

January 1, 2012 – December 31, 2013 Delaware's Programmatic Milestones

Target Date	Milestone (Phase 2 WIP Section Reference)	Deliverable	Lead Agency	Comments/Status Updates
Stormwater				
3/2012 Completed 1/2014	Promulgate revised and updated sediment and stormwater regulations (Section 7.1.1.4)	Regulations	DNREC, Sediment & Stormwater Management Program	Revised regulations adopted July 2013 with effective date January 1, 2014. Three (3) initial training sessions have been completed; one in each county.
Completed 12/2012	Draft of new Industrial Storm Water Regulations (Section 7.1.2.1.4 & 5.4)	Regulations	DNREC, Surface Water Discharges Section (SWDS)	Draft Industrial stormwater regulations have been developed and will be combined with stormwater construction regulations. Promulgation is expected by 2014.
Completed 7/2012	Draft of BMP manual for industrial stormwater sites (Section 7.2.2.1)	Manual	DNREC, SWDS	Draft BMP manual completed July 2012. Final version will be complete once regulations are promulgated.
12/2013 1/2014	Stormwater retrofit for Seaford Central Elementary	Project	DNREC, Sediment & Stormwater Management Program	The plan was developed by Duffield and approved by DNREC. Construction conducted by Sussex Conservation District through summer 2013. As-built drawings accepted but project not completely closed out yet.
12/2013 9/2014	Stormwater retrofit for the City of Seaford	Project	DNREC, Sediment & Stormwater Management Program	Sussex Conservation District has had a pre-application meeting with GMB who is developing a plan for this project. Plans submitted for review October 2013; comments sent 11/19/13. Spring 2014 anticipated construction date.
On-Site Wastewater				
Third Quarter 2013 1/2014	Promulgate revised and updated on-site wastewater regulations (Section 6.4)	Regulations	DNREC, GWDS	GWDS held a workshop on October 14, 2013 and a Public Hearing on November 21, 2013. State Law requires that the record stay open for 15 days. The closing date is December 6, 2013. Once the record closes the hearing officer prepares a report that addresses the comments received and forwards to the Secretary. The Regulations to go into effect January

Delaware's Restore Clean Water Action Items

Target Date	Milestone (Phase 2 WIP Section Reference)	Deliverable	Lead Agency	Comments/Status Updates
				2014.
12/2013 1/2014	Revising and updating on-site and spray irrigation regulations (6.1.1.2)	Regulations	DDA DNREC, GWDS	GWDS held a workshop on October 14, 2013 and a Public Hearing on November 21, 2013. State Law requires that the record stay open for 15 days. The closing date is December 6, 2013. Once the record closes the hearing officer prepares a report that addresses the comments received and forwards to the Secretary. The Regulations to go into effect January 11, 2014.
1/2012 Completed 8/2012	Mapping of large On-site Wastewater Treatment and Disposal Systems (OWTDS) (Section 6.1.1.2)	Map	DNREC, Ground Water Discharges Section (GWDS)	Completed - Permitted wastewater mapped 8/2012.
Wastewater				
Early 2012 Completed 9/2012	General NPDES permit program for Aquatic Pesticide applications (Section 5.1.1)	Permit Program	DNREC, SWDS	Secretary's Order from DNREC signed in February, 2012 to enact Emergency Regulation (ER) <ul style="list-style-type: none"> • ER effective March 1, 2012 • ER effective until September 1, 2012 • Final regulation effective September, 2012
First quarter 2012 2014	Current Invista permitted nitrogen load reduced by 60% (Section 5.4)	Permitted load reduction	DNREC, SWDS	Amended NPDES permit application was received in April 2013. The facility is evaluating switching intake from river water to well water. In addition, efforts are underway to incorporate a nutrient trade agreement between Seaford and INVISTA into their respective NPDES permit renewals. The proposed trade agreement would allow Seaford to exchange some of its phosphorous Waste Load Allocation (WLA) for some of INVISTA's remaining nitrogen WLA following the 60% reduction in INVISTA's nitrogen load. The trade agreement was drafted in September 2013 and currently, SWDS is working to incorporate this nutrient trade into the special conditions of the NPDES permits for

Delaware's Restore Clean Water Action Items

Target Date	Milestone (Phase 2 WIP Section Reference)	Deliverable	Lead Agency	Comments/Status Updates
				both the Seaford Waste Water Treatment Plant (WWTP) and INVISTA. It is anticipated that the NPDES permits for both INVISTA and the Seaford WWTP will be issued in 2014.
2012-2013 2014	Revise the NPDES permits for the towns of Bridgeville and Seaford. Revised permits will include a compliance schedule with measurable goals to meet the new wasteload nutrient requirements of the WIP (Section 5.4)	Permitted load reduction	DNREC, SWDS	Bridgeville's revised NPDES permit came off public notice 4/6/2013 and is expected to reduce nutrient loads by implementing spray irrigation. The permit includes a compliance schedule that was reviewed by EPA. SWDS is currently drafting the revised Seaford WWTP NPDES permit. Efforts are underway to incorporate a nutrient trade agreement between Seaford and INVISTA into their respective NPDES permit renewals; the proposed trade agreement would allow Seaford to exchange some of its phosphorous WLA for some of INVISTA's remaining nitrogen WLA following the 60% reduction in INVISTA's nitrogen load. It is anticipated that the NPDES permits for both INVISTA and the Seaford WWTP will be issued in 2014.
2012-2013 4/2014	The Surface Water Discharges Section (SWDS) remains committed to reducing the NPDES permitting backlog in Delaware.	New Staff	DNREC, SWDS	The SWDS will be hiring a part time seasonal engineer in the 1st quarter of CY2014 to assist with writing and reviewing permits in order to address the permit backlog.
Agriculture				
2013 8/31/2014	Lead efforts to correctly determine the quantity and nutrient content of Delmarva poultry litter (Section 9.6.4.10)	Model Credit	DNREC, DDA, UD	Ongoing – Jim Glancey, University of Delaware, is chair of the Poultry Litter Subcommittee (PLS) for the Agriculture Workgroup. PLS is collecting data from the jurisdictions and is actively working in 2014 for WQGIT approval. To meet the 2014 Progress deadline, the PLS report will need to be approved by the WQGIT by 8/31/14.

Delaware's Restore Clean Water Action Items

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2013 2014	Assess the use of "Decision Nutrient Management" for Delaware (Section 9.6.1.7)	Inter-Departmental Review	DNREC, DDA	The CBP Nutrient Management Panel is in the process of reviewing and revising definitions and recommendations for modeling nutrient management practices. Delaware is represented on the Nutrient Management Panel. The results of this work will impact if and when Delaware reports nutrient management efforts as decision agriculture.
2012 12/31/2015	DNREC, DDA and USDA will continue working together to coordinate federal and state funding of the most effective conservation practices to reduce nutrient and sediment loads.	Coordinated Funding	DNREC, DDA, and USDA	Ongoing. DNREC is working with CBPO and Mark Dubin (UMD) to receive credit for conservation practices currently not used in scenario builder. Additionally, in January 2013 our agriculture partners met to discuss how to better capture non-cost shared cover crop practices.
7/2013 12/31/2015	Spearhead an effort to examine the best approach for a Certainty Program in Delaware (Section 9.6.5.1)	Inter-Departmental Review	DDA, DNREC, USDA (NRCS), EPA, Universities, Nutrient Management Commission	Meetings were hosted by DDA and a focus group was formed. The group determined approach, content and process. Legislation was drafted and currently under executive branch review.
FY2014 Completed 7/2013	DNREC and DDA will pursue additional state funding for cover crops in the FY14 budget	Additional funding	DNREC, DDA	The Delaware Association of Conservation Districts received an additional \$405,000 in state funds for implementation of cover crops in Delaware for FY2014. Sussex Conservation District was allotted 62%, Kent Conservation District 28%, and New Castle Conservation District 10%.
2012 Eliminated	Conservation Outreach to Non-English Speaking Poultry Growers	Public Outreach	Maryland Association of Soil Conservation Districts	Effort has been eliminated.
Completed 2/2012	Delaware plans to host a P-Index Conference within the state (Section 9.4.1.1)	Conference	DDA	As stated in our Phase II WIP, under 9.3.1.2, Delaware DDA hosted a P-Site Index Summit on February 2, 2012. At that time, stakeholders reviewed the Maryland P-Index and their plans to update the index as well as the Delaware P-

Delaware's Restore Clean Water Action Items

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				Index. The NRCS 590 standard review guidance was also reviewed along with the links between the 590 standard and the P-Index. As updates to the 590 Standard continue, Delaware will continue to assess the need to update the P-Index. In addition Delaware will participate in an NRCS CIG funded project sponsored by Penn State University to “refine and harmonize phosphorus indices in the Chesapeake Bay region to improve critical source area identification and to address nutrient management priorities.” This is a three year project that will coordinate the testing and revision of phosphorus management tools with the Chesapeake states. All major land grants in the Chesapeake are contributing or engaged in this project, including the University of Maryland.
2012 Completed	Demonstrate an innovative and highly effective flooring system for reducing ammonia emissions in chicken houses	Research Project	DDA	Research demonstrated in MD but data found to be unfavorable. This practice is not being pursued at this time.
2012 Eliminated	Research project investigating innovative manure-to-energy technologies and the creation of marketable fertilizer products that generate farm income	Research Project	Natural Resources Conservation Service (NRCS)	Funding through Fish & Wildlife Foundation Grant sought by Maryland but denied. This is a MD initiative that may apply in DE once completed. Delaware will not seek separate funding for this project and we do not expect any additional steps to be taken for this milestone, as this was solely a Maryland/NRCS initiative.
Planning & Landuse				
12/2012 Completed 3/2013	Work with the Chesapeake Bay Program to receive model credit for urban fertilizer phosphorus bans in neighboring states (Section 8.1.2.1)	Model credit	DNREC/DDA	Based on the science and best professional judgment, the Expert Panel to define removal rates for urban nutrient management came up with a set up recommendations that outlines three types of nutrient reduction credits associated with the BMP of Urban Nutrient Management. On March 13, 2013 these recommendations were approved by the

Delaware's Restore Clean Water Action Items

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				Water Quality Goal Implementation Team and became final.
<p>12/2013 3/2014 & 7/2014</p>	<p>Master Plans and/or validate build out scenarios for Bridgeville Sewer District; Laurel Sewer District; and Seaford Sewer District (Section 8.2.1)</p>	<p>3 Plans</p>	<p>University of Delaware (UD)/Office of State Planning Coordination (OSPC)</p>	<p><u>Bridgeville</u> - The Greenwood/Bridgeville Sewer District scenario almost complete. Due to staff turnover a sub-contractor was hired by the University of Delaware to complete the Bridgeville/Greenwood Study. The Wastewater Infrastructure Study needed to complete the Master Plan/build out scenario was completed in October 2013. The infrastructure plan also impacts the build out scenario approved by the Town in early 2013, therefore Town Council will need to review and approve the revisions to the build-out map.</p> <p><u>Laurel</u> – On-track. UD has met with and is finalizing a build out scenario map for the Town of Laurel. The next step is to meet with the community of Bethel to assess their plans for future growth. The Bethel Wastewater Study will likely impact the outcome of the build out scenario for Bethel, so completion of this task is dependent on completion of the Wastewater Study.</p> <p><u>Seaford</u> - On-track. UD is scheduling a meeting with City of Seaford to review and validate their growth and build-out scenario. An initial meeting was held in Spring 2013, however due to turnover follow up will occur later in winter 2014. The outcome of this buildout scenario is also dependent on the outcome of the Bethel Sewer Study, as Seaford is one treatment option being evaluated for the Town of Bethel.</p>
<p>Completed 12/2012</p>	<p>Update base watershed build out model to include 2010 census (Section 8.2.1)</p>	<p>Model update</p>	<p>UD</p>	<p>Completed December 2012.</p>

Delaware's Restore Clean Water Action Items

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2013 2015	Adopt statewide Offset Regulations (Section 8.2.2.2) (add'l info in Jan 2012 version) Key steps proposed in the State Action Notice are identified below: <ul style="list-style-type: none"> • Create Regulatory Advisory Council - Winter 2011 • Develop draft regulation - by July 2012 • Public workshops – September 2012 • Revise draft regulation – November 2012 • Publish in Register- December 2012 • Public hearing – January 2013 • Effective date – March 2013 	Regulations	DNREC	2014 UPDATE: Development of Offset Regulations has been put on hold pending the outcome of the promulgation of the revised Sediment and Stormwater Regulations and Onsite Wastewater Regulations, both which have provisions for offsets and/or in lieu fee. Stormwater in lieu fee goes into effect January 2014. In the mean-time, offsets and trading opportunities are evaluated and approved on a case by case basis and will be incorporated into local accounting for growth strategies.
12/2013 Ongoing through 12/2016	The Office of State Planning and Coordination and Sussex County will review approved development projects within the last five years to determine which projects may be sun-set. This information will be provided to EPA's Chesapeake Bay Program to be considered in nutrient loading calculations for Delaware's TMDL allocation.	Planning/Model Input	OSPC/Sussex County	Sussex County has approved a third extension to extend the life of proposed development projects for an additional three years – through 2016; however several projects have requested to revert to Agriculture use or have communicated they are not going to develop. We continue to work with our county partners to identify those projects and will provide updated information when it becomes available.
10/2013 Completed	Review of the Kent County and Sussex County Comprehensive Plans	Planning	OSPC/Kent County	Kent County Levy Court and Sussex County Council reviewed their comprehensive plans in 2013 and determined no changes were necessary. Updated plans are due by November 2018.
Public Lands				
12/2012 4/2014	Establish BMP tracking database (Section 11.1.1.2)	Database	DNREC/DDA	DNREC has worked with Tetra Tech Inc. to develop an online database for the reporting and tracking of NPS BMPs in DE, including restoration practices. This tool will be finalized in early 2014 and will be utilized for 2014 National Environmental Information Exchange Network

Delaware’s Restore Clean Water Action Items

Target Date	Milestone (Phase 2 WIP Section Reference)	Deliverable	Lead Agency	Comments/Status Updates
				(NEIEN) submissions. Individuals responsible for reporting practices from their organizations will be given login credentials to do so. This milestone was previously reported as “establishing a BMP tracking database”, but it’s been decided that an online NPS BMP reporting/tracking tool would be more useful and beneficial.
Completed 11/2012	Internal decision will be made whether cover crops and buffers will be required on DNREC Ag leased lands (Section 11.1.1.2)	Policy Decision	DNREC	Completed – Cover crops are required on DNREC Ag leased lands. An assessment was completed and no waters were identified as needing buffers.
1/2012 4/2014	Analyze all State owned lands for reforestation/afforestation opportunities (Section 11.1.1.2)	Internal review	DNREC	An analysis was completed for tax ditch areas on state owned lands. Meetings will be held in spring 2014 with public land owners to discuss restoration efforts. DNREC’s Watershed Assessment & Management Section, Delaware Forest Service, DNREC’s Division of Fish & Wildlife, the Conservation Districts, and US Forest Service will be in first quarter 2014 to discuss implementing riparian forest buffers with potential incentives.
6/2012 12/2015	Improve tax ditch management (Section 11.1.1.2)	Internal review	DNREC	A water resources planner has been hired by Sussex Conservation District to work with tax ditch managers and our drainage program in Sussex County to identify restoration opportunities on tax ditches, develop conservation plans and improve management plans, and track and verify implementation of BMPs and plans with tax ditch associations in Sussex County. Kent Conservation District is already providing this service and has been for the last two years, as demonstrated in our CBRAP semi-annual reports.
Completed 12/2013	Review effectiveness of stormwater facilities (Section 11.1.1.2 3)	Internal review	DNREC	The Public Lands Workgroup and Restoration Workgroup have been combined to improve efficiency and reduce overlap in work products. As discussed previously, the workgroup(s) continue to work with our partners at DDA

Delaware's Restore Clean Water Action Items

Target Date	Milestone (Phase 2 WIP Section Reference)	Deliverable	Lead Agency	Comments/Status Updates
				(Forestry), DNREC (Parks and Fish and Wildlife), and the Conservation Districts to identify BMP implementation opportunities as well as to identify, track and verify existing BMPs, including agriculture, drainage, stormwater, and conservation practices that may have been established previously but not included in reports. These practices will be reported as appropriate through NEIEN in December 2013.
6/2012 1/2014	Review Tributary Action Teams recommendations for consistency (Section 11.1.1.2)	Internal review	DNREC	The Watershed Assessment Section of DNREC along with NonPoint Source Program staff are currently reviewing all watershed based plans statewide (Whole Basin, Pollution Control Strategies and Tributary Team Recommendations; 319 Program Watershed Plans, etc for consistency and improved prioritization. This is an internal review process that is expected to be completed by the end of 2014.
Federal Lands				
12/2013 N/A	Establish baseline loadings and retrofit opportunities at both the Pigman Armory (10A90) and Seaford Readiness Center (10A65) (Section 11.1.4)	Opportunity List	DNREC, WAS Army National Guard Reserves	According to the Office of the Assistant Chief of Staff for Installation Management, the two federal facilities that were previously reported were erroneously identified as being federal facilities when in fact they are state facilities. Therefore, there are no federal facilities within Delaware's portion of the Chesapeake Bay watershed.
2012 N/A	The Pigman Armory and Seaford Readiness Center will continue to support Delaware's WIP Phase II processes in 2012 and 2013.	WIP implementation	Army National Guard Reserves	According to the Office of the Assistant Chief of Staff for Installation Management, the two federal facilities that were previously reported were erroneously identified as being federal facilities when in fact they are state facilities. Therefore, there are no federal facilities within Delaware's portion of the Chesapeake Bay watershed.
2012 N/A	The Pigman Armory and Seaford Readiness Center will continue to implement the Army	Managed stormwater	Army National Guard Reserves	According to the Office of the Assistant Chief of Staff for Installation Management, the two federal facilities that were

Delaware's Restore Clean Water Action Items

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	Policy for Sustainable Design and Development (SDD), October 2010 and Low Impact Development (LID) under the Energy Independence and Security Act of 2007 (EISA) as a means to manage stormwater for all future construction and maintenance projects.			previously reported were erroneously identified as being federal facilities when in fact they are state facilities. Therefore, there are no federal facilities within Delaware's portion of the Chesapeake Bay watershed. .
Restoration				
4/2014	Development of a revised restoration database to list and help prioritize potential restoration projects (Section 10.2)	Database	DNREC, WAS	See milestone under Public Lands section (Restoration & Public Lands have been combined for 2014-2015 milestone period). A revised restoration database has morphed into a BMP tracking database.
Communications				
Completed 12/2013	Develop and implement a Communications Marketing Plan (Section 14.5.3)	Public Outreach	DNREC and Communications Team	Implementation Ongoing. The plan has been developed and a contractual staff person has been hired through CBRAP funding to focus on implementation of this program and plan. The Communications team, which is interagency and includes state, federal and nonprofit partners, meets on a quarterly basis, at minimum. The communications team has adopted a Chesapeake Bay Pledge with a goal of three thousand participants stating efforts they will take to reduce nutrient and sediment pollution in 2013. They have developed a social media plan including Twitter and Facebook pages, and are in the process of improving our website. The Team is working with various partners to develop short videos to share with the public and our partners through various outlets including social media and public service announcements through more traditional media sources. To date two have been developed. Our communications/ marketing specialist is also working with local hardware companies, specifically in Seaford area as a

Delaware's Restore Clean Water Action Items

Target Date	Milestone (Phase 2 WIP Section Reference)	Deliverable	Lead Agency	Comments/Status Updates
				<p>pilot project, to develop displays for conservation projects such as rain gardens and rain barrels for homeowners. If successful, additional materials/displays may be developed. A program to provide cost share and/or giveaway rain barrels and trees to residents of Chesapeake Bay Watershed is also being developed in partnership with our Nonpoint source program for spring 2013. Significant outreach has occurred in the last year to promote onsite septic funding opportunities for low and moderate income residents within the watershed. Plans of three additional community workshops at local churches or libraries are also in effect. Finally, our Communications and Marketing team expect to participate or provide materials for up to eight of the most attended and appropriate festivals or events within the watershed this year.</p>

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