



Washington County

M A R Y L A N D

DIVISION OF
ENVIRONMENTAL MANAGEMENT
WATER QUALITY | SOLID WASTE | ENGINEERING SERVICES

October 31, 2019

Ms. Deborah Cappuccitti
Senior Regulatory Compliance Engineer
Maryland Department of the Environment, Water and Science Administration
Sediment, Stormwater, and Dam Safety Program
1800 Washington Blvd, Suite 440
Baltimore, MD 21230-1708

Re: General Permit No. 03-IM-5500
2019 Washington County Annual Report

Dear Ms. Cappuccitti,

Debbie

Washington County's Division of Environmental Management is pleased to provide to you the attached:

***2019 Washington County Maryland, NPDES Municipal Small MS4 Progress for Year 1 Report
For General Permit No. 03-IM-5500***

This year's submission is in the new format as required by the MS4 Permit and contains the completed forms from Appendix D, the Impervious Area Restoration Work Plan, and the Phase II Restoration Activity Schedule. Also included is a CD with the following information; GIS Geo-database of the Urban BMP database in accordance with the database structure in Appendix B, Tables a, b, and c; GIS Shape Files which include the stormwater management drainage mapping, and the impervious baseline layer; PDFs of IDDE Ordinance and the Disconnection Study; various photos of tree plantings and stream restoration projects.

The information provided has been reviewed for accuracy and is based on the best available information at the time of compilation. It is understood that the information is dynamic and subject to change and that the goal is total compliance with MS4 permit requirements by the end of the permit term.

Should you require further information, or have any questions or comments, please contact me directly at 240.313.2611 (email jswauger@washco-md.net).

Respectfully,

John W. Swauger, Jr.
Stormwater Management/NPDES Coordinator

Attachments (Year 1 Submission Documents
With CD)

16232 Elliott Parkway | Williamsport, MD 21795-4083 | P: 240.313.2600 | F: 240.313.2601 | TDD: 7-1-1

WWW.WASHCO-MD.NET

APPENDIX D

Municipal Small MS4 Progress Report

Washington County, Maryland

NPDES Annual Report

General Discharge Permit No. 13-IM-5500

General NPDES No. MDR055500

2019 Municipal Small MS4

Progress Report

Year 1

October 31, 2019

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Maryland Department of the Environment (MDE)

**National Pollutant Discharge Elimination System (NPDES)
Small Municipal Separate Storm Sewer Systems (MS4) General Permit**

This Progress Report is required for those jurisdictions covered under General Discharge Permit No. 13-IM-5500. Progress Reports must be submitted to:

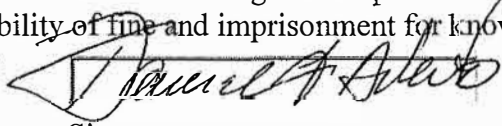
Maryland Department of the Environment, Water and Science Administration
Sediment, Stormwater, and Dam Safety Program
1800 Washington Boulevard, Suite 440, Baltimore, MD 21230-1708
Phone: 410-537-3543 FAX: 410-537-3553
Web Site: www.mde.maryland.gov

Contact Information

Permittee Name:	Washington County Maryland
Responsible Personnel:	Daniel F. DiVito
Mailing Address:	16232 Elliott Parkway Williamsport, MD 21975
Phone Number(s):	240-313-2600
Email address:	didivito@washco-md.net
Additional Contact(s):	John W. Swauger, Jr.
Mailing Address:	16232 Elliott Parkway
Phone Number(s):	240-313-2611
Email address:	jswauger@washco-md.net

Signature of Responsible Personnel

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Daniel F. DiVito		10/31/2019
Printed Name	Signature	Date

Reporting Period (State Fiscal Year): 2019

Due Date: 10/31/2019 **Date of Submission:** 10/31/2019

Type of Report Submitted:

Impervious Area Restoration Progress Report (Annual): ☒

Six Minimum Control Measures Progress (Years 2 and 4): ☐

Both: ☐

Permittee Information:

Renewal Permittee: ☒

New Permittee: ☐

Compliance with Reporting Requirements

Part VI of the Small MS4 General Discharge Permit (No. 13-IM-5500) specifies the reporting information that must be submitted to MDE to demonstrate compliance with permit conditions. The specific information required in this MS4 Progress Report includes:

1. Annual: Progress toward compliance with impervious area restoration requirements in accordance with Part V of the general permit. All requested information and supporting documentation must be submitted as specified in Section I of the Progress Report.
2. Years 2 and 4: Progress toward compliance with the six minimum control measures in accordance with Part IV of the general permit. All requested information and supporting documentation shall be reported as specified in Section II of the Progress Report. MDE may request more frequent reporting and/or a final report in year 5 if additional information is needed to demonstrate compliance with the permit.

Instructions for Completing Appendix D Reporting Forms

The reporting forms provided in Appendix D allow the user to electronically fill in answers to questions. Users may enter quantifiable information (e.g., number of outfalls inspected) in text boxes. When a more descriptive explanation is requested, the reporting forms will expand as the user types to allow as much information needed to fully answer the question. The permittee must indicate in the forms when attachments are included to provide sufficient information required in the MS4 Progress Report.

Section I: Impervious Area Restoration Reporting Form

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Section I: Impervious Area Restoration Reporting

1. a. Was the impervious area baseline assessment submitted in year 1?

☒ Yes ☐ No

b. If No, describe the status of completing the required information and provide a date at which all information required by MDE will be submitted:

- c. Has the baseline been adjusted since the previous reporting year?

☐ Yes ☒ No

2. Complete the information below based on the most recent data:

Total impervious acres of jurisdiction covered under this permit: 4353

Total impervious acres treated by stormwater water quality best management practices (BMPs): 516

Total impervious acres treated by BMPs providing partial water quality treatment (multiply acres treated by percent of water quality provided): TBD

Total impervious acres treated by nonstructural practices (i.e., rooftop disconnections, non-rooftop disconnections, or vegetated swales): 119

Total impervious acres untreated in the jurisdiction: 3718

Twenty percent of this total area (this is the restoration requirement): 743.6

Verify that all impervious area draining to BMPs with missing inspection records is not considered treated. Describe how this information was incorporated into the overall analysis:

Washington County recently completed an update to its planimetric data using the aerial photography that was flown by the State of Maryland in 2017. The planimetric data derived from this dataset included: building footprints, roads, driveways, parking lots, and impervious recreation areas (tennis courts, basketball courts, etc.). The derived datasets were combined to create the new impervious surface layer. The new layer includes new development as well as expanding the scope of previous planimetric projects to include road shoulders and sidewalks.

Washington County used GIS to identify areas in the county that met the following conditions; within the boundary of the 2010 census urbanized area, is outside the boundary of incorporated towns with MS4 Permits (excluding areas owned by

Section I: Impervious Area Restoration Reporting

Washington County Public Schools which is the County's responsibility), is outside of parcels on which industrial permitted operations exist, and is outside of land owned by the State of Maryland or the Federal Government. The resulting region was used to identify areas in the impervious surface that Washington County is responsible to restore as part of the Chesapeake Bay Restoration.

2. Has an Impervious Area Restoration Work Plan been developed and submitted to MDE in accordance with Part V.B, Table 1 of the permit or other format?

☒ Yes ☐ No

Has MDE approved the work plan?

☐ Yes ☒ No

If the answer to either question is No, describe the status of submitting (or resubmitting) the work plan to MDE and provide a date at which all outstanding information will be available:

Work plan is being submitted with the 1st year Annual Report.

Describe progress made toward restoration planning, design, and construction efforts and describe adaptive management strategies necessary to meet restoration requirements by the end of the permit term:

Washington County has completed a Baseline Impervious Area Assessment. Based upon the assessment, a restoration requirement of twenty percent (.20) was calculated.

Washington County will continue to update and refine the Baseline Impervious Assessment during the permit term and will continue to analyze areas where BMPs can be implemented.

3. Has a Restoration Schedule been completed and submitted to MDE in accordance with Part V.B, Table 2 of the permit?

☒ Yes ☐ No

In year 5, has a complete restoration schedule been submitted including a complete list of projects and implementation dates for all BMPs needed to meet the twenty percent restoration requirement?

☐ Yes ☐ No

Are the projected implementation years for completion of all BMPs no later than 2025?

☒ Yes ☐ No

Describe actions planned to provide a complete list of projects in order to achieve compliance by the end of the permit term:

Section I: Impervious Area Restoration Reporting

Washington County has submitted a restoration schedule based on completed and proposed projects within the County. A review will be conducted to determine if any SWM BMPs are providing partial water quality treatment to reduce the baseline acre total. The County will continue to analyze areas for restoration and will update the Restoration Schedule accordingly.

Describe the progress of restoration efforts (attach examples and photos of proposed or completed projects when available):

Attached to this annual report are photos of various completed projects.

4. Has the BMP database been submitted to MDE in Microsoft Excel format in accordance with Appendix B, Tables B.1.a, b, and c?

☒ Yes ☐ No

Is the database complete?

☐ Yes ☒ No

If either answer is No, describe efforts underway to complete all data fields, and a date that MDE will receive the required information:

The database is included with this submission. Only those BMPs that are considered in Normal Operating Condition and have had passing Triennial Inspections (when needed) are included. Washington County intends to continue to update the database to insure all necessary fields are complete. The database validation will be conducted via research of archived drainage studies and site plans or when plans are unavailable, the County will complete drainage calculations and inspections for the BMPs as needed.

5. Provide a summary of impervious area restoration activities planned for the next reporting cycle (attach additional information if necessary):

Washington County will continue to work with the Division of Engineering to analyze areas within the County to plan and develop restoration activities as part of the Capital Improvement Program.

The County is also developing a Septic Outreach Program to educate the public on proper maintenance of septic systems within Washington County.

Washington County will continue to partner with other agencies to continue Tree Plantings in the County.

Section I: Impervious Area Restoration Reporting

6. Describe coordination efforts with other agencies regarding the implementation of impervious area restoration activities:

Washington County has worked with the Towns of Boonsboro, Smithsburg, and Williamsport to draft a Memorandum of Understanding (MOU) between the County and each of the Towns. It is anticipated that the MOUs will be finalized and signed by November 30, 2019. A draft copy of the MOUs is included with this annual submission and a copy of the fully executed MOUs will be provided to MDE once completed.

Washington County will also continue its partnership with the Antietam Conococheague Watershed Alliance.

7. List total cost of developing and implementing the impervious area restoration program during the permit term:

Estimate cost is approximately 17 million dollars based off previous project costs and proposed estimated amounts. Available moneys will ultimately be determined by Washington County's Operating and CIP budgets and are subject to approval by the Washington County Board of County Commissioners. Some efforts and costs are born by developers and outside agencies and there for not easily obtainable. Washington County will revise the cost of developing and implementing the program as necessary as information becomes available.

Washington County, Maryland
Impervious Restoration Work Plan
Reporting Year: October 31, 2018 to June 30, 2019
Submitted: October 31, 2019

Timeline	Management Strategies and Goals
Year 1 - 2019	<ul style="list-style-type: none"> • Develop impervious area baseline assessment. • Develop restoration work plan for MDE review and approval. • Develop process by which the public can report water quality complaints that must include a phone number. • Develop an IDDE Ordinance for approval by the Board of County Commissioners. • Assess opportunities to develop partnerships with other NPDES permittees. • Develop Memorandum of Understanding (MOU) with Towns of Boonsboro, Smithburg, and Williamsport, Maryland.
Year 2	<ul style="list-style-type: none"> • Obtain approval from the Board of County Commissioners for the IDDE Ordinance. • Complete/Implement MOUs with Towns of Boonsboro, Smithburg, and Williamsport, Maryland. • Develop and submit an IDDE SOP to MDE for review and approval. • Update and submit Urban BMP database and documented maintenance and inspection status for all BMPs. Maintain inspection records for all BMPs. • Perform watershed assessment for Conococheague Creek Watershed and identify water quality problems and opportunities for restoration. • Develop list of specific projects to be implemented for restoration and identify on the Restoration Activity Schedule (Table 2). • Evaluate and refine budget needs for project implementation.
Year 3	<ul style="list-style-type: none"> • Update and submit project implementation status in Table 2. • Update and submit Urban BMP database and documented maintenance and inspection status for all BMPs. • Continue to identify opportunities for water quality improvement projects and collaborative partnerships to meet restoration requirements.
Year 4	<ul style="list-style-type: none"> • Update and submit project implementation status in Table 2. • Update and submit Urban BMP database and documented maintenance and inspection status for all BMPs. • Perform watershed assessment for Marsh Run Watershed and identify water quality problems and opportunities for restoration.
Year 5	<ul style="list-style-type: none"> • Update and submit project implementation status in Table 2. • Provide complete list of specific projects needed to meet the twenty percent restoration requirement in Table 2 and include the projected implementation year (no later than 2025).

Phase II MS4 Restoration Activity Schedule									
Total Acreage (4353); Impervious Acre Baseline (3718); 20% Restoration Target (743.6 acres)									
Project_Name	Type of Restoration Project	BMP Code ¹	BMP ID (Optional)	Cost ²	Imperv Acres Treated	Imperv Acre Target and Balance	Project Status ³	Year Complete or Projected Implementation Year (by 2025)	MD Grid Coordinates (Northing/Easting)
						743.60			
Lanes Run Culvert	Outfall Stabilization	OUT	WA06BMP000663	1,500	0.60	743.00	C	2006	222011.92 314623.569
Nick Road Culvert	Outfall Stabilization	OUT	WA06BMP000664	1,500	0.60	742.40	C	2006	193760.24 338058.112
Toms Road Culvert	Outfall Stabilization	OUT	WA06BMP000665	3,000	1.20	741.20	C	2006	209450.61 342764.981
E. Russel Hicks Middle School	Planting Trees on Pervious Urban	FPU	WA07BMP000720	3,680	0.46	740.74	C	2007	216623 337208.3
E. Russel Hicks Middle School	Planting Trees on Pervious Urban	FPU	WA07BMP000721	1,589	0.20	740.54	C	2007	216869.64 337249.547
E. Russel Hicks Middle School	Planting Trees on Pervious Urban	FPU	WA07BMP000722	2,855	0.36	740.19	C	2007	216303.48 337183.567
West Stone Estates 2	Planting Trees on Pervious Urban	FPU	WA08BMP000842	1,067	0.13	740.05	C	2008	199503.17 342939.033
10412 Sharpsburg Pike	Septic Connections to WWTP	SEPC	WA09BMP000910	7,900	0.39	739.66	C	2009	214834.57 337294.77
Lehmans Mill Road	Stream Restoration	STRE	WA09BMP000911	182,000	12.00	727.66	C	2009	224732.65 345115.023
Crystall Falls Drive 07-09	Outfall Stabilization	OUT	WA09BMP000912	1,500	0.60	727.06	C	2009	217037.77 349474.883
Crystal Fall Drive 07-08	Outfall Stabilization	OUT	WA09BMP000913	1,500	0.60	726.46	C	2009	217360.85 349561.394
Crystal Fall Drive 18-05	Outfall Stabilization	OUT	WA09BMP000914	3,000	1.20	725.26	C	2009	216249.56 349034.2
Burnside Bridge Road	Stream Restoration	STRE	WA10BMP000953	221,000	13.50	711.76	C	2010	198124.68 337303.038
Western Heights Tree Planting	Planting Trees on Pervious Urban	FPU	WA10BMP000954	1,178	0.15	711.62	C	2010	221346.11 337322.963
Devils Backbone Park	Stream Restoration	STRE	WA11BMP001009	210,000	12.00	699.62	C	2011	208150.97 338793.332
Ernstville Road 15-05	Outfall Stabilization	OUT	WA11BMP001010	1,875	0.75	698.87	C	2011	218401.48 312025.101
Gilardi Road Culvert 06-08	Outfall Stabilization	OUT	WA11BMP001011	5,250	2.10	696.77	C	2011	205460.1 345792.315
Maugansville Road Culvert	Outfall Stabilization	OUT	WA11BMP001012	1,500	0.60	696.17	C	2011	226156.48 336157.245
Spring Valley Reforestation	Planting Trees on Pervious Urban	FPU	WA11BMP001013	6,860	0.35	695.81	C	2011	225047.45 340527.61
Maugansville Elementary School	Planting Trees on Pervious Urban	FPU	WA11BMP001014	11,108	1.39	694.42	C	2011	224918.68 336609.574
16140 Trickling Spring Lane	Septic Connections to WWTP	SEPC	WA12BMP001178	15,800	0.78	693.64	C	2012	219549.49 330577.44
Rice Road Culvert	Outfall Stabilization	OUT	WA12BMP001179	2,250	0.90	692.74	C	2012	228370.07 290924.953
Resley Road 05-12	Outfall Stabilization	OUT	WA12BMP001180	1,500	0.60	692.14	C	2012	228457.16 291806.553
West Stone Estates 1	Planting Trees on Pervious Urban	FPU	WA12BMP001183	654	0.08	692.06	C	2012	199468.4 342877.217
Washington County Buisness Park Regional Pond	Planting Trees on Pervious Urban	FPU	WA12BMP001184	285	0.04	692.03	C	2012	219516.9 334686.302
Noland Village - W. Oak Ridge Drive. Flood Control	Planting Trees on Pervious Urban	FPU	WA12BMP001185	608	0.08	691.95	C	2012	216934.29 335352.475
Van Lear Sect. 14-17	Planting Trees on Pervious Urban	FPU	WA12BMP001186	316	0.04	691.91	C	2012	215608.51 332398.871
Meadows at St. Paul	Planting Trees on Pervious Urban	FPU	WA12BMP001187	378	0.05	691.86	C	2012	221454.56 323587.061
Austin Hills	Planting Trees on Pervious Urban	FPU	WA12BMP001188	1,033	0.13	691.73	C	2012	222349.97 346032.287
17025 Virginia Avenue	Septic Connections to WWTP	SEPC	WA13BMP001359	7,900	0.39	691.34	C	2013	216417.82 333100.966
6601 Remsburg Road	Septic Connections to WWTP	SEPC	WA13BMP001360	7,900	0.39	690.95	C	2013	203143.5 334481.428
6601 Remsburg Road	Impervious Surface Elimination (to forest)	IMPF	WA13BMP001361	2,000	0.15	690.80	C	2013	203147.21 334484.339
6601 Remsburg Road	Planting Trees on Pervious Urban	FPU	WA13BMP001361	10,600	0.50	690.30	C	2013	203147.21 334484.339
Broadfording Road Culvert Replacement	Outfall Stabilization	OUT	WA13BMP001362	9,750	3.90	686.40	C	2013	224427.56 331501.712
Leitersburg-Smithsburg Culvert 07-04	Outfall Stabilization	OUT	WA13BMP001363	1,875	0.75	685.65	C	2013	221863.46 349983.131
Stevenson Road Culvert 07-18	Outfall Stabilization	OUT	WA13BMP001364	1,875	0.75	684.90	C	2013	221872.11 350040.052
Charles Mill Road Culvert Replacement	Outfall Stabilization	OUT	WA13BMP001365	1,500	0.60	684.30	C	2013	217678.61 319547.668

Phase II MS4 Restoration Activity Schedule

Total Acreage (4353); Impervious Acre Baseline (3718); 20% Restoration Target (743.6 acres)

Project_Name	Type of Restoration Project	BMP Code ¹	BMP ID (Optional)	Cost ²	Imperv Acres Treated	Imperv Acre Target and Balance	Project Status ³	Year Complete or Projected Implementation Year (by 2025)	MD Grid Coordinates (Northing/Easting)	
						743.60				
Maugansville Elementary School Riparian Buffer	Planting Trees on Pervious Urban	FPU	WA13BMP001366	495	0.02	684.28	C	2013	225056.71	336380.263
Williamsport High School	Planting Trees on Pervious Urban	FPU	WA13BMP001367	1,952	0.24	684.04	C	2013	214504.28	330065.825
Fountaindale Elementary Riparian Buffer	Planting Trees on Pervious Urban	FPU	WA13BMP001368	6,916	0.33	683.71	C	2013	222332.9	338423.653
Cross Creek Pond #1	Planting Trees on Pervious Urban	FPU	WA13BMP001369	400	0.05	683.66	C	2013	214945.55	337723.931
Sweetwater Crossing 1	Planting Trees on Pervious Urban	FPU	WA13BMP001370	286	0.04	683.62	C	2013	192175.92	343736.059
Sweetwater Crossing 2	Planting Trees on Pervious Urban	FPU	WA13BMP001371	100	0.01	683.61	C	2013	192179.43	343706.254
11510 Hopewell Road	Septic Connections to WWTP	SEPC	WA14BMP001508	7,900	0.39	683.22	C	2014	218079.86	332340.844
154 North Artizan Street	Septic Connections to WWTP	SEPC	WA14BMP001509	7,900	0.39	682.83	C	2014	215296.24	329710.414
19112 Keep Tryst Road	Septic Connections to WWTP	SEPC	WA14BMP001510	15,800	0.78	682.05	C	2014	184896.84	339513.034
Greensburg Road	Stream Restoration	STRE	WA14BMP001511	150,800	17.25	664.80	C	2014	222471.43	352557.48
Stevenson Road Culbert 07-20	Outfall Stabilization	OUT	WA14BMP001512	750	0.30	664.50	C	2014	221994.64	350490.425
Burnside Bridge Road 01-02	Outfall Stabilization	OUT	WA14BMP001513	3,000	1.20	663.30	C	2014	197746.01	337597.777
Beaver Creek Road 16-01	Outfall Stabilization	OUT	WA14BMP001514	1,875	0.75	662.55	C	2014	214052.07	341851.557
Williamsport High School	Planting Trees on Pervious Urban	FPU	WA14BMP001515	4,094	0.19	662.36	C	2014	214437.01	330312.689
Smithsburg High School Riparian Buffer	Planting Trees on Pervious Urban	FPU	WA14BMP001516	2,620	0.12	662.23	C	2014	221667.95	350835.167
North Village, Section 2 (1)	Planting Trees on Pervious Urban	FPU	WA14BMP001517	253	0.03	662.20	C	2014	224795.95	338515.791
Confederate Hills - J.E.B. Stuart Ct	Planting Trees on Pervious Urban	FPU	WA14BMP001518	183	0.02	662.18	C	2014	198801.45	335149.02
North Village, Section 2 (2)	Planting Trees on Pervious Urban	FPU	WA14BMP001519	223	0.03	662.15	C	2014	224794.62	338556.335
North Village, Section 2 (3)	Planting Trees on Pervious Urban	FPU	WA14BMP001520	116	0.01	662.13	C	2014	224783.78	338572.84
Maple Valley Estates, Section B	Planting Trees on Pervious Urban	FPU	WA14BMP001521	392	0.05	662.09	C	2014	224345.48	339656.809
18206 Oak Ridge Drive	Septic Connections to WWTP	SEPC	WA15BMP001657	47,400	2.34	659.75	C	2015	216084.85	335999.767
Blairs Valley Road	Stream Restoration	STRE	WA15BMP001658	300,000	17.25	642.50	C	2015	224209.03	319572.865
Locust Grove Road 08-03	Outfall Stabilization	OUT	WA15BMP001659	2,250	0.90	641.60	C	2015	196221.75	343221.488
Newcomer Road 14-02	Outfall Stabilization	OUT	WA15BMP001660	1,875	0.75	640.85	C	2015	224442.44	349915.143
Lincolnshire School	Bioretention	FBIO	WA15BMP001661	35,000	0.50	640.35	C	2015	216917.71	334780.455
Springfield Middle School	Planting Trees on Pervious Urban	FPU	WA15BMP001662	6,421	0.31	640.04	C	2015	214343.72	330327.652
Poffenberger Road	Planting Trees on Pervious Urban	FPU	WA15BMP001663	176	0.02	640.02	C	2015	214243.18	339735.365
Poffenberger Road	Planting Trees on Pervious Urban	FPU	WA15BMP001664	140	0.02	640.00	C	2015	214273.81	339777.685
12404 Lager Drive	Septic Connections to WWTP	SEPC	WA16BMP000123	63,200	3.12	636.88	C	2017	220740.21	331273.89
Devils Backbone Park	Stream Restoration	STRE	WA16BMP000124	132,000	42.30	594.58	C	2016	208055.72	338938.392
Mt. Lena Road	Stream Restoration	STRE	WA16BMP000125	50,000	2.25	592.33	C	2016	210173.13	346118.818
Draper Road	Stream Restoration	STRE	WA16BMP000126	100,000	5.25	587.08	C	2016	224117.36	319802.471
Mt. Aetna Road Culvert	Outfall Stabilization	OUT	WA16BMP000127	1,875	0.75	586.33	C	2016	214634.62	348018.258
Resh Road Culvert	Outfall Stabilization	OUT	WA16BMP000128	1,500	0.60	585.73	C	2016	223465.83	330861.036
Central Section Highway	Bioretention	FBIO	WA16BMP000131	22,500	0.23	585.51	C	2017	222074.07	338909.509
Youngstoun Development	Planting Trees on Pervious Urban	FPU	WA16BMP000132	440	0.05	585.45	C	2016	217792.2	342762.152
10218 Sharpsburg Pike	Septic Connections to WWTP	SEPC	WA17BMP000108	7,900	0.39	585.06	C	2017	214390.32	337206.802

Phase II MS4 Restoration Activity Schedule

Total Acreage (4353); Impervious Acre Baseline (3718); 20% Restoration Target (743.6 acres)

Project_Name	Type of Restoration Project	BMP Code ¹	BMP ID (Optional)	Cost ²	Imperv Acres Treated	Imperv Acre Target and Balance	Project Status ³	Year Complete or Projected Implementation Year (by 2025)	MD Grid Coordinates (Northing/Easting)	
						743.60				
Licking Creek Road	Stream Restoration	STRE	WA17BMP000111	50,000	1.80	583.26	C	2017	222098.84	311132.491
McFarland Road	Outfall Stabilization	OUT	WA17BMP000112	5,250	2.10	581.16	C	2017	226579.37	287103.62
Blairs Valley Road Culvert	Outfall Stabilization	OUT	WA17BMP000113	1,875	0.75	580.41	C	2017	224187.79	319842.383
Blairs Valley Road Culvert	Outfall Stabilization	OUT	WA17BMP000114	1,875	0.75	579.66	C	2017	224164.64	319824.623
Trego Mountain Road Culvert	Outfall Stabilization	OUT	WA17BMP000115	1,500	0.60	579.06	C	2017	193821.03	340135.422
Trego Mountain Road Culvert	Outfall Stabilization	OUT	WA17BMP000116	3,750	1.50	577.56	C	2017	194077.2	340405.052
Trego Road	Outfall Stabilization	OUT	WA17BMP000117	1,500	0.60	576.96	C	2017	196005.93	341693.316
Septic Pumping 2019	Septic Pumping	SEPP	WA19BMP000088	303,000	45.50	531.46	C	2019	217208.44	330942.836
Street Sweeper (Annual Average)	Regenerative/Vacuum Street Sweeping	VSS	WA19BMP000104	720,000	84.20	447.26	UC	2025	217214.43	330970.173
Sear's Building Re-use	Impervious Surface Elimination to Pervious	IMPP	WA19BMP000109	10,000	0.29	446.97	UC	2020	217686.32	333721.626
Septic BAT Installs 2008-2011	Septic Denitrification	SEPD	WA19BMP000113	689,000	27.56	419.41	C	2011	217227.44	330948.477
Septic BAT Installs 2012-2018	Septic Denitrification	SEPD	WA19BMP000114	6,450,000	67.08	352.33	C	2018	217227.44	330953.768
Septic BAT Installs 2019 - Present	Septic Denitrification	SEPD	WA19BMP000115	91,000	3.64	348.69	C	2023	217223.81	330952.445
Tammany Lane Rain Garden	Rain Garden	MRNG	WA19BMP000120	29,000	0.59	348.10	C	2019	216037.21	332012.246
Heisterboro Road Dry Wells	Dry Wells	MIDW	WA19BMP000155	3,400	0.06	348.03	C	2019	217433.66	334915.79
Clear Spring High School	Planting Trees on Pervious Urban	FPU	WA19BMP000158	2,038	0.10	347.94	C	2019	221538.11	319356.749
Clear Spring High School	Planting Trees on Pervious Urban	FPU	WA19BMP000159	4,312	0.21	347.73	C	2019	221594.29	319407.921
Fairview Outdoor School	Planting Trees on Pervious Urban	FPU	WA19BMP000160	227	0.01	347.72	C	2019	221967.47	319633.222
Fairview Outdoor School Riparian Buffer Planting	Planting Trees on Pervious Urban	FPU	WA19BMP000161	383	0.02	347.70	C	2019	222048.17	319654.527
Northern Middle School Riparian Buffer Plantings	Planting Trees on Pervious Urban	FPU	WA19BMP000162	1,007	0.05	347.66	C	2019	222187.1	338791.001
Northern Middle School Riparian Buffer Plantings	Planting Trees on Pervious Urban	FPU	WA19BMP000163	639	0.03	347.62	C	2019	222177.57	338774.174
Eastern Elementary Tree Planting	Planting Trees on Pervious Urban	FPU	WA19BMP000164	1,476	0.07	347.55	C	2019	217651.38	340425.215
Smithsburg High School Riparian Buffer Planting	Planting Trees on Pervious Urban	FPU	WA19BMP000165	2,916	0.14	347.42	C	2019	221799.24	350898.458
Mt. Briar Wetlands Riparian Buffer Plantings	Planting Trees on Pervious Urban	FPU	WA19BMP000166	370	0.02	347.40	C	2019	196928.87	341582.709
Mt. Briar Wetlands Riparian Buffer Plantings	Planting Trees on Pervious Urban	FPU	WA19BMP000167	450	0.02	347.38	C	2019	196903.55	341610.326
Septic Pumping 2020	Septic Pumping	SEPP			0.00	347.38	P	2020		
Septic Pumping 2021	Septic Pumping	SEPP			0.00	347.38	P	2021		
Septic Pumping 2022	Septic Pumping	SEPP			45.50	301.88	P	2022		
Septic Pumping 2023	Septic Pumping	SEPP			45.50	256.38	P	2023		
Smithsburg WWTP	Stream Restoration	STRE			27.00	229.38	P	2025		
Beneovola Newcomer	Stream Restoration	STRE			6.00	223.38	P	2025		
Back Road	Stream Restoration	STRE			15.80	207.58	P	2025		
Harpers Ferry Road	Stream Restoration	STRE			4.50	203.08	P	2025		
Wright Road	Stream Restoration	STRE			15.00	188.08	P	2025		
Marty Snook Park	Stream Restoration	STRE			30.00	158.08	P	2025		
Gapland Park	Stream Restoration	STRE			7.50	150.58	P	2025		
Various Projects	Outfall Stabilization	OUT			27.30	123.28	P	2025		

Phase II MS4 Restoration Activity Schedule									
Total Acreage (4353); Impervious Acre Baseline (3718); 20% Restoration Target (743.6 acres)									
Project_Name	Type of Restoration Project	BMP Code ¹	BMP ID (Optional)	Cost ²	Imperv Acres Treated	Imperv Acre Target and Balance	Project Status ³	Year Complete or Projected Implementation Year (by 2025)	MD Grid Coordinates (Northing/Easting)
						743.60			
Colonial Park	Bioretention	FBIO			1.75	121.53	P	2025	
Black Road Park	Bioretention	FBIO			2.00	119.53	P	2025	
Water Quality Parking Lot	Infiltration Trench	ITRN			0.55	118.98	P	2025	
Modifying Various Grass Swales to meet criteria	Grass Swales	MSWG			10.00	108.98	P	2025	
New Grass Swales (Installing to meet criteria)	Grass Swales	MSWG			20.00	88.98	P	2025	
County Park (Hagerstown Doubs Woods)	Planting Trees on Pervious Urban	FPU			0.80	88.18	P	2025	
County Park (Williamsport)	Planting Trees on Pervious Urban	FPU			8.18	80.00	P	2025	
County Park (Williamsport)	Planting Trees on Pervious Urban	FPU			0.57	79.42	P	2025	
County Park (Boonsboro)	Planting Trees on Pervious Urban	FPU			0.57	78.85	P	2025	
County Park (Camp Harding)	Planting Trees on Pervious Urban	FPU			0.60	78.25	P	2025	
County Park	Planting Trees on Pervious Urban	FPU			0.40	77.85	P	2025	
County Park (Halfway)	Planting Trees on Pervious Urban	FPU			2.96	74.89	P	2025	
County Park (Clear Spring)	Planting Trees on Pervious Urban	FPU			0.14	74.75	P	2025	
County Park (Rohrerville)	Planting Trees on Pervious Urban	FPU			1.06	73.68	P	2025	
Lot/Land (Hagerstown)	Planting Trees on Pervious Urban	FPU			0.91	72.77	P	2025	
Lot/Land (Keedysville)	Planting Trees on Pervious Urban	FPU			1.35	71.42	P	2025	
County Park	Planting Trees on Pervious Urban	FPU			1.57	69.84	P	2025	
Underpass Way Ramps	Planting Trees on Pervious Urban	FPU			0.76	69.08	P	2025	
Stormwater Pond Retrofits					30.00	39.08	P	2025	
Stormwater Pond Partial Credit					15.00	24.08	P	2025	
Tree Plantings in CREP (Contract Areas)	Planting Trees on Pervious Urban	FPU			19.00	5.08	P	2025	
Various Connections to WWTP	Septic Connections to WWTP	SEPC			1.95	3.13	P	2025	
Septic BAT Installs	Septic Denitrification	SEPD			10.00	-6.87	P	2025	
				10,088,286.31					