

Attachment A: Chesapeake Bay Program Partnership’s Phase 6 BMP Expert Panel Scheduling and Modeling Considerations

The Chesapeake Bay Program (CBP) Partnership currently has 14 BMP expert panels underway to inform the calibration of the Phase 6 suite of modeling and decision support tools. Each of these Expert Panels was identified by the Water Quality Goal Implementation Team’s (WQGIT) Source Sector Workgroups as priority Expert Panels for inclusion in the Phase 6 suite of modeling tools. However, some of the Expert Panels are experiencing delays in either producing a draft report for Partnership review or delays are incurred during the Partnership review and approval process. Therefore, it is necessary to understand which of these Phase 6 Expert Panels have the greatest impact on the final Phase 6 calibration, or those Panels that can be deferred until after the Phase 6 modeling tools are complete.

| BMP Panel Name | Priority Level | Workgroup/WTWG Approval Date | WQGIT Approval Date |
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| Animal Waste Storage Systems (Agriculture Workgroup) | Tier 1- This is the most important BMP panel report to approve. It has a very large impact on the amount of manure available to crops. The Phase 6 Model cannot be effectively calibrated without updated values. | AgWG Proposed Report Decision –Targeting November for the release of the report for the Partnership’s 30-day review period. Panel provided draft efficiencies to the modelers for the October calibration. | Targeting December 2016 |
| Phase 6 Nutrient Management (Agriculture Workgroup) | Tier 1- This is the second most important BMP report to finalize. It is the largest BMP in the watershed and has a substantial impact on the calibration. | AgWG Proposed Report Decision – October 20, 2016. Will need concurrent decision from WTWG. | October 24-25, 2016 |
| Advanced Onsite Systems (Attenuation), Part 2 | Tier 2- The recommendations from this report are different from standard BMPs because | WWTWG approved | Modeling WG approved final report for use in Beta 4 on September 22, 2016 |

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| (Wastewater Treatment Workgroup) | they affect delivery factors. This report can't be incorporated into the model if it is not incorporated prior to the final Phase 6 calibration. Draft analysis has confirmed the current bay-wide average attenuation value. Recommendations will provide fine-tuning at more localized scales. | | |
| Phase 6 Conservation Tillage (Agriculture Workgroup) | Tier 2- This practice is extensive in the calibration history, and thus would have a relatively substantial impact on the Phase 6 calibration. States are tracking this practice already according to the draft panel recommendations. Final efficiency values are still needed. | AgWG Proposed Report Decision – TBD November, 2016. Will need concurrent decision from WTWG. | November 28, 2016 |
| Wetlands (Wetlands Workgroup) | Tier 2- These recommendations would have a relatively minor impact on the calibration. The larger impact is on the amount of credit that can be claimed for each wetland BMP currently being reported in Phase 5.3.2. Draft recommendations may be available by September. | Preliminary recommendations approved by the Wetlands Workgroup in September 2016. Full report targeted for December 2016 approval | Targeting December 2016 |
| Cropland Irrigation Management (Agriculture Workgroup) | Tier 3- States have never been asked to track this BMP, but current data sources suggest that it is extensive throughout the calibration history. | AgWG Report Decision - TBD | TBD |

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| <p style="text-align: center;">Manure Injection/Manure Incorporation</p> <p>(Agriculture Workgroup)</p> | <p>Tier 3- Difficult to judge impact of this practice on the calibration. States have never been asked to track this BMP before, and the scale of implementation is not currently known</p> | <p>AgWG Proposed Report Decision – TBD November, 2016. Will need concurrent decision from WTWG.</p> | <p>November 28, 2016</p> |
| <p style="text-align: center;">Urban Tree Canopy</p> <p>(Forestry Workgroup)</p> | <p>Tier 3- Draft recommendations are already programmed into the Beta 3 version of the Model. There is a relatively small number of acres of this BMP.</p> | <p>Approved (with contingency of Tier-2 BMP for Urban Forest Planting) by FWG June 23, 2016</p> <p>WTWG approved on September 1, 2016</p> | <p>WQGIT Approved Report September 12, 2016</p> |
| <p style="text-align: center;">Phase 6 Cover Crops</p> <p>(Agriculture Workgroup)</p> | <p>Tier 4- No changes to tracking and reporting are anticipated based on this report. Efficiency changes are expected to be minimal.</p> | <p>AgWG Proposed Report Decision – December 15, 2016. Will need concurrent decision from WTWG.</p> | <p>(Tentative) December 19, 2016</p> |
| <p style="text-align: center;">Manure Treatment Technologies</p> <p>(Agriculture Workgroup)</p> | <p>Tier 5- Can be incorporated after the final Phase 6 calibration in 2017</p> | <p>AgWG Approved Report – July 20, 2016</p> <p>WTWG Approved Report September 1, 2016.</p> | <p>WQGIT Approved Report September 12, 2016</p> <p>(Pending MB Policy Recommendations)</p> |
| <p style="text-align: center;">Oyster Restoration/Aquaculture</p> <p>(Water Quality GIT)</p> | <p>Tier 5- Can be incorporated after the final phase 6 calibration in 2017.</p> | <p>N/A</p> | <p>November 2016</p> |

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| Floating Wetlands (Urban Stormwater Workgroup) | Tier 5 - Can be incorporated after the final Phase 6 calibration in 2017 | Approved by USWG on July 26, 2016 | WQGIT Approved Report September 2016 |
| Impervious Disconnection (Urban Stormwater Workgroup) | Tier 5 - Can be incorporated after the final Phase 6 calibration in 2017 | USWG Approved Report September 2016 | Targeting December 2016 |
| Boat Pump-Out (Wastewater Treatment Workgroup) | Tier 5 - Can be incorporated after the final Phase 6 calibration in 2017. | TBD 2017 | TBD 2017 |
| Advanced Onsite Systems (drip dispersal and peat treatment w/ dispersal to pad), Part III (Wastewater Treatment Workgroup) | Tier 5 - Can be incorporated after the final Phase 6 calibration in 2017 | TBD 2017 | TBD 2017 |
| Agricultural Ditch (NRCS BMPs) (Agriculture Workgroup) | Tier 5 - Can be incorporated after the final Phase 6 calibration in 2017 | AgWG Report Decision - TBD | TBD |
| Ag Stormwater Structures (Agriculture Workgroup) | Tier 5 - Can be incorporated after the final Phase 6 calibration in 2017 | AgWG Report Decision - TBD | TBD |

Tier Definitions:

- Tier 1:** Highest Priority Panels. Must be approved prior to September 30, 2016* due to their very large impact on the calibration.
- Tier 2:** High Priority Panels. Should be approved prior to September 30, 2016* due to large impact on the calibration.
- Tier 3:** Moderate Priority Panels. Should be approved prior to September 30, 2016*, but the impact on the calibration is either unknown, or preliminary recommendations have already been approved and incorporated as a placeholder.
- Tier 4:** Lower Priority Panels. Should be approved prior to September 30, 2016*, but the impact on the calibration is either small, or preliminary panel recommendations indicate that there will be minimal changes to tracking and reporting procedures that would impact how the BMP is programmed into the Phase 6 Model.
- Tier 5:** Lowest Priority Panels. Do not need to be approved prior to September 30, 2016* and do not impact the calibration.

*Deadline has been extended to December 31, 2016 but priority levels remain the same.