

**January 1, 2016 – December 31, 2017 Jurisdiction Programmatic Two-Year Milestones**

<b>Agriculture</b>				
<b>Target Date</b>	<b>Milestone (WIP page reference)*</b>	<b>Deliverable</b>	<b>Lead Agency</b>	<b>Comments/Status Updates</b>
See list of deliverables for month-by-month target dates.	Develop and implement an Agricultural Compliance and Enforcement Strategy.	Establish a policy of compliance focusing on planning requirements with the goal of reasonable assurance that all PA farms have met applicable regulatory requirements by having required plans.	DEP	See attached “DEP Strategy to Enhance Pennsylvania’s Chesapeake Bay Restoration Effort” document for more detailed information and background on Pennsylvania’s efforts to improve local water quality, and by virtue of that, the Chesapeake Bay.
		January-February 2016: Public release of the strategy across many forums	DEP PDA State Conservation Bureau, PennAg, PA Association of Conservation Districts and Penn State Commission (SCC)	Add communication of this new strategy and the voluntary self-reporting tool to materials used by conservation districts (CDs) during site visits and materials distributed by PA Farm Bureau, PennAg, PA Association of Conservation Districts and Penn State Extension at winter meetings.
		July 2016: CD and DEP Inspection & Compliance Effort. Public announcement of beginning of inspections.	DEP	CDs and DEP staff begin to conduct inspections to ascertain compliance with regulatory planning requirements.

**January 1, 2016 – December 31, 2017 Jurisdiction Programmatic Two-Year Milestones**

		<p>Begin July 2016, then ongoing:</p> <p>Expand Plan Development Capacity.</p>	<p>PDA SCC DEP</p>	<p>Assist PDA, SCC and private sector with a cooperative project to obtain available supplemental EPA funding to build technical assistance capacity for developing Manure Management Plans and Ag Erosion and Sediment (E&amp;S) Control Plans in the private sector.</p> <p>Review with PA NRCS options for better targeting existing funding and building capacity to help meet producers’ demand for technical assistance in developing and implementing the Manure Management Plans and Ag Erosion &amp; Sediment Control Plans.</p>
		<p>July 1, 2016: Inspection &amp; Compliance Effort. DEP, in coordination with CDs, will use targeted approach (using regional office Waterways and Wetlands staff)</p>	<p>DEP</p>	<p>DEP, in coordination with CDs, will conduct inspections of 1,100 farms in its southcentral and northcentral regions in the first year.</p>
		<p>July 1, 2016 (with new CD contracts): Inspection &amp; Compliance Effort. In coordination with DEP, each CD (participating) conducts inspections at a minimum of 50 farms per Bay technician.</p>	<p>CDs</p>	<p>CDs, in coordination with DEP, will conduct 2,200 inspections.</p> <p>Completion of inspections in all counties in the Bay Watershed would take ten years.</p>

**January 1, 2016 – December 31, 2017 Jurisdiction Programmatic Two-Year Milestones**

See list of deliverables for month-by-month target dates.	Enhanced DEP Compliance, Enforcement, and Monitoring Strategy	Current estimate of 35-40% compliance rate for non-CAFO agricultural operations; 95% compliance for non-CAFO agricultural operations within 10 years.	DEP  CDs	
		July 2016: Revise DEP Agricultural Compliance, Enforcement, and Inspection Standard Operating Procedures (SOP) for Non-CAFO farms.	DEP	To reduce/eliminate available plan development grace periods, and include provisions for immediate issuance of NOV's to farms that are identified as lacking required plans.
		July 2016: Improve/revise DEP program guidance and data management systems to implement increased compliance and inspection program.	DEP	
		July 2016: Complete release of new Agricultural Operation Inspection Report form (3700-FM-BCR0489), which will aid in establishing consistent data collection and reporting by field staff.	DEP	

**January 1, 2016 – December 31, 2017 Jurisdiction Programmatic Two-Year Milestones**

		January 2016: Support Ag Ombudsman Program with public release of two new informational pamphlets – 1) “Manure Spreading in PA” and 2) “Manure Sampling and Spreader Calibration”	SCC PDA DEP Ag Ombudsman	
See list of deliverables for month-by-month target dates.	Implement a methodology to count, report and verify BMPs that are installed voluntarily, without state or federal cost-share assistance using the BMP tracking system developed.	Collection of data on Manure Management Plans and other specific BMPs	Penn State PDA DEP PA Farm Bureau PACD	Farmers/ag operations able to self-report voluntary practices implemented without state or federal funding.
		April 2016: Create and promote Penn State’s survey collection mechanism.	Penn State PDA DEP PA Farm Bureau PACD	
		June 2016: Report on BMP collection progress	Penn State PDA DEP PA Farm Bureau PACD	
		January 2017: Verify 10% of self-reported BMP data to meet requirements of Chesapeake Bay Program for input into the Bay Watershed Model	Penn State	

**January 1, 2016 – December 31, 2017 Jurisdiction Programmatic Two-Year Milestones**

See list of deliverables for month-by-month target dates.	Ongoing Cost-Effective BMP Data Collection Efforts	Ongoing: Conservation Technology Information Center (CTIC) Transect Survey	Capital Resource Conservation & Development Area Council	A transect survey pilot project in five counties is complete; it will be used to estimate (at a confidence interval of 90 percent) data on the use of cover crops.
		Ongoing: USDA-NRCS remote sensing pilot  Data due to DEP from NRCS by February 2016  Data to be reviewed by July 2016	USDA-NRCS	USDA-NRCS and DEP are collaborating on a remote sensing pilot project to determine if non-cost-shared BMPs can be documented through the use of aerial imagery.
February 2016	Implement targeted funding efforts in the Chesapeake Bay watershed, with special attention to funding agricultural or urban stormwater projects, and where geography and land use are amenable to successful BMP implementation.	Reallocate additional \$1,000,000 in state-provided water quality funding to Chesapeake Bay watershed work.	DEP	

**January 1, 2016 – December 31, 2017 Jurisdiction Programmatic Two-Year Milestones**

<p>January 2018</p>	<p>Implement targeted watershed effort in the Chiques Creek watershed in Lancaster County.</p>		<p>DEP SRBC PSU Lancaster County CD Stakeholders</p>	<p>This impaired watershed’s geography and land use are amenable to successful BMP implementation that will provide quick results toward attainment status. This watershed also has an active, interested local group ready to take the lead on implementation of the initiative. Federal and state cost-share funds will be focused on implementation. Work in this watershed and other watersheds could be a model for future efforts.</p>
		<p>Develop, through a collaborative effort with stakeholders, a restoration plan that includes pollutant reductions in all necessary sectors.</p> <p>This water quality analysis and watershed restoration plan will be suitable to replace a TMDL.</p> <p>Intra-Department and stakeholder coordination efforts aimed at providing resources for implementation upon completion of the initial analysis.</p>	<p>DEP SRBC PSU Lancaster County CD Stakeholders</p>	<p>Implementation will be targeted at select “priority” areas within the larger watershed to ensure local water quality improvements and eventual attainment of water quality standards.</p> <p>Baseline monitoring will be conducted prior to implementation of plan and future monitoring data will be compared to baseline to assess success.</p>

**January 1, 2016 – December 31, 2017 Jurisdiction Programmatic Two-Year Milestones**

December 2018	Develop a list of priority agricultural and stormwater BMPs with the greatest nutrient reduction potential for the Chesapeake Bay. PA will target annual ag cost share funding to these low cost, effective agricultural conservation practices that result in significant nutrient reductions.		DEP Other partners	
See list of deliverables for month-by-month target dates.	Increase the miles of livestock exclusion stream fencing being implemented annually within the Chesapeake Bay watershed under the DEP Streambank Fencing project.		DEP SCC PDA DCNR	
		July 2016: Revise, where necessary, the DEP Streambank Fencing program to maximize impact and provide flexibility in program.	DEP SCC PDA DCNR	
		July 2017: Increase, by ten-fold, the amount of staff time and funding directed to the DEP Streambank Fencing program within the Chesapeake Bay watershed.	DEP SCC PDA DCNR	Attainment of this deliverable is dependent on receipt of additional DEP staffing and outcome of PA RCPP grant proposal.

**January 1, 2016 – December 31, 2017 Jurisdiction Programmatic Two-Year Milestones**

See list of deliverables for month-by-month target dates.	Partner with other state agencies, statewide non-profits, county conservation districts and/or local watershed groups to quickly achieve on-the ground implementation of low cost and high impact BMPs.			One such example is the existing partnership with the Fish and Boat Commission, the Northcentral Pennsylvania Conservancy and the Conservation Districts in the DEP Northcentral Region to install stream restoration measures.
		March 2016: Outreach to PA Chesapeake Bay Management Team workgroups to share information about effort and seek feedback. Recruit a partnership of individuals to be charged with increasing BMP implementation	DCNR DEP External members Other PA agency partners	
		April 2016: Meet with partnership to reach agreement on work plans and objectives. Establish baseline for other outcomes and deliverables.	DCNR (co-chair) Other member (co-chair)	
		June 2017: Draft longer-term BMP strategy in support of Phase III WIP	DEP and Other internal and external partners	



**January 1, 2016 – December 31, 2017 Jurisdiction Programmatic Two-Year Milestones**

April 2016	Establish a PA Riparian Forest Buffer Advisory Committee	Compile a draft list of participants, develop objectives, and reach-out to assess interest, then hold a meeting	DCNR	Goal of Committee will be to produce reports, recommendations, and partnerships from the Committee that work toward increasing the rate of installation of riparian forest buffers.
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**Point Sources: Number of Bay Facilities Who Must Comply with Nutrient Cap Loads  
• Significant Sewage and Industrial Facilities**

<b>Target Date</b>	<b>Milestone (WIP page reference)*</b>	<b>Deliverable</b>	<b>Lead Agency</b>	<b>Comments/Status Updates</b>
This sector has exceeded its WIP milestone goals.	Two (2) additional Significant Sewage facilities will begin compliance with their cap loads starting 10/1/2015.		DEP	December 2015 Status: Completed  182 Significant Municipal Facilities have compliance start dates prior to 10/1/2015. <b>Four</b> additional facilities have begun their compliance with the cap load starting 10/1/2015
	Two (2) additional Significant Industrial facilities will begin compliance with their cap loads starting 10/1/2015.		DEP	December 2015 Status: Completed  13 Significant Industrial facilities have begun compliance prior to 10/1/2015. <b>Four</b> additional facilities have begun their compliance with the cap load starting 10/1/2015

**January 1, 2016 – December 31, 2017 Jurisdiction Programmatic Two-Year Milestones**

	<p>12 Sewage and Industrial facilities are anticipated to begin compliance with cap loads starting 10/1/2014, and Four (4) Sewage and Industrial facilities are anticipated to begin compliance with cap loads starting 10/1/2015.</p>		<p>DEP</p>	<p>December 2015 Status: Completed</p> <p>12 Sewage and Industrial facilities began compliance with cap loads on 10/1/2014 and additional <b>Eight</b> (8) Sewage and Industrial facilities began compliance with cap loads starting 10/1/2015.</p>
	<p>Industrial Facilities: At this time, 16 of the 23 facilities have cap loads established in draft or final NPDES permits. An additional seven (7) facilities will have permits issued with cap loads prior to December 31, 2015, and cap loads will become effective no later than October 1, 2016.</p>		<p>DEP</p>	<p>December 2014 Status: At this time, 19 of the 23 facilities have cap loads established in their final NPDES permits. One draft permit with cap load has been issued and other three (3) facilities will have permits issued with cap loads prior to December 31, 2016, and cap loads will become effective no later than October 1, 2017.</p>

**January 1, 2016 – December 31, 2017 Jurisdiction Programmatic Two-Year Milestones**

<b>Stormwater/MS4-PAG 13 (PA General Permit 13)</b>				
<b>Target Date</b>	<b>Milestone (WIP page reference)*</b>	<b>Deliverable</b>	<b>Lead Agency</b>	<b>Comments/Status Updates</b>
See list of deliverables for month-by-month target dates.	Continue outreach and program development for Municipal Separate Storm Sewer System (MS4) permits to include the finalization of the PAG-13 General Permit to include percent reductions for nitrogen, phosphorus and sediment.	Improved DEP MS4 permit	DEP	
		1/15/2016: Evaluate comments received on the draft permit and prepare comment response document	DEP	
		3/1/2016: Final draft General Permit revisions	DEP	
		4/1/2016: Publish General Permit	DEP	
		5/1/2016: Finalize draft Individual Permit template	DEP	
		5/1/2016: Issue instructions to each MS4	DEP	
		11/1/2016: Expand capabilities at DEP by training RO staff (MS4 and permit writer training)	DEP	

**January 1, 2016 – December 31, 2017 Jurisdiction Programmatic Two-Year Milestones**

		Ongoing: Review draft Pollutant Reduction Plans, Impaired Water Plans and TMDL Plans. Permittees are prepared to submit applications/NOIs	DEP (Regional offices)	
		9/16/2017: Review and issue 2018 permits	DEP (Regional offices)	
See list of deliverables for month-by-month target dates.	Continue MS4 permit outreach and program development to include the development of additional handbooks, guidance materials, etc. as needed and periodic, at least annual, workshops and training events on program requirements and the essential elements of the program. Supplement these with webinars and web-based training as needed.	Improved statewide MS4 permitting capability		
		1/1/2016: Plan 11 external training workshops for 2016 (big-picture decisions on purpose, locations, methods and available funding)	DEP	
		4/1/2016: Develop specs, select sites and advertise workshops	DEP	

**January 1, 2016 – December 31, 2017 Jurisdiction Programmatic Two-Year Milestones**

		5/30/2016: Develop agendas and training materials	DEP	
		5/30/2016: Develop model MCM #1, #2, #3 Plans and Develop technical guidance document for MCM #3	DEP Technical Contractor	
		5/30/2016: Prepare webinar for each MCM (using materials from the training; place on website)	DEP Technical Contractor	
		7/1/2017: Evaluate training effectiveness	DEP	
		Ongoing: Small event training (e.g. DEP MS4 Inspection Process)	DEP	

**January 1, 2016 – December 31, 2017 Jurisdiction Programmatic Two-Year Milestones**

See list of deliverables for month-by-month target dates.	Continue MS4 permit outreach and program development to include the implementation of a Circuit Rider Program to provide one-on-one technical assistance to municipalities in the development and implementation of a program to address the minimum control measures for an MS4 permit.	Improved individual local MS4 capability	DEP	These circuit riders will be part-time DEP employees who are subject matter experts involved in their local MS4 communities.
		3/15/2016: Develop position description	DEP	
		3/15/2016: Management process and Standard Operating Procedures (SOPs) created for Circuit Riders (making assignments, technical accountability and money)	DEP	
		Ongoing: Seek and select applicants	DEP	
		4/15/2016: Prepare materials and training for Circuit Riders	DEP	
		6/15/2016: Train Circuit Riders	DEP	
		7/15/2016: Circuit Riders helping MS4s. Goal of 5-10 MS4s per year per Circuit Rider	DEP	

**January 1, 2016 – December 31, 2017 Jurisdiction Programmatic Two-Year Milestones**

December 2016	Continue MS4 outreach and program development to include financial assistance grant programs to: (1) evaluate the feasibility of creating a stormwater authority and/or the creation of a framework for assessing and collecting fees for the management of stormwater; and (2) develop Chesapeake Bay Pollutant Reduction Plans, Impaired Waters Plans and TMDL Plans.	Obtain authorization and funding to establish program.	DEP	
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**January 1, 2016 – December 31, 2017 Jurisdiction Programmatic Two-Year Milestones**

See list of deliverables for month-by-month target dates.	Installation of cost-effective Stormwater BMPs.  Goal is to treat approximately 80 acres of impervious area and another 158 acres of pervious area for a total of 238 acres treated.	Create Local Stormwater BMP Implementation Program Overview, Application, Application Instructions, Application Checklist, Rating Form, Payment Request Form	DEP	Will include basin retrofits, bioretention basins, porous pavement, rain gardens, tree plantings, wetlands and stream restoration projects.  Completed 1/2015
		Program approved	DEP	Completed January 2015
		Grant solicitation approved	DEP	Completed 8/1/2015
		Bulletin Notice & Website update	DEP	Completed 8/22/2015
		1/15/2016: Applications reviewed and rated	DEP	
		3/1/2016: Grant recommendations approved and announced	DEP	
		5/1/2016: Contracts awarded	DEP	
		5/1/2018: Management of work and grant administration	DEP	



**January 1, 2016 – December 31, 2017 Jurisdiction Programmatic Two-Year Milestones**

<b>Stormwater/Chapter 102</b>				
<b>Target Date</b>	<b>Milestone (WIP page reference)*</b>	<b>Deliverable</b>	<b>Lead Agency</b>	<b>Comments/Status Updates</b>
12/2017	Reissue PAG-02 NPDES Permit: Scheduled to expire December, 2017. Revise and reissue the permit by or before date of expiration.	10/2016: Small Project Permit 12/2016: Draft sent to EPA 3/2017: Public Comment 12/2017: Final Permit	DEP	
12/2017	Revise Stormwater BMP Manual: the Stormwater BMP Manual needs to be updated. Contractor assistance is necessary.	2/2016: Funding Request from CWF 3/2016: Out for Bid 12/2016: First Draft 2/2017: Public Comment 12/2017: Final Draft	DEP	Funding mechanism will need to be identified to hire contractor to assist with manual revision.
6/2016	Develop and Implement Stormwater BMP Verification Program: High priority areas for stormwater discharges associated with construction will be determined. Verification procedures will be implemented.	3/2016: Begin process of verification protocol development 6/2016: Develop in-depth protocol as well as targeting protocol 6/2016: Begin field verification	DEP	Meet with other Stormwater Programs

**January 1, 2016 – December 31, 2017 Jurisdiction Programmatic Two-Year Milestones**

<b>Trading</b>				
<b>Target Date</b>	<b>Milestone (WIP page reference)*</b>	<b>Deliverable</b>	<b>Lead Agency</b>	<b>Comments/Status Updates</b>
1/1/2016 through 12/31/2016	By compliance year, identify the pollutant reduction activities that generated certified, verified and registered credits and the number credits associated with each activity that are consistent with the expectations of the TMDL. (WIP Page 49)		DEP	
1/1/2016 through 12/31/2016	Draft revisions to the Nutrient Trading Program regulations, Chapter 96.8 into a new Chapter 98, Pollution Reduction Credits and Offsets.		DEP	
1/1/2016 through 12/31/2016	Develop a credit calculation tool(s) for the generation of nonpoint source credits that is consistent with the Chesapeake Bay TMDL and the revised definitions for point source and nonpoint source baseline.		DEP EPA	
10/1/2017	Regulations finalized and tool in place.		DEP	

**January 1, 2016 – December 31, 2017 Jurisdiction Programmatic Two-Year Milestones**

<b>Tracking and Reporting</b>				
<b>Target Date</b>	<b>Milestone (WIP page reference)*</b>	<b>Deliverable</b>	<b>Lead Agency</b>	<b>Comments/Status Updates</b>
See list of deliverables for month-by-month target dates.	Design and build a BMP Data Management Framework to be an open architecture type of system.	A group of software applications that have a common theme, BMP data, that will serve as a repository for BMP information that must be reported to the Chesapeake Bay program, in addition to providing management tools for other activities.	DEP	
		9/1/2016: Identify software package for use by all CDs to capture BMP data installed by farmers without cost share dollars. Provide software and training to all CDs.	DEP	
		9/1/2016: Move the Chapter 102 E&S Control (102) permit data into centralized BMP system for reporting to EPA	DEP	

**January 1, 2016 – December 31, 2017 Jurisdiction Programmatic Two-Year Milestones**

		9/1/2016: Download voluntary BMP data to centralized BMP system to report to EPA.  All BMP data being reported by CDs will be entered into selected software and middleware to get info to EPA developed	DEP	
		9/1/2016: Capture 102 permit information automatically from conservation districts	DEP	Develop a user interface to capture the BMP data from 102 permits
		9/1/2016: Track grant funding spent on BMPs	DEP	Develop a user interface for the tracking of grant money and tying it to BMP central.
		9/1/2016: Develop interface for mining BMP data for other uses	DEP	Develop a user interface to get data on BMPS to other applications (mapshed, 303(d) revisioning, grant funding...etc)
		1/15/2017: Develop an MS4 annual report tool that will be used by the permittee to submit annual reports to DEP	DEP	

**January 1, 2016 – December 31, 2017 Jurisdiction Programmatic Two-Year Milestones**

<b>Federal Facilities</b>				
<b>Target Date</b>	<b>Milestone (WIP page reference)*</b>	<b>Deliverable</b>	<b>Lead Agency</b>	<b>Comments/Status Updates</b>
November 2016	Enter Federal Facility BMP data into NEIEN for 2016 Progress Run	BMP Implementation and Reporting	CBP	Data is provided from Federal Facilities Action Team and passed-through DEP.
November 2017	Enter Federal Facility BMP data into NEIEN for 2017 Progress Run	BMP Implementation and Reporting	CBP	Data is provided from Federal Facilities Action Team and passed-through DEP.
<b>Other/Category</b>				
December 2016	Update wetlands mapping for CBWM 6.0 calibration	BMP Implementation and Reporting	DEP	Contract coordination with EPA and Chesapeake Conservancy is underway for the development and implementation of updated wetlands mapping data. Expect data to be included in the Phase 6 Bay model by September 2016, and final report by the contractor by December 2016.
December 2017	Increase Legacy Sediment and Aquatic Ecosystem Restoration (LSAER) Implementation and Tracking	BMP Implementation and Reporting	DEP	Identify more opportunities for LSAER implementation. Include LSAER BMP as a stand-alone practice by working through the workgroup and expert panel protocols.

**January 1, 2016 – December 31, 2017 Jurisdiction Programmatic Two-Year Milestones**

Other/Category				
Spring 2016	Document, through business case development, the additional funding needed for staffing increases and cost-share programs necessary to make this plan implementable. This includes working with the Office of the Budget and the General Assembly to achieve the needed results.		DEP	
August 2016	Request the General Assembly and the Governor’s Budget Office restore funding for the statutory requirements of the Pennsylvania Storm Water Management of 1978 (Act 167) and additional staff necessary for DEP to implement provisions of the act.		DEP	

\* As part of the adaptive management process for achieving water quality goals, jurisdictions may submit programmatic milestones that modify, are in place of, or are in addition to milestones listed in their Phase I WIPs so long as the jurisdiction can demonstrate that they will be as effective toward meeting water quality goals.