

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				
Poultry Litter Start Date: 2011 Anticipated End Date: March 2015	Agriculture Workgroup: John Rhoderick and Mark Dubin	The Subcommittee has collected data N and P concentrations in poultry litter, poultry litter generation quantities, and population numbers for multiple poultry species across the watershed.	Subcommittee has collected data from multiple states and drafted a report. The Subcommittee and the Agricultural Modeling Subcommittee (AMS) are jointly developing the modeling recommendations to translate poultry litter data in to the Phase 6.0 model.	The PLS and the AMS are finalizing their recommendations, which will be submitted to the Agriculture Workgroup in March 2015.
Nutrient Application Management Start Date: 2011 Anticipated End Date: March 2015	Agriculture Workgroup: Chris Brosch and Mark Dubin	The Expert Panel was charged with defining the effectiveness of nutrient management on reducing nutrient and sediment pollution. The panel has organized the practice into three tiers, each building on the previous tier in succession.	The leadership of the AgWG, WTWG, and WQGIT decided that the current panel would focus on recommendations for Phase 5.3.2 and a new panel will be convened to develop Recommendations for Phase 6 of the Watershed Model.	The Nutrient Management Panel continues to meet weekly in February to refine their Phase 5.3.2 recommendations, which will be submitted to the Agriculture Workgroup in March 2015.

<p>Manure Technologies</p> <p>Start Date: December 2014</p> <p>Anticipated End Date: October 2015</p>	<p>Agriculture Workgroup and Virginia Tech: Jeremy Hanson</p>	<p>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</p>	<p>The expert panel met and held their stakeholder forum in Baltimore, MD on December 15.</p>	<p>The panel will work to compile literature and other resources for review.</p>
<p>Urban Tree Planting/Expanded Tree Canopy</p> <p>Start Date: February/March 2015</p> <p>Anticipated End Date: December 2015</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. Such conditions may include tree placement, leaf density, soils, and other factors.</p>	<p>Virginia Tech issued a Request for Proposals to convene this panel. Proposals were due 1/5/15, and a proposal submitted by the Center for Watershed Protection was selected for funding.</p>	<p>The panel membership and statement of work is currently being considered for Forestry Workgroup approval.</p>
<p>Urban Shoreline Erosion Control Practices</p> <p>Start Date: 2013</p> <p>Anticipated End Date: Feb/March 2015</p>	<p>Stormwater Workgroup and Center for Watershed Protection: Bill Stack</p>	<p>The Expert Panel was charged with determining pollution control performance measures for Urban Shoreline Erosion Control Practices.</p>	<p>A revised report and technical appendix is under review by the WTWG.</p>	<p>The Panel Report will be reviewed by the WQGIT on their February 23 conference call.</p>
<p>Floating Wetlands</p> <p>Start Date: Sep 2013</p> <p>Anticipated End Date: Summer 2015</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 developing recommendations.</p>	<p>Panel will meet in early 2015 to continue developing their report.</p>

<p>Street Sweeping</p> <p>Start Date: September 2014</p> <p>Anticipated End Date: June 2015</p>	<p>Stormwater Workgroup and Virginia Tech: Tom Schueler and Jeremy Hanson</p>	<p>The Expert Panel was charged with determining pollution control performance measures for Street Sweeping practices.</p>	<p>Panel used WinSLAMM model to determine sediment loads and nutrient content of sediment. The panel is currently drafting and refining its recommendations.</p>	<p>Panel will strive to finalize its recommendations for release to the partnership in Spring 2015.</p>
<p>Algal Flow-Way Technologies</p> <p>Start Date: March 2013</p> <p>Anticipated End Date: April 2015</p>	<p>Watershed Technical Workgroup: Sarah Lane and Matt Johnston</p>	<p>The panel is reviewing draft recommendations for nutrient and sediment reductions from algal flow-way technologies (AFTs). The final report will provide guidelines to facility managers and states for tracking and reporting reductions from these facilities.</p>	<p>Recommendations have been finalized. Panel report is undergoing final edits.</p>	<p>The panel report and technical appendix will be reviewed by WTWG at their March 5th meeting.</p>
<p>Advanced Onsite Systems, Part 2 (broader view)</p> <p>Start Date: June 2014</p> <p>Anticipated End Date: October 2015</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 divided up the literature and begun the review process.</p>	<p>The panel will meet on February 25th to discuss model attenuation “systems” found in the Bay watershed, which they will use to further refine their literature review.</p>

<p>Wetlands Panel</p> <p>Start Date: October 2014</p> <p>Anticipated End Date: October 2015</p>	<p>Habitat GIT: Neely Law and Jennifer Greiner</p>	<p>The Panel will discuss proposed methods to define and allocate loads to wetlands (looking at establishing wetlands as a land use in CBP modeling tools). Also reviewing wetland restoration, enhancement, preservation, and habitat benefits.</p>	<p>Current panel efforts are focused on defining wetland land use and loading rates.</p>	<p>The next meeting is scheduled for Wednesday, February 11, 2015.</p>
<p>Upcoming Panels</p>				
<p>Phase 6 Nutrient Management</p> <p>Start Date: April 2015</p> <p>Anticipated End Date: TBD (initial recommendations by October 2015)</p>	<p>Agriculture Workgroup: Mark Dubin</p>	<p>TBD</p>	<p>A subgroup has been formed under the AgWG to develop a specific charge, scope, and proposed membership list for the expert panel.</p>	<p>Based on the subgroup's recommendation, a panel is expected to be convened in April 2015.</p>
<p>Phase 6 Cover Crops</p> <p>Start Date: April 2015</p> <p>Anticipated End Date: TBD (initial recommendations by October 2015)</p>	<p>Agriculture Workgroup: Mark Dubin</p>	<p>TBD</p>	<p>A subgroup has been formed under the AgWG to develop a specific charge, scope, and proposed membership list for the expert panel.</p>	<p>Based on the subgroup's recommendation, a panel is expected to be convened in April 2015.</p>
<p>Phase 6 Conservation Tillage</p> <p>Start Date: April 2015</p>	<p>Agriculture Workgroup: Mark Dubin</p>	<p>TBD</p>	<p>A subgroup has been formed under the AgWG to develop a specific charge, scope, and</p>	<p>Based on the subgroup's recommendation, a panel is expected to be convened in April 2015.</p>

<p>Anticipated End Date: TBD (initial recommendations by October 2015)</p>			<p>proposed membership list for the expert panel.</p>	
<p>Manure Injection/Manure Incorporation</p> <p>Start Date: April 2015</p> <p>Anticipated End Date:</p>	<p>Agriculture Workgroup: Mark Dubin</p>	<p>TBD</p>	<p>A subgroup has been formed under the AgWG to develop a specific charge, scope, and proposed membership list for the expert panel.</p>	<p>Based on the subgroup's recommendation, a panel is expected to be convened in April 2015.</p>
<p>Animal Waste Storage Facilities / Poultry Heavy Use Area Concrete Pads</p> <p>Start Date: April/May 2015</p> <p>Anticipated End Date: TBD</p>	<p>Agriculture Workgroup and Virginia Tech: Jeremy Hanson</p>	<p>TBD</p>	<p>A subgroup has been formed under the AgWG to develop a specific charge and scope for the expert panel. An RFP will be released to solicit proposals to convene this panel based on the scope approved by the AgWG.</p>	<p>Approval of subgroup's recommended charge and scope by the AgWG. Followed by release of RFP and solicitation of proposals. Proposals will be evaluated by the Chesapeake Bay Watershed Research and Outreach Collaborative (CBW-ROC).</p>
<p>Cropland Irrigation Management</p> <p>Start Date: May 2015</p> <p>Anticipated End Date: TBD</p>	<p>Agriculture Workgroup: Mark Dubin</p>	<p>TBD</p>	<p>A subgroup has been formed under the AgWG to develop a specific charge, scope, and proposed membership list for the expert panel.</p>	<p>Based on the subgroup's recommendation, a panel is expected to be convened in April 2015.</p>

<p>Agricultural Stormwater Structures / Nursery and Greenhouse Runoff Capture and Reuse</p> <p>Start Date: May 2015</p> <p>Anticipated End Date: TBD</p>	<p>Agriculture Workgroup: Mark Dubin</p>	<p>TBD</p>	<p>A subgroup has been formed under the AgWG to develop a specific charge, scope, and proposed membership list for the expert panel.</p>	<p>Based on the subgroup’s recommendation, a panel is expected to be convened in April 2015.</p>
<p>Impervious Disconnection</p> <p>Start Date: Apr 2015</p> <p>Anticipated End Date: TBD</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>Working to finalize RFP to solicit proposals to convene this expert panel. RFP expected to be released in February 2015.</p>	<p>Release of RFP and solicitation of proposals. Proposals will be evaluated by the Chesapeake Bay Watershed Research and Outreach Collaborative (CBW-ROC).</p>
<p>Outfall Stabilization</p> <p>Start Date: TBD</p> <p>Anticipated End Date: TBD</p>	<p>Stormwater Workgroup: Tom Schueler</p>	<p>Outfall stabilization is defined as a practice used to prevent or minimize future erosion of sediments and associated nutrients below a storm drain outfall. The practice uses a combination of engineering and native plantings to stabilize the channel or ditch and keep stream velocities below erosive thresholds during larger storm events.</p>	<p>Tetra Tech is currently conducting a “threshold” literature review to determine if there is sufficient scientific data and monitoring results available for the practice to justify launching an expert panel.</p>	<p>Tetra Tech will produce a short technical memo that summarizes the literature and make a recommendation to the Urban Stormwater Workgroup for whether it is sufficient to launch an expert panel in April 2015.</p>
<p>MS4 Minimum Management Measures</p> <p>Start Date: TBD</p> <p>Anticipated End Date: TBD</p>	<p>Stormwater Workgroup: Tom Schueler</p>	<p>Under the terms of their MS4 permit, many Bay communities are required to provide stormwater education and public involvement programs to the general public for the purpose of reducing stormwater pollution. In general, these outreach programs</p>	<p>Tetra Tech is currently conducting a “threshold” literature review to determine if there is sufficient scientific data and monitoring results available for the practice to</p>	<p>Tetra Tech will produce a short technical memo that summarizes the literature and make a recommendation to the Urban Stormwater Workgroup for whether it</p>

		target up to six specific residential behaviors that could prevent potential stormwater pollution (e.g., picking up dog waste, car washing, septic system cleanouts, marina pump outs, reduced fertilization).	justify launching an expert panel.	is sufficient to launch an expert panel in April 2015.
<p>New Bioretention designs with enhanced nutrient reduction features</p> <p>Start Date: Last Quarter of 2015</p> <p>Anticipated End Date: TBD</p>	<p>Stormwater Workgroup: Tom Schueler</p>	TBD	TBD	TBD
<p>Peat Treatment System</p> <p>Start Date: March 2015</p> <p>Anticipated End Date: December 2015</p>	<p>Wastewater Treatment Workgroup: Ning Zhou</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.	A panel will be convened to determine if a generic class can be established that would encompass a range of peat treatment system technologies.	A technical directive to task Tetra Tech to coordinate and convene this expert panel is currently under development.
<p>Shallow Placed, Pressure Dispersal</p> <p>Start Date: March 2015</p> <p>Anticipated End Date: December 2015</p>	<p>Wastewater Treatment Workgroup: Ning Zhou</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.	A panel will be convened to determine if a higher nitrogen reduction efficiency can be assigned to the existing Shallow Paced, Pressure Dispersal BMP.	A technical directive to task Tetra Tech to coordinate and convene this expert panel is currently under development.

<p>Oyster Restoration/Aquaculture</p> <p>Start Date: December 2014</p> <p>Anticipated End Date: TBD</p>	<p>Oyster Recovery Partnership: Ward Slacum</p>	<p>TBD</p>	<p>The Oyster Recovery Partnership is currently reviewing available literature to determine if there is enough scientific data to support convening a BMP expert panel.</p>	<p>The Oyster Recovery Partnership will present their recommendations to the WQGIT and Habitat GIT in the Winter/Spring 2015 timeframe.</p>
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