Using CAST to Develop Implementation Plans that Meet Loading Targets in the Chesapeake Bay Watershed

A Watershed Academy Webcast

Join us for a Webcast on the Chesapeake Assessment Scenario Tool (CAST). CAST allows users to run model simulations online for any portion of the 64,000 square mile, six-state watershed. This webcast will demonstrate CAST and highlight how the tool is being used by counties, states, watershed groups, and others for total maximum daily loads (TMDLs), nonpoint source pollutant management, and municipal stormwater programs across the Chesapeake Bay basin. Lessons learned from developing the online load estimator for local planners can be applied to watershed programs nationwide.
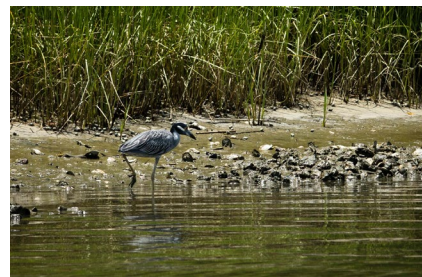
CAST was developed in 2011 with U.S. Environmental Protection Agency funding to help planners determine which best management practices (BMPs) are more effective and cost-effective in meeting pollutant loading targets. Outputs include nitrogen, phosphorus, and sediment loads for the agriculture sector, developed lands, natural sources, wastewater, and septic – delivered to small streams and as well as to the tidal portion of the Chesapeake Bay.

CAST is a user-friendly online tool for local planners and others so that they can better understand the following:

- Which set of BMPs provide the greatest load reduction benefits
- The extent to which these BMPs can be implemented, and the cost of implementation
- How to refine their BMP choices to meet their planning needs

Webcast participants are eligible to receive a certificate for their attendance.

Speakers:

Rich Batiuk, *Associate Director for Science, Analysis and Implementation, Chesapeake Bay Program, U.S. Environmental Protection Agency.* Rich has worked at the Chesapeake Bay Program for more than 25 years, leading the integration of science into multi-partner decision-making. He is responsible for providing state-of-the-science environmental monitoring, multi-media modeling, distributed data and information management, and technical data analysis and interpretation to the partnership. He also is leading efforts to use the Chesapeake Bay TMDL to help state and local partners accelerate on-the-ground reductions of nutrient and sediment pollution.

Olivia Devereux, *Environmental Scientist, Devereux Environmental Consulting.* Olivia is the scientific lead in developing CAST, and has played a key role in other environmental modeling initiatives. She has expertise in BMP planning and implementation and performs water quality assessments.

Registration:

You must register in advance to attend this Webcast. Register at the Watershed Academy Webcast Website at: http://www.epa.gov/watershedacademy/watershed-academy-webcast-seminars.

The Watershed Academy:

The Watershed Academy is a focal point in EPA's Office of Water for providing training and information on implementing watershed approaches. The Academy self-paced training modules and webcast seminars provide current information from national experts across a broad range of watershed topics. For more information, please visit www.epa.gov/watershedacademy.

Questions? Please contact Erin Ress at erin.ress@tetratech.com.

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