

**EPA SUPPORT FOR
WATERSHED IMPLEMENTATION PLAN DEVELOPMENT**

Last Updated: 3/31/10

SUPPLEMENTAL GRANTS

Program: Chesapeake Bay Implementation Grants – Regulatory and Accountability Programs

Contact: Lori Mackey, mackey.lori@epa.gov, 410-267-5715;

Holly Waldman, waldman.holly@epa.gov, 410-295-1329

Description:

As a result of EO 13508, the EPA Chesapeake Bay Program Office (CBPO) has received an additional \$11.2 million in Fiscal Year 2010 for grants to the watershed states and the District of Columbia under a new Regulatory and Accountability Program. These additional grants more than double the funding available to states through Chesapeake Bay Implementation Grants. The grants are funded under Section 117 of the Clean Water Act (CWA) and will support and expand States' and the District's regulatory and enforcement capabilities to control nitrogen, phosphorus and sediment from wastewater, urban, suburban, and agricultural runoff. Activities eligible for Chesapeake Bay Implementation Grants under the Regulatory and Accountability Program fall within four broad categories:

1. Development of Chesapeake Bay TMDL Watershed Implementation Plans
2. Improved or Expanded Regulation of Sources Delivering Nutrients and Sediment to the Bay
3. Enforcement and Compliance Assurance
4. Improved Tracking and Accountability

EPA is distributing the grants non-competitively to six states and the District of Columbia. EPA issued the supplemental grant guidance to the seven jurisdictions in March, and the jurisdictions may begin work under the grants as soon as they submit work plans that are consistent with the supplemental guidance.

CONTRACTUAL RESOURCES

Program: State Support for Watershed Implementation Plans

Contact: Access to Contractors: Jennifer Sincock, sincock.jennifer@epa.gov, 215-814-5766;
WIP Expectations: Katherine Antos, antos.katherine@epa.gov, 410-295-1358

Description:

In Fiscal Year 2010, EPA is providing \$400,000 to the six states in the Chesapeake Bay watershed and the District of Columbia to support the development of Phase I and Phase II Watershed Implementation Plans. EPA is providing this support through access to Agency contractors. Specifically, states and the District may use their funds for contractor assistance with data analysis to support TMDL implementation; research ordinances and laws to control nutrient and sediment loads; evaluation of existing ordinances and/or drivers of land use; evaluation of the effectiveness of management activities and controls; and facilitation of stakeholder dialogues. States and the District may use Tetra Tech for all of these services. Jurisdictions interested specifically in facilitation services may access contractors through EPA's Conflict Prevention and Resolution Center (CPRC). Instructions for accessing contractor resources were distributed to the states and D.C. through the Water Quality Goal Implementation Team on January 27, 2010.

Program: Local Support for Watershed Implementation Plans

Contact: WIP Expectations: Katherine Antos, antos.katherine@epa.gov, 410-295-1358;
Access to Contractors: Jennifer Sincock, sincock.jennifer@epa.gov, 215-814-5766

Description:

In Fiscal Year 2010, EPA is providing contractor support for projects that pilot local engagement in the development of Watershed Implementation Plans. The states and the District of Columbia were full partners in nominating, selecting and assisting local pilot projects. The pilots will provide examples of how partners at different scales, such as counties, conservation districts, or watersheds, could engage in the development of Watershed Implementation Plans. EPA also intends for these pilots to address different conditions or topics such as stormwater, agriculture, coordination with military installations, and/or incorporation of existing planning efforts into Watershed Implementation Plans. The purpose of these local Watershed Implementation Plan pilots is to inform the development of Phase I Watershed Implementation Plans in 2010 and offer lessons learned for other partners prior to the development of Phase II Watershed Implementation Plans in 2011.

EPA announced the selection of seven pilot projects in March in the following communities and watersheds:

- District of Columbia
- Maryland: Anne Arundel and Caroline counties
- New York: Chemung River Watershed
- Pennsylvania: Conewago Creek Watershed
- Virginia: Prince William County and Rivanna River Basin
- West Virginia: Berkeley, Jefferson, and Morgan counties

EPA is supporting local Watershed Implementation Plan pilots through access to Agency contractors. Pilot projects are using EPA contractors for assistance with methods to engage local entities in Watershed Implementation Plan development; creation of options and constructs for TMDL implementation at the local scale; data analysis to support TMDL implementation at a local scale; research ordinances and laws to control nutrient and sediment loads; evaluation of existing ordinances and/or drivers of land use; evaluation of the effectiveness of management activities and controls; and facilitation of stakeholder dialogues. Pilot entities may use Tetra Tech for all of these services. Jurisdictions interested specifically in facilitation services may access contractors through EPA's Conflict Prevention and Resolution Center.

EPA will publicize the progress, accomplishments and lessons learned from the pilot projects. EPA could also publicize "no-cost" pilots that do not use Agency contractors but could inform the development of Phase I and II Watershed Implementation Plans. No-cost pilots could include projects supported by other initiatives at the Chesapeake Bay Program (eg, Local Government Advisory Committee Circuit Riders; Chesapeake NEMO; Rivers, Trails and Conservation Assistance Program) or by a state. In addition, states and the District may use grants awarded under the Regulatory and Accountability Program or contracting resources available as State Support for Watershed Implementation Plan Development to fund local pilots and related activities.

TECHNICAL RESOURCES

Resource: Model Segmentation Viewer

Website: <http://gis.chesapeakebay.net/modeling>

Contact: Andy Fitch, AFitch@chesapeakebay.net, 410-267-9835

Description: The segmentation viewer allows partners to overlay Phase 5 Watershed Model Segments with layers including streets, satellite imagery, shaded relief, MS4 areas, 12-digit watersheds, and counties. A layer containing point sources will be available in the near future. This tool will allow local planners the ability to see and verify where specific segments are in relation to other boundaries and features, aiding in the decision-making process. Please let Katherine Antos know if an additional data layer would be helpful, and the Chesapeake Bay Program Office will evaluate whether we can accommodate your request.

Resource: Watershed Model Phase 5.2 inputs and outputs

Website: ftp://ftp.chesapeakebay.net/Modeling/phase5/Phase52_Loads-Acres-BMPs

Contact: Jeff Sweeney, jsweeney@chesapeakebay.net, 410-267-9844

Description: Loads, and nonpoint source practice implementation levels for key Phase 5.2 Watershed Model scenarios can be obtained on the Chesapeake Bay Program's ftp site. The scenarios include 1985, 2002, 2008, 2010 Tributary Strategy, 2010 E3, and 2010 No-Action. This information can be used for initial development of Watershed Implementation Plans.

Resource: Watershed Model Phase 5.3 inputs and outputs

Website: ftp://ftp.chesapeakebay.net/Modeling/phase5/Phase53_Loads-Acres-BMPs

Contact: Jeff Sweeney, jsweeney@chesapeakebay.net, 410-267-9844

Description: Loads, and nonpoint source practice implementation levels for key Phase 5.3 Watershed Model scenarios can be obtained on the Chesapeake Bay Program's ftp site. These scenarios continue to be updated. Scenario inputs and outputs can be used for initial development of Watershed Implementation Plans.

Resource: Mid-Atlantic Water Program BMP Effectiveness Report

Website: <http://www.chesapeakebay.net/marylandbmp.aspx?menuitem=34449>

Contact: Jeff Sweeney, jsweeney@chesapeakebay.net, 410-267-9844

Description: This comprehensive report includes effectiveness estimates of many agricultural and stormwater best management practices. BMP definitions and effectiveness estimates reflect current research and knowledge as well as average operational conditions representative of the entire Chesapeake Bay Watershed to provide more realistic, science-based estimates of expected pollution reduction levels. The Mid-Atlantic Water Program (MAWP) housed at the University of Maryland (UMD) led a project commissioned and funded by the EPA/CBPO to develop the definitions and effectiveness estimates of select BMPs that states were implementing or proposing to implement as part of the Tributary Strategies. The objective was to scientifically-rigorous approach for development of definitions and effectiveness estimates by reflecting the average operational condition representative of the entire Chesapeake Bay Watershed.

ADDITIONAL PROGRAM SUPPORT

Program: Local Government Advisory Committee Circuit Riders

Website: MD and VA - www.cwp.org

Contact: Bryan Seipp, bts@cwp.org, 410-461-8323; Jake Romig, circuitrider@yccf.org, 717-818-4717

Description:

Maryland & Virginia Model:

The Circuit Rider Network approach recognizes the diverse needs, interests, and resources of the more local governments in Virginia and Maryland, and tailors the message to various conditions and audiences. Circuit Rider builds on and expands existing programs, such as Chesapeake Bay NEMO and the Watershed Assistance Collaboration in Maryland, and Virginia NEMO in Virginia. Through this effort the Center offers two levels of engagement, a deep level with a sustained commitment of technical support to select communities and a wide level with a shorter time commitment but engages a larger audience of elected officials and local decision makers. The Center offers a wide variety of services in the watershed management arena including but not limited to, watershed planning, code and ordinance review, stormwater management, stormwater retrofit design, stream and upland assessments, forestry and agriculture management, and soil and erosion control. The effort is funded by EPA but directed by the Local Government Advisory Committee.

Pennsylvania Model, York County, PA:

The Circuit Rider Concept is an initiative of the Local Government Advisory Committee of the Chesapeake Executive Council. The Alliance for the Chesapeake Bay received funding to administer a Circuit Rider Program in York County, Pennsylvania. The York County Circuit Rider Model is an expansion of the existing Codorus Watershed Project Coordinator program within the York County Community Foundation. In many locations throughout Pennsylvania within the Bay watershed, including York County, there is a fundamental lack of implementation of known recommendations. The studies are complete, the plans are in place, but too often we rely on volunteer implementation of these plans and studies. Often local communities and stakeholders have desire to do something, but lack the knowledge and capacity to get started. The York County Circuit Rider program is built around facilitated implementation rather than waiting for volunteerism. We are focused around active engagement of local communities. The Circuit Rider in this model must have the technical background and capability, but not necessarily the capacity, to take a wide variety of projects from start to finish. The Circuit Rider then must build capacity for a given project by engaging multiple partners. The York County Circuit Rider offers local governments, watershed groups, and stakeholders tools and services such as: identify projects, provide technical assistance, prioritize activities, identify and apply for funding, and assist with implementation. These services are complimentary as many local communities lack the financial resources to hire or contract the assistance they need. Funding for the York County Circuit Rider comes from the Codorus Watershed Endowment of the York County Community Foundation, Agricultural and Land Preservation Fund of the York County Community Foundation, and the Environmental Protection Agency through the Alliance for the Chesapeake Bay. The York County Circuit Rider is administered by the Alliance for the Chesapeake Bay and receives direction from

the Local Government Advisory Committee, York County Community Foundation, Environmental Protection Agency, and the Alliance for the Chesapeake Bay.

The mission of the York County Circuit Rider program is to provide facilitated implementation support of watershed plans and studies to local communities, local governments, watershed groups, and stakeholders that strive to reduce sediment and nutrients from entering local waterways. The program is administered by the Alliance for the Chesapeake Bay with funding by EPA. The York County Circuit Rider works with local governments, county agencies, watershed groups, sportsmen clubs, farmers, and other stakeholders.

Resources Available to Support Watershed Implementation Plan and Bay TMDL Development:

Maryland/Virginia Circuit Rider:

- Webcasts
- [CWP manual series](#)
- Workshops and Design Charrettes
- Watershed Management Plan Assistance
- Code and Ordinance Analysis
- Illicit Discharge Detection
- Stormwater Retrofit Concept designs
- Watershed Management Plan Implementation
- Watershed Treatment Model analysis
- Stream and Upland Assessments

- York County Circuit Rider:

- Watershed Wizard© GIS Program
- [YCCF Website](#)
- Ecostruction Website
- Municipal Workshop Series
- Landowner Workshop Series
- Technical Assistance
 - Watershed Assessment/Management
 - Project Development/Management
 - Ordinance Evaluation & Preparation
 - Design Consultation (wetland & stream restoration, stormwater retrofits, etc.)
 - Permitting
- Grant Writing
- Grant Administration
- Project Coordination
- Capacity Building

Existing Projects that Could Support Watershed Implementation Plan and Bay TMDL Development:

Maryland/Virginia Circuit Rider:

- Center Webcast Series
- Stormwater Institute- March 9-11 in Staunton, Va
- Upper Choptank EPA a-i Watershed Plan
- Forest Heights Watershed Plan
- Baltimore City IDDE Project
- Sassafra Watershed Plan Implementation
- Bath County, VA watershed Plan
- Octoraro Watershed Plan
- Green County Stormwater retrofit planning

York County Circuit Rider:

- Municipal Workshop Series – Jan 28 – March 10
- Landowner Workshop Series – March – May 2010
- River & Watershed Conservation Plan Implementation
- Barshinger Creek Watershed Renaissance Initiative
- Speaker Services with Farm and Natural Lands Trust of York County
- Keystone Farm Show booth in York, PA – Jan 5,6,7 2010
- York County TMDL Workgroup
- York County Act 167 – Stormwater Modeling and Model Ordinance
- York County Integrated Water Resources Plan

Program: Chesapeake NEMO

Website: <http://www.chesapeakenemo.net/>

Contact: Amy C. Handen, AMHanden@chesapeakebay.net, (410) 267-5786

Description:

Chesapeake NEMO helps communities in the Chesapeake watershed and Maryland and Virginia coastal bays foster well-planned growth, preserve water quality and protect natural areas.

Chesapeake NEMO provides communities with educational programs emphasizing natural resource-based planning and better site design. NEMO provides free technical help and leveraged financial assistance, helping communities implement sound planning and watershed protection.

Resources:

Education Modules (<http://www.chesapeakenemo.net/education.cfm>)

NEMO has developed presentations on various introductory natural resource topics that can be delivered to a local community. These modules contain a PowerPoint presentation and associated script for the presenter, as well as suggested discussion questions to prompt discussion among the local stakeholders. Current module topics include:

- Linking Land, Water and Growth
- Planning the Direction of Your Community
- Forest Resources and Your Community
- Economics of Low Impact Development (In development)

- Climate Change Adaptation Planning (In development)

Technical Assistance (<http://www.chesapeakenemo.net/technical.cfm>)

Chesapeake NEMO provides assistance in three broad areas of expertise:

- 1) developing community vision and goals;
- 2) assessing and inventorying natural resources; and
- 3) developing and implementing natural resource and land use management tools.

Within these three areas of expertise, NEMO partners provide the following types of assistance:

- 1) developing stakeholder involvement strategies
- 2) facilitating community visioning and goal setting
- 3) strategic planning
- 4) natural resource and conservation planning
- 5) urban forestry master planning
- 6) low-impact development
- 7) code and ordinance development

Program: Rivers, Trails and Conservation Assistance

Website: <http://www.nps.gov/ncrc/programs/rtca/index.htm>

Contact: Wink Hastings, whastings@chesapeakebay.net, 410-260-2481

Description:

The Rivers, Trails, and Conservation Assistance Program is the community assistance arm of the National Park Service. RTCA provides technical assistance for community-led natural resource conservation and outdoor recreation projects. The Bay TMDL can be readily integrated with the following projects by explaining the Bay TMDL and Watershed Implementation Plan process to the cooperator, assisting the cooperatoator, and providing input and feedback back to EPA and/or state agencies developing Watershed Implementation Plans.

NEW PROJECTS

*FREDERICK COUNTY GREEN INFRASTRUCTURE PLAN (assisted by National Capital Region)
Frederick County Department of Public Works*

A local government led initiative to prepare a green infrastructure plan for Frederick County, Maryland. The Plan will guide and inform Frederick County decisions regarding conservation and management of natural resources, sustainable growth, and design and install best management practices (BMP). This Plan will also be integrated into the County's MS-4 stormwater management permit required by Maryland Department of Environment.

RTCA assistance requested for the following work tasks:

- facilitate various targeted workshops to assess organizational priorities for conservation
- guide development of public/private conservation program(s)
- facilitate integration of comprehensive land use plan, water resource element, stormwater management and watershed management

- define needs for increased organizational capacity
- identify key elements of the green infrastructure plan
- define criteria for prioritizing lands for the green infrastructure plan
- facilitate the preparation of an implementation and action strategy for the Plan

CONTINUING PROJECTS

CARR'S CREEK WATERSHED ASSESSMENT AND PLAN-Sidney Center Improvement Group

A community-led assessment of land use and water resource conditions of Carr's Creek (a direct tributary to the Upper Susquehanna River) in Delaware County, New York. The principle thrust of this continuing project is to identify sites for restoration and/or placement of BMPs, lands to protect, actions to reduce risk of future flooding, and initiate a watershed plan to guide future land use decisions.

RTCA assistance requested for the following work tasks:

- continue to strengthen organizational capacity and volunteer programs
- build enduring partnerships with key stakeholder organizations (including Otsego Land Trusts and Upper Susquehanna Coalition)
- complete stream assessment and watershed land use; institutionalize ongoing stream monitoring
- support and guide wetland restoration work of the Upper Susquehanna Coalition
- guide preparation of hydrologic/hydraulic stream modeling to design and implement flood mitigation measures
- develop framework to guide initial phases of watershed planning
- guide the development of a comprehensive outreach and educational program

CHEVERLY GREENPLAN-Town of Cheverly, Maryland

An initiative led by the Town of Cheverly Green Infrastructure Steering Committee comprised of representative key community organizations to prepare and implement a green infrastructure plan. The goal of this initiative is to preserve, restore, and sustain the natural environment of Cheverly and surrounding areas to balance community needs with protection of the natural environment and to guide future land use decisions within and around the Town.

RTCA assistance requested for the following work tasks:

- guide completion of the Cheverly GreenPlan and facilitate initial implementation of Plan recommendations
- facilitate integration of the Plan into Prince Georges County Green Infrastructure plan and water resource element of the comprehensive land use plan
- assist in leveraging funds for implementation
- facilitate Town policy and program changes to enhance plan implementation and effectiveness
- facilitate initial implementation of Plan components

CONSULTATIONS –

PENNSYLVANIA GREEN INFRASTRUCTURE MAP-Pennsylvania DEP

Pennsylvania State natural resource and environmental protection agencies have requested EPA region 3 to assist with the preparation of a map delineating priority lands to protect for water resources and ecosystem function. At the request of Department of Environmental Protection and EPA, RTCA will facilitate the prioritization process in collaboration with West Virginia University staff.

UPPER SUSQUEHANNA LAND CONSERVATION INITIATIVE- Otsego Land Trust, South Madison County Land Trust, Finger Lakes Land Trust, Butternut Valley Alliance, and Upper Susquehanna Coalition

RTCA design and facilitate a land conservation and wetland restoration site prioritization workshop for land trusts serving New York's portion of the Basin and Upper Susquehanna Coalition. This workshop will also support the development of a proposal to the Doris Duke Charitable Foundation for a grant through its Land Protection Initiative.
