



# FREDERICK COUNTY GOVERNMENT

Jan H. Gardner  
County Executive

**OFFICE OF THE COUNTY EXECUTIVE**  
Office of Sustainability and Environmental Resources

*Raymond V. Barnes Jr., Chief Administrative Officer*  
*Shannon Moore, Manager*

December 21, 2018

Raymond P. Bahr  
Program Review Division Chief  
Sediment, Stormwater, and Dam Safety Program  
Maryland Department of the Environment  
1800 Washington Boulevard  
Baltimore, MD 21230-1708

Dear Ray,

Attached please find a copy of Frederick County's Financial Assurance Plan and Watershed Protection and Restoration Program Annual Report.

A hard copy of the Plan with an electronic version will be hand-delivered to MDE today. An electronic copy of the report is also available for download. A link will be sent to your email.

As was noted in the Executive Summary to the FAP, the impervious cover baseline and restoration requirement have shifted slightly from the preliminary numbers that were in the report approved by the County Council on October 16, 2018. The updated numbers are submitted with the NPDES MS4 Annual Report under separate Cover to comply with MDE, along with an update on watershed restoration activity.

As always, it has been a pleasure to work with the MDE team in the past year, and I again wish you Happy Holidays from our team to yours.

Sincerely,

Shannon Moore  
Manager, Office of Sustainability and Environmental Resources

Attachments:

Financial Assurance Plan  
Watershed Protection and Restoration Program Annual Report

Via electronic and hard copy submission

## ATTACHMENT 1:

### Financial Assurance Plan

- Narrative
- Spreadsheets
- Certification

## FINANCIAL ASSURANCE PLAN AND WPRP ANNUAL REPORT

Frederick County

NPDES MS4 Permit No. 11-DP-3321, MD0068357

December 30, 2014 to December 29, 2019 (Unless Administratively Extended)

Submittal/Report Date: September 21, 2018

### EXECUTIVE SUMMARY

Frederick County Maryland is subject to the terms of the federal Clean Water Act's National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) program. This program requires the County to obtain a permit for stormwater discharges to its MS4. The County is covered under NPDES MS4 Permit No. 11-DP-3321, MD0068357 (Permit) and is classified as a medium jurisdiction by the Maryland Department of the Environment (MDE) due to population. The Permit's effective date was December 30, 2014 and ends December 29, 2019, unless administratively extended. The County was issued its previous permit on March 11, 2002, which was administratively extended by MDE from its initial end date of March 11, 2007 until the new Permit was issued, effective December 30, 2014. The County ended its last Permit cycle in compliance, having provided for the restoration of over 10% (672.5 acres) of the County's untreated urban impervious acres and all of programmatic elements of the Permit. The current permit requires the restoration of 20%, an estimated 1,328 acres, to the Maximum Extent Practicable. The County is on track to meet this goal.

The 1,328 acres of restoration planned in the current Permit include 43 acres of street sweeping; 282 acres of septic pump-outs; 3 acres of septic connections to sewer; 73 acres of septic denitrification; 670 acres of capital projects that include stream restoration, pond retrofits, reforestation, and other practices; 87 acres of noncapital projects such as partner projects and grant-funded projects like forest plantings and stream restoration, and an estimated 170 acre equivalents of nutrient trading credits from the County's wastewater treatment plant (WWTP) at Ballenger-McKinney. 432 acres were restored as of the end of FY'18.

Funding has consistently been budgeted by Frederick County to meet the conditions of the Permit within Maximum Extent Practicable (MEP) limits. Funds for permit compliance projected in the permit period between December 29, 2014 and December 30, 2019 are \$45,463,123. Total funds allocated to the permit beginning March 11, 2007 are \$61,029,853. Costs for the Impervious Surface Restoration Plan starting December 30, 2014 and ending Fiscal Year 2020 are

projected to be \$41,446,953. Impervious Surface Restoration Plan (ISRP) costs dating back to the end of the previous permit cycle on March 11, 2007 add an additional \$12,731,716, for a total of \$54,178,669. Dollar figures include programmed FY'20; future year budgets are subject to approval by the County Executive and County Council. The permit term ends midway through FY'20, and it is uncertain how much of the funds programmed for that year, and how many of the acres planned, can be executed within 6 months. These figures represent 100% of the funding required to implement the Permit to the MEP; furthermore, the County exceeds the 75% minimum compliance benchmark required by law.

Maryland House Bill 987, "Stormwater Management - Watershed Protection and Restoration Program", was passed by the Maryland General Assembly in 2012 and codified into State law. This bill required all counties and municipalities that are subject to a Phase I NPDES MS4 Permit to establish a stormwater remediation fee; develop a Watershed Protection and Restoration Fund; and to submit a biennial report beginning July 1, 2014. Maryland Senate Bill 863, "Watershed Protection and Restoration Programs - Revisions", which was passed in 2015 and codified into State law, amended the Environment Code most notably by (1) removing the requirement to establish a stormwater remediation fee under certain circumstances; (2) modifying the requirement for each jurisdiction to file a Watershed Protection and Restoration Program Report; and (3) adding the requirement to file a Financial Assurance Plan.

As required by the Annotated Code of Maryland ENV §4-202.1, all medium and large NPDES MS4 permit holders are required to prepare a biennial Financial Assurance Plan (FAP) and Watershed Protection and Restoration Program (WPRP) Annual Report to demonstrate the financial wherewithal for meeting MS4 Permit impervious surface area restoration requirements.

The completion and submission of the FAP is required every two years on the anniversary date of the Permit issuance, with the first submittal due on July 1, 2016 and the subsequent submittal due December 29, 2018; all subsequent submissions are due two years from the December date. The plans provide approved MS4 program funding and execution for all Fiscal Years up to 2019, with projections for FY'20, FY'21, FY'22, and FY'23. The second half of FY'15 and the first half of FY'20 are in the current Permit cycle. MDE has allowed jurisdictions to count restoration activities completed after the end of its previous permit towards the current permit.

Both the FAP and WPRP Annual Report will be issued for a 30-day public review. The County Council, as the "local governing body" will hold a public hearing and vote on approval of the FAP.

Frederick County developed a stormwater remediation fee to be fully compliant with HB987. The Board of County Commissioners (BOCC), on May 30, 2013, approved Ordinance 13-06-634 effective July 1, 2013 to create a one cent fee per eligible property to be charged on tax bills issued July 1. The County submitted its first report to MDE by July 1, 2014. Proceeds from the

fee were put into a Watershed Protection and Restoration Fund. The BOCC chose at that time to fund the majority of its compliance program for NPDES MS4 Permit No. 11-DP-3321, MD0068357 through the County General Fund. The Frederick County Council (Frederick County changed to Charter Government on December 1, 2014) has continued to authorize the collection of one cent per eligible property, and is funding the majority of the Permit through General Funds, and to a lesser extent, general government bonds and grants.

All proceeds from the stormwater remediation fee go to the Watershed Protection and Restoration Fund. In the previous fiscal year this amounted to \$511.77. The County has collected \$2,536 in the WPRP to date; discussions that center on the fee as a main source of revenue for permit compliance are a red herring; Frederick County households as of 2020 are spending over \$100 per year through their taxes on the County's stormwater program. This is roughly equivalent to expenditures in other jurisdictions, including Montgomery County.

Funding information comes from past and proposed operating and Capital Improvement Program (CIP) budgets from the Watershed Management Program within OSER and from numbers provided by County Divisions with stormwater management functions; the "Current" (as identified in the FAP spreadsheets) FY18 budgets from the same sources; projections based on the actual FY19 budget for future operating expenses and the programmed Capital Improvement Project budget from the same sources; and revenue from the stormwater remediation fee tracked by the Finance Division. Where cost numbers for past projects are not available, estimates from Brown and Caldwell are used. Their estimates were submitted as part of the County's MEP analysis and are based on the King and Hagen study commissioned by MDE for publicly procured stormwater retrofit projects and modified slightly for the firm's experience with execution of projects in Maryland.

The Permit requires compliance with such tasks as watershed assessments; long-term watershed monitoring; public outreach on mandated topics; activities required by sediment and erosion control delegation for new development; tracking of pesticide, herbicide, and fertilizer use; regulation of the county's sites that are separately permitted under the NPDES Industrial Discharge program for stormwater; illicit discharge detection and elimination; spill response; implementation plans for regulated pollutant limits (known as Total Maximum Daily loads, or TMDLs) on waterbodies; stormwater as-built plan management; inspection of all public and private stormwater facilities on a triennial basis; maintenance of a complex geodatabase with permit compliance data; and restoration and retrofit implementation. In particular, the restoration and retrofit requirement in the Permit includes the requirement to treat 20% of the County's untreated urban impervious surface within the five year term.

MDE requested that the County create a program for homeowner-scale stormwater retrofits, not realizing that this program was already in place. The Neighborhood Green and Expanded Neighborhood Green programs have helped 167 landowners to control stormwater runoff and reduce pollutants from entering our local waterways by installing best management practices that include Rain Barrels, Rain Gardens, Conservation Landscaping, Tree Planting, Nutrient Management, and Downspout Disconnection. Though MDE has suggested we track these retrofits for credit, the amount of credit from these practices is negligible. The credits are difficult to inspect and verify over time; thus, we count these projects towards outreach.

Frederick County submitted an Impervious Surface Area Assessment in accordance with Part IV.E.2.a of its Permit with its first Annual Report submission on December 30, 2015. This Assessment was based on the Permit Area established in Part I.B of the Permit. However, as the County noted in its submittal, it made no representations that 20% of the acreage identified could be restored in the manner provided in Part IV.E.2.a., considering the County's financial capability and the short timeframe specified in Part IV.E.2.a for that magnitude of work, which the County maintains exceeds the legally-authorized "Maximum Extent Practicable" level of effort for the term of the Permit. The County estimated the 20% requirement to be 1,013 acres based on its initial analysis.

MDE provided the County with a review of the County's Impervious Area Assessment on April 15, 2016 that was inconsistent with the County's Permit requirements. The Permit correctly defines the Permit Area: "This permit covers all stormwater discharges from the municipal separate storm sewer system (MS4) owned or operated by Frederick County, Maryland. (Permit, Part I.B). Part IV.E.2 (Restoration Plans) is consistent with this definition. MDE's review was also inconsistent with federal law and its jurisdictional authority; however, Frederick County did not prevail on this issue in Circuit Court. MDE requested that the County redo its baseline numbers using an MDE-approved method that includes the entire jurisdictional boundary. MDE requested that the County submit this analysis with the next Annual Report Submission on December 29, 2018.

In order to present the most accurate FAP and to demonstrate its compliance, Frederick County has redone its analysis using MDE's method. The County obtained a copy of MDE's jurisdictional boundary and impervious cover analysis, and duplicated the methods. It applied updated data where available. Frederick County's case is in the Court of Appeals and its permit has technically been remanded to MDE; however it has updated its impervious cover analysis in good faith:

Table 1: Updated Impervious Cover Baseline

<b>Frederick County Impervious Accounting as of 9/18/2018</b>	
Total Impervious (acres) within MS4 Permit Area	13,687
Treated Impervious (acres)	603
Treated Impervious from MD SHA’s BMPs	26
Rooftop Disconnect (acres)	1129
Non Rooftop Disconnect Estimate (acres)	5,260
Existing Grass Swale – Portion of District 6 (Acres)	27.5
Untreated Baseline (acres)	6641.5
Restoration Goal (acres)	1,328

The 20% restoration goal using MDE’s method is preliminarily established as 1,328 acres and will be submitted with any updates by December 29, 2018. MDE had estimated that the restoration goal would be closer to 2,600 acres. The County was able to reduce this number by obtaining an updated layer of treated acres from SHA; subtracting additional industrial permit holders; updating drainage areas from archived plans on existing development; and using MDE-approved methodologies to assess effectively treated green infrastructure from rooftop and non-rooftop disconnects, as well as grass swale treatment on open section roads. An MS4 cross-jurisdictional drainage comparison was preliminary reviewed but was not included in factoring the above impervious accounting number; this could have a small effect on the baseline submission for the Annual Report, as well as any additional drainage modifications from archival plan sets.

Trading with the Ballenger-McKinney Wastewater Treatment Plant (WWTP) will likely be needed in 2019; under normal circumstances the plant outperforms the 3mg/L standard that MDE has set for performance trades, which is more stringent than the 3.9mg/L set in permits; however, data from the first half of 2018 shows that while the plant is compliant, it may not be able to generate credits.

Table 2: Wastewater Treatment Plant Credits Hypothetically Generated by Year

	<b>TN (lbs)</b>	<b>TP (lbs)</b>	<b>TSS (lbs)**</b>
<b>2016</b>	4,442	1,038	243,291

<b>2017</b>	9,302	1,678	231,177
<b>2018*</b>	-5,351	2,273	159,501

The County, along with other Counties through the Maryland Association of Counties, Metropolitan Washington Council of Governments, and Maryland Municipal Stormwater Association, has repeatedly communicated its concerns with MDE that it is effectively “taking” the 0.9 mg/L of performance beyond permit limits and has set these limits too stringently to consistently provide credits. Should the County be unable to generate credits, it will need to evaluate credits from other sources, ramp-ups to existing programs, or other solutions. MDE’s failure to consider the Maximum Extent Practicable (MEP) in permit issuance has left a most medium and large MS4 jurisdictions exposed to the risk of noncompliance; one is already in a consent decree and has been fined \$300,000. Frederick County has done everything possible to create clear paths to compliance, including working to develop a nutrient and sediment trading program, creating new large-scale restoration delivery programs like the Septic Pump-out Rebate Program and Creek ReLeaf private land reforestation, ramping up its funding through a an initial doubling and then 15% increase per year, increasing internal staffing, and pursuing a legal strategy.

Frederick County reiterated throughout the process leading to the December 30, 2014 reissuance of the MS4 Permit that MDE’s requirements exceed Frederick County's Maximum Extent Practicable (MEP), considering both limited financial capabilities and short timeframes for implementation. MEP is the legal compliance standard for MS4s established by the Clean Water Act.

Frederick County is currently in litigation against MDE at the Maryland Court of Appeals to address a number of issues that include whether the County was properly designated as a medium jurisdiction, whether MDE properly applied the jurisdiction-wide standard to the definition of the MS4 service area versus the federal regulatory definition, and whether MDE is required to adhere to the MEP standard for MS4 permits. Should the county fail in its Court of Appeals suit, the plan outlined in the FAP and WPRP Annual Report is not anticipated to change.

The County expressly reserves the right to make future changes to the WPRP Annual Report and FAP based on new information, or based on funding consistent with an adaptive management approach.

Frederick County has made significant strides to address water quality in the Chesapeake Bay and local County streams. We demonstrate through the NPDES MS4 permitting program and our financial commitment the significant role local governments play in the restoration of our waters.

This FAP should be read in the context of the County's continuing concern that its current Permit demands a level of effort beyond legal requirements. The County expressly reserves its right to a Permit that imposes no more than an MEP level of effort.

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MS4 Information

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Jurisdiction	Frederick County Government
Contact Name	Shannon Moore
Phone	301.600.1413
Address	30 North Market Street
City	Frederick
State	Maryland
Zip	21701
Email	<a href="mailto:smoore@frederickcountymd.gov">smoore@frederickcountymd.gov</a>
Baseline Treatment Requirement (Acres)	1328.00
Permit Num	11-DP-3321 MD0068357
Reporting Year	2018

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**Check with MDE Geodatabase:**

Should match Permit info table of Geodatabase, except for Impervious Acre Baseline-- that should match Impervious Surface Table.

VERSION 2-28-18

**Article 4-202.1(j)(1)(i)1: Actions that will be required of the county or municipality to meet the requirements of its National Pollutant Discharge Elimination System Phase I Municipal Separate Storm Sewer System Permit.**

Note: To identify all "actions" required under the MS4 permit, provide an executive summary of the jurisdiction's MS4 programs. See MDE's FAP Guidance. For proposed actions to meet the impervious surface restoration plan, fill in the table below.

**Baseline:** 1,328

**Requirement:** 20%

REST BMP TYPE*	BMP CLASS	IMP ACRES	IMPL COST	% ISRP COMPLETE	IMPL STATUS**	PROJECTED IMPL YR
<b>Operational Programs</b>						
VSS	A	22.21	\$42,035	1.7%	DESIGN	FY19
VSS	A	22.21	\$43,086	1.7%	DESIGN	FY20
VSS	A	22.21	\$44,379	1.7%	DESIGN	FY21
VSS	A	22.21	\$45,710	1.7%	DESIGN	FY22
VSS	A	22.21	\$47,081	1.7%	DESIGN	FY23
CBC	A	0	\$300,000	0.0%	DESIGN	FY19
CBC	A	0	\$300,000	0.0%	DESIGN	FY20
CBC	A	0	\$300,000	0.0%	DESIGN	FY21
CBC	A	0	\$300,000	0.0%	DESIGN	FY22
CBC	A	0	\$300,000	0.0%	DESIGN	FY23
SEPP	A	20.0	\$50,000	1.5%	DESIGN	FY19
SEPP	A	20.0	\$50,000	1.5%	DESIGN	FY20
SEPP	A	20.0	\$50,000	1.5%	DESIGN	FY21
SEPP	A	20.0	\$50,000	1.5%	DESIGN	FY22
SEPP	A	20.0	\$50,000	1.5%	DESIGN	FY23
Average Operations Next Two Years (FY2019-FY2020)***		62.2	\$785,121	4.7%		
Average Operations Permit Term (FY2015-FY2020)***		87.2	\$2,560,143	4.9%		
Average Operations Permit Term and Projected Years (FY2015-FY2023)***		83.8	\$3,747,313	10.5%		
<b>Capital Projects</b>						
FBIO	A	1.7	\$11,440	0.1%	COMPLETE	FY13
MMBR	A	2.3	\$249,069	0.2%	COMPLETE	FY08

PWET	ST	12.1	\$584,645	0.9%	COMPLETE	FY17
STRE	A	2.5	280000.00	0.2%	FUNDED	FY20
STRE	A	14.5	30000.00	1.1%	DESIGN	FY20
STRE	A	21.0	1586885.00	1.6%	FUNDED	FY21
STRE	A	10.0	865683.59	0.8%	FUNDED	FY22
STRE	A	6.0	459820.00	0.5%	FUNDED	FY23
STRE	A	3.4	269898.00	0.3%	FUNDED	FY20
STRE	A	3.5	30000.00	0.3%	DESIGN	FY20
STRE	A	7.2	30000.00	0.5%	DESIGN	FY20
STRE	A	6.1	406986.00	0.5%	COMPLETE	FY07
STRE	A	7.3	633254.00	0.5%	COMPLETE	FY14
STRE	A	10.0	427657.00	0.8%	COMPLETE	FY10
STRE	A	34.4	4546941.00	2.6%	DESIGN	FY20
FPU	A	4.2	\$41,655	0.3%	PROPOSED	FY20
PWET	ST	1.9	\$160,000	0.1%	FUNDED	FY19
PWED	ST	72.5	\$2,235,000	5.5%	FUNDED	FY19
FPU	A	0.5	\$21,129	0.0%	FUNDED	FY18
FPU	A	4.4	\$21,129	0.3%	FUNDED	FY18
FPU	A	0.6	\$21,129	0.0%	FUNDED	FY18
FPU	A	0.8	\$21,129	0.1%	FUNDED	FY18
FPU	A	0.3	\$12,221	0.0%	FUNDED	FY18
FPU	A	0.1	\$12,221	0.0%	FUNDED	FY18
FPU	A	2.0	\$12,221	0.2%	FUNDED	FY18
FPU	A	5.8	\$230,668	0.4%	FUNDED	FY18
FPU	A	6.6	\$263,315	0.5%	FUNDED	FY18
FPU	A	1.5	\$61,892	0.1%	FUNDED	FY18
FPU	A	3.8	\$61,892	0.3%	FUNDED	FY18
FPU	A	0.8	\$32,172	0.1%	FUNDED	FY18
FPU	A	8.0	\$320,928	0.6%	FUNDED	FY18
FPU	A	10.4	\$416,293	0.8%	FUNDED	FY18
FPU	A	2.9	\$416,293	0.2%	FUNDED	FY18
FPU	A	2.3	\$91,743	0.2%	FUNDED	FY18
FPU	A	1.0	\$40,308	0.1%	FUNDED	FY18
FPU	A	0.6	\$23,927	0.0%	FUNDED	FY18
FPU	A	0.6	\$23,927	0.0%	FUNDED	FY18
FPU	A	1.4	\$55,738	0.1%	FUNDED	FY18

FPU	A	2.1	\$21,464	0.2%	FUNDED	FY18
FPU	A	0.5	\$21,464	0.0%	FUNDED	FY18
FPU	A	0.7	\$21,464	0.1%	FUNDED	FY18
FPU	A	1.8	\$21,464	0.1%	FUNDED	FY18
FPU	A	0.9	\$21,464	0.1%	FUNDED	FY18
FPU	A	4.0	\$39,761	0.3%	FUNDED	FY18
FPU	A	0.1	\$21,464	0.0%	FUNDED	FY18
FPU	A	1.1	\$263,315	0.1%	FUNDED	FY18
FPU	A	8.2	\$61,892	0.6%	FUNDED	FY18
FPU	A	63.5	\$2,278,346	4.8%	FUNDED	FY19
FPU	A	30.0	\$1,139,173	2.3%	PROPOSED	FY20
FBIO	ST	0.2	\$405,717	0.0%	DESIGN	FY19
PWET	ST	5.6	\$377,764	0.4%	DESIGN	FY19
PWET	ST	7.4	\$423,799	0.6%	DESIGN	FY19
PWET	ST	4.7	\$429,880	0.4%	DESIGN	FY19
PWED	ST	11.0	\$1,000,450	0.8%	DESIGN	FY20
PWET	ST	18.7	\$891,292	1.4%	DESIGN	FY19
PWET	ST	20.4	\$1,375,705	1.5%	DESIGN	FY19
PWED	ST	16.8	\$648,151	1.3%	DESIGN	FY20
PWET	ST	20.4	\$1,739,652	1.5%	DESIGN	FY20
PWED	ST	11.1	\$847,110	0.8%	DESIGN	FY20
PWED	ST	11.5	\$159,016	0.9%	DESIGN	FY19
PWED	ST	2.7	\$159,016	0.2%	DESIGN	FY19
PWED	ST	16.2	\$159,016	1.2%	DESIGN	FY19
PWED	ST	2.0	\$159,016	0.1%	DESIGN	FY19
PWED	ST	7.1	\$159,016	0.5%	DESIGN	FY19
PWED	ST	4.7	\$159,016	0.4%	DESIGN	FY19
PWED	ST	5.0	\$159,016	0.4%	DESIGN	FY19
PWED	ST	3.8	\$159,016	0.3%	DESIGN	FY19
PWED	ST	4.5	\$159,016	0.3%	DESIGN	FY19
PWED	ST	6.2	\$159,016	0.5%	DESIGN	FY19
PWED	ST	14.6	\$159,016	1.1%	DESIGN	FY19
PWED	ST	11.5	\$159,016	0.9%	DESIGN	FY19
PWED	ST	21.1	\$159,016	1.6%	DESIGN	FY19
PWED	ST	4.8	\$159,016	0.4%	DESIGN	FY19
FSND	ST	16.0	\$159,016	1.2%	DESIGN	FY19

PWED	ST	4.0	\$295,000	0.3%	DESIGN	FY23
FBIO	ST	5.2	\$263,664	0.4%	PROPOSED	FY23
PWET	ST	20.3	\$732,383	1.5%	PROPOSED	FY23
PWED	ST	28.4	\$863,052	2.1%	PROPOSED	FY23
PWED	ST	17.9	\$663,078	1.3%	PROPOSED	FY23
PWED	ST	10.4	\$379,108	0.8%	PROPOSED	FY23
PWED	ST	17.7	\$695,542	1.3%	PROPOSED	FY23
PWED	ST	19.5	\$713,614	1.5%	FUNDED	FY20
FSND	ST	5.0	\$205,000	0.4%	FUNDED	FY20
FSND	ST	6.6	\$245,568	0.5%	FUNDED	FY20
STRE	A	42.98	\$2,492,983.20	3.2%	PROPOSED	FY22
STRE	A	49.76	\$2,878,358.40	3.7%	PROPOSED	FY22
STRE	A	24.67	\$1,452,242.80	1.9%	PROPOSED	FY22
STRE	A	43.69	\$2,533,339.60	3.3%	PROPOSED	FY23
MSWG	A	9	\$360,000.00	0.7%	PROPOSED	FY20
MSWG	A	18.5	\$497,200.00	1.4%	PROPOSED	FY20
MSWG	A	9.25	\$253,600.00	0.7%	PROPOSED	FY21
PWED	ST	20.0	\$723,761.05	1.5%	PROPOSED	FY21
PWED	ST	25.5	\$919,492.72	1.9%	PROPOSED	FY21
PWED	ST	14.4	\$522,681.51	1.1%	PROPOSED	FY21
PWED	ST	8.0	\$302,849.48	0.6%	PROPOSED	FY21
PWED	ST	11.6	\$435,163.20	0.9%	PROPOSED	FY21
PWED	ST	9.3	\$350,863.60	0.7%	PROPOSED	FY21
PWED	ST	6.5	\$248,238.00	0.5%	PROPOSED	FY21
PWED	ST	7.5	\$286,356.08	0.6%	PROPOSED	FY21
FSND	ST	2.2	\$91,733.96	0.2%	PROPOSED	FY21
PWED	ST	9.1	\$343,533.20	0.7%	PROPOSED	FY21
PWED	ST	24.2	\$896,611.88	1.8%	PROPOSED	FY21
FSND	ST	3.6	\$143,046.76	0.3%	PROPOSED	FY21
FSND	ST	2.1	\$85,869.64	0.2%	PROPOSED	FY21
PWED	ST	10.4	\$391,913.84	0.8%	PROPOSED	FY21
FSND	ST	12.6	\$461,815	0.9%	FUNDED	FY20
Subtotal Capital Next Two Years (FY2019-FY2020)		556.7104691	\$24,048,971	41.9%		
Subtotal Capital Permit Term (FY2015-FY2020)		670.0827705	\$29,016,049	50.5%		

Subtotal Capital Permit Term and Projected Years (FY2015-FY2023)		1135.81277	\$51,172,903	85.5%		
<b>Other</b>						
SEPD	A	47.8	\$2,539,200	3.6%	COMPLETE	FY14
SEPD	A	8.8	\$484,000	0.7%	COMPLETE	FY15
SEPD	A	7.0	\$410,000	0.5%	COMPLETE	FY16
SEPD	A	6.8	\$414,000	0.5%	COMPLETE	FY17
SEPD	A	2.1	\$257,000	0.2%	COMPLETE	FY18
SEPC	A	2.7	\$350,000	0.2%	COMPLETE	FY14
SEPP	A	37.17	\$12,080	2.8%	COMPLETE	FY15
SEPP	A	32.85	\$10,676	2.5%	COMPLETE	FY16
SEPP	A	55.89	\$18,164	4.2%	COMPLETE	FY17
SEPP	A	28.8	\$9,360	2.2%	COMPLETE	FY18
SEPP	A	28.8	\$9,360	2.2%	DESIGN	FY19
SEPP	A	55.5	\$18,038	4.2%	DESIGN	FY20
SEPP	A	28.8	\$9,360	2.2%	COMPLETE	FY21
SEPP	A	28.8	\$9,360	2.2%	DESIGN	FY22
SEPP	A	28.8	\$9,360	2.2%	DESIGN	FY23
FBIO	ST	1.7	\$11,440	0.1%	COMPLETE	FY14
MSWB	ST	3.3	\$176	0.2%	COMPLETE	FY02
FPU	A	1.8	\$60,390	0.1%	COMPLETE	FY11
FPU	A	5.8	\$191,070	0.4%	COMPLETE	FY07
FPU	A	0.4	\$14,520	0.0%	COMPLETE	FY07
FPU	A	3.5	\$115,500	0.3%	COMPLETE	FY11
FPU	A	0.9	\$29,700	0.1%	COMPLETE	FY09
FPU	A	0.3	\$26,070	0.0%	COMPLETE	FY12
FPU	A	0.5	\$27,000	0.0%	COMPLETE	FY10
FPU	A	2.7	\$25,740	0.2%	COMPLETE	FY06
FPU	A	0.8	\$25,740	0.1%	COMPLETE	FY06
FPU	A	0.5	\$15,180	0.0%	COMPLETE	FY09
FPU	A	1.1	\$34,650	0.1%	COMPLETE	FY13
FPU	A	1.2	\$40,260	0.1%	COMPLETE	FY13
FPU	A	0.4	\$13,530	0.0%	COMPLETE	FY10
FPU	A	1.1	\$35,970	0.1%	COMPLETE	FY13
FPU	A	2.6	\$85,140	0.2%	COMPLETE	FY07

FPU	A	0.3	\$9,570	0.0%	COMPLETE	FY07
FPU	A	0.8	\$26,070	0.1%	COMPLETE	FY09
FPU	A	0.1	\$4,290	0.0%	COMPLETE	FY11
FPU	A	0.5	\$16,830	0.0%	COMPLETE	FY06
FPU	A	1.1	\$23,100	0.1%	COMPLETE	FY06
FPU	A	0.5	\$6,600	0.0%	COMPLETE	FY06
FPU	A	1.2	\$40,260	0.1%	COMPLETE	FY14
FPU	A	0.8	\$26,070	0.1%	COMPLETE	FY13
FPU	A	0.4	\$13,200	0.0%	COMPLETE	FY05
FPU	A	0.2	\$1,320	0.0%	COMPLETE	FY14
FPU	A	0.6	\$19,140	0.0%	COMPLETE	FY07
FPU	A	0.3	\$10,560	0.0%	COMPLETE	FY13
FPU	A	3.3	\$75,240	0.2%	COMPLETE	FY11
FPU	A	1.4	\$75,240	0.1%	COMPLETE	FY11
FPU	A	0.3	\$18,787	0.0%	COMPLETE	FY15
FPU	A	9.9	\$326,700	0.7%	COMPLETE	FY18
FPU	A	1.1	\$36,300	0.1%	DESIGN	FY19
STRE	A	11.2	\$504,000	0.8%	COMPLETE	FY13
STRE	A	15.0	\$675,000	1.1%	COMPLETE	FY15
FPU	A	0.1	\$3,300	0.0%	COMPLETE	FY09
FPU	A	0.2	\$6,600	0.0%	COMPLETE	FY11
STRE	A	0.4	\$18,000	0.0%	COMPLETE	FY17
STRE	A	0.7	\$31,500	0.0%	COMPLETE	FY17
STRE	A	0.3	\$13,500	0.0%	COMPLETE	FY17
STRE	A	0.6	\$27,000	0.0%	COMPLETE	FY17
STRE	A	1.4	\$63,000	0.1%	COMPLETE	FY17
STRE	A	0.4	\$18,000	0.0%	COMPLETE	FY17
STRE	A	2.2	\$99,000	0.2%	COMPLETE	FY17
STRE	A	1.5	\$67,500	0.1%	COMPLETE	FY14
OUT	A	0.1	\$4,500	0.0%	COMPLETE	FY17
OUT	A	0.1	\$4,500	0.0%	COMPLETE	FY17
OUT	A	0.1	\$4,500	0.0%	COMPLETE	FY17
OUT	A	0.1	\$4,500	0.0%	COMPLETE	FY17

OUT	A	0.1	\$4,500	0.0%	COMPLETE	FY17
OUT	A	0.1	\$4,500	0.0%	COMPLETE	FY17
OUT	A	0.1	\$4,500	0.0%	COMPLETE	FY17
OUT	A	0.1	\$4,500	0.0%	COMPLETE	FY17
OUT	A	0.1	\$4,500	0.0%	COMPLETE	FY17
OUT	A	0.1	\$4,500	0.0%	COMPLETE	FY17
OUT	A	0.1	\$4,500	0.0%	COMPLETE	FY17
OUT	A	0.1	\$4,500	0.0%	COMPLETE	FY17
OUT	A	0.1	\$4,500	0.0%	COMPLETE	FY17
OUT	A	0.1	\$4,500	0.0%	COMPLETE	FY17
OUT	A	0.1	\$4,500	0.0%	COMPLETE	FY13
OUT	A	0.1	\$4,500	0.0%	COMPLETE	FY13
OUT	A	0.1	\$4,500	0.0%	COMPLETE	FY13
Water Quality Trading	A	169.6	\$0	12.8%	COMPLETE	FY20
Subtotal Other Next Two Years (FY2019-FY2020)		255	\$63,698	19.20%		
Subtotal Other Permit Term (FY2015-FY2020)		571	\$9,241,876	43.0%		
Subtotal Other Permit Term and Projected Years (FY2015-FY2023)		657	\$9,269,956	49.5%		
<b>Total Next Two Years (FY2019-FY2020)</b>		<b>874.0</b>	<b>\$24,897,790</b>	<b>65.8%</b>		
<b>Total Permit Term (FY2015-FY2020)</b>		<b>1328.0</b>	<b>\$40,818,068</b>	<b>98.4%</b>		
<b>Total Permit Term and Projected Years (FY2015-FY2023)</b>		<b>1876.7</b>	<b>\$64,190,172</b>	<b>145.6%</b>		

**Check with MDE Geodatabase:**

Type, class, impervious acres, implementation cost and implementation status should match the various geodatabase tables for BMPs (AltBMPLine, AltBMPPoint, AltBMPPoly,

\*Use BMP domains from MDE Geodatabase.

\*\*Complete, Under Construction, Planning, or Proposed

\*\*\*IMPL COST is a summation and not an average.

Article 4-202.1(j)(1)(i)2: Projected annual and 5-year costs for the county or municipality to meet the impervious surface restoration plan requirements of its National Pollutant Discharge Elimination System Phase I Municipal Separate Storm Sewer System Permit.

DESCRIPTION	PAST UP THRU FY 2017	CURRENT YEAR FY 2018	PROJECTED YEAR 1 FY 2019	PROJECTED YEAR 2 FY 2020	PROJECTED YEAR 3 FY 2021	PROJECTED YEAR 4 FY 2022	PROJECTED YEAR 5 FY 2023	TOTAL COSTS
<b>Operating Expenditures (costs)</b>								
Street Sweeping Program	\$301,888	\$23,591	\$42,035	\$43,086	\$44,379	\$45,710	\$47,081	\$410,600
Inlet Cleaning	\$1,531,806	\$216,649	\$300,000	\$300,000	\$300,000	\$300,000	\$300,000	\$2,348,455
Support of Capital Projects <sup>1</sup>	\$1,143,283	\$604,302	\$572,551	\$572,551	\$368,278	\$379,326	\$390,706	\$2,892,687
Debt Service Payment	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Other (please stipulate program expenditure)*								\$0
<b>Capital Expenditures (costs)</b>								
General Fund (Paygo) <sup>2</sup>	\$18,950,351	\$7,911,951	\$6,642,272	\$9,634,730	\$9,811,593	\$8,862,719	\$7,633,913	\$43,139,304
WPR Fund (Paygo)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Debt Service <sup>3</sup>	\$19,414	\$59,620	\$262,974	\$263,043	\$263,054	\$262,985	\$263,047	\$605,051
Grants & Partnerships <sup>4</sup>	\$3,433,200	\$424,700	\$1,366,845	\$130,000	\$130,000	\$130,000	\$130,000	\$5,354,745
Other (please stipulate capital expenditure)*	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Subtotal operation and paygo:	\$21,927,328	\$8,756,493	\$7,556,858	\$10,550,367	\$10,524,249	\$9,587,755	\$8,371,700	\$48,791,046
<b>Total expenditures:</b>	<b>\$25,379,942</b>	<b>\$9,240,813</b>	<b>\$9,186,677</b>	<b>\$10,943,410</b>	<b>\$10,917,303</b>	<b>\$9,980,740</b>	<b>\$8,764,746</b>	<b>\$54,750,842</b>

Total ISRP costs except debt service: \$54,750,842

Compare ISRP costs (except debt service) / total ISRP proposed actions<sup>5</sup>: 85%

<sup>1</sup>Support of Capital Project equals Assessments + CIP operating budget impacts

<sup>2</sup>General Fund Paygo - FY19 to FY23 estimates are from proposed FY'19 CIP submission, not yet approved by County Council

<sup>3</sup>Estimates provided by Finance Division

<sup>4</sup>Other Septic Denitrification from BRF Grant goes to Canaan Valley Institute. Grants for BRF est at \$130K beginning FY'20 due to diminishing fund

<sup>5</sup>The "Compare ISRP costs" number can not be 100% for the following reasons: the ISRP Cost 4-202.1(j)(1)(i)2 spreadsheet Operating Support of Capital Projects like watershed assessments and O&M and the All Actions 4-202.1(j)(i)1 spreadsheet does not. The CIP costs in the All Actions spreadsheet are grouped by completion year where the ISRP Cost spreadsheet shows costs by year. The CIP budgets are in multiyear phases where the ISRP Cost and Spec Actions tabs roll up all costs into one year.

**Check with MDE Geodatabase:**

The total current FY 2018 expenditure should be less than the combined total of the "OP\_cost" and "CAP\_Cost" fields in the fiscal analyses table of the geodatabase.

The total projected FY 2019 expenditure should be less than the combined total of the "OP\_budget" and "CAP\_budget" fields in the fiscal analyses table of the geodatabase.

\*Insert additional rows as necessary.

**Article 4-202.1(j)(1)(i)3: Projected annual and 5-year revenues or other funds that will be used to meet the cost for the county or municipality to meet the impervious surface restoration plan requirements under the National Pollutant Discharge Elimination System Phase I Municipal Separate Storm Sewer System Permit.**

DESCRIPTION	PAST UP THRU FY 2017	CURRENT YEAR FY 2018	PROJECTED YEAR 1 FY 2019	PROJECTED YEAR 2 FY 2020*	PROJECTED YEAR 3 FY 2021	PROJECTED YEAR 4 FY 2022	PROJECTED YEAR 5 FY 2023	TOTAL NEXT 2-YEARS FY 19-20*	TOTAL
Annual Revenue** Appropriated for ISRP	\$25,379,942	\$9,240,813	\$9,186,677	\$10,943,410	\$10,917,303	\$9,980,740	\$8,764,746	\$20,130,086	\$84,413,631
Annual Costs towards ISRP***	\$25,379,942	\$9,240,813	\$9,186,677	\$10,943,410	\$10,917,303	\$9,980,740	\$8,764,746	\$20,130,086	\$84,413,631

Compare revenue appropriated / annual costs: **100%**  
WPRP 2018 Reporting Criteria **100%**

\*CIP and Operating budget beyond FY'2019 subject to future year approvals by County Council  
ISRP = Impervious Surface Restoration Program, or 20% Restoration Requirement

\* Article 4-202.1(j)(2): Demonstration that county or municipality has sufficient funding in the current fiscal year and subsequent fiscal year budgets to meet its estimated cost for the 2-year period immediately following the filing date of the FAP. Note that the appropriations and expenditures include time period up to FY 2020.

\*\* Revenue means "dedicated revenues, funds, or sources of funds (per Article 4-202.1(j)(4)(ii)). Note that budget appropriations have only been approved by governing bodies through FY 2019 at the time of FAP reporting.

\*\*\* See table of ISRP Cost.

**Article 4-202.1(j)(1)(i)4: Any sources of funds that will be utilized by the county or municipality to meet the requirements of its National Pollutant Discharge Elimination System Phase I Municipal Separate Storm Sewer System Permit.**

<b>SOURCE</b>	<b>PAST UP THRU FY 2017</b>	<b>CURRENT YEAR FY 2018</b>	<b>PROJECTED YEAR 1 FY 2019</b>	<b>PROJECTED YEAR 2 FY 2020</b>	<b>PROJECTED YEAR 3 FY 2021</b>	<b>PROJECTED YEAR 4 FY 2022</b>	<b>PROJECTED YEAR 5 FY 2023</b>	<b>TOTAL PERMIT CYCLE</b>
<b>Paygo Sources</b>								
Stormwater Remediation Fees (WPR Fund)	\$ 2,025	\$ 512	\$ 512	\$ 512	\$ 512	\$ 512	\$ 512	\$ 3,560
Miscellaneous Fees (WPR Fund)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Fund CIP	\$ 18,524,765	\$ 5,621,571	\$ 7,120,246	\$ 10,112,773	\$ 10,074,647	\$ 9,125,704	\$ 7,896,960	\$ 41,379,355
Other Funds 1 General Fund Operating**	\$ 7,852,760	\$ 1,232,353	\$ 1,513,641	\$ 1,549,840	\$ 1,551,133	\$ 1,552,464	\$ 1,553,835	\$ 12,148,594
Other Funds 2								\$ -
Other Funds 3 (please stipulate funding source)	\$ -							\$ -
Subtotal Paygo Sources	\$ 26,379,550	\$ 6,854,436	\$ 8,634,398	\$ 11,663,125	\$ 11,626,292	\$ 10,678,680	\$ 9,451,307	\$ 53,531,509
<b>Debt Service (paygo sources will be used to pay off debt service. Note that previous appropriations for debt service used for ISRP is listed in FY 2017).</b>								
County Transportation Bonds	\$ -							\$ -
General Obligation Bonds	\$ 850,000	\$ 2,850,000						\$ 3,700,000
Revenue (Utility) Bonds	\$ -							\$ -
State Revolving Loan Fund	\$ -							\$ -
Public-private partnership (debt service)	\$ -							\$ -
Subtotal Debt Service	\$ 850,000	\$ 2,850,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,700,000
<b>Grants and Partnerships (no payment is expected)</b>								
State funded grants	\$ 3,433,200	\$ 424,700	\$ 1,366,845	\$ 130,000	\$ 130,000	\$ 130,000	\$ 130,000	\$ 5,354,745
Federal funded grants	\$ -							\$ -
Public-private partnership (matched grant)	\$ -							\$ -
Subtotal Grants and Partnerships	\$ 3,433,200	\$ 424,700	\$ 1,366,845	\$ 130,000	\$ 130,000	\$ 130,000	\$ 130,000	\$ 5,354,745
<b>Total Annual Sources of Funds</b>	<b>\$ 30,662,750</b>	<b>\$ 10,129,136</b>	<b>\$ 10,001,243</b>	<b>\$ 11,793,125</b>	<b>\$ 11,756,292</b>	<b>\$ 10,808,680</b>	<b>\$ 9,581,307</b>	<b>\$ 62,586,254</b>
<b>Percent of Funds Directed Toward ISRP</b>								

Compare total permit term paygo ISRP costs / subtotal permit term paygo sources: **91%**  
 Compare total permit term ISRP costs / total permit term annual sources of funds:\*\*\* **87%**

\* WPR Fund: Watershed Protection and Restoration Fund.

\*\* Note that this includes all operating expenditures for permit, where previous numbers only include portion of operating associated with CIP. Numbers will not add up.

\*\*\* % funded is the inverse of this number: 114%

**Check with MDE Geodatabase:**

The total sources related to WPR Funds in Current FY 2018 should march the "WPR\_Fund" field of the geodatabase.

**Article 4-202.1(j)(1)(i)5: Specific actions and expenditures that the county or municipality implemented in the previous fiscal years to meet its impervious surface restoration plan requirements under its National Pollutant Discharge Elimination System Phase I Municipal Separate Storm Sewer System Permit.**

Baseline:

1,328

Requirement:

20%

REST BMP ID	REST BMP TYPE	BMP CLASS	NUM BMP	IMP ACRES	BUILT DATE	IMPL COST	% ISRP Complete	IMPL STATUS	GEN COMMENTS
<b>Operational Programs</b>									
Street Sweeping	VSS	A	1	57.86	6/30/2015	\$38,081	4.4%	COMPLETE	FY15
Street Sweeping	VSS	A	1	109.37	6/30/2016	\$42,153	8.2%	COMPLETE	FY16
Street Sweeping	VSS	A	1	28.84	6/30/2017	\$34,956	2.2%	COMPLETE	FY17
Street Sweeping	VSS	A	1	22.21	6/30/2018	\$23,591	1.7%	COMPLETE	FY18
Catch Basin Cleaning	CBC	A	9	0	12/29/2014	\$368,886	0.0%	COMPLETE	FY14
Catch Basin Cleaning	CBC	A	9	0	6/30/2015	\$378,109	0.0%	COMPLETE	FY15
Catch Basin Cleaning	CBC	A	9	0	6/30/2016	\$387,561	0.0%	COMPLETE	FY16
Catch Basin Cleaning	CBC	A	9	0	6/30/2017	\$276,636	0.0%	COMPLETE	FY17
Catch Basin Cleaning	CBC	A	9	0	6/30/2018	\$216,649	0.0%	COMPLETE	FY18
Septic Pumping	SEPP	A	112	3.4	6/30/2018	\$8,400	0.3%	COMPLETE	FY18
Average Operations Complete To Date*			16	26		\$1,775,022	1.7%		
<b>Capital Projects</b>									
OSER - Urbana Community Park - Bioretention	FBIO	A	1	1.7	12/1/2013	\$11,440	0.1%	COMPLETE	FY13
OSER - Urbana High School - Bioretentions & Rain Gardens	MMBR	A	2	2.3	10/1/2007	\$249,069	0.2%	COMPLETE	FY08
FC - Englandtowne SWM - Retrofit	PWET	ST	1	12.1	3/17/2017	\$584,645	0.9%	COMPLETE	FY17
Ballenger Stream Restoration	STRE	A	1	6.1	5/1/2007	\$406,986	0.5%	COMPLETE	FY07
Englandtowne Stream Restoration	STRE	A	1	7.3	12/1/2014	\$633,254	0.5%	COMPLETE	FY14
Pine Cliff Stream Stabilization	STRE	A	1	10.0	11/12/2010	\$427,657	0.8%	COMPLETE	FY10
Creek ReLeaf - Reforestation Program (Site 5, ID-8399)	FPU	A	1	0.5		\$21,129	0.0%	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 5, ID-8399)	FPU	A	1	4.4		\$21,129	0.3%	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 5, ID-8399)	FPU	A	1	0.6		\$21,129	0.0%	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 5, ID-8399)	FPU	A	1	0.8		\$21,129	0.1%	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 7, ID-8411)	FPU	A	1	0.3		\$12,221	0.0%	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 7, ID-8411)	FPU	A	1	0.1		\$12,221	0.0%	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 7, ID-8411)	FPU	A	1	2.0		\$12,221	0.2%	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 9, ID-8445)	FPU	A	1	5.8		\$230,668	0.4%	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 18, ID-8522)	FPU	A	1	6.6		\$263,315	0.5%	FUNDED	FY18

Creek ReLeaf - Reforestation Program (Site 17, ID-8521)	FPU	A	1	1.5		\$61,892	0.1%	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 17, ID-8521)	FPU	A	1	3.8		\$61,892	0.3%	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 1, ID-8255)	FPU	A	1	0.8		\$32,172	0.1%	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 13, ID-8509)	FPU	A	1	8.0		\$320,928	0.6%	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 15, ID-8515)	FPU	A	1	10.4		\$416,293	0.8%	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 15, ID-8515)	FPU	A	1	2.9		\$416,293	0.2%	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 19, ID-8523)	FPU	A	1	2.3		\$91,743	0.2%	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 8, ID-8431)	FPU	A	1	1.0		\$40,308	0.1%	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 6, ID-8405)	FPU	A	1	0.6		\$23,927	0.0%	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 6, ID-8405)	FPU	A	1	0.6		\$23,927	0.0%	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 3, ID-8397)	FPU	A	1	1.4		\$55,738	0.1%	FUNDED	FY18
Catoctin Creek Nature Center	FPU	A	1	2.1		\$21,464	0.2%	FUNDED	FY18
Catoctin Creek Nature Center	FPU	A	1	0.5		\$21,464	0.0%	FUNDED	FY18
Catoctin Creek Nature Center	FPU	A	1	0.7		\$21,464	0.1%	FUNDED	FY18
Catoctin Creek Nature Center	FPU	A	1	1.8		\$21,464	0.1%	FUNDED	FY18
Catoctin Creek Nature Center	FPU	A	1	0.9		\$21,464	0.1%	FUNDED	FY18
Monocacy River Park behind DUSWM	FPU	A	1	4.0		\$39,761	0.3%	FUNDED	FY18
Catoctin Creek Nature Center	FPU	A	1	0.1		\$21,464	0.0%	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 18, ID-8522)	FPU	A	1	1.1		\$263,315	0.1%	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 17, ID-8521)	FPU	A	1	8.2		\$61,892	0.6%	FUNDED	FY18
Subtotal Capital Complete To Date			36	113.3723013		\$4,967,078	8.54%		
<b>Other</b>									
Septic Denitrification (BRF)	SEPD	A	184	47.8	12/29/2014	\$2,539,200	3.6%	COMPLETE	FY14
Septic Denitrification (BRF)	SEPD	A	34	8.8	12/29/2015	\$484,000	0.7%	COMPLETE	FY15
Septic Denitrification (BRF)	SEPD	A	27	7.0	12/29/2016	\$410,000	0.5%	COMPLETE	FY16
Septic Denitrification (BRF)	SEPD	A	26	6.8	12/29/2017	\$414,000	0.5%	COMPLETE	FY17
Septic Denitrification (BRF)	SEPD	A	8	2.1	12/29/2018	\$257,000	0.2%	COMPLETE	FY18
Septic Connections to WWTP	SEPC	A	7	2.7	12/29/2014	\$350,000	0.2%	COMPLETE	FY14
Septic Pumping	SEPP	A	1239	37.17	12/31/2015	\$402,675	2.8%	COMPLETE	FY15
Septic Pumping	SEPP	A	1095	32.85	12/31/2016	\$355,875	2.5%	COMPLETE	FY16
Septic Pumping	SEPP	A	1863	55.89	12/31/2017	\$605,475	4.2%	COMPLETE	FY17
Septic Pumping	SEPP	A	960	28.8	6/30/2018	\$312,000	2.2%	COMPLETE	FY18
OSER - Urbana Community Park - Bioretention	FBIO	ST	1	1.7	12/1/2013	\$11,440	0.1%	COMPLETE	FY14
OSER - Urbana Elementary School - Stormwater Bioswale	MSWB	ST	1	3.3	12/1/2001	\$176	0.2%	COMPLETE	FY02
Old National Pike Park - Riparian Forest Buffer	FPU	A	1	1.8	1/1/2011	\$60,390	0.1%	COMPLETE	FY11

Holly Hills Country Club - Urban Forest Buffer	FPU	A	1	5.8	1/1/2007	\$191,070	0.4%	COMPLETE	FY07
Holly Hills HOA - Urban Forest Buffer	FPU	A	1	0.4	1/1/2007	\$14,520	0.0%	COMPLETE	FY07
Worthington Manor Golf Course - Urban Forest Buffer	FPU	A	1	3.5	1/1/2011	\$115,500	0.3%	COMPLETE	FY11
Urbana Community Park - Riparian Forest Buffers (previously cropped, LU conversion)	FPU	A	1	0.9	1/1/2009	\$29,700	0.1%	COMPLETE	FY09
Pinecliff Park - Riparian Forest Buffer	FPU	A	1	0.3	1/1/2012	\$26,070	0.0%	COMPLETE	FY12
Pinecliff Park - Urban Forest Buffer	FPU	A	1	0.5	1/1/2010	\$27,000	0.0%	COMPLETE	FY10
Libertytown Park - Tree Planting	FPU	A	1	2.7	1/1/2006	\$25,740	0.2%	COMPLETE	FY06
Libertytown Park - Urban Forest Buffer	FPU	A	1	0.8	1/1/2006	\$25,740	0.1%	COMPLETE	FY06
Urbana Middle School - Tree Planting	FPU	A	1	0.5	1/1/2009	\$15,180	0.0%	COMPLETE	FY09
Spring Ridge Elementary School - Tree Planting	FPU	A	1	1.1	1/1/2013	\$34,650	0.1%	COMPLETE	FY13
New Market Middle School - Tree Planting	FPU	A	1	1.2	1/1/2012	\$40,260	0.1%	COMPLETE	FY13
Wolfsville Elementary School - Tree Planting	FPU	A	1	0.4	1/1/2010	\$13,530	0.0%	COMPLETE	FY10
Deer Crossing Elementary School - Tree Planting	FPU	A	1	1.1	1/1/2013	\$35,970	0.1%	COMPLETE	FY13
Fred Archibald Sanctuary - Urban Forest Buffer	FPU	A	1	2.6	1/1/2007	\$85,140	0.2%	COMPLETE	FY07
Utica Park - Urban Forest Buffer	FPU	A	1	0.3	1/1/2007	\$9,570	0.0%	COMPLETE	FY07
Valley Elementary School - Tree Planting	FPU	A	1	0.8	1/1/2009	\$26,070	0.1%	COMPLETE	FY09
Urbana Elementary School - Urban Forest Buffer	FPU	A	1	0.1	1/1/2011	\$4,290	0.0%	COMPLETE	FY11
Cloverhill - Urban Forest Buffer	FPU	A	1	0.5	1/1/2006	\$16,830	0.0%	COMPLETE	FY06
Liberty Village Cohousing Community - Urban Forest Buffer	FPU	A	1	1.1	1/1/2006	\$23,100	0.1%	COMPLETE	FY06
St. Peter the Apostle Roman Catholic Church - Urban Forest Buffer	FPU	A	1	0.5	1/1/2006	\$6,600	0.0%	COMPLETE	FY06
Mountain Village HOA - Urban Forest Buffer	FPU	A	1	1.2	1/1/2014	\$40,260	0.1%	COMPLETE	FY14
Crestwood Middle School - Urban Forest Buffer	FPU	A	1	0.8	1/1/2013	\$26,070	0.1%	COMPLETE	FY13
Cooperative Extension Building - Tree Planting	FPU	A	1	0.4	1/1/2005	\$13,200	0.0%	COMPLETE	FY05
Monocacy Elementary School - Urban Forest Buffer	FPU	A	1	0.2	1/1/2014	\$1,320	0.0%	COMPLETE	FY14
Ballenger Creek Elementary School - Urban Forest Buffer	FPU	A	1	0.6	1/1/2007	\$19,140	0.0%	COMPLETE	FY07
Orchard Grove Elementary School - Tree Planting	FPU	A	1	0.3	1/1/2013	\$10,560	0.0%	COMPLETE	FY13
Windsor Knolls Middle School - Urban Forest Buffer	FPU	A	1	3.3	1/1/2011	\$75,240	0.2%	COMPLETE	FY11
Windsor Knolls Middle School - Tree Planting	FPU	A	1	1.4	1/1/2011	\$75,240	0.1%	COMPLETE	FY11
Englandtowne Retrofit Project Tree Planting	FPU	A	1	0.3	12/1/2014	\$18,787	0.0%	COMPLETE	FY15
Waterside Tree Planting	FPU	A	1	9.9	5/1/2018	\$326,700	0.7%	COMPLETE	FY18
Trout Unlimited Stream Restoration	STRE	A	1	11.2	9/1/2013	\$504,000	0.8%	COMPLETE	FY13
Little Tuscarora Creek	STRE	A	1	15.0	9/30/2015	\$675,000	1.1%	COMPLETE	FY15
Urbana High School - Tree Planting	FPU	A	1	0.1	1/1/2009	\$3,300	0.0%	COMPLETE	FY09
Kemptown Elementary School - Urban Forest Buffer	FPU	A	1	0.2	1/1/2011	\$6,600	0.0%	COMPLETE	FY11
Bethel Road Site 1 Stream Stabilization	STRE	A	1	0.4	8/24/2017	\$18,000	0.0%	COMPLETE	FY17

Bill Moxley Road Site 9	STRE	A	1	0.7	8/28/2017	\$31,500	0.0%	COMPLETE	FY17
Bill Moxley Road Site Culvert	STRE	A	1	0.3	8/5/2017	\$13,500	0.0%	COMPLETE	FY17
Black Ankle Road	STRE	A	1	0.6	6/13/2017	\$27,000	0.0%	COMPLETE	FY17
Black Ankel Road Site 2 Culvert	STRE	A	1	1.4	6/12/2017	\$63,000	0.1%	COMPLETE	FY17
Catholic Church Road	STRE	A	1	0.4	6/28/2017	\$18,000	0.0%	COMPLETE	FY17
Jesse Smith Road	STRE	A	1	2.2	6/20/2017	\$99,000	0.2%	COMPLETE	FY17
Yeagertown Road	STRE	A	1	1.5	6/16/2014	\$67,500	0.1%	COMPLETE	FY14
Apples Church Road	OUT	A	1	0.1	7/19/2017	\$4,500	0.0%	COMPLETE	FY17
Bartonsville Road 21x15 Culvert Replacement 201760659_17NT3103 Site 1	OUT	A	1	0.1	8/1/2017	\$4,500	0.0%	COMPLETE	FY17
Bartonsville Road 21x15 Culvert Replacement 201760659_17NT3103 Site 2	OUT	A	1	0.1	8/1/2017	\$4,500	0.0%	COMPLETE	FY17
Bartonsville Road 21x15 Culvert Replacement 201760660_17NT3104	OUT	A	1	0.1	7/31/2017	\$4,500	0.0%	COMPLETE	FY17
Bartonsville Road at Reichs Ford Road Intersection	OUT	A	1	0.1	8/21/2017	\$4,500	0.0%	COMPLETE	FY17
Bill Moxley Road Site 1 Culvert	OUT	A	1	0.1	8/9/2017	\$4,500	0.0%	COMPLETE	FY17
Bill Moxley Road Site 10 & 11	OUT	A	1	0.1	8/16/2017	\$4,500	0.0%	COMPLETE	FY17
Camelot Court	OUT	A	1	0.1	8/6/2017	\$4,500	0.0%	COMPLETE	FY17
Frederick Highway Operations Moxley Site 2	OUT	A	1	0.1	8/10/2017	\$4,500	0.0%	COMPLETE	FY17
Garfield Road Site 1	OUT	A	1	0.1	8/24/2017	\$4,500	0.0%	COMPLETE	FY17
Glade Road Culvert	OUT	A	1	0.1	7/17/2017	\$4,500	0.0%	COMPLETE	FY17
Harp Road Culvert	OUT	A	1	0.1	6/20/2017	\$4,500	0.0%	COMPLETE	FY17
Moser Road Culvert	OUT	A	1	0.1	7/20/2017	\$4,500	0.0%	COMPLETE	FY17
Mt. Zion Road and Jefferson Blvd	OUT	A	1	0.1	6/8/2017	\$4,500	0.0%	COMPLETE	FY17
Reich's Ford Road Site #1	OUT	A	1	0.1	6/10/2013	\$4,500	0.0%	COMPLETE	FY13
Reich's Ford Road Site #2	OUT	A	1	0.1	6/10/2013	\$4,500	0.0%	COMPLETE	FY13
Reich's Ford Road Site #3	OUT	A	1	0.1	6/10/2013	\$4,500	0.0%	COMPLETE	FY13
Subtotal Other Complete To Date			5505	316		\$9,178,178	23.8%		
<b>Total Complete to Date</b>			<b>5,557</b>	<b>454.6</b>		<b>\$15,920,278</b>	<b>34.0%</b>		

**Check with MDE Geodatabase:**

Rest BMP ID, type, class, number of BMPs, impervious acres, built date, implementation cost and implementation status should match the various geodatabase tables for BMPs (AltBMPLine, AltBMPPoint, AltBMPPoly, and RestBMP)--aggregated by type and status.

**Notes:**

For street sweeping indicate the annual frequency that the streets are swept and for inlet cleaning indicate the number of inlets cleaned-out.

\*IMPL COST is a summation and not an average.

Attachment 1

CERTIFICATION

WHEREAS, the provisions of § 4-202.1 of the Environment Article of the Annotated Code of Maryland require Frederick (County/City) to file a financial assurance plan to the Maryland Department of the Environment that demonstrates that it has sufficient funding to meet the impervious surface restoration plan requirements of the (County's/City's) National Pollutant Discharge Elimination System Phase I Municipal Separate Storm Sewer System Permit; and

WHEREAS, the provisions of this law require that "a county or municipality may not file a financial assurance plan under this subsection until the local governing body of the county or municipality: (i) Holds a public hearing on the financial assurance plan; and (ii) Approves the financial assurance plan."

NOW, THEREFORE, I certify that:

1. A public hearing was held on the financial assurance plan on 10/16/18 (Date);
2. The local governing body approves the aforementioned financial assurance plan; and
3. Under penalty of law, the information in this financial assurance plan is, to the best of my knowledge and belief, true, accurate, and complete.

Jan H. Gardner 10-18-18  
 Signature of County Executive/Municipal Mayor or Chief Financial Officer Date

JAN H. GARDNER  
 Printed Name of County Executive/Municipal Mayor or Chief Financial Officer

FREDERICK COUNTY EXECUTIVE  
 Title

*Room  
10/18/18*

## ATTACHMENT 2:

# Watershed Protection and Restoration Plan Annual Report

**Watershed Protection and Restoration Program Annual Report Table**

Article 4-202.1(i)(4): "The percentage and amount of funds in the local watershed protection and restoration fund spent on each of the purposes provided in subsection (h)(4) of this section;"

Program Element	Cost	Percent of WPRF
Capital Improvements for Stormwater Management	\$0.00	0.00%
O & M of SWM Systems and Facilities	\$0.00	0.00%
Public Education and Outreach	\$0.00	0.00%
Stormwater Management Planning (see Md. Environment Code Ann. § 4-202.1(h)(4)(iv))	\$0.00	0.00%
Review of Stormwater Management Plans and Permit Applications for New Development	\$0.00	0.00%
Grants to Nonprofit Organizations	\$0.00	0.00%
Adminstration of WPRF	\$0.00	0.00%
TOTAL	\$0.00	0.00%
Number of Properties Subject to Fee	51,177	
Reporting Year	2018	
Permit Number	11-DP-3321	
Comments:	MD0068357	

Jurisdiction	Agency	Local Ordinance Submitted to MDE	MDE Approval of Fee Reduction Policy	Fee Reduction Amount	Rate Structures								Additional Sources of Funds			Estimated Annual Revenue	
					Annual Single Family Residential Rate	Annual Commercial Rate	Equivalent Residential Unit (ERU) Impervious	Commercial Capped Rates	Non-profits, Religious Organizations	Exemptions	Federal Facilities Status	Federal Facility Fee(s)/Rate(s)	Additional Source 1	Additional Source 2	Additional Source 3		
Frederick County	Office of the County Executive, Sustainability and Environmental Resources	Yes	3/26/2015	30% or 60% for homeowners based on documented practices	\$0.01	\$0.01	NA	NA		NA	NA	Charged	NA	NA	NA	NA	\$511.77

Notes

Directions: Use: Yes or No      Use the approval date or N/A      Reduction amount(s), if any, with reason for reduction(s)      Use: N/A, amount of flat rate, rate amount per ERU, etc.      General description of exemption(s), if any      Use: No Facilities, Exempt, or Charged      Use: N/A or the fee and rate structures for federal facilities

Notes:  
 ERU = Equivalent residential unit  
 VERSION 2-28-18

**Article 4-202.1(i)(3): "The amount of money deposited into the watershed protection and restoration fund in the previous fiscal year by source;"**

Source		Amount
Annual Single Family Residential Fees Collected	\$	461.09
Annual Commercial Fees Collected	\$	48.11
Non-profits, Religious Orgs Fees Collected	\$	2.57
Unnamed Additional Source 1		
	\$	511.77

VERSION 2-28-18

**All SWM Projects Implemented in Previous FY for the 20% Restoration Requirement**

REST BMP ID	REST BMP TYPE	BMP CLASS	NUM BMP	IMP ACRES	BUILT DATE	IMPL COST	IMPL STATUS	IMPL COMP YR
Street Sweeping	VSS	A	1	0	12/29/2014	\$184,764	COMPLETE	FY14
Street Sweeping	VSS	A	1	0	6/30/2015	\$38,081	COMPLETE	FY15
Street Sweeping	VSS	A	1	0	6/30/2016	\$42,153	COMPLETE	FY16
Street Sweeping	VSS	A	1	0	6/30/2017	\$34,956	COMPLETE	FY17
Street Sweeping	VSS	A	1	22.21	6/30/2018	\$23,591	COMPLETE	FY18 - Frederick County March 2012 Street Sweeping Methodology
Catch Basin Cleaning	CBC	A	9	0	12/29/2014	\$368,886	COMPLETE	FY14
Catch Basin Cleaning	CBC	A	9	0	6/30/2015	\$378,109	COMPLETE	FY15
Catch Basin Cleaning	CBC	A	9	0	6/30/2016	\$387,561	COMPLETE	FY16
Catch Basin Cleaning	CBC	A	9	0	6/30/2017	\$276,636	COMPLETE	FY17
Catch Basin Cleaning	CBC	A	9	0	6/30/2018	\$216,649	COMPLETE	FY18
Septic Pumping	SEPP	A	112	3.4	6/30/2018	\$8,400	COMPLETE	FY18
OSER - Urbana Community Park - Bioretention	FBIO	A	1	1.7	12/1/2013	\$11,440	COMPLETE	FY13
OSER - Urbana High School - Bioretentions & Rain Gardens	MMBR	A	2	2.3	10/1/2007	\$249,069	COMPLETE	FY08
FC - Englandtowne SWM - Retrofit	PWET	ST	1	12.1	3/17/2017	\$584,645	COMPLETE	FY17
Ballenger Stream Restoration	STRE	A	1	6.1	5/1/2007	\$406,986	COMPLETE	FY07
Englandtowne Stream Restoration	STRE	A	1	7.3	12/1/2014	\$633,254	COMPLETE	FY14
Pine Cliff Stream Stabilization	STRE	A	1	10.0	11/12/2010	\$427,657	COMPLETE	FY10
Creek ReLeaf - Reforestation Program (Site 5, ID-8399)	FPU	A	1	0.5		\$21,129	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 5, ID-8399)	FPU	A	1	4.4		\$21,129	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 5, ID-8399)	FPU	A	1	0.6		\$21,129	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 5, ID-8399)	FPU	A	1	0.8		\$21,129	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 7, ID-8411)	FPU	A	1	0.3		\$12,221	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 7, ID-8411)	FPU	A	1	0.1		\$12,221	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 7, ID-8411)	FPU	A	1	2.0		\$12,221	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 9, ID-8445)	FPU	A	1	5.8		\$230,668	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 18, ID-8522)	FPU	A	1	6.6		\$263,315	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 17, ID-8521)	FPU	A	1	1.5		\$61,892	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 17, ID-8521)	FPU	A	1	3.8		\$61,892	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 1, ID-8255)	FPU	A	1	0.8		\$32,172	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 13, ID-8509)	FPU	A	1	8.0		\$320,928	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 15, ID-8515)	FPU	A	1	10.4		\$416,293	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 15, ID-8515)	FPU	A	1	2.9		\$416,293	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 19, ID-8523)	FPU	A	1	2.3		\$91,743	FUNDED	FY18

Creek ReLeaf - Reforestation Program (Site 8, ID-8431)	FPU	A	1	1.0		\$40,308	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 6, ID-8405)	FPU	A	1	0.6		\$23,927	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 6, ID-8405)	FPU	A	1	0.6		\$23,927	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 3, ID-8397)	FPU	A	1	1.4		\$55,738	FUNDED	FY18
Catoctin Creek Nature Center	FPU	A	1	2.1		\$21,464	FUNDED	FY18
Catoctin Creek Nature Center	FPU	A	1	0.5		\$21,464	FUNDED	FY18
Catoctin Creek Nature Center	FPU	A	1	0.7		\$21,464	FUNDED	FY18
Catoctin Creek Nature Center	FPU	A	1	1.8		\$21,464	FUNDED	FY18
Catoctin Creek Nature Center	FPU	A	1	0.9		\$21,464	FUNDED	FY18
Monocacy River Park behind DUSWM	FPU	A	1	4.0		\$39,761	FUNDED	FY18
Catoctin Creek Nature Center	FPU	A	1	0.1		\$21,464	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 18, ID-8522)	FPU	A	1	1.1		\$263,315	FUNDED	FY18
Creek ReLeaf - Reforestation Program (Site 17, ID-8521)	FPU	A	1	8.2		\$61,892	FUNDED	FY18
Septic Denitrification (BRF)	SEPD	A	184	47.8	12/29/2014	\$2,539,200	COMPLETE	FY14
Septic Denitrification (BRF)	SEPD	A	34	8.8	12/29/2015	\$484,000	COMPLETE	FY15 34 BRF funded
Septic Denitrification (BRF)	SEPD	A	27	7.0	12/29/2016	\$410,000	COMPLETE	FY16 27 BRF Funded
Septic Denitrification (BRF)	SEPD	A	26	6.8	12/29/2017	\$414,000	COMPLETE	FY17 26 BRF funded
Septic Denitrification (BRF)	SEPD	A	8	2.1	12/29/2018	\$257,000	COMPLETE	FY18 8 BRF funded
Septic Connections to WWTP	SEPC	A	7	2.7	12/29/2014	\$350,000	COMPLETE	FY14
Septic Pumping	SEPP	A	1239	37.17	12/31/2015	\$402,675	COMPLETE	FY15
Septic Pumping	SEPP	A	1095	32.85	12/31/2016	\$355,875	COMPLETE	FY16
Septic Pumping	SEPP	A	1863	55.89	12/31/2017	\$605,475	COMPLETE	FY17
Septic Pumping	SEPP	A	960	28.8	6/30/2018	\$312,000	COMPLETE	FY18
OSER - Urbana Community Park - Bioretention	FBIO	ST	1	1.7	12/1/2013	\$11,440	COMPLETE	FY14
OSER - Urbana Elementary School - Stormwater Bioswale	MSWB	ST	1	3.3	12/1/2001	\$176	COMPLETE	FY02
Old National Pike Park - Riparian Forest Buffer	FPU	A	1	1.8	1/1/2011	\$60,390	COMPLETE	FY11
Holly Hills Country Club - Urban Forest Buffer	FPU	A	1	5.8	1/1/2007	\$191,070	COMPLETE	FY07
Holly Hills HOA - Urban Forest Buffer	FPU	A	1	0.4	1/1/2007	\$14,520	COMPLETE	FY07
Worthington Manor Golf Course - Urban Forest Buffer	FPU	A	1	3.5	1/1/2011	\$115,500	COMPLETE	FY11
Urbana Community Park - Riparian Forest Buffers (previously cropped, LU conversion)	FPU	A	1	0.9	1/1/2009	\$29,700	COMPLETE	FY09
Pinecliff Park - Riparian Forest Buffer	FPU	A	1	0.3	1/1/2012	\$26,070	COMPLETE	FY12
Pinecliff Park - Urban Forest Buffer	FPU	A	1	0.5	1/1/2010	\$27,000	COMPLETE	FY10
Libertytown Park - Tree Planting	FPU	A	1	2.7	1/1/2006	\$25,740	COMPLETE	FY06
Libertytown Park - Urban Forest Buffer	FPU	A	1	0.8	1/1/2006	\$25,740	COMPLETE	FY06
Urbana Middle School - Tree Planting	FPU	A	1	0.5	1/1/2009	\$15,180	COMPLETE	FY09
Spring Ridge Elementary School - Tree Planting	FPU	A	1	1.1	1/1/2013	\$34,650	COMPLETE	FY13
New Market Middle School - Tree Planting	FPU	A	1	1.2	1/1/2012	\$40,260	COMPLETE	FY13
Wolfsville Elementary School - Tree Planting	FPU	A	1	0.4	1/1/2010	\$13,530	COMPLETE	FY10
Deer Crossing Elementary School - Tree Planting	FPU	A	1	1.1	1/1/2013	\$35,970	COMPLETE	FY13
Fred Archibald Sanctuary - Urban Forest Buffer	FPU	A	1	2.6	1/1/2007	\$85,140	COMPLETE	FY07

Utica Park - Urban Forest Buffer	FPU	A	1	0.3	1/1/2007	\$9,570	COMPLETE	FY07
Valley Elementary School - Tree Planting	FPU	A	1	0.8	1/1/2009	\$26,070	COMPLETE	FY09
Urbana Elementary School - Urban Forest Buffer	FPU	A	1	0.1	1/1/2011	\$4,290	COMPLETE	FY11
Cloverhill - Urban Forest Buffer	FPU	A	1	0.5	1/1/2006	\$16,830	COMPLETE	FY06
Liberty Village Cohousing Community - Urban Forest Buffer	FPU	A	1	1.1	1/1/2006	\$23,100	COMPLETE	FY06
St. Peter the Apostle Roman Catholic Church - Urban Forest Buffer	FPU	A	1	0.5	1/1/2006	\$6,600	COMPLETE	FY06
Mountain Village HOA - Urban Forest Buffer	FPU	A	1	1.2	1/1/2014	\$40,260	COMPLETE	FY14
Crestwood Middle School - Urban Forest Buffer	FPU	A	1	0.8	1/1/2013	\$26,070	COMPLETE	FY13
Cooperative Extension Building - Tree Planting	FPU	A	1	0.4	1/1/2005	\$13,200	COMPLETE	FY05
Monocacy Elementary School - Urban Forest Buffer	FPU	A	1	0.2	1/1/2014	\$1,320	COMPLETE	FY14
Ballenger Creek Elementary School - Urban Forest Buffer	FPU	A	1	0.6	1/1/2007	\$19,140	COMPLETE	FY07
Orchard Grove Elementary School - Tree Planting	FPU	A	1	0.3	1/1/2013	\$10,560	COMPLETE	FY13
Windsor Knolls Middle School - Urban Forest Buffer	FPU	A	1	3.3	1/1/2011	\$75,240	COMPLETE	FY11
Windsor Knolls Middle School - Tree Planting	FPU	A	1	1.4	1/1/2011	\$75,240	COMPLETE	FY11
Englandtowne Retrofit Project Tree Planting	FPU	A	1	0.3	12/1/2014	\$18,787	COMPLETE	FY15
Waterside Tree Planting	FPU	A	1	9.9	5/1/2018	\$326,700	COMPLETE	FY18 - 26 Acres Planted
Trout Unlimited Stream Restoration	STRE	A	1	11.2	9/1/2013	\$504,000	COMPLETE	FY13
Little Tuscarora Creek	STRE	A	1	15.0	9/30/2015	\$675,000	COMPLETE	FY15
Urbana High School - Tree Planting	FPU	A	1	0.1	1/1/2009	\$3,300	COMPLETE	FY09
Kempton Elementary School - Urban Forest Buffer	FPU	A	1	0.2	1/1/2011	\$6,600	COMPLETE	FY11
Bethel Road Site 1 Stream Stabilization	STRE	A	1	0	8/24/2017	\$18,000	COMPLETE	FY17
Bill Moxley Road Site 9	STRE	A	1	1	8/28/2017	\$31,500	COMPLETE	FY17
Bill Moxley Road Site Culvert	STRE	A	1	0	8/5/2017	\$13,500	COMPLETE	FY17
Black Ankle Road	STRE	A	1	1	6/13/2017	\$27,000	COMPLETE	FY17
Black Ankel Road Site 2 Culvert	STRE	A	1	1	6/12/2017	\$63,000	COMPLETE	FY17
Catholic Church Road	STRE	A	1	0	6/28/2017	\$18,000	COMPLETE	FY17
Jesse Smith Road	STRE	A	1	2	6/20/2017	\$99,000	COMPLETE	FY17
Yeagertown Road	STRE	A	1	1	6/16/2014	\$67,500	COMPLETE	FY14
Apples Church Road	OUT	A	1	0.1	7/19/2017	\$4,500	COMPLETE	FY17
Bartonsville Road 21x15 Culvert Replacement 201760659_17NT3103 Site 1	OUT	A	1	0.1	8/1/2017	\$4,500	COMPLETE	FY17
Bartonsville Road 21x15 Culvert Replacement 201760659_17NT3103 Site 2	OUT	A	1	0.1	8/1/2017	\$4,500	COMPLETE	FY17
Bartonsville Road 21x15 Culvert Replacement 201760660_17NT3104	OUT	A	1	0.1	7/31/2017	\$4,500	COMPLETE	FY17
Bartonsville Road at Reichs Ford Road Intersection	OUT	A	1	0.1	8/21/2017	\$4,500	COMPLETE	FY17
Bill Moxley Road Site 1 Culvert	OUT	A	1	0.1	8/9/2017	\$4,500	COMPLETE	FY17
Bill Moxley Road Site 10 & 11	OUT	A	1	0.1	8/16/2017	\$4,500	COMPLETE	FY17
Camelot Court	OUT	A	1	0.1	8/6/2017	\$4,500	COMPLETE	FY17
Frederick Highway Operations Moxley Site 2	OUT	A	1	0.1	8/10/2017	\$4,500	COMPLETE	FY17
Garfield Road Site 1	OUT	A	1	0.1	8/24/2017	\$4,500	COMPLETE	FY17
Glade Road Culvert	OUT	A	1	0.1	7/17/2017	\$4,500	COMPLETE	FY17
Harp Road Culvert	OUT	A	1	0.1	6/20/2017	\$4,500	COMPLETE	FY17

Moser Road Culvert	OUT	A	1	0.1	7/20/2017	\$4,500	COMPLETE	FY17
Mt. Zion Road and Jefferson Blvd	OUT	A	1	0.1	6/8/2017	\$4,500	COMPLETE	FY17
Reich's Ford Road Site #1	OUT	A	1	0.1	6/10/2013	\$4,500	COMPLETE	FY13
Reich's Ford Road Site #2	OUT	A	1	0.1	6/10/2013	\$4,500	COMPLETE	FY13
Reich's Ford Road Site #3	OUT	A	1	0.1	6/10/2013	\$4,500	COMPLETE	FY13

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\$16,105,042.00

VERSION 2-28-28