

Status of Current and Upcoming BMP Expert Panels of the Chesapeake Bay Program Partnership

The Chesapeake Bay jurisdictions implement Best Management Practices (BMPs) to achieve the goals set forth in the [2010 Chesapeake Bay TMDL](#). Through the [Protocol for Development, Review and Approval of Loading and Effectiveness Estimates for Nutrient and Sediment Controls](#), newer practices and technologies are considered and evaluated for inclusion in the Chesapeake Bay Program partnership modeling tools by expert panels. Existing practices are re-evaluated to ensure they reflect the best available scientific data and information. Below is a table identifying those BMPs that are currently undergoing the expert panel process. A list of completed expert panels can be found on Chesapeake Stat:

http://stat.chesapeakebay.net/?q=node/130&quicktabs_10=3

BMP Expert Panel	Key Contact(s)	Description	Current Status	Next Steps
Current Panels				
Manure Technologies Start Date: December 2014 Anticipated End Date: Spring 2016	Agriculture Workgroup and Virginia Tech: Jeremy Hanson	Expert Panel will determine pollution control performance measure estimates for the following six (6) prioritized manure technology BMPs: Microbial Digestion (aerobic/anaerobic); Chemical Treatments – Dry Manure; Thermal (or Thermochemical) Treatment; Solid-Liquid Separation; Composting; and Chemical Treatments – Wet Manure	The expert panel released its report for CBP partnership review on March 31. The initial 30 day comment period closed on May 3; the panel is working to respond to all submitted comments.	The AgWG will be asked to consider approval of the report at its June 16 meeting.
Phase 6 Nutrient Management Start Date: July 2015 Anticipated End Date: April 2016	Agriculture Workgroup: Mark Dubin and Frank Coale	The Expert Panel is charged with reviewing definitions and estimates from Phase 5.3.2, determining how nutrient management practices can be applied to Phase 6.0 land uses, making recommendations on model representation of soil nutrient residuals, and collaborating with other Agriculture Workgroup panels.	The Panel is working on developing recommendations for representing nutrient spread in the Phase 6 model, and are drafting recommendations to represent their BMP.	The panel's preliminary report was approved by the AgWG on May 19 th . The panel will continue developing final recommendations and efficiency values for the BMP.
Phase 6 Cover Crops	Agriculture Workgroup:	The Expert Panel is charged with translating all Phase 5.3.2 cover crop	The panel is considering approaches to represent	The panel is compiling relevant data and

<p>Start Date: August 2015</p> <p>Anticipated End Date: April 2016</p>	<p>Mark Dubin and Ken Staver</p>	<p>efficiencies to the Phase 6.0 model, reviewing and updating efficiencies for eligible commodity cover crops, and collaborating with Conservation Tillage Panel to address credits for winter crops that receive fall nutrients.</p>	<p>commodity cover crops and will coordinate with the Conservation Tillage Panel to resolve issues related to winter cereals. Panel is working on their literature review.</p>	<p>literature, and has been coordinating with the modeling team as it develops its preliminary recommendations. The panel will continue to review their preliminary report, and will request AgWG approval in June.</p>
<p>Phase 6 Conservation Tillage</p> <p>Start Date: August 2015</p> <p>Anticipated End Date: April 2016</p>	<p>Agriculture Workgroup: Mark Dubin and Wade Thomason</p>	<p>This Expert Panel is tasked with reviewing Phase 5.3.2 definitions and effectiveness estimates for conservation tillage and HRTill, and making adjustments for Phase 6.0. The Panel will also determine which Phase 6.0 land uses conservation tillage can be applied to.</p>	<p>The panel is working with the Cover Crops Panel to resolve issues related to conservation tillage on winter cover crops. They have almost completed their literature review, and are working towards developing recommendations to representing their BMP.</p>	<p>The panel is almost completed in reviewing relevant literature and will work towards developing their recommendations. The panel's preliminary report was approved by the AgWG on May 19th.</p>
<p>Animal Waste Storage Facilities</p> <p>Start Date: March 2016</p> <p>Anticipated End Date: September 2016</p>	<p>Agriculture Workgroup and Virginia Tech: Jeremy Hanson</p>	<p>The panel will evaluate the nutrient reduction potential of various manure storage and handling systems implemented in the region for various livestock categories. This evaluation will include Poultry Heavy Use Area Concrete Pads. The panel will also assess existing model assumptions for storage and handling nutrient losses that affect baseline loading from animal production areas.</p>	<p>The AgWG approved the panel membership in October 2015. The panel hosted its public stakeholder session on April 7, 2016. The panel is working to review available information.</p>	<p>The panel will continue to deliberate their recommendations.</p>
<p>Manure Injection/Manure Incorporation</p> <p>Start Date: July 2015</p>	<p>Agriculture Workgroup: Mark Dubin and Curtis Dell</p>	<p>This Exert panel will identify and define appropriate manure injection and incorporation technology, evaluate nutrient and sediment transport associated with this technology for effectiveness estimates, and consider variations of application and</p>	<p>The panel is working on completing their literature review and drafting recommendations to representing their BMP.</p>	<p>The panel will continue reviewing the relevant literature and will work towards developing their recommendations. The panel's preliminary report</p>

<p>Anticipated End Date: April 2016</p>		<p>effectiveness estimates associated with physiographic regions and cropping systems in the Bay watershed.</p>		<p>was approved by the AgWG on May 19th.</p>
<p>Agricultural Ditch BMPs</p> <p>Start Date: February 2016</p> <p>Anticipate End Date: Late Summer 2016</p>	<p>Delaware Dept. of Agriculture: Clint Gill</p> <p>Maryland Dept. of Agriculture: Rachel Rhodes</p>	<p>This Exert panel will identify and define appropriate ditch BMPs, evaluate nutrient and sediment transport associated with these technologies for effectiveness estimates, and consider variations of application and effectiveness estimates associated with physiographic regions in the Bay watershed.</p>	<p>The panel is working on completing their literature review.</p>	<p>The panel is compiling relevant data and literature, will hold public stakeholder meeting sometime in June.</p>
<p>Urban Tree Planting/Expanded Tree Canopy</p> <p>Start Date: March 2015</p> <p>Anticipated End Date: July 2016</p>	<p>Forestry Workgroup & Virginia Tech: Jeremy Hanson</p>	<p>The Panel will be charged with determining pollution control performance measure estimates for the expansion of urban tree canopy. The Expert Panel will define the conditions under which trees planted in the urban environment reduce stormwater runoff and associated nutrient and sediment loads.</p>	<p>The panel released its report for partnership review and comment on May 3. The initial 30-day comment period closes on COB June 9. The panel hosted its webinar on May 20, which was recorded and available on the CBP calendar.</p>	<p>The initial 30-day comment period closes on June 9.</p>
<p>Wetlands Panel</p> <p>Start Date: October 2014</p> <p>Anticipated End Date: Summer 2016</p>	<p>Habitat GIT and Virginia Tech: Jennifer Greiner and Jeremy Hanson</p>	<p>The Panel will discuss proposed methods to define and allocate loads to wetlands wetlands as a land use in the Phase 6 CBP modeling tools. Also reviewing wetland restoration, creation, and enhancement, as water quality BMPs and their possible habitat benefits.</p>	<p>The partnership has agreed to include two land use classes for nontidal wetlands in the Phase 6 Watershed Model (Floodplain and Other). The panel is working to release its report in June.</p>	<p>Following release of the report the panel will accept and respond to comments following the BMP Protocol, and host a webinar to describe its recommendations to participants.</p>

<p>Floating Wetlands</p> <p>Start Date: September 2013</p> <p>Anticipated End Date: September 2016</p>	<p>Stormwater Workgroup: Tom Schueler and Cecilia Lane</p>	<p>The Expert Panel was charged with determining pollution control performance measures for Floating Treatment Wetlands.</p>	<p>Panel has finalized their recommendations and are reviewing the draft report.</p>	<p>Report will be released for partnership review in June 2016.</p>
<p>Street Sweeping</p> <p>Start Date: September 2013</p> <p>Anticipated End Date: February 2016</p>	<p>Stormwater Workgroup: Tom Schueler</p>	<p>The Expert Panel was charged with determining pollution control performance measures for Street Sweeping practices.</p>	<p>The Panel report was elevated by the WQGIT to the Management Board for decision during their May 19th meeting.</p>	
<p>Advanced Onsite Systems, Part 2 (Attenuation)</p> <p>Start Date: June 2014</p> <p>Anticipated End Date: September 2016</p>	<p>Wastewater Treatment Workgroup: Ning Zhou, and Dave Lindbo</p>	<p>The Panel will determine how to factor nutrient attenuation into Chesapeake Bay TMDL onsite wastewater treatment system load estimates and BMP efficiency factors. The Panel will provide recommendations on the development of spatial variable nutrient attenuation rates based on many factors such as soil, site location, and system characteristics. They will determine whether the Bay model can be improved by using the variable attenuation rates, rather than using a constant attenuation rate.</p>	<p>The Panel has completed the development of its recommendations and is making final edits to its report.</p>	<p>The initial 30-day comment period closes on June 21.</p>
<p>Impervious Disconnection</p> <p>Start Date: August 2015</p>	<p>Stormwater Workgroup and Virginia Tech: Jeremy Hanson</p>	<p>The disconnection of existing acres of impervious cover through certain engineering and/or field assessment methods that will be evaluated and defined by the expert panel.</p>	<p>The panel released its report for partnership review and comment on May 16.</p>	<p>Following release of the report, the panel will accept comments following the BMP Protocol.</p>

<p>Anticipated End Date: Summer 2016</p>				
<p>Oyster Restoration/Aquaculture</p> <p>Start Date: May 2015</p> <p>Anticipated End Date: July 2016</p>	<p>Oyster Recovery Partnership (ORP): Ward Slacum and Julie Reichert</p>	<p>Four proposed objectives for the Panel include:</p> <ol style="list-style-type: none"> 1. Establish a crediting framework that evaluates oyster practices and associated nutrient cycling processes on an individual basis, 2. Resolve outstanding policy questions, 3. Evaluate the suitability of modeling approaches to fill in current knowledge gaps, and 4. Evaluate existing scientific information using the established crediting framework to determine nutrient reduction effectiveness of individual oyster practices. 	<p>The Panel provided an update to the WQGIT on April 25th, responding to feedback on their draft proposed crediting framework for oyster practices presented in February, and requesting any additional feedback.</p>	<p>The expert panel will continue to meet and develop their recommendations. A group of WQGIT, Fisheries GIT, Habitat GIT, and Management Board members will be convened to address policy issues related to the proposed oyster BMP.</p>
<p>Onsite Treatment Systems III</p> <p>Start Date: December, 2015</p> <p>Anticipated End Date: September 2016</p>	<p>Wastewater Treatment Workgroup: Ning Zhou</p>	<p>A peat septic system functions much like a conventional Title 5 septic system with the exception that the wastewater receives treatment by being filtered through 2 to 3 feet of peat before being discharged to the soil for final disposal.</p> <p>Pressure-dosed dispersal is an in situ, or soil treatment, process that allows for uniform distribution of effluent across the entire dispersal field. Dosing allows for the creation of fluctuating aerobic/anoxic environments, which sets up the conditions for nitrification and denitrification to occur.</p>	<p>The panel held an open stakeholder session on April 27th and have begun reviewing literature to inform their recommendations.</p>	<p>The panel will continue their literature review and begin drafting their recommendations.</p>

<p>Boat Pump-Out</p> <p>Start Date: March 2016</p> <p>Anticipated End Date: September 2016</p>	<p>Wastewater Treatment Workgroup: Ning Zhou</p>	<p>The Panel will evaluate the policy and regulatory implications of providing credit for the pump-out practice, and provide a recommended methodology for reporting and modeling the reductions.</p>	<p>The panel charge and membership was approved by the Wastewater Treatment Workgroup.</p>	<p>The panel plans to hold an open stakeholder session in June and will begin their literature review.</p>
Upcoming Panels				
<p>Cropland Irrigation Management</p> <p>Start Date: TBD</p> <p>Anticipated End Date: TBD</p>	<p>Agriculture Workgroup: Mark Dubin</p>	<p>TBD</p>	<p>The Agriculture Workgroup has approved the panel charge.</p>	<p>Proposed membership will be presented during the AgWG's May meeting.</p>
<p>Agricultural Stormwater Structures / Nursery and Greenhouse Runoff Capture and Reuse</p> <p>Start Date: TBD</p> <p>Anticipated End Date: TBD</p>	<p>Agriculture Workgroup: Mark Dubin</p>	<p>TBD</p>	<p>The Agriculture Workgroup has approved the panel charge.</p>	<p>Proposed membership will be presented during the AgWG's May meeting.</p>
<p>New Bioretention designs with enhanced nutrient reduction features</p> <p>Start Date: Last Quarter of 2015</p>	<p>Stormwater Workgroup: Tom Schueler</p>	<p>TBD</p>	<p>TBD</p>	<p>TBD</p>

Anticipated End Date: TBD				