

MEMORANDUM

February 1, 2019

TO: County Council

FROM:  Keith Levchenko, Senior Legislative Analyst

SUBJECT: 2018 National Pollution Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Permit Financial Assurance Plan

PURPOSE: To discuss and act on a resolution approving Montgomery County's NPDES-MS4 Permit 2018 Financial Assurance Plan

Council Staff Recommendation: Approve the 2018 Financial Assurance Plan

Executive Branch Staff Participants Include:

- Amy Stevens, Chief, Watershed Planning and Monitoring, Department of Environmental Protection (DEP)
- Vicky Wan, Manager, Water Quality Protection Charge and Technology Services, DEP

On January 11, 2019, the County Executive transmitted Montgomery County's NPDES-MS4 Permit 2018 Financial Assurance Plan for Council approval (see ©4-22). A draft resolution and certification are attached on ©1-3.

Maryland law (Md. Code Ann., Envir. §4-202.1(j)(4)(ii)) (SB 863, enacted in 2015) requires that Montgomery County transmit a financial assurance plan (FAP) every two years to the Maryland Department of the Environment (MDE) by the anniversary date of the County's NPDES-MS4 permit (by February 15, 2019). The FAP must demonstrate:

- actions required to meet MS4 permit requirements;
- annual and projected 5-year costs to meet the impervious surface restoration plan (ISRP) requirement, more commonly known as the 20% restoration requirement in the County's current permit;

- annual and projected 5-year revenues or other funds that will be used toward meeting the 20% restoration requirement;
- any and all sources of funds used toward meeting MS4 permit requirements; and
- all specific actions and expenditures undertaken in the previous fiscal years to meet the 20% restoration requirement.

The County's most recent NPDES-MS4 permit expired in 2015. A new permit is expected to be issued in Summer 2019. The 20% restoration requirement under the expired permit was accomplished as of December 31, 2018. The Executive notes in his transmittal memorandum that this FAP includes the ongoing operational responsibilities assumed in the expired permit, as well as the assumptions for revenues and expenditures included in the FY19 Operating Budget and FY19-24 Capital Improvements Program.

Public Hearing

A public hearing was held on January 29. There were four speakers. Two of the speakers critiqued how the Water Quality Protection Charge is assessed on certain types of properties and that the County should revise how it calculates impervious surfaces. Another speaker spoke regarding an ongoing court case with the County involving the amount of Water Quality Protection Charge credits for which his property is eligible. The fourth speaker, representing the Audubon Naturalist Society, noted several conditions that the organization feels should be included in the County's next NPDES-MS4 permit. **None of the testimony given identified specific issues with the 2018 Financial Assurance Plan that is before the Council for action.**

Discussion

Major Assumptions in the FAP

- The submission of this FAP to MDE does not affect the County's NPDES-MS4 obligations (either under the prior 2010-2015 permit nor under a future permit expected to be issued during 2019).
- The report is solely intended to show how the County will meet (or in this case has met) its ISRP requirements under its NPDES-MS4 permit.
- The County's 2010 through 2015 permit had an impervious acreage restoration requirement of 3,778 acres. The County met this requirement as of December 31, 2018. The latest FAP draft assumes completion of 3,781.79 acres (see Table 1 on ©11 and Table 5 on ©22).¹

¹ After the FAP's introduction at the Council, DEP made a correction to the FAP on Table 5 (see ©21), reducing the impervious area credit for "New BMPs Treating Existing Impervious Area – 6/30/2018" from 139.8 to 101.03. To offset this reduction, DEP included another recently-completed stormwater management pond upgrade (Quince Orchard Manor – 42.84 acres (completed in late 2018)) (see Table 5 on ©20). Three other projects completed in 2018 were removed from the tables and will be counted instead under the next permit (two projects at Sherwood ES and Quail Valley SW Pond Upgrades).

- The FAP's structure (i.e., the five tables) was designed by MDE to be used by all applicable NPDES-MS4 jurisdictions in Maryland. Because Montgomery County is between permits, the format results in some challenges.
 - For instance, Table 1 (on ©10) assumes a permit period beginning in FY14, while Montgomery County's most recent permit began in 2010 and expired in 2015.
 - Also, Table 3 (on ©13) presents balanced revenue and costs both across the expired permit timeframe (through 2017 and 2018) and with projected ISRP costs for the next permit, fulfilling the requirement of the FAP. However, the costs are understated, since these costs only show ongoing operating program costs resulting from operating programs begun under the old permit, along with ongoing debt service. The revenues would also be substantially higher than shown but are presented in Table 3 to match the costs.
 - The FAP does not include costs incurred to cover ongoing maintenance of completed capital projects.
- The FAP shows both operational programs and capital projects that were implemented to meet the ISRP (see detailed list of projects on Table 5 on ©15-22).²
 - Operational programs include programs such as catch basin cleaning and street sweeping, which must be done on a continuing basis during a permit period to be counted as providing ISRP credits.
 - Capital projects include installation of best management practices such as green streets, stream restoration work, and stormwater management pond upgrades.
 - On Table 5, total costs of \$112,408,436 through the end of FY18 are noted to meet the ISRP of 3,778 acres (see ©22). The costs related to operational programs include contractual costs only. Also, these totals do not include some credit-related costs incurred by other departments and agencies (such as DOT, WSSC, and SHA). DEP expects to have these outside costs under the future permit captured as part of the next FAP in two years.

Council Staff Recommendation

Council Staff recommends approval of the latest draft of the 2018 Financial Assurance Plan.

Attachments

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² A list describing the Best Management Practices (BMPs) abbreviations used in the FAP is attached on ©23.

Resolution No.: _____
Introduced: _____
Adopted: _____

**COUNTY COUNCIL
FOR MONTGOMERY COUNTY, MARYLAND**

By: Council President at the Request of the County Executive

SUBJECT: Financial Assurance Plan to Meet the Requirements of the National Pollution Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Permit

Background

1. The Financial Assurance Plan (FAP) is required by amendments to Section 4-202.1 (*Watershed protection and restoration program*) of the Environmental Article, Annotated Code of Maryland, which were added in 2015 to ensure that each National Pollutant Discharge Elimination System (NPDES) Phase I Municipal Separate Storm Sewer System (MS4) jurisdiction will have adequate funding to meet their Phase I MS4 permit requirement for impervious surfaces restoration.
2. Each NPDES Phase I MS4 jurisdiction must submit to the Maryland Department of the Environment (MDE) an FAP by July 1, 2016, and every two years thereafter on the anniversary date of its MS4 permit, that details the following:
 - a. actions required to meet MS4 permit requirements;
 - b. annual and projected 5-year costs to meet the impervious surface restoration plan (ISRP) requirement, more commonly known as the 20% restoration requirement in the County's current permit;
 - c. annual and projected 5-year revenues or other funds that will be used toward meeting the 20% restoration requirement;
 - d. any and all sources of funds used toward meeting MS4 permit requirements; and
 - e. all specific actions and expenditures undertaken in the previous fiscal years to meet the 20% restoration requirement.
3. The County is required to submit the information for the FAP using a template provided by MDE.
4. The Montgomery County Department of Environmental Protection completed the FAP using the approved FY19 operating budget and the approved and amended FY19-24 CIP budget.

5. MDE will determine whether the FAP demonstrates sufficient funding within 90 days after County filing.
6. The first FAP was filed on June 30, 2016, as required by law, which showed sufficient funding to meet the projected costs of compliance with the impervious surface restoration requirements under the County's 2010 MS4 permit.
7. Subsequent FAPs are filed biennially on February 15, the issuance anniversary of the County's MS4 Permit.
8. This FAP demonstrates sufficient funding and the completion of 100% of the ISRP requirements under the County's 2010 MS4 permit.
9. This FAP demonstrates that the County has dedicated revenues, funds, or sources of funds to continue to meet requirements associated with improving water quality in the County.

Action

The County Council for Montgomery County, Maryland approves the Financial Assurance Plan, which shows the County has met the ISRP requirements under the 2010 MS4 Permit.

This is a correct copy of Council action.

Megan Davey Limarzi, Esq.
Clerk of the Council

Attachment 1


CERTIFICATION

WHEREAS, the provisions of § 4-202.1 of the Environment Article of the Annotated Code of Maryland require Montgomery County 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 xxxx;
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.



Signature of County Executive

1/11/19

Date

Marc Elrich

Printed Name of County Executive



OFFICE OF THE COUNTY EXECUTIVE
ROCKVILLE, MARYLAND 20850

MEMORANDUM

January 11, 2019

Marc Elrich
County Executive

TO: Council President Nancy Navarro
Montgomery County Council

FROM: Marc Elrich, County Executive *ME*

SUBJECT: 2018 National Pollutant Discharge Elimination System Municipal Separate Storm Sewer System Permit Financial Assurance Plan

The purpose of this memorandum is to recommend transmission of Montgomery County's 2018 Financial Assurance Plan (FAP) for County Council approval. This FAP demonstrates that the County had sufficient funding to complete all the impervious surface restoration, as required in the 2010 Maryland Phase I National Pollutant Discharge Elimination System Municipal Separate Storm Sewer System (MS4) Permit. In addition, it demonstrates sufficient funding to meet 100% of the estimated costs of its "impervious surface restoration plan" (ISRP) for the two-year period following the filing of this plan.

In May 2015, revisions to Section 4-202.1 (*Watershed Protection and Restoration Programs*) of the Environment Article, Annotated Code of Maryland, were signed into law. Previously, the law required each National Pollutant Discharge Elimination System (NPDES) Phase I Municipal Separate Storm Sewer System (MS4) Permit jurisdiction to establish a stormwater remediation fee. These revisions removed that requirement (although jurisdictions still have the option of establishing a stormwater remediation fee). However, jurisdictions are still responsible for generating the necessary funds to ensure that all MS4 permit requirements are satisfied.

The 2015 revisions to Section 4-202.1 of the Environment Article require all Phase I MS4 Permit jurisdictions to submit a Financial Assurance Plan demonstrating that the jurisdictions will have adequate funding to meet their permit requirements for impervious surface restoration. Each of those jurisdictions was required to submit its initial FAP to the Maryland Department of the Environment (MDE) by July 1, 2016, and a subsequent FAP every two- years thereafter on the anniversary date of their MS4 permit. Each FAP must detail the following:

Marc Elrich, County Executive
January 11, 2018
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- All actions required to meet MS4 Permit requirements;
- Annual and projected five-year costs necessary to meet the Impervious Surface Restoration Plan (ISRP) requirement, more commonly known as the 20% restoration requirement in current permits;
- Annual and projected five-year revenues that will be used toward meeting the 20% restoration requirement;
- Any and all sources of funds used toward meeting MS4 Permit requirements; and
- All specific actions and expenditures undertaken in the previous fiscal years to meet the 20% restoration requirement.

The County's current permit was issued on February 15, 2010, with a requirement to restore 20 percent of the uncontrolled impervious surfaces in the County's MS4 service area. That requirement has been completed as of December 31, 2018. The County anticipates receiving a new permit in Summer 2019. It is not yet clear what the requirements of the new permit will be. As a result, the 2010 permit was used as the basis for the FAP.

The FAP format is an excel workbook developed by MDE to capture most of the information needed to meet the requirements of the law. The information provided to MDE in the workbooks covers the costs of meeting the impervious surface restoration requirements of the current permit. The costs also cover the ongoing operational responsibilities of the current permit such as street sweeping and inlet cleaning as well as the debt service payments for the 2 water quality protection bonds issued to fund implementation of the ISRP. The Montgomery County Department of Environmental Protection completed the FAP using the approved FY2019 Operating budget and the approved amended FY2019-FY2024 CIP budget. These budgets requested the full amount to carry out the impervious surface restoration requirements of the current permit, as well as the ongoing operational responsibilities.

Environment Article Section 4-202.19j0(3) requires a jurisdiction's local governing body to hold a public hearing and approve the FAP before it can be submitted to MDE. Attached please find the Resolution xx-xxxx to introduce the FAP to Council.

If you have any questions concerning this statutory mandate or require additional information, please contact Patty Bubar, Acting Director of the Department of Environmental Protection, at 240-777-7786.

Attachments: Montgomery County's NPDES MS4 Permit 2018 Financial Assurance Plan
Resolution XX Approval of Montgomery County's 2018 Financial Assurance Plan
Financial Assurance Plan Certification

cc: Andrew Kleine, CAO
Richard Madaleno, Director, OMB
Alex Espinosa, Director, DOF
Marc Hansen, County Attorney
Debbie Spielberg, Special Assistant
Dale Tibbitts, Special Assistant

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**Montgomery County's Fiscal Year 2018
Financial Assurance Plan
February 15, 2019**

Executive Summary

The submission of Montgomery County's Financial Assurance Plan (FAP) to the Maryland Department of the Environment (MDE) fulfills requirements specified in Section 4-202.1 of the Environment Article, Maryland Code. This plan is being filed with MDE in order to document all actions implemented by Montgomery County to comply with its National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Permit (06-DP-3320 MD0068349, effective February 16, 2010), document annual and projected 5 year costs to meet the impervious surface restoration (ISR) requirement, and demonstrate the County's ability to pay for these activities through the Water Quality Protection Charge (WQPC). The FAP addresses the activities completed for FY10 through FY18, and the planned and programmed activities from FY19 through FY23. The costs for completing the ISR requirement for the 2010 permit are included as well as the costs for continuing the operational programs associated with the 2010 permit.

Montgomery County's MS4 permit covers stormwater discharges from the MS4 in the County and requires the implementation of restoration in a watershed, or combination of watersheds, to restore 20% of the impervious surface area that is not restored to the maximum extent practicable (MEP). The County's baseline, which has previously been approved by MDE, identifies 18,889 impervious acres with either no or partial stormwater treatment, requiring the equivalent of 3,778 impervious acres to be restored to meet the 20% criterion.

The completion and submission of the FAP is required every two years with the first submittal made on June 30, 2016 and the second FAP due on or before the anniversary date of the County's MS4 permit (February 16, 2019). According to the requirements for completing the attached FAP, all restoration activities completed by June 30, 2018 are classified as completed activities and their actual costs are reported. These activities include a variety of projects with a variety of funding sources as described below.

- Capital Improvements Program (CIP) projects funded by the WQPC, Other Departmental Funds and the General Fund
- CIP projects funded by General Obligation Bonds, Water Quality Protection Revenue Bonds
- CIP projects partially funded by State and Federal Grants
- Operational programs including street sweeping, inlet cleaning and septic pumping

Other restoration activities include voluntary best management practice (BMP) implementation, tree planting, septic system connections to sanitary sewer, septic system upgrades to

denitrification systems, and redevelopment projects treating existing uncontrolled impervious areas. Funding for voluntary BMP implementation includes WQPC funds made available through the County's Watershed Management Grants and RainScapes programs and earned WQPC credits. Funding for tree planting includes the County's Tree Canopy Conservation Fund, other departmental funds and state grants. Costs for septic system connections to the sanitary sewer system are managed through the Washington Sanitary Sewer Commission (WSSC); County funds are not used for this activity. Septic system upgrades to denitrification systems are funded through Bay Restoration Fund (BRF) grants. BMPs installed to treat existing untreated impervious areas as part of the development and redevelopment processes are paid for by the developer.

The County's MS4 permit was issued on February 16, 2010 with the requirement that the 20% impervious surface restoration (ISR) plan be completed by the end of the permit term (February 15, 2015). When the County's permit expired in 2015, only 1,774 acres had been restored, meaning that the County was out of compliance. The County and MDE signed a consent decree in April 2018 requiring completion of the ISR plan by December 31, 2020, as well as a penalty of \$300,000 that could be put towards implementation of supplemental environmental projects (SEPs) completed no later than December 31, 2020. The County's expired permit remains in effect until a new permit is issued, which MDE has indicated will be in Summer 2019.

The County completed the required SEPs in October 2018 and will complete the 20% ISR plan by December 31, 2018. A major tenet of the FAP is to demonstrate the financial wherewithal for meeting MS4 permit ISR requirements. Because the County will have satisfied its consent decree and completed the 2010 permit's ISR requirements by the end of calendar year 2018, this FAP only includes costs for projects completed through FY19. It does not include costs for any projects that are currently in design or in construction, nor does it project any additional CIP project implementation beyond FY19. Ongoing costs for operational programs (including street sweeping, inlet cleaning and septic pumping) and debt service will continue and are projected beyond FY19.

It is important to note that the FAP, by design, does not capture all of the costs associated with implementation of the County's MS4 program as a whole. The FAP only includes costs related to ISR. There are some projects that treat impervious areas at no cost to the county and inclusion of these projects makes the cost of ISR appear artificially low. In addition, once built, CIP projects must be inspected and maintained to ensure that they continue to provide water quality treatment as designed. These costs are not directly related to ISR and so are not reflected in the FAP.

It is also important to note the following specific differences between Table 2 (projected annual and 5-year costs) and Tables 1 (actions required to meet the permit requirements) and 5 (specific actions and expenditures):

- Tables 1 and 5 include implementation of BMPs that were paid for using Operating funds and are therefore presented under Operational Programs rather than under Capital Projects.

- Some of the line items for Operating programs like RainScapes in Table 2 reflect higher costs than their corresponding line items in Tables 1 and 5. This is because Tables 1 and 5 only provide the rebate amount for each project, whereas Table 2 captures personnel, equipment, and other administrative costs associated with the RainScapes program.
- The Capital Expenditures in Table 2 include planning, personnel and project management costs associated with projects that will be completed to satisfy future permit requirements. These costs are not easily separated from the CIP expenditures and as a result, the Capital Expenditures in Table 2 exceed the total implementation cost of CIP projects in Tables 1 and 5.

MS4 Information	
Jurisdiction	Montgomery County
Contact Name	Amy Stevens
Phone	240-777-7766
Address	255 Rockville Pike, Suite 120
City	Rockville
State	MD
Zip	20850
Email	<u>Amy.Stevens@Montgomerycountymd.gov</u>
Baseline Treatment Requirement (Acres)	3778
Permit Num	06-DP-3320 MD0068349
Reporting Year	FY18

Check with MDE Geodatabase:

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

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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:

3,778

Requirement:

20%

REST BMP TYPE*	BMP CLASS	IMP ACRES	IMPL COST	% ISRP COMPLETE	IMPL STATUS**	PROJECTED IMPL YR
Operational Programs						
CBC	A	58.00	\$ 2,856,455	1.5%	Complete	
CBC	A	58.00	\$ 466,000	1.5%	Projected	FY19
CBC	A	58.00	\$ 466,000	1.5%	Projected	FY20
CBC	A	58.00	\$ 466,000	1.5%	Projected	FY21
CBC	A	58.00	\$ 466,000	1.5%	Projected	FY22
CBC	A	58.00	\$ 466,000	1.5%	Projected	FY23
VSS	A	183.20	\$ 1,550,559	4.8%	Complete	
VSS	A	183.20	\$ 306,507	4.8%	Projected	FY19
VSS	A	183.20	\$ 306,507	4.8%	Projected	FY20
VSS	A	183.20	\$ 306,507	4.8%	Projected	FY21
VSS	A	183.20	\$ 306,507	4.8%	Projected	FY22
VSS	A	183.20	\$ 306,507	4.8%	Projected	FY23
SEPP	A	60.00	\$ -	1.6%	Complete	
SEPP	A	60.00	\$ -	1.6%	Projected	FY19
SEPP	A	60.00	\$ -	1.6%	Projected	FY20
SEPP	A	60.00	\$ -	1.6%	Projected	FY21
SEPP	A	60.00	\$ -	1.6%	Projected	FY22
SEPP	A	60.00	\$ -	1.6%	Projected	FY23
SEPD	A	36.14	\$ -	1.0%	Complete	
SEPC	A	153.66	\$ -	4.1%	Complete	
AGRE	E	0.59	\$ 9,900	0.0%	Complete	
APRP	E	4.40	\$ 226,838	0.1%	Complete	
ESD	E	23.00	\$ -	0.6%	Complete	
FPU	A	87.25	\$ 1,909,353	2.3%	Complete	
IMPP	A	0.85	\$ 32,621	0.0%	Complete	
MIDW	E	1.76	\$ 49,249	0.0%	Complete	
MRNG	E	36.29	\$ 1,235,735	1.0%	Complete	
MRWH	E	17.24	\$ 86,990	0.5%	Complete	
MSWB	E	-	\$ 25,007	0.0%	Complete	
Average Operations Next Two Years (FY2019-FY2020)***		301.20	\$ 1,545,014	8.0%		
Average Operations Permit Term (FY2014-FY2019)****		662.38	\$ 8,755,215	17.5%		
Average Operations Permit Term and Projected Years (FY2014-FY2023)****		662.38	\$ 11,845,243	17.5%		
Capital Projects						
Facility Planning	[blank]	-	\$ 7,149,301	0.0%	Complete	
APRP	E	5.22	\$ 2,097,420	0.1%	Complete	
APRP	E	1.23	\$ 584,192	0.0%	Complete	FY19
FBIO	E	30.82	\$ 6,367,817	0.8%	Complete	
FPU	A	2.99	\$ -	0.1%	Complete	
FSND	S	1.04	\$ 104,021	0.0%	Complete	
FUND	S	0.85	\$ 372,667	0.0%	Complete	
GABION	A	1.75	\$ -	0.0%	Complete	
IMPF	A	0.03	\$ -	0.0%	Complete	
IMPP	A	0.46	\$ -	0.0%	Complete	
ITRN	S	0.58	\$ 187,983	0.0%	Complete	
MMBR	E	28.85	\$ 9,337,448	0.8%	Complete	
MMBR	E	3.05	\$ 2,267,580	0.1%	Complete	FY19
MRNG	E	24.59	\$ 5,274,385	0.7%	Complete	
MRNG	E	-	\$ 193,127	0.0%	Complete	FY19
MSGW	E	1.68	\$ -	0.0%	Complete	

MSWG	E	35.62	\$ 2,849,483	0.9%	Complete	
OTH	E	0.21	\$ 37,565	0.0%	Complete	
OTH	S	-	\$ 750,703	0.0%	Complete	
OUTS	A	3.48	\$ -	0.1%	Complete	
PWED	S	755.52	\$ 21,669,253	20.0%	Complete	
PWED	S	113.64	\$ 4,824,830	3.0%	Complete	FY19
PWET	S	15.89	\$ 1,035,806	0.4%	Complete	
STRE	A	331.50	\$ 13,469,657	8.8%	Complete	
WEDW	S	73.49	\$ -	1.9%	Complete	
WSHW	S	141.37	\$ 784,282	3.7%	Complete	
XDED	S	421.47	\$ 15,365,746	11.2%	Complete	
XDED	S	60.30	\$ 8,642,041	1.6%	Complete	FY19
XOTH	X	130.35	\$ 445,035	3.5%	Complete	
Subtotal Capital Next Two Years (FY2019-FY2020)		178.22	\$ 16,511,770	4.7%		
Subtotal Capital Permit Term (FY2014-FY2019)†		2,185.99	\$ 103,810,341	57.9%		
Subtotal Capital Permit Term and Projected Years (FY2014-FY2023)†		2,185.99	\$ 103,810,341	57.9%		
Other						
REDE		933.43	\$ 615,387	24.7%	Complete	
Subtotal Other Next Two Years (FY2019-FY2020)		-	\$ -	0.0%		
Subtotal Other Permit Term (FY2014-FY2019)†		933.43	\$ 615,387	24.7%		
Subtotal Other Permit Term and Projected Years (FY2014-FY2023)†		933.43	\$ 615,387	24.7%		
Total Next Two Years (FY2019-FY2020)		479.42	\$ 18,056,784	12.7%		
Total Permit Term (FY2014-FY2019)†		3,781.79	\$ 113,180,943	100.1%		
Total Permit Term and Projected Years (FY2014-FY2023)†		3,781.79	\$ 116,270,971	100.1%		

Check with MDE Geodatabase:

Type, class, impervious acres, implementation cost and implementation status should match the various geodatabase tables for BMPs (AltBMPLine, AltBMPPoint, AltBMPPoly, and RestBMP)-- aggregated by type and status.

*Use BMP domains from MDE Geodatabase.

**Complete, Under Construction, Planning, or Proposed

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

†Montgomery County's permit term began in FY2010

VERSION 2-28-18

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
Operating Expenditures (costs)								
Street Sweeping Program	\$ 1,244,052	\$ 306,507	\$ 306,507	\$ 306,507	\$ 306,507	\$ 306,507	\$ 306,507	\$ 3,083,094
Inlet Cleaning	\$ 2,390,455	\$ 466,000	\$ 466,000	\$ 466,000	\$ 466,000	\$ 466,000	\$ 466,000	\$ 5,186,455
Tree Montgomery	\$ 1,009,764	\$ 502,213	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,511,977
Oaks Urban Forest Planting (DNR Grant)	\$ 257,400	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 257,400
Watershed Implementation Grants	\$ 546,201	\$ 62,357	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 608,558
New BMPs Treating Existing Imp Area	\$ 308,077	\$ 307,310	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 615,387
RainScapes Rewards	\$ 2,873,109	\$ 778,540	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,651,649
Debt Service Payment	\$ 18,064,094	\$ 6,100,007	\$ 6,148,600	\$ 6,149,400	\$ 6,152,050	\$ 6,149,100	\$ 6,150,900	\$ 54,914,151
Capital Expenditures (costs)								
G.O Bonds	\$ 1,645,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,645,000
General Fund (Paygo)	\$ 390,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 390,000
Fed Aid	\$ 331,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 331,000
State Aid	\$ 18,087,000	\$ 2,581,000	\$ 485,700	\$ -	\$ -	\$ -	\$ -	\$ 21,153,700
Water Quality Protection Charge (WQPC) CIP (Paygo)	\$ 12,623,000	\$ 4,220,000	\$ 4,119,979	\$ -	\$ -	\$ -	\$ -	\$ 20,962,979
WQPC Bonds	\$ 58,231,000	\$ 10,871,000	\$ 2,700,000	\$ -	\$ -	\$ -	\$ -	\$ 71,802,000
Stormwater Management Waiver Fee (Paygo)	\$ 1,530,000	\$ 591,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,121,000
Contributions (Paygo)	\$ -	\$ 844,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 844,000
MDE Loans	\$ -	\$ -	\$ 2,322,870	\$ -	\$ -	\$ -	\$ -	\$ 2,322,870
Subtotal operation and paygo:	\$ 41,236,152	\$ 14,177,934	\$ 11,041,086	\$ 6,921,907	\$ 6,924,557	\$ 6,921,607	\$ 6,923,407	\$ 94,146,650
Total expenditures:	\$ 119,530,152	\$ 27,629,934	\$ 16,549,656	\$ 6,921,907	\$ 6,924,557	\$ 6,921,607	\$ 6,923,407	\$ 191,401,220

Total ISRP costs except debt service: \$ 136,487,069
 Compare ISRP costs (except debt service) / total ISRP proposed actions: 117%

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.

†Montgomery County's permit term began in FY2010

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 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	\$ 119,530,152	\$ 27,629,934	\$ 16,608,107	\$ 6,921,907	\$ 6,924,557	\$ 6,921,607	\$ 6,923,407	\$ 23,530,014	\$ 191,459,671
Annual Costs towards ISRP***	\$ 119,530,152	\$ 27,629,934	\$ 16,549,656	\$ 6,921,907	\$ 6,924,557	\$ 6,921,607	\$ 6,923,407	\$ 23,471,563	\$ 191,401,220

Compare revenue appropriated / annual costs: 100%
WPRP 2016 Reporting Criteria 100%

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 2018 at the time of FAP reporting.

*** See table of ISRP Cost.

†Montgomery County's permit term began in FY2010

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.

SOURCE	PAST UP THRU 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 PERMIT CYCLE
Paygo Sources								
Water Quality Protection Charge	\$ 180,277,310	\$ 37,897,874	\$ 37,415,935	\$ 37,378,058	\$ 39,245,668	\$ 41,222,796	\$ 43,840,160	\$ 255,591,119
Investment Income	\$ 336,091	\$ 444,772	\$ 333,980	\$ 432,210	\$ 530,440	\$ 589,380	\$ 589,380	\$ 1,114,843
Miscellaneous	\$ 28,127	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 28,127
BMP Monitoring Fee	\$ 1,083,175	\$ 11,754	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 50,000	\$ 1,144,929
Bag Tax Revenue	\$ 13,232,650	\$ 2,574,126	\$ 2,471,921	\$ 2,471,921	\$ 2,471,921	\$ 2,471,921	\$ 2,471,921	\$ 18,278,697
Tree Canopy Fees	\$ 1,900,024	\$ 819,250	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,719,274
General Fund (DEP)	\$ 390,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 390,000
Other Departmental Funds (DOT,DPS,DGS)	\$ 30,299,856	\$ 4,141,748	\$ 4,141,748	\$ 4,141,748	\$ 4,141,748	\$ 4,141,748	\$ 4,141,748	\$ 38,583,352
Stormwater Management Waiver Fees	\$ 1,530,000	\$ 591,000	\$ 295,000	\$ -	\$ -	\$ -	\$ -	\$ 2,416,000
Solid Waste Fund	\$ 49,294,953	\$ 6,088,475	\$ 6,088,475	\$ 6,088,475	\$ 6,088,475	\$ 6,088,475	\$ 6,088,475	\$ 61,471,903
Subtotal Paygo Sources	\$ 278,372,186	\$ 52,568,999	\$ 50,797,059	\$ 50,562,412	\$ 52,528,252	\$ 54,564,320	\$ 57,181,684	\$ 381,738,244
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).								
General Obligation Bonds	\$ 1,645,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,645,000
Water Quality Protection Revenue Bonds	\$ 60,643,000	\$ 12,807,000	\$ 3,569,641	\$ -	\$ -	\$ -	\$ -	\$ 77,019,641
State Revolving Loan Fund	\$ -	\$ -	\$ 2,322,870	\$ -	\$ -	\$ -	\$ -	\$ 2,322,870
Subtotal Debt Service	\$ 62,288,000	\$ 12,807,000	\$ 5,892,511	\$ -	\$ -	\$ -	\$ -	\$ 80,987,511
Grants and Partnerships (no payment is expected)								
State funded grants	\$ 18,238,492	\$ 2,581,000	\$ 485,700	\$ -	\$ -	\$ -	\$ -	\$ 21,305,192
Federal funded grants	\$ 331,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 331,000
Public-private partnership (matched grant)	\$ -	\$ 844,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 844,000
Subtotal Grants and Partnerships	\$ 18,569,492	\$ 3,425,000	\$ 485,700	\$ -	\$ -	\$ -	\$ -	\$ 22,480,192
Total Annual Sources of Funds	\$ 359,229,678	\$ 68,800,999	\$ 57,175,270	\$ 50,562,412	\$ 52,528,252	\$ 54,564,320	\$ 57,181,684	\$ 485,205,947
Percent of Funds Directed Toward ISRP								

Compare total permit term paygo ISRP costs / subtotal permit term paygo sources: 17%
 Compare total permit term ISRP costs / total permit term annual sources of funds: 34%

* WPR Fund: Watershed Protection and Restoration Fund.

Check with MDE Geodatabase:

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

†Montgomery County's permit term began in FY2010

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:

3,778

Requirement:

20%

REST BMP ID	REST BMP TYPE	BMP CLASS	NUM BMP	IMP ACRES	BUILT DATE	IMPL COST	% ISRP Complete	IMPL STATUS	GEN COMMENTS
Operational Programs									
Catch Basin Cleaning	CBC	A	1	58.00	6/30/2018	\$ 2,856,455	1.54%	COMPLETE	
Street Sweeping	VSS	A	1	183.20	6/30/2018	\$ 1,550,559	4.85%	COMPLETE	
Septic Pumping	SEPP	A	2,000	60.00	6/30/2018	\$ -	1.59%	COMPLETE	
Septic Denitrification	SEPD	A	139	36.14	6/30/2018	\$ -	0.96%	COMPLETE	
WWTP Connections	SEPC	A	394	153.66	6/30/2018	\$ -	4.07%	COMPLETE	
Watershed Implementation Grants	MRNG	E	6	0.79	6/30/2017	\$ 190,371	0.02%	COMPLETE	
Watershed Implementation Grants	MRNG	E	23	4.43	6/30/2018	\$ 274,178	0.12%	COMPLETE	
Watershed Implementation Grants	MRWH	E	9	0.13	6/30/2017	\$ 38,352	0.00%	COMPLETE	
Watershed Implementation Grants	FPU	A	432	1.44	6/30/2017	\$ 57,482	0.04%	COMPLETE	
Watershed Implementation Grants	IMPP	A	1	0.03	6/30/2017	\$ 15,560	0.00%	COMPLETE	
Watershed Implementation Grants	APRP	E	1	0.00	6/30/2018	\$ 47,500	0.00%	COMPLETE	
Watershed Implementation Grants	MIDW	E	13	0.31	6/30/2018	\$ 36,015	0.01%	COMPLETE	
Watershed Implementation Grants	MSWB	E	3	0.00	6/30/2018	\$ 25,007	0.00%	COMPLETE	
Voluntary BMP Earned WQPC Credit	ESD	E	63	23.00	6/30/2016	\$ -	0.61%	COMPLETE	
Street Trees	FPU	A	422	1.41	6/30/2011	\$ -	0.04%	COMPLETE	
Street Trees	FPU	A	437	1.46	6/30/2012	\$ -	0.04%	COMPLETE	
Street Trees	FPU	A	863	2.88	6/30/2013	\$ -	0.08%	COMPLETE	
Street Trees	FPU	A	848	2.83	6/30/2014	\$ -	0.07%	COMPLETE	
Street Trees	FPU	A	1,029	3.43	6/30/2015	\$ -	0.09%	COMPLETE	
Street Trees	FPU	A	1,652	5.51	6/30/2016	\$ -	0.15%	COMPLETE	
Street Trees	FPU	A	1,761	5.87	6/30/2017	\$ -	0.16%	COMPLETE	
Street Trees	FPU	A	1,719	5.73	6/30/2018	\$ -	0.15%	COMPLETE	
RainScapes Program	FPU	A	426	1.42	6/30/2017	\$ 82,495	0.04%	COMPLETE	
Tree Montgomery	FPU	A	47	0.16	6/30/2015	\$ 71,606	0.00%	COMPLETE	
Tree Montgomery	FPU	A	456	1.52	6/30/2016	\$ 391,944	0.04%	COMPLETE	
Tree Montgomery	FPU	A	746	2.49	6/30/2017	\$ 546,214	0.07%	COMPLETE	
Tree Montgomery	FPU	A	814	2.71	6/30/2018	\$ 502,213	0.07%	COMPLETE	
Oaks Landfill Urban Forest Planting	FPU	A	2	45.40	6/30/2018	\$ 257,400	1.20%	COMPLETE	
Middle Gum Springs Reforestation	FPU	A	1	0.74	6/30/2010	\$ -	0.02%	COMPLETE	
Northwest Branch Stream Reforestation	FPU	A	1	0.84	6/30/2010	\$ -	0.02%	COMPLETE	
Alta Vista Stream Reforestation	FPU	A	1	0.03	6/30/2010	\$ -	0.00%	COMPLETE	
Little Falls III Stream Reforestation	FPU	A	1	0.06	6/30/2010	\$ -	0.00%	COMPLETE	
Turkey Branch Stormwater Pond and Stream Reforestation	FPU	A	1	0.60	6/30/2010	\$ -	0.02%	COMPLETE	
Stream Valley Drive Stream Reforestation	FPU	A	1	0.71	6/30/2010	\$ -	0.02%	COMPLETE	
RainScapes Program	MRWH	E	5	0.10	6/30/2010	\$ 1,139	0.00%	COMPLETE	
RainScapes Program	MRNG	E	52	2.57	6/30/2010	\$ 48,855	0.07%	COMPLETE	
RainScapes Program	MIDW	E	5	0.11	6/30/2010	\$ 900	0.00%	COMPLETE	
RainScapes Program	APRP	E	1	0.05	6/30/2010	\$ 4,800	0.00%	COMPLETE	
RainScapes Program	MRWH	E	190	4.71	6/30/2010	\$ 12,230	0.12%	COMPLETE	
RainScapes Program	MRWH	E	4	0.28	6/30/2011	\$ 1,743	0.01%	COMPLETE	
RainScapes Program	MRNG	E	55	2.32	6/30/2011	\$ 49,677	0.06%	COMPLETE	
RainScapes Program	MIDW	E	1	0.01	6/30/2011	\$ -	0.00%	COMPLETE	

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RainScapes Program	APRP	E	10	0.49	6/30/2011	\$ 7,200	0.01%	COMPLETE	
RainScapes Program	MRWH	E	169	4.67	6/30/2011	\$ 7,991	0.12%	COMPLETE	
RainScapes Program	AGRE	E	1	0.06	6/30/2011	\$ 2,400	0.00%	COMPLETE	
RainScapes Program	IMPP	E	1	0.06	6/30/2011	\$ -	0.00%	COMPLETE	
RainScapes Program	MRWH	E	3	0.12	6/30/2012	\$ 1,275	0.00%	COMPLETE	
RainScapes Program	MRNG	E	21	1.07	6/30/2012	\$ 45,663	0.03%	COMPLETE	
RainScapes Program	MIDW	E	3	0.17	6/30/2012	\$ 1,750	0.00%	COMPLETE	
RainScapes Program	APRP	E	4	0.23	6/30/2012	\$ 4,800	0.01%	COMPLETE	
RainScapes Program	MRWH	E	71	1.35	6/30/2012	\$ 3,182	0.04%	COMPLETE	
RainScapes Program	AGRE	E	1	0.07	6/30/2012	\$ -	0.00%	COMPLETE	
RainScapes Program	IMPP	E	1	0.04	6/30/2012	\$ 1,125	0.00%	COMPLETE	
RainScapes Program	MRWH	E	2	0.04	6/30/2013	\$ 450	0.00%	COMPLETE	
RainScapes Program	MRNG	E	79	3.56	6/30/2013	\$ 93,675	0.09%	COMPLETE	
RainScapes Program	MIDW	E	2	0.30	6/30/2013	\$ 690	0.01%	COMPLETE	
RainScapes Program	APRP	E	6	0.17	6/30/2013	\$ 9,800	0.00%	COMPLETE	
RainScapes Program	MRWH	E	71	0.96	6/30/2013	\$ 3,520	0.03%	COMPLETE	
RainScapes Program	MRWH	E	2	0.11	6/30/2014	\$ 650	0.00%	COMPLETE	
RainScapes Program	MRNG	E	60	5.12	6/30/2014	\$ 68,432	0.14%	COMPLETE	
RainScapes Program	MIDW	E	5	0.14	6/30/2014	\$ 2,014	0.00%	COMPLETE	
RainScapes Program	APRP	E	14	0.76	6/30/2014	\$ 29,000	0.02%	COMPLETE	
RainScapes Program	MRWH	E	39	0.47	6/30/2014	\$ 1,945	0.01%	COMPLETE	
RainScapes Program	IMPP	E	2	0.10	6/30/2014	\$ 3,856	0.00%	COMPLETE	
RainScapes Program	MRWH	E	6	0.04	6/30/2015	\$ 1,000	0.00%	COMPLETE	
RainScapes Program	MRNG	E	85	3.49	6/30/2015	\$ 134,321	0.09%	COMPLETE	
RainScapes Program	MIDW	E	11	0.30	6/30/2015	\$ 4,424	0.01%	COMPLETE	
RainScapes Program	APRP	E	19	0.77	6/30/2015	\$ 51,880	0.02%	COMPLETE	
RainScapes Program	MRWH	E	40	0.64	6/30/2015	\$ 2,697	0.02%	COMPLETE	
RainScapes Program	APRP	E	4	0.14	6/30/2015	\$ 2,738	0.00%	COMPLETE	
RainScapes Program	MRWH	E	7	0.42	6/30/2016	\$ 1,000	0.01%	COMPLETE	
RainScapes Program	MRNG	E	87	7.39	6/30/2016	\$ 150,862	0.20%	COMPLETE	
RainScapes Program	MIDW	E	13	0.42	6/30/2016	\$ 3,456	0.01%	COMPLETE	
RainScapes Program	APRP	E	12	0.57	6/30/2016	\$ 24,944	0.02%	COMPLETE	
RainScapes Program	MRWH	E	54	0.86	6/30/2016	\$ 2,165	0.02%	COMPLETE	
RainScapes Program	MRWH	E	6	0.18	6/30/2017	\$ 1,810	0.00%	COMPLETE	
RainScapes Program	MRNG	E	54	2.31	6/30/2017	\$ 126,776	0.06%	COMPLETE	
RainScapes Program	APRP	E	12	0.65	6/30/2017	\$ 25,236	0.02%	COMPLETE	
RainScapes Program	MRWH	E	75	1.42	6/30/2017	\$ 4,356	0.04%	COMPLETE	
RainScapes Program	IMPP	E	5	0.40	6/30/2017	\$ 9,580	0.01%	COMPLETE	
RainScapes Program	AGRE	E	2	0.42	6/30/2017	\$ 5,000	0.01%	COMPLETE	
RainScapes Program	MRNG	E	68	3.25	6/30/2018	\$ 52,925	0.09%	COMPLETE	
RainScapes Program	APRP	E	8	0.55	6/30/2018	\$ 18,940	0.01%	COMPLETE	
RainScapes Program	MRWH	E	19	0.73	6/30/2018	\$ 1,485	0.02%	COMPLETE	
RainScapes Program	IMPP	E	2	0.21	6/30/2018	\$ 2,500	0.01%	COMPLETE	
RainScapes Program	AGRE	E	1	0.04	6/30/2018	\$ 2,500	0.00%	COMPLETE	
Average Operations Complete To Date*			15,784	662.38		\$ 7,982,708	17.53%		
Capital Projects	REST BMP TYPE	BMP	NUM BMP	IMP ACRES†	BUILT DATE‡	IMPL COST	% ISRP Complete	IMPL STATUS	GEN COMMENTS
Facility Planning 2010	OTH	[blank]	-	0.00	6/30/2010	\$ 433,803	0.00%	COMPLETE	
Facility Planning 2011	OTH	[blank]	-	0.00	6/30/2011	\$ 749,335	0.00%	COMPLETE	
Facility Planning 2012	OTH	[blank]	-	0.00	6/30/2012	\$ 550,210	0.00%	COMPLETE	

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Facility Planning 2013	OTH	[blank]	-	0.00	6/30/2013	\$ 879,435	0.00%	COMPLETE	
Facility Planning 2014	OTH	[blank]	-	0.00	6/30/2014	\$ 1,658,518	0.00%	COMPLETE	
Facility Planning 2015	OTH	[blank]	-	0.00	6/30/2015	\$ 660,000	0.00%	COMPLETE	
Facility Planning 2016	OTH	[blank]	-	0.00	6/30/2016	\$ 432,000	0.00%	COMPLETE	
Facility Planning 2017	OTH	[blank]	-	0.00	6/30/2017	\$ 990,000	0.00%	COMPLETE	
Facility Planning 2018	OTH	[blank]	-	0.00	6/30/2018	\$ 796,000	0.00%	COMPLETE	
Amherst Green Streets	MMBR	E	2	0.66	5/13/2015	\$ 150,605	0.02%	COMPLETE	
Arcola Avenue Green Streets	MMBR	E	2	0.24	1/19/2011	\$ 448,709	0.01%	COMPLETE	
Arcola Avenue Green Streets	IMPP	A	1	0.00	1/19/2011	\$ -	0.00%	COMPLETE	
Arcola Avenue Green Streets	MMBR	E	1	0.22	10/18/2011	\$ 224,355	0.01%	COMPLETE	
Arcola Avenue Green Streets	IMPP	A	1	0.01	10/18/2011	\$ -	0.00%	COMPLETE	
Arcola Avenue Green Streets	MMBR	E	1	0.40	10/21/2011	\$ 224,355	0.01%	COMPLETE	
Arcola Avenue Green Streets	MMBR	E	1	0.11	11/10/2011	\$ 224,355	0.00%	COMPLETE	
Arcola Avenue Green Streets	IMPP	A	1	0.01	11/10/2011	\$ -	0.00%	COMPLETE	
Arcola Avenue Green Streets	MMBR	E	2	0.54	11/18/2011	\$ 448,709	0.01%	COMPLETE	
Arcola Avenue Green Streets	IMPP	A	1	0.01	11/18/2011	\$ -	0.00%	COMPLETE	
Arcola Avenue Green Streets	MMBR	E	5	0.79	1/19/2012	\$ 236,363	0.02%	COMPLETE	
Arcola Avenue Green Streets	IMPP	A	5	0.04	1/19/2012	\$ -	0.00%	COMPLETE	
Argyle Middle School Stormwater Practice Upgrades	FBIO	E	2	3.54	9/26/2017	\$ 858,985	0.09%	COMPLETE	
Argyle Middle School Stormwater Practice Upgrades	MMBR	E	1	0.23	9/26/2017	\$ 429,493	0.01%	COMPLETE	
Aspen Hill Library LID Retrofit Project	IMPP	A	1	0.01	6/4/2012	\$ -	0.00%	COMPLETE	
Aspen Hill Library Stormwater Practice Upgrades	MMBR	E	1	0.12	6/4/2012	\$ 322,922	0.00%	COMPLETE	
Aspen Hill Library Stormwater Practice Upgrades	FBIO	E	1	0.59	6/4/2012	\$ 322,922	0.02%	COMPLETE	
Avenel Pond - Pay for Performance Contract	PWED	S	1	84.00	12/13/2018	\$ 2,322,867	2.22%	COMPLETE	FY19
Batchellors Run East Stream Restoration	STRE	A	3	19.01	3/6/2013	\$ 1,007,855	0.50%	COMPLETE	
Batchellors Run East Stream Restoration	FPU	A	1	2.82	3/6/2013	\$ -	0.07%	COMPLETE	
Batchellors Run I Stream Restoration	STRE	A	1	10.03	5/13/2014	\$ -	0.27%	COMPLETE	
Batchellors Run II Stream Restoration	STRE	A	2	15.84	5/13/2014	\$ 1,454,103	0.42%	COMPLETE	
Bedfordshire Stormwater Pond Upgrades and Stream	STRE	A	1	10.72	6/2/2017	\$ 1,530,928	0.28%	COMPLETE	
Bedfordshire Stormwater Pond Upgrades and Stream	PWED	S	1	44.18	10/13/2017	\$ 1,868,189	1.17%	COMPLETE	
Booze Creek Stream Restoration	STRE	A	2	39.75	12/6/2013	\$ 449,810	1.05%	COMPLETE	
Breewood Manor Green Streets	MRNG	E	8	1.20	5/13/2015	\$ 956,507	0.03%	COMPLETE	
Breewood Manor Green Streets	FBIO	E	2	0.31	5/13/2015	\$ 239,127	0.01%	COMPLETE	
Breewood Manor Green Streets	IMPP	A	3	0.04	5/13/2015	\$ -	0.00%	COMPLETE	
Breewood Manor Green Streets	FBIO	E	1	2.79	6/2/2017	\$ 104,886	0.07%	COMPLETE	
Breewood Manor Green Streets	IMPF	A	1	0.03	6/2/2017	\$ -	0.00%	COMPLETE	
Breewood Tributary Stream Restoration	STRE	A	1	12.80	5/28/2015	\$ 1,124,419	0.34%	COMPLETE	
Brookville Bus Depot Stormwater Practice Upgrades	PWED	S	1	14.59	2/3/2014	\$ 1,771,536	0.39%	COMPLETE	
Bryants Nursery Run Stream Restoration	STRE	A	2	17.42	3/6/2013	\$ 720,405	0.46%	COMPLETE	
Bryants Nursery Run Stream Restoration	FPU	A	1	0.13	3/6/2013	\$ -	0.00%	COMPLETE	
Cabin John north task 21	STRE	A	1	5.50	9/1/2015	\$ -	0.15%	COMPLETE	
Chadswood Stormwater Pond Upgrades	XDED	S	1	50.01	11/3/2015	\$ 1,285,653	1.32%	COMPLETE	
CMAC Retrofits	XOTH	X	2	130.35	12/1/2017	\$ 445,035	3.45%	COMPLETE	
Cold Spring Elementary School Stormwater Improvements	MMBR	E	1	0.68	8/13/2013	\$ -	0.02%	COMPLETE	
Colesville Park & Ride Stormwater Practice Upgrades	MMBR	E	3	0.87	3/23/2017	\$ 285,623	0.02%	COMPLETE	
Colesville Park & Ride Stormwater Practice Upgrades	FUND	S	2	0.41	3/23/2017	\$ 155,278	0.01%	COMPLETE	
Colesville Park & Ride Stormwater Practice Upgrades	IMPP	A	3	0.06	3/23/2017	\$ -	0.00%	COMPLETE	
Collingwood Stormwater Pond Upgrades	XDED	S	1	6.18	5/31/2017	\$ 189,685	0.16%	COMPLETE	
Copenhaver WSSC Sewer Repair	STRE	A	1	6.53	6/30/2008	\$ -	0.17%	COMPLETE	

Dennis Avenue Green Streets	MMBR	E	7	0.62	3/7/2013	\$ 287,985	0.02%	COMPLETE	
Dennis Avenue Green Streets	FBIO	E	2	0.78	3/7/2013	\$ 82,281	0.02%	COMPLETE	
Dennis Avenue Green Streets	FBIO	E	11	5.47	6/6/2014	\$ 413,216	0.14%	COMPLETE	
Dennis Avenue Green Streets	MSWG	E	3	0.87	6/6/2014	\$ 112,695	0.02%	COMPLETE	
Dennis Avenue Green Streets	OTH	E	1	0.21	6/6/2014	\$ 37,565	0.01%	COMPLETE	
Dennis Avenue Green Streets	IMPP	A	6	0.02	6/6/2014	\$ -	0.00%	COMPLETE	
Dennis Avenue Green Streets	MMBR	E	15	5.67	8/14/2014	\$ 563,477	0.15%	COMPLETE	
Dennis Avenue Green Streets	APRP	E	5	1.13	8/14/2014	\$ 187,826	0.03%	COMPLETE	
Dennis Avenue Green Streets	MSWG	E	3	0.62	8/14/2014	\$ 112,695	0.02%	COMPLETE	
Dennis Avenue Green Streets	FBIO	E	1	1.62	8/14/2014	\$ 37,565	0.04%	COMPLETE	
Dennis Avenue Green Streets	IMPP	A	12	0.09	8/14/2014	\$ -	0.00%	COMPLETE	
Donnybrook Green Streets and Stream Restoration	MSWG	E	4	1.93	12/16/2014	\$ 632,233	0.05%	COMPLETE	
Donnybrook Green Streets and Stream Restoration	MMBR	E	2	0.52	12/16/2014	\$ 316,117	0.01%	COMPLETE	
Donnybrook Green Streets and Stream Restoration	STRE	A	1	19.64	12/16/2014	\$ 186,847	0.52%	COMPLETE	
Donnybrook Green Streets and Stream Restoration	FBIO	E	1	0.38	12/16/2014	\$ 158,058	0.01%	COMPLETE	
Donnybrook Green Streets and Stream Restoration	IMPP	A	4	0.04	12/16/2014	\$ -	0.00%	COMPLETE	
Donnybrook Green Streets and Stream Restoration	MMBR	E	5	0.59	6/23/2016	\$ 1,033,446	0.02%	COMPLETE	
DOT Outfall Stabilization - 10068 Maple Leaf Dr.	OUTS	A	1	0.00	6/30/2015	\$ -	0.00%	COMPLETE	
DOT Outfall Stabilization - 11820 Hunting Ridge Ct.	OUTS	A	1	0.00	6/30/2016	\$ -	0.00%	COMPLETE	
DOT Outfall Stabilization - 20332 Maple Leaf Dr.	OUTS	A	1	0.00	6/30/2015	\$ -	0.00%	COMPLETE	
DOT Outfall Stabilization - 8500 Fryeman Ave.	OUTS	A	1	0.00	6/30/2015	\$ -	0.00%	COMPLETE	
DOT Outfall Stabilization - Dartmouth Dr at Sligo Creek	OUTS	A	1	0.00	6/30/2016	\$ -	0.00%	COMPLETE	
DOT Outfall Stabilization - Sligo Creek	OUTS	A	1	0.00	6/30/2015	\$ -	0.00%	COMPLETE	
Emory Grove Park Stormwater Pond Upgrades	PWED	S	1	7.64	5/7/2015	\$ 1,035,806	0.20%	COMPLETE	
Emory Grove Park Stormwater Pond Upgrades	XDED	S	1	3.04	5/7/2015	\$ 1,035,806	0.08%	COMPLETE	
Fairland Ridge Stormwater Pond Upgrades	XDED	S	1	10.37	1/8/2012	\$ 172,544	0.27%	COMPLETE	
Fallsreach Stormwater Pond Upgrades and Stream	PWED	S	1	12.09	10/29/2014	\$ 317,356	0.32%	COMPLETE	
Forest Estates Green Streets	FBIO	E	11	2.16	7/19/2012	\$ 155,364	0.06%	COMPLETE	
Forest Estates Green Streets	MMBR	E	9	2.22	7/19/2012	\$ 127,116	0.06%	COMPLETE	
Forest Estates Green Streets	MRNG	E	3	0.36	7/19/2012	\$ 42,372	0.01%	COMPLETE	
Forest Estates Green Streets	MSWG	E	1	0.32	7/19/2012	\$ 14,124	0.01%	COMPLETE	
Fox Hills of Potomac and Normandy Falls Stormwater Pond	XDED	S	1	4.20	3/6/2018	\$ 376,355	0.11%	COMPLETE	
Franklin Knolls and Clifton Park Green Streets	MRNG	E	12	1.94	11/21/2014	\$ 334,448	0.05%	COMPLETE	
Franklin Knolls and Clifton Park Green Streets	FBIO	E	7	1.32	11/21/2014	\$ 195,094	0.03%	COMPLETE	
Franklin Knolls and Clifton Park Green Streets	MMBR	E	6	2.60	11/21/2014	\$ 167,224	0.07%	COMPLETE	
Franklin Knolls and Clifton Park Green Streets	MSWG	E	1	0.32	11/21/2014	\$ 27,871	0.01%	COMPLETE	
Franklin Knolls and Clifton Park Green Streets	MRNG	E	38	8.80	5/31/2016	\$ 1,384,939	0.23%	COMPLETE	
Franklin Knolls and Clifton Park Green Streets	MMBR	E	4	0.00	5/31/2016	\$ 145,783	0.00%	COMPLETE	
Franklin Knolls and Clifton Park Green Streets	MRNG	E	38	9.60	6/30/2016	\$ 1,384,939	0.25%	COMPLETE	
Franklin Knolls and Clifton Park Green Streets	FBIO	E	13	0.00	6/30/2016	\$ 473,795	0.00%	COMPLETE	
Franklin Knolls and Clifton Park Green Streets	MMBR	E	4	0.00	6/30/2016	\$ 145,783	0.00%	COMPLETE	
Georgian Colonies and Georgian Woods Colonies	XDED	S	1	5.26	6/18/2014	\$ 546,428	0.14%	COMPLETE	
Georgian Colonies and Georgian Woods Colonies	PWED	S	1	4.20	6/18/2014	\$ 546,428	0.11%	COMPLETE	
Germantown Park Stormwater Pond Upgrades and Stream	XDED	S	1	9.78	8/11/2016	\$ 334,876	0.26%	COMPLETE	
Glenstone Stream Restoration	STRE	A	1	14.41	6/30/2017	\$ 503,937	0.38%	COMPLETE	
Glynshire Way Stormwater Pond Upgrades and Stream	WSHW	S	1	20.26	8/28/2015	\$ 784,282	0.54%	COMPLETE	
Greencastle Park & Ride Stormwater Practice Upgrades	MMBR	E	5	1.33	3/30/2017	\$ 666,455	0.04%	COMPLETE	
Greencastle Park & Ride Stormwater Practice Upgrades	FUND	S	2	0.44	3/30/2017	\$ 217,389	0.01%	COMPLETE	
Greencastle Park & Ride Stormwater Practice Upgrades	IMPP	A	1	0.03	3/30/2017	\$ -	0.00%	COMPLETE	

Gunners Lake Village Stormwater Pond Upgrades	PWED	S	1	318.60	12/15/2014	\$ 171,821	8.43%	COMPLETE	
Hollywood Branch Stream Restoration	STRE	A	1	44.70	12/18/2015	\$ 2,925,718	1.18%	COMPLETE	
Holman Avenue - Forest Glen Outfall Repair	OUTS	A	1	0.94	6/22/2014	\$ -	0.02%	COMPLETE	
Joseph's Branch Stream Restoration - Spruell Drive	STRE	A	1	10.06	11/1/2006	\$ 484,038	0.27%	COMPLETE	
Kensington Park Library LID Retrofit Project	IMPP	A	1	0.01	6/12/2012	\$ -	0.00%	COMPLETE	
Kensington Park Library Stormwater Practice Upgrades	MRNG	E	4	0.67	6/12/2012	\$ 646,469	0.02%	COMPLETE	
Kentsdale Drive	STRE	A	1	4.50	3/1/2015	\$ -	0.12%	COMPLETE	
Little Falls - Somerset Stream Restoration	STRE	A	1	5.28	3/21/2008	\$ 221,640	0.14%	COMPLETE	
Little Falls III Stream Restoration	STRE	A	1	5.28	12/1/2005	\$ 560,300	0.14%	COMPLETE	
Little Falls Library Stormwater Practice Upgrades	FBIO	E	1	0.68	1/9/2018	\$ 598,036	0.02%	COMPLETE	
Manchester Farm Regional Stormwater Pond Upgrades	XDED	S	1	159.50	6/7/2018	\$ 300,727	4.22%	COMPLETE	
Meadowvale Stormwater Pond Upgrades	PWET	S	1	11.36	6/11/2015	\$ 1,035,806	0.30%	COMPLETE	
Metro Park N Stormwater Pond Upgrades	PWED	S	1	16.06	3/8/2017	\$ 753,885	0.43%	COMPLETE	
Metro Park N Stormwater Pond Upgrades	XDED	S	1	13.91	3/8/2017	\$ 753,885	0.37%	COMPLETE	
Montgomery Auto Sales Park Regional Stormwater Pond	PWED	S	1	70.45	11/17/2014	\$ 2,377,123	1.86%	COMPLETE	
Montgomery Manor Stormwater Pond Upgrades	PWED	S	1	4.86	5/18/2017	\$ 753,885	0.13%	COMPLETE	
Montgomery Village Stormwater Pond Upgrades	XDED	S	1	6.08	11/2/2016	\$ 1,844,155	0.16%	COMPLETE	
Montgomery Village Stormwater Pond Upgrades	PWED	S	1	27.34	10/3/2017	\$ 1,551,797	0.72%	COMPLETE	
Naples Manor Stormwater Pond Upgrades	XDED	S	1	10.81	7/9/2014	\$ 546,428	0.29%	COMPLETE	
NB-11	WSHW	S	1	11.11	11/24/2013	\$ -	0.29%	COMPLETE	
NB-16	WSHW	S	1	35.67	12/12/2014	\$ -	0.94%	COMPLETE	
NB-6	XDED	S	1	55.45	8/7/2013	\$ -	1.47%	COMPLETE	
NB-7	WSHW	S	1	74.34	3/29/2016	\$ -	1.97%	COMPLETE	
Newport Mills Middle School Stormwater Practice Upgrades	FBIO	E	1	3.24	8/25/2017	\$ 518,004	0.09%	COMPLETE	
North Lake Apartments Stormwater Pond Upgrades	XDED	S	1	5.80	9/18/2018	\$ 2,514,170	0.15%	COMPLETE	FY19
Northwood Presbyterian Church Stormwater Retrofits	MMBR	E	1	0.50	7/10/2018	\$ 128,749	0.01%	COMPLETE	FY19
NW-32	PWED	S	1	5.71	3/24/2015	\$ -	0.15%	COMPLETE	
NW-35	PWED	S	1	6.25	1/16/2015	\$ -	0.17%	COMPLETE	
NW-39	PWET	S	1	4.53	6/27/2016	\$ -	0.12%	COMPLETE	
NW-47	PWED	S	1	9.14	1/16/2015	\$ -	0.24%	COMPLETE	
Oak View Elementary School Stormwater Practice Upgrades	MMBR	E	2	0.28	8/17/2016	\$ 216,051	0.01%	COMPLETE	
Oak View Elementary School Stormwater Practice Upgrades	MRNG	E	1	0.12	8/17/2016	\$ 108,026	0.00%	COMPLETE	
Oak View Elementary School Stormwater Practice Upgrades	MSWG	E	1	0.12	8/17/2016	\$ 108,026	0.00%	COMPLETE	
Olney Elementary School Stormwater Practice Upgrades	MMBR	E	2	0.00	8/24/2018	\$ 386,254	0.00%	COMPLETE	FY19 SEP
Olney Elementary School Stormwater Practice Upgrades	MRNG	E	1	0.00	8/24/2018	\$ 193,127	0.00%	COMPLETE	FY19 SEP
Olney mill road WSSC emergency stream restoration	STRE	A	1	1.34	6/30/2015	\$ -	0.04%	COMPLETE	
Outfall Stabilization - 1012 Parrs Ridge	GABION	A	1	1.40	4/1/2011	\$ -	0.04%	COMPLETE	
Outfall Stabilization - 13717 Mills Avenue	STRE	A	1	0.40	8/1/2010	\$ -	0.01%	COMPLETE	
Outfall Stabilization - 13717 Mills Avenue	OUTS	A	1	0.50	4/1/2011	\$ -	0.01%	COMPLETE	
Outfall Stabilization - 1517 Menlee Drive	OUTS	A	1	0.90	1/1/2010	\$ -	0.02%	COMPLETE	
Outfall Stabilization - 611 Lamberton Drive	OUTS	A	1	0.00	9/1/2010	\$ -	0.00%	COMPLETE	
Outfall Stabilization - 7208 Helmsdale Road	OUTS	A	1	0.20	8/1/2010	\$ -	0.01%	COMPLETE	
Outfall Stabilization - Wayne Avenue at Sligo Creek Parkway	OUTS	A	1	0.16	3/1/2011	\$ -	0.00%	COMPLETE	
Outfall Stabilization - Wightman Road at Aspenwood	OUTS	A	1	0.15	2/1/2010	\$ -	0.00%	COMPLETE	
PB-114	MSWG	E	20	2.77	1/11/2011	\$ -	0.07%	COMPLETE	
PB-114A	XDED	S	1	7.60	6/12/2015	\$ -	0.20%	COMPLETE	
PB-115	MSWG	E	18	2.85	1/11/2011	\$ -	0.08%	COMPLETE	
PB-116	MSWG	E	14	0.42	5/3/2013	\$ -	0.01%	COMPLETE	
PB-117	MSWG	E	11	0.26	5/3/2013	\$ -	0.01%	COMPLETE	

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PB-119	MSWG	E	13	0.04	5/3/2013	\$ -	0.00%	COMPLETE	
PB-121	MMBR	E	10	0.24	5/17/2013	\$ -	0.01%	COMPLETE	
PB-122	IMPP	A	2	0.03	7/6/2009	\$ -	0.00%	COMPLETE	
PB-122	MSWG	E	2	0.00	8/30/2011	\$ -	0.00%	COMPLETE	
PB-123	MSWG	E	6	0.44	8/30/2011	\$ -	0.01%	COMPLETE	
PB-124	MSWG	E	9	0.22	8/30/2011	\$ -	0.01%	COMPLETE	
PB-124	IMPP	A	1	0.01	7/1/2013	\$ -	0.00%	COMPLETE	
PB-125	MSWG	E	5	0.17	8/30/2011	\$ -	0.00%	COMPLETE	
PB-127	MSWG	E	4	0.62	8/30/2011	\$ -	0.02%	COMPLETE	
PB-128	MSWG	E	15	0.55	8/30/2011	\$ -	0.01%	COMPLETE	
PB-130	FBIO	E	7	1.04	11/24/2013	\$ -	0.03%	COMPLETE	
PB-130	IMPP	A	5	0.02	11/24/2013	\$ -	0.00%	COMPLETE	
PB-132	XDED	S	1	1.11	5/17/2013	\$ -	0.03%	COMPLETE	
PB-133	MSWG	E	22	3.60	9/30/2014	\$ -	0.10%	COMPLETE	
PB-140	MSWG	E	9	1.82	6/17/2015	\$ -	0.05%	COMPLETE	
PB-141	MSWG	E	6	2.73	6/17/2015	\$ -	0.07%	COMPLETE	
PB-142	MSWG	E	3	0.20	6/17/2015	\$ -	0.01%	COMPLETE	
PB-143	MSWG	E	7	1.37	6/17/2015	\$ -	0.04%	COMPLETE	
PB-33	XDED	S	1	1.99	10/7/2015	\$ -	0.05%	COMPLETE	
PB-43	WEDW	S	1	8.20	3/11/2015	\$ -	0.22%	COMPLETE	
PB-46A	XDED	S	1	6.76	3/21/2016	\$ -	0.18%	COMPLETE	
PB-48	MSGW	E	1	1.68	3/3/2016	\$ -	0.04%	COMPLETE	
PB-U-01-S-17	MSWG	E	20	9.57	1/11/2011	\$ -	0.25%	COMPLETE	
PB-U-01-S-33	MSWG	E	14	0.28	5/17/2013	\$ -	0.01%	COMPLETE	
PB-U-01-S-59	MSWG	E	8	0.38	8/30/2011	\$ -	0.01%	COMPLETE	
PB-U-01-S-60	MSWG	E	20	2.13	8/30/2011	\$ -	0.06%	COMPLETE	
Peachwood Stormwater Pond Upgrades	XDED	S	1	4.73	3/10/2009	\$ 322,670	0.13%	COMPLETE	
Plantations II Stormwater Pond Upgrades	PWED	S	1	20.50	12/20/2017	\$ 1,733,968	0.54%	COMPLETE	
Potomac Chase (Fox Hills North) Stormwater Pond Upgrades	XDED	S	1	14.89	11/29/2017	\$ 1,470,762	0.39%	COMPLETE	
Potomac Chase And Mills Farm Stormwater Pond Upgrades	XDED	S	1	11.66	9/26/2018	\$ 1,785,578	0.31%	COMPLETE	FY19
Potomac Chase And Mills Farm Stormwater Pond Upgrades	PWED	S	1	29.64	10/30/2018	\$ 2,501,963	0.78%	COMPLETE	FY19
Potomac Ridge Stormwater Pond Upgrades	XDED	S	2	29.63	12/20/2017	\$ 2,682,876	0.78%	COMPLETE	
Potomac Ridge Stormwater Pond Upgrades	MSWG	E	1	0.00	12/20/2017	\$ 1,341,438	0.00%	COMPLETE	
Potomac Ridge Stormwater Pond Upgrades	XDED	S	1	10.45	5/9/2018	\$ 1,359,307	0.28%	COMPLETE	
Potomac Ridge Stormwater Pond Upgrades	XDED	S	1	2.51	6/30/2018	\$ 1,359,307	0.07%	COMPLETE	
Quince Orchard Manor Stormwater Pond Upgrades	XDED	S	1	42.84	12/28/2018	\$ 4,342,292	1.13%	COMPLETE	FY19
RC-73	WEDW	S	1	40.50	6/1/2018	\$ -	1.07%	COMPLETE	
RC-74	WEDW	S	2	24.79	6/1/2018	\$ -	0.66%	COMPLETE	
Ridge Mist Terrace Stormwater Pond Upgrades and Stream	XDED	S	1	7.20	8/28/2015	\$ 784,282	0.19%	COMPLETE	
Ridgeview Middle School Stormwater Practice Upgrades	FBIO	E	4	1.02	9/25/2012	\$ 598,182	0.03%	COMPLETE	
Ridgeview Middle School Stormwater Practice Upgrades	MRNG	E	1	0.77	9/25/2012	\$ 149,546	0.02%	COMPLETE	
Road Culvert Replacement - Davis Mill Road at Wildcat Road	STRE	A	1	1.00	11/1/2010	\$ -	0.03%	COMPLETE	
Road Culvert Replacement - Prarthertown Road Culverts	STRE	A	1	0.35	11/1/2011	\$ -	0.01%	COMPLETE	
Road Culvert Stabilization - Burnt Mills Avenue at Hoyle	STRE	A	1	0.75	8/1/2010	\$ -	0.02%	COMPLETE	
Road Culvert Stabilization - Circle Drive at Spring Drive	STRE	A	1	0.25	10/1/2011	\$ -	0.01%	COMPLETE	
Rosa Parks Middle School Stormwater Practice Upgrades	MMBR	E	4	1.00	8/17/2016	\$ 500,194	0.03%	COMPLETE	
Rosa Parks Middle School Stormwater Practice Upgrades	MSWG	E	1	0.18	8/17/2016	\$ 125,049	0.00%	COMPLETE	
Rosa Parks Middle School Stormwater Practice Upgrades	FBIO	E	1	0.36	8/17/2016	\$ 125,049	0.01%	COMPLETE	
Schuyllkill Rd Outfall Repair	OUTS	A	1	0.20	3/1/2011	\$ -	0.01%	COMPLETE	

Schuylkill Rd Outfall Repair	OUTS	A	1	0.43	1/8/2014	\$ -	0.01%	COMPLETE	
Scotland Neighborhood Recreation Center	FSND	S	1	1.04	11/9/2015	\$ 104,021	0.03%	COMPLETE	
Sherwood Forest I Stream Restoration	STRE	A	1	29.04	3/25/2014	\$ 1,632,156	0.77%	COMPLETE	
Sligo Middle School Stormwater Practice Upgrades	FBIO	E	1	1.16	8/25/2017	\$ 267,140	0.03%	COMPLETE	
Sligo Middle School Stormwater Practice Upgrades	MRNG	E	1	1.13	8/25/2017	\$ 267,140	0.03%	COMPLETE	
Sligo Park Hills Neighborhood Green Street	MMBR	E	13	4.58	1/27/2014	\$ 730,139	0.12%	COMPLETE	
Sligo Park Hills Neighborhood Green Street	APRP	E	9	1.52	1/27/2014	\$ 505,481	0.04%	COMPLETE	
Sligo Park Hills Neighborhood Green Street	FBIO	E	5	0.62	1/27/2014	\$ 280,823	0.02%	COMPLETE	
Sligo Park Hills Neighborhood Green Street	APRP	E	22	2.32	10/20/2014	\$ 1,235,620	0.06%	COMPLETE	
Sligo Park Hills Neighborhood Green Street	MMBR	E	12	2.00	10/20/2014	\$ 673,974	0.05%	COMPLETE	
Sligo Park Hills Neighborhood Green Street	FBIO	E	6	0.67	10/20/2014	\$ 336,987	0.02%	COMPLETE	
Sligo Park Hills Neighborhood Green Street	APRP	E	3	0.24	11/18/2014	\$ 168,494	0.01%	COMPLETE	
Sligo Park Hills Neighborhood Green Street	FBIO	E	2	0.93	11/18/2014	\$ 112,329	0.02%	COMPLETE	
Sligo Park Hills Neighborhood Green Street	MMBR	E	1	0.32	11/18/2014	\$ 56,165	0.01%	COMPLETE	
Sligo Park Hills Neighborhood Green Street	ITRN	S	1	0.33	12/5/2014	\$ 56,165	0.01%	COMPLETE	
Sligo Park Hills Neighborhood Green Street	ITRN	S	2	0.25	1/29/2015	\$ 131,818	0.01%	COMPLETE	
Stoney Creek (NIH) Stormwater Pond	PWED	S	1	114.55	3/21/2013	\$ 5,373,410	3.03%	COMPLETE	
Strathmore Elementary School Stormwater Practice	FBIO	E	1	1.16	8/25/2017	\$ 272,493	0.03%	COMPLETE	
Stream Outfall Restoration - 4305 Havard Street	STRE	A	1	1.50	4/1/2011	\$ -	0.04%	COMPLETE	
Stream Restoration - 9014 Marseille Drive	STRE	A	1	1.25	10/1/2011	\$ -	0.03%	COMPLETE	
Stream Restoration - 9412 Emory Grove Road	STRE	A	1	0.50	11/1/2011	\$ -	0.01%	COMPLETE	
Stream Restoration - Bucknell Drive Median Stream Channel	STRE	A	1	3.50	11/1/2010	\$ -	0.09%	COMPLETE	
Stream Restoration through Gabion Walls - 9512 Columbia	GABION	A	1	0.35	9/1/2010	\$ -	0.01%	COMPLETE	
University Towers Stormwater Retrofits	MMBR	E	9	2.55	7/10/2018	\$ 1,752,577	0.07%	COMPLETE	FY19
University Towers Stormwater Retrofits	APRP	E	3	1.23	7/10/2018	\$ 584,192	0.03%	COMPLETE	FY19
Upper Northwest Branch Stream Restoration	STRE	A	1	21.65	3/6/2013	\$ 667,502	0.57%	COMPLETE	
Upper Northwest Branch Stream Restoration	FPU	A	1	0.04	3/6/2013	\$ -	0.00%	COMPLETE	
Valley Park Stormwater Pond Upgrades	PWED	S	1	67.70	6/29/2017	\$ 3,414,049	1.79%	COMPLETE	
Westleigh (Muddy Branch SVU)	PWED	S	1	11.67	12/1/2006	\$ -	0.31%	COMPLETE	
White Oak Green Streets	MMBR	E	4	0.85	5/2/2012	\$ 375,352	0.02%	COMPLETE	
White Oak Green Streets	IMPP	A	5	0.03	5/2/2012	\$ -	0.00%	COMPLETE	
White Oak Green Streets	MMBR	E	1	0.21	6/30/2012	\$ 93,838	0.01%	COMPLETE	
White Oak Green Streets	OTH	S	8	0.00	12/21/2012	\$ 750,703	0.00%	COMPLETE	
White Oak Green Streets	MSWG	E	4	0.83	12/21/2012	\$ 375,352	0.02%	COMPLETE	
White Oak Green Streets	FBIO	E	2	0.28	12/21/2012	\$ 187,676	0.01%	COMPLETE	
White Oak Green Streets	MMBR	E	1	0.26	12/21/2012	\$ 93,838	0.01%	COMPLETE	
White Oak Green Streets	IMPP	A	1	0.00	12/21/2012	\$ -	0.00%	COMPLETE	
White Oak Middle School Stormwater Practice Upgrades	MMBR	E	5	0.69	8/17/2016	\$ 149,024	0.02%	COMPLETE	
White Oak Middle School Stormwater Practice Upgrades	FBIO	E	1	0.70	8/17/2016	\$ 29,805	0.02%	COMPLETE	
White Oak Middle School Stormwater Practice Upgrades	IMPP	A	1	0.03	8/17/2016	\$ -	0.00%	COMPLETE	
Wilson Lane	STRE	A	1	2.06	6/30/2015	\$ -	0.05%	COMPLETE	
Woodlawn Stream Restoration	STRE	A	3	23.13	3/26/2014	\$ -	0.61%	COMPLETE	
WSSC and WGL Emergency Stream restoration	STRE	A	1	3.32	6/30/2015	\$ -	0.09%	COMPLETE	
Subtotal Capital Complete To Date			809	2,185.99		\$ 103,810,341	57.86%		
Other									
New BMPs Treating Existing Imp Area	REDE	[blank]	-	832.40	6/30/2017	\$ 308,077	22.03%	COMPLETE	
New BMPs Treating Existing Imp Area	REDE	[blank]	-	101.03	6/30/2018	\$ 307,310	2.67%	COMPLETE	
Subtotal Other Complete To Date			0	933.43		\$ 615,387	24.71%		

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Total Complete to Date		16,593	3,781.79	\$ 112,408,436	100.10%	
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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.

†Built Date: Montgomery County's permit term began in FY2010

‡IMP ACRES = 0 when a BMP is nested within another BMP's drainage area (with the exception of the Olney Elementary School Stormwater Practice Upgrades which were Supplemental Environmental Projects (SEPs) required by the County's Consent Decree and therefore not eligible for IA credit)

VERSION 2-28-18

Best Management Practices Types

MDE BMP Type	MDE BMP Type Description
AGRE	Green Roof - Extensive
AGRI	Green Roof - Intensive
APRP	Permeable Pavement
ARTF	Reinforced Turf
FBIO	Bioretention
FORG	Organic Filter (Peat Filter)
FSND	Sand Filter
IBAS	Infiltration Basin
ITRN	Infiltration Trench
MIDW	Dry Swale
MILS	Landscape Infiltration
MMBR	Micro-bioretention
MRNG	Rain garden
MRWH	Rainwater Harvesting
MSGW	Submerged Gravel Wetland
MSWB	Bio-swale
MSWG	Grass Swale
MSWW	Wet Swale
NDNR	Disconnection of Non-Rooftop Runoff
NDRR	Disconnection of Rooftop Runoff
NSCA	Sheetflow to Conservation Area
ODSW	Dry Swale
OTH	Other
PWED	Extended Detention Structure, Wet
PWET	Retention Pond (wet)
WEDW	Extended Detention, Wetland
WPWS	Wet Pond - Wetland
WSHW	Shallow Marsh
XDED	Extended Detention Structure, Dry
XDPD	Detention Structure (Dry Pond)
XOGS	Oil Grit Separator
FPU	Planting Tress or Forestation on Pervious Urban
IMPP	Impervious Surface Elimination
IMPF	Impervious Surface Elimination to Forest
CBC	Catch Basin (storm drain inlet) cleaning
VSS	Regenerative/Vacuum Street Sweeping
OUT	Outfall Stabilization
STRE	Stream Restoration
SEPC	Septic Connection to WWTP
SEPD	Septic Denitrification
SEPP	Septic Pumping
XOTH	CMAC Installation - Structural control component for wet ponds