January 1, 2014 – December 31, 2015 Jurisdiction Programmatic Two-Year Milestones

Target	Milestone (WIP page reference)*	Deliverable	Lead	Comments/Status Updates
Date			Agency	
Agriculture				
12/31/2014	Complete EPA CAFO program assessment and ensure consistency with EPA regulatory requirements. (WIP Page 97)	DEP submitted requested documentation to EPA on March 27, 2014. EPA-CBF Settlement agreement significantly influences this milestone. DEP will work with EPA to address EPA's required actions from the EPA-CBF CAFO Settlement Agreement. (NOTE: PA is not a party to this settlement agreement.)	DEP	DEP will assist EPA to finalize the CAFO program assessment by December 31, 2014 December 2014 Status: In March 2014, DEP provided comments/edits to EPA's "survey" of Pennsylvania's AFO/CAFO program. In November 2014, EPA provided DEP with a Pennsylvania Animal Agriculture Program Assessment draft report. In December 2014, DEP provided preliminary comments to EPA on this Pennsylvania Animal Agriculture Program Assessment draft report.

6/30/2015	Visit farms to ensure farm operators are aware of their regulatory requirements under Pennsylvania's Erosion Control regulations and the Manure Management Manual. (WIP Page 100)	4000 on-farm visits/year	DEP / CD	Conservation district staff have visited over 11,000 farms and provided education/outreach materials on the existing Pennsylvania's existing regulatory programs.
	NOTE: These are not inspections and are not indicated as such in the WIP.			These district staff also will continue to engage the farm community in the technical assistance necessary for education/implementation of BMPs. Without this technical assistance, the BMPs necessary to achieve water quality improvements will not occur.
				December 2014 Status: By September 30, 2014 – last quarterly reporting date – county conservation districts conducted 4,272 farm visits in 2014.
				Since the inception of this effort in July 2011, county conservation district have conducted 13,950 farm visits.

<u>January I, 2</u>	<u> 2014 – December 31, 2015 Jurisdictio</u>	<u>on Programmatic Two-Ye</u>	<u>ar Millesto</u>	<u>ones</u>
12/31/2015	Conservation District Nutrient	100 per staff position	DEP /	Will provide CBRAP reports to support
	Management Techs inform about	per year (38 staff	CD	this milestone.
	3,800 farm operations about	positions).		
	regulatory requirements and			December 2014 Status:
	address the manure management	Reported in CBRAP		From the most recent CBRAP report, the
	planning requirements	Grant.		activities addressed by these conservation
				district nutrient management technicians
				during the most recent 6-month reporting
				period (Jan 1, 2014 thru June 30, 2014)
				include:
				• 1,069 Outreach Activities
				• 6,798 Outreach Contacts
				• 118 Consultants Trained
				• 114 Complaints Processed
				Of these complaints, 48 required some
				form of compliance and 20 were referred
				to DEP. (No additional information on
				these 20 is available, as DEP does not
				separately track referrals from
				conservation districts at this time.)

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Target Date	Milestone (WIP page reference)*	Deliverable	Lead Agency	Comments/Status Updates
12/31/2015	DEP CBRAP Compliance Staff perform 450 compliance inspections, 100 compliance actions	Per year: 450 inspections; 100 compliance actions. Reported via CBRAP Grant.	DEP	DEP CBRAP staff has currently engaged in over 950 inspections, over 400 compliance actions and over \$120,000 in fines collected for agriculture violations. The 413 compliance activities are 140% more than the "target outcomes" for this grant. December 2014 Status: From the most recent CBRAP report, the activities addressed by these conservation district nutrient management technicians during the most recent 6-month reporting period (Jan 1, 2014 thru June 30, 2014) include: 144 Ag inspections 94 Stormwater inspections 94 Stormwater inspections 42 Compliance actions Several CBRAP staff positions were vacant during 2014. At this point, three of the four CBRAP positions are filled. All three DEP regional offices and the CBRAP staff in the Chesapeake Bay Watershed have been engaged in the Regional Ag Watershed Assessment Program Initiative.

<u>January I, 2</u>	<u> 2014 – December 31, 2015 Jurisdictio</u>	<u>on Programmatic Two-Ye</u>	<u>ar Milest</u>	<u>ones</u>
12/31/2015	Unreported BMPs:	Reporting of non-cost	DEP /	December 2014 Status:
	 Develop BMP Reporting 	shared BMPs	CD	
	mechanisms consistent with			Verification and Reporting:
	the Chesapeake Bay	BMP verification		DEP staff has been actively working on
	Program BMP	program		CBPO's BMP verification initiative. Draft
	reporting/verification			verification protocols are due to CBPO in
	protocol.	Commodity cover crop		mid-2015and staff is actively working to
	Continue successful and cost-effective	tracking system		meet that goal.
	conservation tillage	CTIC Tillage Survey		CTIC Tillage Survey:
	BMP collection	and things survey		Received final report on 2012 -2014 CTIC
	mechanism.			tillage survey from Capital RC&D in July
	Develop a system to			2014. Will continue this effort in 2015
	track commodity cover			and 2016 crop years. 2015/16 effort will
	crops.			include a pilot effort, based on survey
	Crops.			efforts in Delaware, to track cover crop
				acres.
				New Effort:
				NRCS remote sensing pilot project:
				Discussions with NRCS have resulted in a
				contract – funded with CBRAP funds – to
				collect BMP data using NRCS remote
				sensing capabilities. DEP expects to have
				results from this effort in the Potomac
				watershed in 2015.
12/31/2015	Work with PennVEST and others to	Opportunities to	DEP	December 2014 Status
12/31/2015	advance implementation of manure	Opportunities to advance manure	DEP	December 2014 Status:
	technologies and to quantify their	technologies		Staff continues to explore options for this
	nutrient reduction benefits.	tecimologies		milestone.
	nation reduction concines.			

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January 1, 2014 – December 31, 2015 Jurisdiction Programmatic Two-Year Milestones

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12/31/2015	Continue to focus grant funding to BMPs that provide cost-effective solutions for the reduction of nutrient and sediment loads to the Bay. These include notill/conservation tillage, cover crops, and conservation and nutrient management planning
	nutrient management planning activities.

In addition, continue to support grant funding for BMP tracking efforts that increase BMPs reported to the Chesapeake Bay model; Riparian corridor protection/restoration improvements, including streamside practices, streamside animal fencing, and riparian buffers; and barn yard practices and manure storages that provide reductions of nutrient and sediment loads to the Bay. (Phase 1 WIP, pg. 82)

Fund Installation of BMPs via CBIG grant. Annual addition of:

DEP

4000 acres No-Till 4000 acres Cover Crops 100 conservation plans 100 nutrient/manure plans 10 Barnyards 5 miles Stream Bank Fencing This milestone supports the CBIG grant special projects. DEP plans to increase the amount of funds available for BMPs by switching staff funds to CBRAP grant and utilizing the CBIG to fund additional BMPs.

December 2014 Status:

In July 2014, DEP began the transition of staff funding from CBIG to CBRAP grant. This will be accomplished once EPA approves the 2014 CBRAP grant. This will free up an additional \$1 million plus for BMP projects in any given year. These additional BMP funds have not been awarded, as the CBIG grant was not awarded until October 2014 and the CBRAP grant has not yet been approved by EPA. Expectation is that these additional grant funds will become available in 2015 and awarded to conservation districts no later than July 2015.

From the most recent quarterly report, the activities addressed by these conservation districts thru September 30, 2014) include:

- 2,363 acres of No-Till
- 4,557 acres of Cover-Crops
- 96 Conservation Plans
- 56 Nutrient management plans
- 7 Barnyard practices
- 37,595 feet of stream bank fencing (approximately 7 miles)

January 1, 2014 – December 31, 2015 Jurisdiction Programmatic Two-Year Milestones

12/31/2015 Targeted Watershed Compliance (Phase 1 WIP, pg. 102) Six watershed assessments in Pennsylvania. (Three will be in the Bay watershed.) DEP State-wide implementation of a focused watershed initiative began in November 2013. Based on the Soft Run watershed pilot project, each of DEP's six regional offices will complete at least one watershed by December 2015.

on August 20, 2014.

January 1, 2014 – December 31, 2015 Jurisdiction Programmatic Two-Year Milestones In 2014, 140 farms were assessed. Thirty-five (35) were found to have water quality problems and put on a 90day clock for follow-up. Of these 35, ten (10) were issued Field Orders because they did not comply with the initial 90day request for action. Additional field orders are anticipated. DEP plans to extend this Regional Agriculture Watershed Assessment Program Initiative to additional watersheds in 2015. Expectations are that three will be in the Chesapeake Bay watershed (see Attachment 1). 12/31/2015 Conservation District Agricultural Documentation of DEP Per CBRAP grant, a report to document Complaint Response Policy Report implementation of the the implementation of the September (Phase 1 WIP, pg. 99) Complaint Response 2012 SCC Model Complaint Response Policy Policy will be prepared and submitted to EPA on July 28, 2014. **December 2014 Status:** Report on the Model Complaint Response Policy was submitted to EPA

Target	Milestone (WIP page reference)*	Deliverable	Lead	Comments/Status Updates
Date			Agency	
Point Sourc	es: Number of Bay Facilities Who M	Iust Comply with Nutrien	t Cap Loa	ds Beginning During the Period
January 1, 2	2014 to December 31, 2015			
	ficant Sewage and Industrial Facilit	ies (212 facilities)		
12/31/2015	Permitting and Compliance with nutrient cap loads for all the Significant Sewage facilities (Section 7 of the WIP): • 174 prior to January 1, 2014 • Nine (9) additional facilities starting 10/1/2014. • Two (2) additional facilities starting 10/1/2015.		DEP	There is only one Phase 3 sewage facility that does not yet have cap loads in their final permits. A draft permit with the cap loads has been issued. PA plans on issuing all the permits with cap loads prior to January 2017. December 2014 Status: There are 190 significant sewage dischargers in PA. There is one (Phase 3) significant sewage discharger that does not yet have cap loads in its final NPDES permit (delayed due to EPA objections over nutrient trading permit language).

12/31/2015	Permitting and Compliance with the nutrient cap loads for all the Significant Industrial facilities (Section 7 of the WIP): Ten (10) prior to January 1, 2014 Three (3) additional facilities starting 10/1/2014. Two (2) additional facilities starting 10/1/2015.	DEP	At this time, 16 of the 23 facilities have cap loads established in draft or final NPDES permits. Out of the seven remaining significant industrial facilities, two of the facilities were issued the draft permits. PA plans on issuing all the permits with cap loads prior to 2017. December 2014 Status: There are 23 significant IW dischargers in PA. There are seven significant IW dischargers that do not yet have cap loads in their final NPDES permits (delayed in part due to EPA objections over nutrient trading permit language).
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Target	Milestone (WIP page reference)*	Deliverable	Lead	Comments/Status Updates
Date			Agency	,
Stormwater	/MS4-PAG 13 (PA General Permit 13)		DED	2014 G
12/31/2015	Conduct a series of five to ten MS4 workshops and/or webinars across the state to educate the regulated community on the implementation of the permit, including TMDL Plans and Chesapeake Bay Pollutant Reduction Plans.		DEP	December 2014 Status: Up to 8 workshops (4 scheduled dates with the possibility of conducting a second session the next day if registration exceeds 100) have been scheduled for MS4 permit compliance training in February 2015. Up to 8 additional workshops have been scheduled in March and April 2015 for TMDL Plan and Bay PRP training.
				Century Engineering has been selected as the contractor to help with the logistics of these workshops. The first four sessions will provide information on the basics of MS4 permit compliance. The second four sessions will emphasize the additional MS4 requirements which apply to MS4 permittees with TMDL and CB Pollution Reduction Plan obligations.
				 MS4 Permit Compliance Sessions: February 10 – Best Western, Central Hotel & Conference Center, 800 East Park Drive, Harrisburg, PA February 12 – The Woodlands Inn, 1073 Highway 315, Wilkes-Barre, PA February 18 – Holiday Inn, Morgantown/PA Turnpike, 6170 Morgantown Road, Morgantown, PA February 25 – Pittsburgh Marriott North, 100 Cranberry Woods Drive, Cranberry Township

Jurisdiction Restore Clean Water Action Items PA 2014-2015 Programmatic Milestones

	J	anuarv	1, 2014 –	December	31, 2015	Jurisdiction	Programmatic	Two-Year	Milestones
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January 1, 2	2014 – December 31, 2015 Jurisdiction P	<u> Programmatic Two-Year M</u>	<u>lilestones</u>
			 TMDL Plan / Chesapeake Bay Pollutant Reduction Plan Sessions: March 17 – Holiday Inn Lansdale, 1750 Sumneytown Pike, Kulpsville, PA March 19 – Inn at Leola Village, 38 Deborah Drive, Leola, PA March 25 – The Woodlands Inn, 1073 Highway 315, Wilkes-Barre, PA April 1 – Pittsburgh Marriott North, 100 Cranberry Woods Drive, Cranberry Township
12/31/2015	Begin implementation of its MS4 Inspection SOP by conducting office inspections and where necessary field inspections to verify implementation of BMPs, with the objective of inspecting all permitted MS4s within the Chesapeake Bay Watershed within 5 years.	DEP	December 2014 Status: 178 MS4 inspections were conducted between January 1, 2014 and December 12, 2014; of these there were 117 administrative reviews of submitted reports and 61 inspections of MS4 records (data audits) or field inspections.
12/31/2015	Update guidance materials for TMDL/Bay PRPs and develop model plans	DEP	December 2014 Status: A template for TMDL Plans and Bay PRPs has been on DEP's website since August 2013. This also includes an FAQ document attached to the instructions. DEP is also working with a contractor to create model TMDL Plans that will be used in March/April 2015 training events.
12/31/2015	Submit to EPA for review up to 20 Chesapeake Bay Pollutant Reduction Plans.	DEP	December 2014 Status: Work on this milestone is in progress.

Target	Milestone (WIP page reference)*	Deliverable	Lead	Comments/Status Updates	
Date			Agency		
Stormwater/Chapter 102					
08/29/2014	Extract data from DEP construction stormwater BMP database needed to assist in transition to reporting performance standards instead of individual BMPs; send data to Chesapeake Bay Program for review	Data Extraction and Transmittal	DEP	DEP will work with CBP throughout the milestone period on steps needed to complete the transition to reporting based on performance standards December 2014 Status: Data have been submitted to the Chesapeake Bay Program for stormwater BMPs that have been implemented; this reporting was done in accordance with the Urban Stormwater Workgroup's expert panel performance standard methodology. DEP is implementing schema changes to upload these data using the performance standard approach.	
12/31/15	Homeowners informational booklet for BMP O&M	3,000 booklets	DEP/ Contrac -tor	The Department has template/example documents that they will be modifying to create the booklet; outreach and distribution of the booklet will be coordinated through collaborating entities. December 2014 Status: The Department will bring on a consultant to assist in bringing draft materials to a final booklet for distribution.	

	<u>, 2014 – December 31, 2015 Jurisdict</u>			
12/31/14	Stormwater Construction NPDES	200 annually	DEP/	Staff are working on forms and reporting
thru	permit termination inspections		CDs	mechanisms for collecting permit
12/31/15				termination inspection data
				D 1 2014 G/ /
				December 2014 Status:
				Standard forms are complete and
				tracking of permit termination
				inspections has commenced.
12/30/14	Complete a peeds assessment for	Needs assessment	DEP	The Department has had a tracking
12/30/14	Complete a needs assessment for	needs assessment	DEP	
	the development of a program			system that tracks stormwater BMPs
	tracking and data management			implemented through its construction
	system			stormwater program since the mid-
				2000s; this system has been periodically
				updated since 2011 with both historical
				(previously implemented and not
				reported) data and current data (those
				BMPs that are being implemented on a
				yearly/current basis); these data include
				BMPs implemented in MS4 areas as well
				through both new development and
				redevelopment
				December 2014 Status:
				Work on the needs assessment is
				ongoing.

January 1, 2014 – December 31, 2015 Jurisdiction Programmatic Two-Year Milestones

Target	Milestone (WIP page reference)*	Deliverable	Lead	Comments/Status Updates			
Date			Agency				
Tueding %							
Trading & (1/1/2014 through 12/31/2015	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)			December 2014 Status: The true-up period for the 2014 Water Year is completed. A total of 1,889,079 nitrogen and 109,791 phosphorus credits were verified, of which 803,685 nitrogen and 85,079 phosphorus credits were registered, meaning they were sold to a wastewater treatment system for compliance purposes. A summary table of these credits by pollutant reduction activity is attached (Attachment 2).			
1/1/2014 through 12/31/2015	Work with Pennvest to implement the Nutrient Credit Clearinghouse Auction to facilitate the verification and registration of credits that meet the expectations of the TMDL.			December 2014 Status: DEP continues to support Pennvest in the implementation of the Nutrient Credit Clearinghouse. Forward auctions were held on March 19, June 11 and September 10, 2014. A Spot Auction was held on November 5, 2014. Nitrogen credits sold for between \$1.15 and \$2.50 a credit; Phosphorus credits for \$2.00 to \$2.51 per credit.			

	<u> 2014 – December 31, 2015 Jurisdictio</u>	n Programmatic Two-Ye		
1/1/2014	Finalize and implement a strategy		DEP	December 2014 Status:
through	to ensure Pennsylvania's Nutrient			In early April 2014, EPA began objecting
12/31/2018	Trading program meets the			to the issuance of NPDES point source
	expectations of the TMDL.			discharge permit renewals within the
				Chesapeake Bay watershed for wastewater
				treatment systems, asking for the full
				90-day review period provided for in the
				Memorandum of Agreement between EPA
				and DEP relative to the implementation of
				the NPDES Program. EPA cited the need
				to discuss and resolve issues with the
				definition of the non-point source
				agricultural baseline as the reason for the
				objection and the need for the extra time.
				Pursuant to 40 CFR Section 123.44(b)(2)
				and Section III.A.2 of the Memorandum of
				Agreement between EPA and DEP, DEP
				continued to receive specific objection
				letters from EPA at the end of the 90-day
				review period. These letters gave a more
				detailed explanation for EPA's objections
				to the re-issuance of two permits in the
				Chesapeake Bay Watershed. DEP sent a
				response to each of these objection letters,
				requesting public hearings. DEP believes
				that the latest recommendations submitted
				to EPA will resolve their issues and public
				hearings may not be necessary. As soon as
				DEP has confirmation from EPA that these
				recommendations are acceptable, DEP will
				be notifying permittees and program
				stakeholders as appropriate.

Jurisdiction Restore Clean Water Action Items PA 2014-2015 Programmatic Milestones

<u>January 1, 2014 – December 31, 2015 Jurisdiction Programmatic Two-Year Milestones</u>				
Target	Milestone (WIP page reference)*	Deliverable	Lead	Comments/Status Updates
Date			Agency	
12/31/2014	Development of a Stormwater Management Offsetting Program	Stormwater Offsetting Technical Guidance Document	DEP	December 2014 Status: A draft guidance document is under review.
Tracking ar	nd Reporting			
6/30/2014	Acquire contractor help, with assistance of CBRAP funds. Initiate analysis of deficiencies in Pennsylvania's data reported to the Watershed Model	Finalization of documentation needed to acquire contractor assistance	DEP	EPA assistance will be needed with contracting December 2014 Status: Complete. With EPA Assistance, contractor assistance was secured. Work on analyzing and addressing deficiencies is underway.
9/30/2014	Receive contractor summary of reporting deficiencies. Initiate development of plan to address deficiencies.	Summary report	DEP	December 2014 Status: Complete. Summary has been received; work has begun on addressing deficiencies.
9/30/2014	Conduct final meetings with key federal and state agency staff (both internal and external) to develop a plan to move forward on upgrading the Commonwealth's Tracking and Reporting System	Plan for moving forward to upgrade BMP Tracking and Reporting System	DEP	December 2014 Status: Several phone calls, discussions and meetings have taken place. Important and significant progress has been made, but there is a need for on-going meetings and discussions.

January 1, 2014 – December 31, 2015 Jurisdiction Programmatic Two-Year Milestones

Target Date	Milestone (WIP page reference)*	Deliverable	Lead Agency	Comments/Status Updates
12/30/2014	Complete analysis of guidance and other deliverables resulting from the CBP BMP Verification Committee, to include addressing historical BMPs	Assurance that a plan is in place to ensure that an upgraded Tracking and Reporting System is consistent with BMP Verification Principles	DEP	December 2014 Status: Partially complete. Significant work is underway analyzing and implementing the guidance on BMP verification.
03/31/2015	Finalize details for upgraded BMP Tracking and Reporting System	Initiation of any procurement processes that may be required for an upgraded system	DEP	December 2014 Status: Work is ongoing.
06/30/2015	Conduct mid-year review of progress related to BMP Tracking and Reporting, to include progress on review and correction of historical BMP data	Adjustments to plans and implementation activities, as needed	DEP	December 2014 Status: Review will be conducted closer to the target date.
12/31/2015	Finalize steps needed to implement upgraded tracking and reporting system	Upgraded system that will help improve the reporting and tracking of BMPs	DEP	December 2014 Status: Work is ongoing.

^{*} 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.