

## Final West Virginia Restore Clean Water Action Items

### West Virginia January 1, 2020 – December 31, 2021 Milestones - Programmatic Commitments and BMP Implementation Targets

<b>Agriculture</b>					
1.	12/31/2021	Conduct one promotional outreach session with Berkeley County Farmland Protection easement holders on the various benefits of eligible Conservation Programs, such as CREP, EQIP, and WV Agricultural Enhancement. (WIP-3, pg. 8)	2 year milestone annual report	Region 9 Planning and Development Council – Pennington	<p>STATUS PENDING – This outreach session was scheduled for March 17, 2020. However, it was, and has been postponed due to COVID-19.</p> <p>COVID OPTIONS–How to proceed with this milestone is difficult, as Virtual Meetings may not be well received with our target audience of rural farmers.</p> <p>Direct Mailings that connect us with Farmland Protection easement holders may be the best option. These mailers may open a communication conduit with those interested, and how best to promote CREP on a case-by-case basis.</p> <p>Next Steps – Request a modification to this Two-Year Milestone from WVDEP / EPA based on COVID-19 obstacles.</p>
2.	12/31/2021	Conserve 7500 acres of agriculture land under the WV Farmland Preservation Program and County Farmland Protection Boards. (WIP-3 pg. 10, 61, 62)	7500 acres conserved land	County Farmland Protection Boards – Mark Schiavone	3689.501 acres conserved as of 12/31/2020
3.	12/31/20 12/31/21	Engage water utilities, land trusts, and community partners in using land conservation to protect drinking water through the Safe Water Conservation Collaborative. (pg. 61-62)	2 year milestone annual report	WV Rivers Coalition – Tanner Haid	In accordance with local Source Water Protection Plans, Collaborative partners in 2020 created six landowner legacy videos, generated three local and regional media stories, and conducted

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					outreach through multiple postcards to 750 landowners within drinking water protection areas. These actions have resulted in at least one landowner applying to Berkeley County Farmland Protection Board
4.	12/31/2020 12/31/2021	Maintain cover crop implementation of a minimum of 7,000 acres annually within the Potomac Valley and Eastern Panhandle Conservation Districts by providing incentives to plant additional acreage and boost early cover crop adoption. (pg. 39, 42, 45, 46, 79)	7000 acres cover crop	WVCA – Shreve	A total of 6,685.03 acres of cover crops were planted in the fall of 2020. Those acres can be broken down as follows: EPCD 4,661.34 acres, PVCD 2,023.69 acres.
5.	12/31/2020 12/31/2021	Update WV based outreach materials that can be utilized to showcase resource concerns and how BMP implementation has advanced water quality. (pg.50-58)	2 year milestone annual report	WVDA/WVCA – Monroe/Shreve	Due to the current pandemic, displays have not been utilized for outreach. However, the WV CBay website has been updated regularly and educational posts have been made on the WV CBay Facebook page. Cover crop signs were also designed and distributed. (Materials are attached.)
6.	12/31/2020 12/31/2021	Continue to develop a series of WV Chesapeake Bay videos promoting BMP adoption (i.e. Cover Crop, Stream Restoration, CREP, Verification). (pg. 50-58)	2 year milestone annual report	WVDA/WVCA/ NRCS/FSA/ WVDOF/TU – Monroe / Shreve	Currently, WVCA is developing videos to promote planting of cover crops and CREP. A video of the stream restoration on Sleepy Creek is also being developed.
7.	12/31/2020 12/31/2021	Implement a formal riparian buffer outreach strategy to increase the adoption of effective buffers to 200 new acres annually. This will be in conjunction with our federal, state and local partners and may include mass mailings, public meetings, news article series, videos, field days, etc. that promote both riparian buffers in general and CREP. (pg. 50-54)	200 new acres forested buffers	WVDA/WVCA/ NRCS/FSA/ WVDOF/TU – Monroe / Shreve	WVCA is currently working with WVDOF and FSA to create and/or print outreach materials. These materials include a guide for landowners for successful riparian buffers and a brochure that will be mailed to prospective landowners. (Materials are attached.)

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8.	12/31/2021	Host a comprehensive programmatic and technical CREP training with classroom and field components for all CREP partners. This will address new staff, consistency in program delivery, program compliance, and monitoring and maintenance issues. (pg. 50)	2 year milestone annual report	FSA/WVDOF/ WVCA/NRCS – Monroe / Shreve	A two-day in-person training was scheduled for March. However, due to the pandemic, it was cancelled. Partners were determined to hold a training to fulfill the commitment. A one-day virtual training was held in September 2020. There were 75+ attendees and the training was recorded and posted online for future training purposes. <a href="http://www.wvchesapeakebay.us/CREP/">http://www.wvchesapeakebay.us/CREP/</a>
9.	12/31/2021	WV CREP Partner Agencies, led by WVCA, will train staff and implement a verification program for CP22 contracts. A combined effort between state and federal partners will result in inspection of 100% of expiring contracts annually. (pg. 50)	Retain 50% of credited acres	WVDA/WVCA/W DOF/NRCS/ FSA – Monroe/Shreve	Development of a formal training for additional staff was put on hold due to the pandemic. However, WVDOF and NRCS were successful in the inspection of expiring contracts.
10.	12/31/2020 12/31/2021	Implement an agriculture BMP verification program using an adaptive management approach. (Pg. 60-61)	2 year milestone annual report	WVDA/WVCA/ WVDOF – Monroe/Shreve	Initial tests were conducted using current agricultural BMP data. During this test, WV Division of Forestry BMP data was exported from WVDA’s Agricultural BMP Database for analysis in ARC GIS Pro. Initial results appear promising, so further research will be conducted over the remainder of the calendar year to improve data capture and utilization. Improvements in data utilization will open up opportunities to quickly ramp up West Virginia’s Agriculture BMP Verification Program.

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11.	12/31/2020 12/31/2021	Transfer a minimum of 7,500 tons of wet litter from Potomac Valley Conservation District annually. This will be accomplished by offering incentive payments to Eastern Panhandle Conservation District and Tygarts Valley Conservation District cooperators for the purchase of poultry litter from the Potomac Valley Conservation District area. (pg. 39, 40, 79, 80)	7500 wet tons poultry litter reported	WVCA - Shreve	4,879.34 tons of wet poultry litter was moved out of PVCD.
12.	12/31/2021	Construct animal waste storage facilities on new poultry operations for a minimum of 5,000 animal units. (pg. 39, 42, 44, 79)	animal waste storage for 5000 new au.	NRCS - Shreve	Mineral County – 287.76 Hardy County – 2,828.63 Grant County - 297.87 <b>TOTAL – 3,414.26 au</b>
13.	12/31/20	In consultation with NRCS, assess operational status of expiring poultry animal waste storage structures built between 2004 and 2006. Existing and functioning BMPs will be reported through NEIEN.	Retain 65% of credited au.	WVCA - Shreve	Expiring contracts were examined and following consultation with NRCS and WVDA staff, were deemed either fully functioning or no longer in use. 81.8% were retained and reported through NEIEN.
14.	12/31/2021	Host a state-wide field day at the 2019 WV Conservation Farm located in Mineral County. Current conservation practices will be show cased and staff will be available to advise attendees of available incentive programs. (pg. 46)	2 year milestone annual report	WVDA/WVCA/ NRCS/FSA/ WVDOF/TU - Shreve	Due to the pandemic, the planned field day was postponed. Agencies as well as the producers are hopeful that 2021 will provide opportunities to showcase and educate the public about conservation efforts.
15.	12/31/2020 12/31/2021	All EQIP and CREP contracts will include an up-to-date conservation plan. Depending upon the specific operation, a prescribed grazing plan may also be included. Acres under these plans will be updated annually. (pg. 62)	Conservation and grazing plan acres reported through NEIEN.	NRCS/FSA/ WVCA - Shreve	Correspondence with local NRCS staff verified that conservation planning is included in EQIP and CREP contracts. A portion of these acres translated into prescribed grazing acres for NEIEN inclusion. These were acres that were previously left unaccounted for.

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Wastewater					
16.	12/31/2020 12/31/2021	Input compliance schedules and orders into EPA's Integrated Compliance Information System. (pg. 12-17)	Data in system	WV DEP – Patel, Bandy, Wright	As of 12/31/2020, DEP had over 700 orders in 2020. Due to COVID, we also had some initial challenges. We are working to input the data at this time.
17.	12/31/2020 12/31/2021	Update inventory of WWTPs with upgrades and schedules as needed. (pg. 12-17)	Spreadsheet	WV DEP - Wandling	Updated spreadsheet attached.
18.	12/31/2020 12/31/2021	Review compliance of newly upgraded systems with NPDES permit limits. (pg. 12-17)	2 year milestone annual report	WV DEP – Wandling	Significant facilities were reviewed quarterly by WVDEP Program Support staff. In 2020, the US Dept. of Interior's Leetown Science Center (permit number WV0005649) exceeded the yearly TN and TP limits for outlets 002 and 003. WVDEP has been corresponding with them on the exceedances.
19.	12/31/2020 12/31/2021	Assist the Warm Springs Public Service District develop and apply for funding to conduct an inflow and infiltration management project. (pg. 19)	2 year milestone annual report	Region 9 Planning and Development Council	75% Complete – An application to the USDA Rural Utilities Services Water and Waste Water Loan/Grant Program has been prepared by Region 9 and the Thrasher Group. This application is scheduled for submission in January 2021.  If approved, this application will provide \$3,890,000 to the Warm Springs Public Service District to reduce inflow and

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					infiltration rates into the sanitary sewer system.
20.	12/31/2020 12/31/2021	Report new septic installations and connections to Publicly Owned Treatment Works (POTWs) in annual progress submissions to demonstrate overall minimal growth on septic systems.	Annual progress (connections to POTWs) & spreadsheet (new septs)	WVDEP - Hartman	Complete: New septs emailed to J.Sweeney & P.Claggett on 12/2/20.  Number of connections added to progress XML submittal 11/25/20.
<b>Offsets and Trading</b>					
21.	12/31/2020 12/31/2021	Update and maintain offsets tracking and accountability system in accordance with EPA requirements. (pg. 12-17)	spreadsheet	WV DEP - Patel	Complete.
22.	12/31/2020 12/31/2021	Consider and, if appropriate, approve, offset requests on a case by case basis. (pg. 12-17)	2 year milestone annual report	WV DEP - Patel	5 offsets approved in 2020.
<b>Urban Stormwater</b>					
23.	12/31/2020 12/31/2021	Obtain funding and develop one (1) Multi-Jurisdictional Hazard Mitigation Plan containing goals and strategies for Nature Based BMPs co-benefitting Water Quality and Hazard Mitigation. (pg. 31)	2 year milestone annual report	Region 9 Planning and Development Council - Pennington	25% Complete – Region 9 submitted a “State of West Virginia Hazard Mitigation Planning Grant Application” to the West Virginia Division of Homeland Security and Emergency Management (WVDHSEM)  The FEMA REGION III HMA – MITIGATION DIVISION, reviewed this application and provided comments to Region 9 on March 9, 2020.

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					Region 9 responded and submitted revisions to the application based on these comments on April 8, 2020.  The status of this application is still pending.
24.	12/31/2020	Coordinate a workshop on stormwater management topics with partners, e.g. CSN, Region 9. (pg. 26)	2 year milestone annual report	WV DEP - Hartman	Held 1/12/2021 in cooperation with Chesapeake Stormwater Network with 17 attendees.
25.	12/31/2020	Update the WV Stormwater Management and Design Guidance Manual to incorporate the latest CBP approved BMPs. Add summary chapter with how-to and resource guides for municipalities, contractors, subdivisions, and homeowners. Provide details on incorporating (poultry litter) biochar as soil amendment and in BMPs. (pg. 23)	Stormwater Guidance Manual	WV DEP - Donner	Review determined that the manual is still current and no updates are proposed at this time. Position is now vacant and it is unclear whether the summary chapter and bio char additions will occur.
26.	12/31/2020	Analyze current land use data to determine impact on nutrient and sediment loads. (pg. 10, 20-23, 27)	2 year milestone annual report	WV DEP - Donner	Complete. Analyzed the CAST 2019 acre and load quantities and distributions.
27.	12/31/2021	Hold workshop on using the updated WV Stormwater Management and Design Guidance Manual. (pg. 23, 26)	2 year milestone annual report	WV DEP - Donner	Held virtual workshop 12/8/2020 with 28 attendees.
28.	12/31/2021	Fulfill training requests by MS4s and stormwater professionals. (pg. 28)	2 year milestone annual report	WV DEP - Donner	Complete. Provided additional resources to Berkeley County and Martinsburg MS4s
29.	12/31/2021	Shift BMP verification and inspection of new BMPs to same progress year as construction. (pg. 22)	NEIEN submittal	WV DEP - Donner	Complete. Inspections for the BMPs being submitted end of 2020 were inspected prior to June 30 <sup>th</sup> 2020.
30.	12/31/2021	Update QAPP to reflect the milestone above. (pg. 28)	QAPP	WV DEP - Donner	Complete. Now using Notices of Termination for construction projects to

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					inspect BMPs during the program year of implementation.
31.	12/31/2021	Reissue the Municipal Separate Storm Sewer Systems Permit.	2 year milestone annual report	WV DEP – Patel	Permit extended through 2/11/2021.
32.	12/31/2021	Using EPA/Tetra Tech contract, design green infrastructure project for the City of Martinsburg. (pg. 28, 34, 36)	2 year annual milestone report.	WV DEP – Koon via Tetra Tech	Design is underway.
<b>WEST VIRGINIA NOTES AND GENERAL COMMENTS</b>					
	None				