes address non-significant fac	ilities.	

CSO is not covered. I recommend that MD specifically answer the CSO questions in the evaluation form. This assume that Baltimore and other areas have CSO program and contribute something to Bay nutrient/sediment reductions.

Was this comn	nent sufficiently addressed?		
Addressed:	Partially Addressed:	X Not Addressed:	
	aryland does not provide a ve ve a section on CSO improven	erification plan for CSO disconne nents.	ection

Onsite system verification is not covered. Maryland should answer the questions regarding septic tanks in the evaluation form, as part of its septic tank verification protocol. Such a protocol is needed immediately, as this is a priority practice accounting for 7.2% of the nitrogen reduction in the WIP.

Was this com	nment sufficiently addressed?	
Addressed:	X Partially Addressed:	Not Addressed:
Comments: V plan.	Verification of septic systems are	e included in Maryland's verification

I recommend that MD provide a narrative which summarizes the status of its WWTW nutrient reduction program, as an intro to its answers to the Panel's evaluation form. The purpose of such a narrative would be public information, so readers understand context and what's been done.

Was this comment sufficiently addressed?				
Addressed: X Partially Addressed:	Not Addressed:			
Comments: Such an intro is provided.				

There is no mention of verifying that CSOs, SSOs, or other illicit discharges are being reduced. There is also no verification for septic systems.

Was this com	ment sufficiently addressed?		
Addressed:	X Partially Addressed:	Not Addressed:	
Comments: Y	es, sections have been added t	o address these issues.	

Wetlands (Red)

Provide documentation of Maryland's wetland verification programs by providing complete answers to the series of questions contained within the wetlands sector section of the Panel's evaluation form (see Appendix A).

Was this com Addressed:	nent suff	iciently addressed? Partially Addressed:	X	Not Addressed:	
Comments: It wetlands.	does hav	e a verification plan for	Ag wetlan	ds but not for urban	

Even if wetlands practices do not make up a significant part of Maryland's WIP reduction goals, verification information should still be provided, or a timeline for when the program will be fully developed should be submitted.

Was this comr Addressed:	nent suff	iciently addressed? Partially Addressed:	X	Not Addressed:	
Comments: Se	e comme	ent immediately above.			

The Panel recommended Maryland follow Table 8 within the Basinwide BMP Verification Framework on page 34 as the format for presenting the sector specific BMP verification protocols and procedures.

Was this comm Addressed:	ent suff	iciently addressed? Partially Addressed:	X	Not Addressed:	
Comments: Yes	s, for A	g wetlands.			

Format

Submitted 8 documents for 4 sectors (Ag, forestry, stormwater, and wastewater). Major reorganization of the information is needed:

Ag BMP data - Need a comprehensive, stand-alone QAPP. The document "Maryland Agriculture BMP Implementation Reporting Procedures" mainly addresses verification. MDA has an approved QAPP for Cost-share BMPs (dated 3/30/12) that may provide missing information.

Was this com Addressed:	ment suff	iciently addressed? Partially Addressed:	Not Addressed:	X
Comments:				

Forestry – Need a comprehensive, stand-alone QAPP for forestry BMPs. Add verification methods from "QAPP for Reporting Maryland NPS BMP Data via NEIEN" to "Procedures for Reporting Forest-related Practices".

Was this comr Addressed:	nent suff	iciently addressed? Partially Addressed:	Not Addressed:	Χ
Comments:				

Urban BMPs – Create a new, stand-alone QAPP for Stormwater and Sediment & Erosion Control BMPS. Consolidate information from numerous documents below, using format in Appendix Q Guidance:

- o BMP Verification Protocols/SOP for Sediment and Stormwater Program Review Division;
- Attachment A Urban BMP Database; MS4 Annual Report SOP; and Geodatabase QAPP;
- QAPP for Reporting Maryland NPS BMP Data via NEIEN;
- Erosion and Sediment Control SOP; and MDE SSA, etc.; and
- o Stormwater SOP; and Restoration Plans and Total Maximum Daily Loads SOP

Was this comr Addressed:	nent suff	iciently addressed? Partially Addressed:	Not Addressed:	X
Comments:				

Wastewater – Need a comprehensive, stand-alone QAPP for submitting point source data to the CBPO. Combine and update information from two documents: "QAPP for Technical Support for the ENR Program" and "Quality Assurance and Quality Control Plan for ICIS Data Management".

Was this com Addressed:	ment suff	iciently addressed? Partially Addressed:		Not Addressed:	Χ
Comments:					

Wetland and Stream Restoration – Create one or two QAPPs for these sectors. Alternatively, insert the procedures for wetland and stream BMPs into the Forestry QAPP since all of these are managed within Maryland DNR. This combined QAPP would then cover 3 sectors.

Was this comr Addressed:	nent suff	iciently addressed? Partially Addressed:	Not Addressed:	X
Comments:				

Maryland Agriculture Evaluation Questions

1. Will agriculture BMPs be identified and verified according to the recommended verification categories (Visual Assessment-Single Year, Visual Assessment-Multi-Year, and Non-Visual Assessment)?

Was this comment sur Addressed:	fficiently addressed? Partially Addressed:		Not Addressed:	
Comments: This ques requirements.	tion is outside the scope of	of the NF	PDES CAFO progra	ım

2. Will agriculture BMPs be identified and verified according to oversight categories (non-cost shared, cost-shared, regulatory, and permitted)?

Was this comn Addressed:	nent suff	iciently addressed? Partially Addressed:	X	Not Addressed:	
Comments: Pe categories.	rmitted (CAFOs and MAFOs wer	e not iden	tified as oversight	

3. Does the program define the frequency of verification assessments for initial and subsequent years of implementation and reporting? (For priority BMPs, onsite visits are recommended for 10% of BMPs per year)

Was this comment sub Addressed:	fficiently addressed? Partially Addressed:		Not Addressed:	
Comments: This ques requirements.	stion is outside the scope	of the NF	PDES CAFO progra	um

4. If an alternative strategy to sub-sampling is utilized than the strategy outlined in the sector guidance, is it properly identified and appropriately justified?

Was this comm Addressed:	ent suffi	iciently addressed? Partially Addressed:		Not Addressed:	
Comments: Thi requirements.	s questi	on is outside the scope	of the NP	DES CAFO progra	m

5. Does the program identify a process where BMP assessment methods would change with a change in BMP oversight (i.e. cost-shared contractual BMP to non-contractual BMP)?

Was this comme Addressed:	ent suffi	ciently addressed? Partially Addressed	:		Not Addressed:	
Comments: This requirements.	s questi	on is outside the scop	be of the	NPI	DES CAFO progra	m

6. Does the program identify the difference in sub-sampling for subsequent years for BMPs under a CAFO permit oversight? (I.e. 20% compared to 10/5%)

Was this comm Addressed:	ent suffic	ciently addressed? Partially Addressed	1:	Not Addressed:	X			
Comments: The proposed BMP Verification Protocol does not include MDE's CAFO/MAFO program oversight.								

7. Are the assessment methods utilized to verify BMPs based on type and category of oversight clearly explained and consistent with the sector guidance?

Was this comm Addressed:	ent suffic	iently addressed? Partially Addressed:		Not Addressed:	
Comments: Thi requirements.	s question	n is outside the scope of t	he NPDE:	S CAFO program	

8. Does the program identify the level of verification effort in relation to TMDL sector nutrient and sediment reduction goals?

Was this comr Addressed:	nent suff	ficiently addressed? Partially Addressed:		Not Addressed:	
Comments: Th requirements.	nis quest	ion is outside the scope of	of the NF	PDES CAFO progra	ım

9. For on-site non-visual assessments of plans for Nutrient Management, does the program identify the assessment methods utilized to verify each component of the plans, the degree of compliance with the CBP-defined practice standards, and the ability to track and report data on compliance levels of each component or standard?

Was this comn Addressed:		ciently addressed? Partially Address		Not Addressed:	
Comments: Th requirements.	is questic	on is outside the sco	ope of the NP	DES CAFO program	1

10. Is the intensity of verification efforts prioritized in proportion to a practices contribution to the overall TMDL pollution reduction in the jurisdiction's WIP?

Was this comm Addressed:	ient suffi	ciently addressed? Partially Addressed:		Not Addressed:			
Comments: This question is outside the scope of the NPDES CAFO program requirements.							

11. Does the program make an effort to increase the transparency of its BMP verification programs? If so, what steps have been proposed?

Was this comme Addressed:		ciently addressed? Partially Addressed:		Not Addressed:	
Comments: This requirements.	questio	n is outside the scope	of the NPD	ES CAFO program	

Maryland Agriculture

The Panel recognizes the incre	mental improvements in Maryland's AIRs,	but more can be done to
further improve the AIRs data.		

Was this comment sufficiently addressed? Addressed: Partially Addressed: X Not Addressed:
Comments: In 2014, there were two AIRs forms: one for CAFOs/MAFOs and one for every other applicable operation. The AIRs form for CAFOs/MAFOs includes the annual reporting requirements outlined by the General Permit (GP). The GP meets federal NPDES regulations. MDE reviews the AIRs forms submitted by
CAFOs/MAFOs. However, according to MDE LMA staff, MDA provides MDE with the CAFO/MAFO AIRs on a compact disc on a rolling basis and this delivery process delays MDE in making permit compliance determinations in a timely manner.

Need to address agricultural riparian forest buffers.

Was this comment su Addressed:	fficiently addressed? Partially Addressed:		Not Addressed:	
Comments: This com requirements.	ment is outside the scope	of the N	PDES CAFO progr	am

No mention of CAFOs and different inspection levels compared with AFOs.

Was this comm Addressed:	ent suff	iciently addressed? Partially Addressed:		Not Addressed:	X
inspection or fo Agronomic BM Manure Transp	ollow-up APs (Nor oort, whi	FO program staff are no o check for structural BM n-Visual Single Year) so that are requirements of the e does not currently incl	MPs (Vist uch as Nu he CAFO	ual Multi-Year) or utrient Management O GP. The BMP	and

Expand the proposed Maryland verification team's responsibilities to include nutrient management plan verification.

Was this comment sufficiently addressed? Addressed: Partially Addressed: Not Addressed: X
Comments: EPA expects MDE to review the AIRs forms submitted by all
CAFO/MAFOs to determine compliance with NMPs per the GP annually. For
FFY'16 CWA Section 106 grant reporting, EPA is requiring MDE to provide a
detailed report of their annual report review process. This report will include a list
of the CAFOs that submitted complete annual reports on time and if the actual
application rates reported on the AIRs form match the NMP. EPA considers non-
compliance with an NMP as a significant, actionable violation of the GP. However,
at this time, only MDA's Plan Implementation Evaluation (PIE) review is proposed
to verify NMP implementation. According to the MDA's PIE process, operations
are selected either randomly, in response to a complaint, as a follow-up to a
previous review, and/or to discuss questions /concerns with submitted AIRs or other
non-compliance issues. MDE's annual reviews of the CAFO/MAFO AIRs may
account for 10% of the universe of operations with NMPs (there are ~500
CAFO/MAFOs and ~5,000 operations in MD.) To that end, MDE would in the
course of business, verify the same 10% every year.

The documentation could be better organized and a bit more concise.

Was this commo Addressed:	ent suff	iciently addressed? Partially Addressed:		Not Addressed:	
Comments: Thi requirements.	s comm	ent is outside the scope	of the Nl	PDES CAFO progra	am

The Panel asked Maryland to provide more documentation on their nutrient management plan verification procedures.

Was this com	ment sufficiently addressed?		
Addressed:	Partially Addressed:	X Not Addressed:	
Comments: Coprogram over	urrent NMP verification proced sight.	ures do not include MDE's CA	FO

Evaluation Questions – Maryland Stormwater

1. Is the existing MS4 permit inspection and maintenance framework the foundation of the jurisdiction's program? **Yes**

Was this comm Addressed:	nent suff	iciently addressed? Partially Addressed:		Not Addressed:	
Comments: Sta	ate SWN	M regulations and E+S	are also	considered.	

2. Is field performance verification scheduled for every other MS4 permit cycle? How often?

Was this comment suff Addressed:	fficiently addressed? Partially Addressed:		Not Addressed:	
Comments: BMPs are	e required to be inspecte	ed every	3 years per state l	aw.

3. Does the program link the timing of visual inspections to the length of credit durations for urban stormwater practices?

Was this comn Addressed:		ciently addressed? Partially Addressed:		Not Addressed:	
Comments: Se	e respon	se above			

4. Will MS4 communities be assessing their entire BMP populations within two permit cycles? If so, will they address pre-2000 BMPs prior to pre-1990 BMPs?

Was this comr Addressed:	nent suff	iciently addressed? Partially Addressed:	Not Addressed:	
Comments:				

5. What is the defined amount of time a locality/federal facility has to take corrective maintenance or rehabilitation to bring a sub-standard BMP back into compliance?

Was this comment suf Addressed:	ficiently addressed? Partially Addressed:		Not Addressed:			
Comments: Not defined; depends upon local delegated agency						

6. Does the program address proper installation, whether or not the practice meets the design standards, and whether it functions in the hydrologic manner in which it was designed prior to submitting the BMP for credit?

Was this comm Addressed:	nent suff	iciently addressed? Partially Addressed:	Not Addressed:	
Comments:				

7. Is the program consistent with the Bay Program-approved reporting standards? Do they allow appropriate flexibility for practices that don't lend themselves to the NEIEN geographic reporting requirements?

Was this comr Addressed:	nent suff	iciently addressed? Partially Addressed:	Not Addressed:	
Comments:				

8. Are verification efforts prioritized according to a practice's contribution to the overall TMDL pollutant reduction in a state's urban source sector? **Yes**

Was this commen Addressed:	at sufficiently addressed? Partially Addressed:	Not Addressed:
	es state WIP priority. High BMPs (Table 5-1 p 57)	h for structural BMPs (Table 5-3 p

9. Will the jurisdiction provide spot checks on a subset of local and federal facility BMP project files to validate the reported BMP data? **Yes**

Was this comr Addressed:	nent suff	iciently addressed? Partially Addressed:		Not Addressed:	
Comments: M with Phase II		performs data checks. nual reports	Federa	l facilities get follo	w up

10. Does the program address semi-regulated communities by following one of the three options provided in the sector guidance?

Was this comment suffi Addressed:	iciently addressed? Partially Addressed:		Not Addressed:			
Comments: The document discusses non-regulated home owner BMPs. Majority of BMPs are regulated since MS4s are jurisdiction wide in MD.						

11. Are the fastest-growing semi-regulated communities prioritized?

Was this com Addressed:	nent suff	iciently addressed? Partially Addressed:	Not Addressed:	
Comments:				

Maryland Stream Restoration

There are only two references to stream restoration within the 8 documents that Maryland provided: page 71 in the sediment and stormwater document mentions load reductions for an interim rate; and page 4 in the forestry document mentions a potential BMP category. Neither provides verification information.

Was this comment su Addressed:	ufficiently addressed? Partially Addressed:	X	Not Addressed:	
restoration projects (as been an additional section stream, agricultural, and ur th the use of RSC's as they roject.	ban strea	m restoration proje	ects).

The Panel asked Maryland to review and answer the applicable stream restoration evaluation review questions contained within Appendix A on page 51 in the Panel's August 7th report to the jurisdictions in their revised wetlands restoration verification protocol documentation.

Was this comment sufficiently addressed?						
Addressed:	Partially Addressed:	Not Addressed:				
Comments:						

The Panel emphasized the need to focus on verifying functionality, not just presence.

Was this com	nment sufficiently addressed?		
Addressed:	Partially Addressed:	Not Addressed:	x
	Table 4-2 mentions visual inspe Il inspection should conducted t d reduction.	•	

Maryland Wastewater

Provide documentation for verification of septic system/on-site treatment systems.

Was this comn Addressed:		ciently addressed? Partially Addressed:		Not Addressed:	
	-	mits and trading defaults tem performance.	for septi	c close-outs provide	;

Provide an up-front executive summary which includes answers to the set of wastewater sector questions contained in the Panel's evaluation form.

Was this comment suffice Addressed: X	ciently addressed? Partially Addressed:		Not Addressed:	
Comments: Maryland's	verification plan covers	these iss	ues.	

The Panel asked for documentation that would address the wastewater evaluation review questions listed in Appendix A and pages 51-52, and providing links to the more detailed documentation.

Was this comn	nent sufficiently addressed?		
Addressed:	X Partially Addressed:	Not Addressed:	
Comments: Ma	aryland's verification plan cov	ers these issues.	

The Panel asked to be sure that Maryland also address verification for non-significant facilities which are seeking credit for nutrient load reductions.

Was this com	ment sufficiently addressed?		
Addressed:	X Partially Addressed:	Not Addressed:	
Comments: N or increased c	laryland's trading policy caps no lischarges.	on-significants prior to offsett	ing new

CSO is not covered. I recommend that MD specifically answer the CSO questions in the evaluation form. This assume that Baltimore and other areas have CSO program and contribute something to Bay nutrient/sediment reductions.

Was this com	ment sufficiently addressed?		
Addressed:	X Partially Addressed:	Not Addressed:	
Comments: M	aryland's CSO program is add	ressed in their verification plan.	

Onsite system verification is not covered. Maryland should answer the questions regarding septic tanks in the evaluation form, as part of its septic tank verification protocol. Such a protocol is needed immediately, as this is a priority practice accounting for 7.2% of the nitrogen reduction in the WIP.

Was this comment sufficiently addressed?					
Addressed:	Partially Addressed:	Not Addressed:			
Comments: Thi tank verificatio		itself, they need an onsite septic			

I recommend that MD provide a narrative which summarizes the status of its WWTW nutrient reduction program, as an intro to its answers to the Panel's evaluation form. The purpose of such a narrative would be public information, so readers understand context and what's been done.

Was this com	ment sufficiently addressed?	
Addressed:	X Partially Addressed:	Not Addressed:
Comments: I	think the overall program direct	tion is presented in their document.

There is no mention of verifying that CSOs, SSOs, or other illicit discharges are being reduced. There is also no verification for septic systems.

		Not Addressed:			
Comments: The programs to handle these discharges are described.					
	Maryland				

Provide documentation of Maryland's wetland verification programs by providing complete answers to the series of questions contained within the wetlands sector section of the Panel's evaluation form (see Appendix A).

Was this comment s Addressed:	ufficiently addressed? Partially Addressed:	Not Addressed:	X
Comments: Did not get Appendi	х А.		

Even if wetlands practices do not make up a significant part of Maryland's WIP reduction goals, verification information should still be provided, or a timeline for when the program will be fully developed should be submitted.

Was this comment s Addressed:	sufficiently addressed? Partially Addressed:	Not Addressed:	X
	ification protocols were protocols will be provided wh		

The Panel recommended Maryland follow Table 8 within the Basinwide BMP Verification Framework on page 34 as the format for presenting the sector specific BMP verification protocols and procedures.

Was this comm Addressed:	nent suf	ficiently addressed? Partially Addressed:		Not Addressed:	X
Comments: The BMP did Framework.	not use 1	the format from Table 8 o	of the Ba	sinwide BMP Verif	ication