

FINANCIAL ASSURANCE PLAN AND WPRP ANNUAL REPORT

Frederick County

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

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

FAP Submittal Date: December 29, 2022

Submittal/Report Date: November 16, 2022

EXECUTIVE SUMMARY

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.

Maryland Senate Bill 863, "Watershed Protection and Restoration Programs – Revisions" was passed in 2015 and added a requirement to the Annotated Code of Maryland ENV §4-202.1 for all medium and large NPDES MS4 permit holders to prepare a biennial Financial Assurance Plan (FAP) and Watershed Protection and Restoration Program (WPRP) Annual Report to demonstrate the financial wherewithal for meeting National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) permit 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 next submittal due December 29, 2018; all subsequent submissions are due two years from the December date. The December 29, 2022 FAP spreadsheets were submitted to MDE with the MS4 Annual Report. This FAP provides approved MS4 program funding and execution for Fiscal Year 2022, with actuals for FY'22 and projections from FY'23 through FY'27. The FAP will be issued for a 30-day public review. The County Council, as the "local governing body," is required to hold a public hearing and vote on approval of the FAP. A certification is to be signed by the County Executive after Council Approval.

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 had an effective date of December 30, 2014, expired December 29, 2019, and is administratively extended.

The administratively extended Permit requires compliance with such tasks as watershed assessments; long-term watershed monitoring; public outreach on mandated topics; COMAR-required activities required for development review, sediment and erosion control, and inspection of all public and private stormwater facilities on a triennial basis; 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; maintenance of a complex geodatabase with permit compliance data; and restoration and retrofit implementation. Specifically, the Permit’s Impervious Surface Restoration Plan (ISRP) requires the restoration of 20% of the County’s untreated urban impervious area within the MS4 by December 29, 2019 to the Maximum Extent Practicable. Below, Table 1 shows the total impervious acres in the county MS4 with subtractions for treated areas that have been approved by MDE, resulting in 9,903 untreated impervious acres. 20% of this number is 1,981 acres.

Table 1: Updated Impervious Cover Baseline

<u>Frederick County Impervious Accounting</u>	
Total Impervious (acres) within MS4 Permit Area	13,396
– Treated Impervious (acres)	(-678)
– Rooftop Disconnect (acres)	(-403)
– Non Rooftop Disconnect (acres)	(-2,259)
– Sheetflow to Conservation Area (acres)	(-38)
– Existing Grass Swales (acres)	(-51)
– Treated Impervious draining to MD SHA’s BMPs from Frederick County MS4 area	(-64)
Remaining Untreated Impervious (acres) as Baseline	9,903
– Multiply by 20% to determine Frederick County Impervious Restoration Goal (acres)	<i>x (0.20)</i>
Total Impervious (acres) within MS4 Permit Area to be restored¹	1,981

The County met 100% of the goal of its ISRP, having spent \$57,308,050 on compliance with the permit requirements as of the expiration date of the permit on December 29, 2019.

Best Management Practices approved by MDE were used, as shown in Table 2 below.

Table 2: Impervious Cover Restoration Projects and Trades meeting the 20% ISRP in the Previous NPDES MS4 Permit by December 29, 2019

BMP Type	Total
Stormwater	
Micro-Bioretenion	2.74
Rainwater Harvesting	0.05
Bioretention	1.70
Wet Extended Detention	267.67
Wet Pond	54.74
Sand Filter	3.13
Stream Restoration	461.63
Outfall Stabilization	63.46
Tree Planting	30.60
Septic Denitrification	64.48
Septic Connections to WWTP	4.89
Septic Pumping	212.97
Vacuum Street Sweeping ¹	96.28
Redevelopment Restoration	8.59
Nutrient Trading	708.1
Total	1,981.03

The 1,981.03 acres of restoration obligation were met using 1,272.03 acres of restoration and 708.1 acre equivalents of nutrient trading credits from the County’s wastewater treatment plant (WWTP) at Ballenger-McKinney. A permit modification dated November 8, 2019 allows for nutrient trading with the requirement that these trades be purchased annually until they are replaced by permanent practices. These trades were approved by MDE on April 23, 2020.

Since the expiration of the permit, Frederick County has continued completion of restoration work with MDE’s most updated guidances and crediting mechanisms. By June 30, 2022, the County estimated that it had completed an additional 726.3 acres of impervious acre restoration; DEE completed sufficient restoration work to replace all 708.1 acre equivalents of nutrient trades and accrued 18.2 additional acres of credit towards the next Permit obligations. there is no remaining obligation to keep up with or replace nutrient trading. The majority of the replacement credits come from stream restoration and tree planting, two of the most effective Best Management Practices for Restoration.

The next 5-year permit is expected to be issued in December 2022 and expire in December 2027, midway through Fiscal Year 2028. MDE's FAP includes some financial projections through FY'27 and others through the end of the permit. For this reason, not all of the numbers in MDE's spreadsheet add up, as they are sometimes looking at FY'27 and sometimes halfway through FY'28.

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) FY'22 Operating budget estimates are based on the actual FY'22 and FY'23 budgets with 3% per year escalators for future operating expenses. The programmed Capital Improvement Project budget was used for FY'22 and FY'23 with projections for FY'23-FY'27 based on the programmed CIP, subject to future approvals by the governing body. Revenue from the County's stormwater remediation fee was tracked by the Finance Division and is projected to remain flat.

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 Fiscal Year 2021 this amounted to \$565.00. The County collected \$1,646 total in the WPRP by the end of FY'22. The majority of funding comes from the General Funds and from bonds; the level of expenditure is commensurate to other large and medium MS4s in Maryland.

The FAP includes projections through FY'27. All projected costs in the spreadsheet are presented with the caveat that future budgets are not approved by the governing body, and that the budgets will need to reflect the requirements of the next MS4 permit once issued. CIP estimates for future years are based on costs from proposed future CIP projects and on an average CIP execution rate from the previous permit.

A detailed proposal for execution of the next MS4 permit with consideration for various factors, known as the Maximum Extent Practicable (MEP) analysis, was submitted to MDE July 7, 2021. In this analysis, Frederick County stated a reasonable expectation for the next Permit implementation to 2027 would be approximately 934 acres. In the tentative determination for the next Permit, MDE states a requirement of 1,027 acres of implementation.

For the next two fiscal years (FY2023-FY2024), the revenue appropriated versus cost is 100%. This exceeds the 75% requirement. Revenue and costs are \$19,355,337.

These numbers are presented with some very strong caveats. Future budgets are subject to approval by the governing body. The current permit is administratively extended; the new permit could come with budgetary changes. Future bond issuances are predicted but not guaranteed.

Frederick County has made significant strides to improve water quality in the Chesapeake Bay and local County streams. It completed its previous Permit in full compliance and is positioned well for implementation of the pending Permit.

MS4 Information	
Jurisdiction	Frederick County
Contact Name	Shannon Moore
Phone	240.608.7406
Address	30 North Market Street
City	Frederick
State	Maryland
Zip	21701
Email	Smoores@FrederickCountyMD.gov
ISR Trading Replacement(ac)	708.10
Continued Annual Alt ISR annual (ac)	61.90
Required ISR New Permit (ac)	1027.00
Total ISR (ac)	1,797
Permit Num	22-DP-3321 MD0068357
Permit Period (FY)	FY'22-FY'27
Reporting FY	2022

Check with MDE Geodatabase:

Should match Permit info table of Geodatabase, except for ISR requirements for continuing alternative controls and additional- that should match permit language of E.1.b and E.3

Check with Permit Language:

Continued annual alternative ISR and required ISR new permit should match MS4 Permit condition E. Stormwater Restoration.

Version 6-22-22

REST BMP TYPE ¹	BMP CLASS	IMPERVIOUS ACRES	% ISR GOAL	IMPLEMENTATION COSTS	IMPLEMENTATION STATUS	IMPLEMENTATION COMPLETION YEAR (FY)
Other (Completed to Replace Annual Obligations)^{2,3}						
			0%			
			0%			
Subtotal Other Next Two Years (FY23-24)		-	0%	\$ -		
Subtotal Other Next Five Years (FY23-27)		-	0%	\$ -		
Subtotal Other Permit Term (FY23-27)		18.77	3%	\$ -		
Total Continued Obligations Next Two Years (FY23-24)		135.53	19%	\$ 181,200		
Total Continued Obligations Next Five Years (FY23-27)		338.82	48%	\$ 462,365		
Total Continued Obligations Permit Term (FY23-27)		1,047.13	148%	\$ 17,258,719		
Restoration for the New Permit						
Operational Programs^{3,5}						
VSS		-	0%			2022
VSS		-	0%			2023
VSS		-	0%			2024
VSS		-	0%			2025
VSS		-	0%			2026
SEPP	A	26.00	3%	\$ 40,000		2023
SEPP	A	26.00	3%	\$ 40,000		2024
SEPP	A	26.00	3%	\$ 40,000		2025
SEPP	A	26.00	3%	\$ 40,000		2026
SEPP	A	26.00	3%	\$ 40,000		2027
Operations Next Two Years (FY23-24) ⁴		26.00	3%	\$ 80,000		
Operations Next Five Years (FY23-27) ⁴		26.00	3%	\$ 200,000		
Operations Permit Term (FY23-27) ⁴		26.00	3%	\$ 200,000		

REST BMP TYPE ¹	BMP CLASS	IMPERVIOUS ACRES	% ISR GOAL	IMPLEMENTATION COSTS	IMPLEMENTATION STATUS	IMPLEMENTATION COMPLETION YEAR (FY)
Capital Projects^{3,5}						
PWET	S	20.48	2%	\$ 1,247,809	PLANNING	2023
STRE	A	13.38	1%	\$ 643,748	PLANNING	2023
FPU	A	0.27	0%	\$ 3,426	UNDER CONST	2023
FPU	A	0.29	0%	\$ 3,730	UNDER CONST	2023
FPU	A	0.62	0%	\$ 7,866	UNDER CONST	2023
RFP	A	21.23	2%	\$ 325,480	UNDER CONST	2023
STRE	A	21.94	2%	\$ 2,882,210	PLANNING	2023
PWED	S	8.60	1%	\$ 971,115	PLANNING	2023
PWED	S	5.12	0%	\$ 1,059,622	PLANNING	2023
PWED	S	7.99	1%	\$ 775,786	PLANNING	2023
PWED	S	56.97	6%	\$ 1,428,205	PLANNING	2023
STRE	A	91.66	9%	\$ 882,844	PLANNING	2023
STRE	A	66.30	6%	\$ 2,058,285	UNDER CONST	2023
STRE	A	1.97	0%	\$ 77,579	PLANNING	2023
STRE	A	3.65	0%	\$ 142,820	PLANNING	2023
FPU	A	0.14	0%	\$ 2,987	UNDER CONST	2024
FPU	A	1.35	0%	\$ 28,174	UNDER CONST	2024
FPU	A	4.45	0%	\$ 92,945	PLANNING	2024
FPU	A	2.07	0%	\$ 43,292	PLANNING	2024
FPU	A	6.04	1%	\$ 126,257	PLANNING	2024
FPU	A	0.60	0%	\$ 12,623	PLANNING	2024
FPU	A	1.75	0%	\$ 36,689	PLANNING	2024
FPU	A	2.37	0%	\$ 49,649	UNDER CONST	2024
RFP	A	11.29	1%	\$ 173,138	PLANNING	2024
FPU	A	1.74	0%	\$ 36,289	PLANNING	2024
FPU	A	0.52	0%	\$ 10,825	PLANNING	2024
RFP	A	2.67	0%	\$ 40,899	PLANNING	2024
RFP	A	0.58	0%	\$ 8,922	PLANNING	2024
STRE	A	9.22	1%	\$ 1,265,460	PLANNING	2025
PWED	S	28.84	3%	\$ 1,208,273	PLANNING	2025
PWED	S	19.96	2%	\$ 928,310	PLANNING	2025
PWED	S	14.38	1%	\$ 885,125	PLANNING	2025
PWED	S	20.02	2%	\$ 1,013,265	PLANNING	2025
STRE	A	13.80	1%	\$ 325,352	PLANNING	2025
FPU	A	0.63	0%	\$ 13,142	PLANNING	2025
FPU	A	2.04	0%	\$ 42,755	PLANNING	2025
FPU	A	1.15	0%	\$ 23,967	PLANNING	2025
FPU	A	2.50	0%	\$ 52,311	PLANNING	2025
FPU	A	5.65	1%	\$ 118,065	PLANNING	2025
FPU	A	0.84	0%	\$ 17,490	PLANNING	2025
FPU	A	1.77	0%	\$ 37,045	PLANNING	2025
OUT	A	14.40	1%	\$ -	PLANNING	2025
OUT	A	0.71	0%	\$ -	PLANNING	2025
RFP	A	3.53	0%	\$ 54,199	PLANNING	2025
RFP	A	0.35	0%	\$ 5,336	PLANNING	2025
RFP	A	1.57	0%	\$ 24,081	PLANNING	2025
PWED	S	27.03	3%	\$ 1,701,399	PLANNING	2026
PWET	S	7.99	1%	\$ 442,583	PLANNING	2026

REST BMP TYPE ¹	BMP CLASS	IMPERVIOUS ACRES	% ISR GOAL	IMPLEMENTATION COSTS	IMPLEMENTATION STATUS	IMPLEMENTATION COMPLETION YEAR (FY)
PWED	S	8.46	1%	\$ 420,000	PLANNING	2026
PWED	S	17.51	2%	\$ 907,411	PLANNING	2027
STRE	A	9.77	1%	\$ 2,221,639	PLANNING	2027
STRE	A	15.90	2%	\$ 846,664	PLANNING	2027
PWED	S	25.51	2%	\$ 1,287,290	PLANNING	2027
PWED	S	18.05	2%	\$ 1,257,903	PLANNING	2027
PWED	S	17.42	2%	\$ 1,025,760	PLANNING	2027
PWED	S	13.05	1%	\$ 756,972	PLANNING	2027
STRE	A	30.00	3%	\$ 1,126,503	PLANNING	2027
STRE	A	48.00	5%	\$ 1,860,000	PLANNING	2027
STRE	A	31.00	3%	\$ 1,176,701	PLANNING	2027
STRE	A	7.80	1%	\$ 500,000	PLANNING	2027
PWED	S	20.00	2%	\$ 1,528,451	PLANNING	2027
PWED	S	19.78	2%	\$ 724,976	PLANNING	2027
PWED	S	17.68	2%	\$ 973,759	PLANNING	2028
PWED	S	10.39	1%	\$ 532,198	PLANNING	2028
PWET	S	11.60	1%	\$ 609,228	PLANNING	2028
STRE	A	23.98	2%	\$ 954,395	PLANNING	2028
MSGW	E	0.40	0%	\$ 207,226	PLANNING	2028
STRE	A	6.80	1%	\$ 377,857	PLANNING	2030
PWED	S	10.42	1%	\$ 655,978	PLANNING	2030
PWED	S	6.50	1%	\$ 713,720	PLANNING	2030
PWED	S	9.30	1%	\$ 732,379	PLANNING	2030
PWED	S	9.10	1%	\$ 488,605	PLANNING	2030
STRE	A	87.38	9%	\$ 3,546,675	PLANNING	2030
PWED	S	13.60	1%	\$ 657,000	PLANNING	2030
FBIO	S	18.50	2%	\$ 243,260	PLANNING	2030
FBIO	S	9.25	1%	\$ 217,948	PLANNING	2030
FPU	A	85.00	8%	\$ 864,908	Planning	2023
Project Placeholder		-	0%	\$ 31,581	Planning	2023
FPU	A	90.00	9%	\$ 929,284	Planning	2024
Project Placeholder		-	0%	\$ 423,925	Planning	2024
Project Placeholder		-	0%	\$ 509,461	Planning	2025
FPU	A	86.00	8%	\$ 888,736	Planning	2025
FPU	A	100.00	10%	\$ 1,338,163	Planning	2026
Project Placeholder		-	0%	\$ 2,513,195	Planning	2026
Project Placeholder		-	0%	\$ 1,895,700	Planning	2027
Project Placeholder		-	0%	\$ 6,947,759	Planning	2028
Subtotal Capital Next Two Years (FY23-24)		531.04	52%	\$ 15,422,910		
Subtotal Capital Next Five Years (FY23-27)		1,175.67	114%	\$ 46,366,594		
Subtotal Capital Permit Term (FY23-27)		1,193.89	116%	\$ 46,726,191		

REST BMP TYPE ¹	BMP CLASS	IMPERVIOUS ACRES	% ISR GOAL	IMPLEMENTATION COSTS	IMPLEMENTATION STATUS	IMPLEMENTATION COMPLETION YEAR (FY)
Other^{3,5}						
			0%			
			0%			
Subtotal Other Next Two Years (FY23-24)		-	0%	\$ -		
Subtotal Other Next Five Years (FY23-27)		-	0%	\$ -		
Subtotal Other Permit Term (FY23-27)		-	0%	\$ -		
Total Next Two Years (FY23-24)		557.04	54%	\$ 15,502,910		
Total Next Five Years (FY23-27)		1,201.67	117%	\$ 46,566,594		
Total Permit Term (FY23-27)		1,219.89	119%	\$ 46,926,191		

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 **Notes**

1. Use BMP domains from MDE Geodatabase.
2. % ISR Complete compared to continued annual alternative ISR.
3. Insert additional rows as necessary.
4. Impervious Acres are the average for the time period, Implementation Costs are totaled.
5. % ISR Complete compared to ISR new permit.

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 2021	CURRENT YEAR FY 2022	PROJECTED YEAR 1 FY 2023	PROJECTED YEAR 2 FY 2024	PROJECTED YEAR 3 FY 2025	PROJECTED YEAR 4 FY 2026	PROJECTED YEAR 5 FY 2027	TOTAL ⁴
Operating Expenditures (costs)								
Street Sweeping Program	\$35,349	\$51,704	\$53,255	\$54,853	\$56,498	\$58,193	\$59,939	\$282,739
Inlet Cleaning	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
IDDE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Support of Capital Projects	\$1,033,809	\$686,003	\$736,216	\$758,302	\$781,052	\$804,483	\$828,618	\$3,908,671
Debt Service Payment ¹	\$1,556,716	\$1,876,266	\$1,198,070	\$2,913,813	\$3,330,993	\$3,330,747	\$2,212,782	\$12,986,406
Septic System Pumping	\$74,950	\$49,037	\$50,000	\$50,000	\$50,000	\$50,000	\$50,000	\$250,000
Other (please stipulate program expenditure) ²	-	-	-	-	-	-	-	\$0
Capital Expenditures (costs)³								
General Fund (Paygo)	\$4,596,950	\$180,000	\$376,200	\$180,000	\$876,927	\$0	\$0	\$1,433,127
WPR Fund (Paygo)		\$0	\$0	\$0	\$0	\$0	\$0	\$0
Debt Service (Bonds)	\$8,778,992	\$6,594,334	\$5,649,911	\$7,018,148	\$6,955,561	\$6,901,006	\$8,607,928	\$35,132,554
Grants & Partnerships	\$550,398	\$493,410	\$186,569	\$130,000	\$130,000	\$130,000	\$130,000	\$706,569
Other (please stipulate capital expenditure) ²	-	-	-	-	-	-	-	\$0
Subtotal operation and paygo:	\$7,297,774	\$2,843,009	\$2,413,741	\$3,956,968	\$5,095,470	\$4,243,424	\$3,151,339	\$18,860,942
Total expenditures:	\$16,627,164	\$9,930,754	\$8,250,221	\$11,105,116	\$12,181,031	\$11,274,430	\$11,889,267	\$54,700,065

Total ISRP costs except debt service:	\$41,713,659
Compare ISRP costs (except debt service) / total ISRP proposed actions for next five years:	88.89%
Total capital expenditures:	\$37,272,250
Compare total capital expenditures / total ISRP proposed actions capital costs for next five years:	79.77%

Check with MDE Geodatabase:

The total current FY 2022 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 2023 expenditure should be less than the combined total of the "OP_budget" and "CAP_budget" fields in the fiscal analyses table of the geodatabase.

Notes:

1. Debt service payments include debt service used to support capital projects from current and previous permit.
2. Insert additional rows as necessary.
3. Capital costs shown in FY 2021 include costs in FY 2021 and previous years, spent on capital projects attributed to the current permit. Total permit cycle includes the previous year.
4. Total cycle includes FY 2021 (costs associated with capital projects attributed to the current permit) to FY 2026

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 21	CURRENT YEAR FY 22	PROJECTED YEAR 1 FY 23	PROJECTED YEAR 2 FY 24	PROJECTED YEAR 3 FY 25	PROJECTED YEAR 4 FY 26	PROJECTED YEAR 5 FY 27	TOTAL NEXT 2-YEARS FY 23-24 ¹	TOTAL
Annual Revenue ² Appropriated for ISRP	\$16,627,164	\$9,930,754	\$8,250,221	\$11,105,116	\$12,181,031	\$11,274,430	\$11,889,267	\$19,355,337	\$54,700,065
Annual Costs towards ISRP ³	\$11,906,016	\$8,207,365	\$8,250,221	\$11,105,116	\$12,181,031	\$11,274,430	\$11,889,267	\$19,355,337	\$54,700,065

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

- Note
- 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 22.
 - 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 23 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.

SOURCE	PAST UP THRU ¹ FY 21	CURRENT YEAR FY 22	PROJECTED YEAR 1 FY 23	PROJECTED YEAR 2 FY 24	PROJECTED YEAR 3 FY 25	PROJECTED YEAR 4 FY 26	PROJECTED YEAR 5 FY 27	TOTAL
Paygo Sources								
Stormwater Remediation Fees (WPR Fund)	\$ 1,081	\$ 565	\$ 565	\$ 565	\$ 565	\$ 565	\$ 565	\$ 2,826
Miscellaneous Fees (WPR Fund)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
General Fund								\$ -
Other Funds 1 (General Funds CIP)	\$ 4,596,950	\$180,000	\$376,200	\$180,000	\$876,927	\$0	\$0	\$ 1,433,127
Other Funds 2 (General Funds Operating)**	\$ 6,488,700	\$ 5,628,629	\$5,797,488	\$5,971,413	\$6,150,555	\$6,335,072	\$6,525,124	\$ 30,779,651
Other Funds 3 (please stipulate funding source)								
Subtotal Paygo Sources	\$ 11,086,730	\$ 5,809,194	\$ 6,174,253	\$ 6,151,978	\$ 7,028,047	\$ 6,335,637	\$ 6,525,689	\$ 32,215,603
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 2021).								
County Transportation Bonds								\$ -
General Obligation Bonds	\$ 8,778,992	\$ 6,594,334	\$ 5,649,911	\$ 7,018,148	\$ 6,955,561	\$ 6,901,006	\$ 8,607,928	\$ 35,132,554
Revenue (Utility) Bonds								\$ -
State Revolving Loan Fund								\$ -
Public-private partnership (debt service)								\$ -
Subtotal Debt Service	\$ 8,778,992	\$ 6,594,334	\$ 5,649,911	\$ 7,018,148	\$ 6,955,561	\$ 6,901,006	\$ 8,607,928	\$ 35,132,554
Grants and Partnerships (no payment is expected)								
State funded grants	\$ 1,424,000	\$273,936	\$186,569	\$130,000	\$130,000	\$130,000	\$130,000	\$ 706,569
Federal funded grants	\$ -	\$ -	\$ 817,200	\$ -	\$ -	\$ -	\$ -	\$ 817,200
Public-private partnership (matched grant)								\$ -
Subtotal Grants and Partnerships	\$ 1,424,000	\$ 273,936	\$ 1,003,769	\$ 130,000	\$ 130,000	\$ 130,000	\$ 130,000	\$ 1,523,769
Total Annual Sources of Funds	\$ 21,289,722	\$ 12,677,465	\$ 12,827,933	\$ 13,300,126	\$ 14,113,608	\$ 13,366,643	\$ 15,263,617	\$ 68,871,926
Percent of Funds Directed Toward ISRP								

Compare total permit term paygo ISRP costs / subtotal permit term paygo sources: 59%
 Compare total ISRP expenditures / total permit term annual sources of funds: 79%

* 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.

Check with MDE Geodatabase:

The total sources related to WPR Funds in Current FY 22 should march the "WPR_Fund" field of the geodatabase.

Note

1. Previous accumulated revenue should be specifically designated for use for this current permit.

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.

REST BMP ID	REST BMP TYPE ¹	BMP CLASS ¹	NUM BMP	IMPERVIOUS ACRES	% ISRP COMPLETE	IMPLEMENTATION COST	BUILT DATE	IMPLEMENTATION STATUS	GENERAL COMMENTS
Obligations from Previous Permit That Must Be Continued or Met				770.00					
Operational Programs^{2,3}									
Street Sweeping	VSS	A	1	11.20	1.45%	\$ 23,591	6/30/2018	COMPLETE	
Street Sweeping	VSS	A	1	20.55	2.67%	\$ 41,096	6/30/2019	COMPLETE	
Street Sweeping	VSS	A	1	10.50	1.36%	\$ 21,000	6/30/2020	COMPLETE	
Street Sweeping	VSS	A	1	17.15	2.23%	\$ 35,349	6/30/2021	COMPLETE	Using County's VSS method approved by MDE for 2016-2021
Street Sweeping	VSS	A	1	10.00	1.30%	\$ 51,704	6/30/2022	COMPLETE	Costs reflect effort for continuation of VSS credit from previous permit
Septic Pumping	SEPP	A	1,178	35.34	4.59%	\$ 25,000	6/30/2018	COMPLETE	FY18
Septic Pumping	SEPP	A	1,664	49.92	6.48%	\$ 40,200	6/30/2019	COMPLETE	FY19
Septic Pumping	SEPP	A	2,047	61.41	7.98%	\$ 49,841	6/30/2020	COMPLETE	FY20
Septic Pumping	SEPP	A	2,365	47.30	6.14%	\$ 49,950	6/30/2021	COMPLETE	FY21
Septic Pumping	SEPP	A	2,246	44.92	5.83%	\$ 49,037	6/30/2022	COMPLETE	FY22
Subtotal Operations⁴			9505	62	40%	\$386,768			

REST BMP ID	REST BMP TYPE ¹	BMP CLASS ¹	NUM BMP	IMPERVIOUS ACRES	% ISRP COMPLETE	IMPLEMENTATION COST	BUILT DATE	IMPLEMENTATION STATUS	GENERAL COMMENTS
Capital Projects (Completed to Replace Annual Obligations)^{2,3}									
FR20ALN000266	OUT	A	1	0.16	0.00%	\$ 3,900	1/23/2020	COMPLETE	
FR17RST000027	PWED	S	1	12.42	0.16%	\$ 847,110	2/11/2020	COMPLETE	
FR17RST800007	FSND	S	3	4.39	0.06%	\$ 413,000	4/1/2020	COMPLETE	
FR17ALN000008	STRE	A	1	103.93	1.32%	\$ 42,000	5/1/2020	COMPLETE	
FR17RST000003	PWET	S	1	18.75	0.24%	\$ 1,739,652	6/2/2020	COMPLETE	
FR17ALN000004	STRE	A	1	3.98	0.05%	\$ 392,000	6/20/2020	COMPLETE	
FR21APY000153	FPU	A	1	0.91	0.01%	\$ 11,639	4/14/2021	COMPLETE	
FR17RST000038	MSGW	E	1	11.88	0.15%	\$ 1,262,880	4/15/2021	COMPLETE	
FR19RST000695	PWED	S	1	1.95	0.02%	\$ 387,810	7/1/2021	COMPLETE	
FR18RST000857	MSGW	E	1	14.78	0.19%	\$ 1,046,014	10/15/2021	COMPLETE	
FR18RST000054	PWED	S	1	6.38	0.08%	\$ 766,486	11/2/2021	COMPLETE	
FR20ALN000286	STRE	A	1	16.70	0.21%	\$ -	12/28/2021	COMPLETE	
FR18RST000020	MSGW	E	1	13.36	0.17%	\$ 1,460,860	4/15/2022	COMPLETE	
FR17APY000045	FPU	A	1	2.56	0.03%	\$ 57,486	5/2/2022	COMPLETE	
FR19APY000074	FPU	A	1	3.15	0.04%	\$ 65,917	5/2/2022	COMPLETE	
FR19APY000075	FPU	A	1	2.39	0.03%	\$ 50,040	5/2/2022	COMPLETE	
FR19APY000076	FPU	A	1	7.71	0.10%	\$ 161,221	5/2/2022	COMPLETE	
FR19APY000077	FPU	A	1	2.17	0.03%	\$ 45,464	5/2/2022	COMPLETE	
FR19APY000091	FPU	A	1	56.22	0.71%	\$ 1,202,923	5/2/2022	COMPLETE	
FR19APY000092	FPU	A	1	3.87	0.05%	\$ 59,384	5/2/2022	COMPLETE	
FR19APY000096	FPU	A	1	4.23	0.05%	\$ 92,525	5/2/2022	COMPLETE	
FR19APY000100	FPU	A	1	0.22	0.00%	\$ 2,828	5/2/2022	COMPLETE	
FR19APY000101	FPU	A	1	0.51	0.01%	\$ 6,497	5/2/2022	COMPLETE	
FR19APY000102	FPU	A	1	0.36	0.00%	\$ 4,633	5/2/2022	COMPLETE	
FR19APY000105	FPU	A	1	1.47	0.02%	\$ 18,710	5/2/2022	COMPLETE	
FR20APY000118	FPU	A	1	2.15	0.03%	\$ 27,322	5/2/2022	COMPLETE	
FR20APY000119	FPU	A	1	3.99	0.05%	\$ 111,358	5/2/2022	COMPLETE	
FR20APY000120	FPU	A	1	13.24	0.17%	\$ 326,349	5/2/2022	COMPLETE	
FR20APY000121	FPU	A	1	0.25	0.00%	\$ 5,288	5/2/2022	COMPLETE	
FR20APY000128	FPU	A	1	1.64	0.02%	\$ 34,300	5/2/2022	COMPLETE	
FR20APY000130	FPU	A	1	1.06	0.01%	\$ 22,237	5/2/2022	COMPLETE	
FR21APY000147	FPU	A	1	0.48	0.01%	\$ 9,947	5/2/2022	COMPLETE	
FR21APY000152	FPU	A	1	0.31	0.00%	\$ 3,896	5/2/2022	COMPLETE	

REST BMP ID	REST BMP TYPE ¹	BMP CLASS ¹	NUM BMP	IMPERVIOUS ACRES	% ISRP COMPLETE	IMPLEMENTATION COST	BUILT DATE	IMPLEMENTATION STATUS	GENERAL COMMENTS
FR22APY000176	RFP	A	1	33.70	0.43%	\$ 489,446	5/2/2022	COMPLETE	
FR22APY000177	RFP	A	1	53.58	0.68%	\$ 817,530	5/2/2022	COMPLETE	
FR22APY000187	RFP	A	1	5.28	0.07%	\$ 76,924	5/2/2022	COMPLETE	
FR22APY000189	RFP	A	1	2.65	0.03%	\$ 40,607	5/2/2022	COMPLETE	
FR22APY000190	RFP	A	1	1.26	0.02%	\$ 19,302	5/2/2022	COMPLETE	
FR22APY000196	RFP	A	1	0.95	0.01%	\$ 14,543	5/2/2022	COMPLETE	
FR22APY000203	RFP	A	1	7.11	0.09%	\$ 81,231	5/2/2022	COMPLETE	
FR22APY000204	RFP	A	1	37.52	0.48%	\$ 525,831	5/2/2022	COMPLETE	
FR17APY000034	FPU	A	1	0.79	0.01%	\$ 16,440	5/4/2022	COMPLETE	
FR17APY000036	FPU	A	1	5.50	0.07%	\$ 114,960	5/4/2022	COMPLETE	
FR17APY000038	FPU	A	1	9.99	0.13%	\$ 208,891	5/4/2022	COMPLETE	
FR17APY000039	FPU	A	1	1.46	0.02%	\$ 30,559	5/4/2022	COMPLETE	
FR17APY000040	FPU	A	1	3.33	0.04%	\$ 69,725	5/4/2022	COMPLETE	
FR17APY000043	FPU	A	1	30.29	0.39%	\$ 633,295	5/4/2022	COMPLETE	
FR17APY000044	FPU	A	1	4.96	0.06%	\$ 103,742	5/4/2022	COMPLETE	
FR17APY000046	FPU	A	1	2.48	0.03%	\$ 51,788	5/4/2022	COMPLETE	
FR17APY000058	RFP	A	1	2.00	0.03%	\$ 30,735	5/4/2022	COMPLETE	
FR17APY000059	FPU	A	1	5.48	0.07%	\$ 114,577	5/4/2022	COMPLETE	
FR18APY000061	FPU	A	1	10.54	0.13%	\$ 134,195	5/4/2022	COMPLETE	
FR19APY000088	FPU	A	1	2.68	0.03%	\$ 55,966	5/4/2022	COMPLETE	
FR20APY000114	FPU	A	1	0.85	0.01%	\$ 17,799	5/4/2022	COMPLETE	
FR20APY000115	FPU	A	1	1.54	0.02%	\$ 32,131	5/4/2022	COMPLETE	
FR21APY000149	FPU	A	1	4.01	0.05%	\$ 83,784	5/4/2022	COMPLETE	
FR21APY000150	RFP	A	1	0.86	0.01%	\$ 13,261	5/4/2022	COMPLETE	
FR21APY000151	FPU	A	1	3.45	0.04%	\$ 72,156	5/4/2022	COMPLETE	
FR21APY000156	FPU	A	1	1.97	0.03%	\$ 25,068	5/4/2022	COMPLETE	
FR21APY000157	FPU	A	1	0.56	0.01%	\$ 7,171	5/4/2022	COMPLETE	
FR21APY000158	FPU	A	1	0.60	0.01%	\$ 7,657	5/4/2022	COMPLETE	
FR21APY000159	FPU	A	1	0.24	0.00%	\$ 3,078	5/4/2022	COMPLETE	
FR21APY000160	FPU	A	1	1.93	0.02%	\$ 24,550	5/4/2022	COMPLETE	
FR21APY000161	FPU	A	1	0.88	0.01%	\$ 11,240	5/4/2022	COMPLETE	
FR22APY000178	RFP	A	1	18.66	0.24%	\$ 286,127	5/4/2022	COMPLETE	
FR22APY000179	RFP	A	1	6.06	0.08%	\$ 92,924	5/4/2022	COMPLETE	
FR22APY000180	RFP	A	1	5.22	0.07%	\$ 79,972	5/4/2022	COMPLETE	
FR22APY000183	RFP	A	1	11.49	0.15%	\$ 176,127	5/4/2022	COMPLETE	

REST BMP ID	REST BMP TYPE ¹	BMP CLASS ¹	NUM BMP	IMPERVIOUS ACRES	% ISRP COMPLETE	IMPLEMENTATION COST	BUILT DATE	IMPLEMENTATION STATUS	GENERAL COMMENTS
FR17APY000041	FPU	A	1	2.52	0.03%	\$ 52,633	5/12/2022	COMPLETE	
FR17APY000051	FPU	A	1	4.44	0.06%	\$ 68,013	5/12/2022	COMPLETE	
FR17APY000053	FPU	A	1	3.62	0.05%	\$ 46,058	5/12/2022	COMPLETE	
FR17APY000054	FPU	A	1	4.97	0.06%	\$ 63,207	5/12/2022	COMPLETE	
FR17APY000055	FPU	A	1	2.45	0.03%	\$ 31,176	5/12/2022	COMPLETE	
FR17APY000056	FPU	A	1	11.51	0.15%	\$ 146,486	5/12/2022	COMPLETE	
FR19APY000103	FPU	A	1	1.44	0.02%	\$ 18,285	5/12/2022	COMPLETE	
FR19APY000104	FPU	A	1	19.11	0.24%	\$ 243,200	5/12/2022	COMPLETE	
FR20APY000122	FPU	A	1	0.52	0.01%	\$ 6,672	5/12/2022	COMPLETE	
FR20APY000123	FPU	A	1	4.17	0.05%	\$ 53,098	5/12/2022	COMPLETE	
FR20APY000138	FPU	A	1	0.83	0.01%	\$ 10,583	5/12/2022	COMPLETE	
FR20APY000139	FPU	A	1	0.42	0.01%	\$ 5,324	5/12/2022	COMPLETE	
FR20APY000140	FPU	A	1	2.11	0.03%	\$ 26,856	5/12/2022	COMPLETE	
FR20APY000141	FPU	A	1	4.56	0.06%	\$ 58,002	5/12/2022	COMPLETE	
FR21APY000154	FPU	A	1	1.40	0.02%	\$ 17,767	5/12/2022	COMPLETE	
FR21APY000155	RFP	A	1	0.28	0.00%	\$ 2,581	5/12/2022	COMPLETE	
FR21APY000162	FPU	A	1	18.47	0.23%	\$ 235,026	5/12/2022	COMPLETE	
FR22APY000186	RFP	A	1	5.40	0.07%	\$ 50,360	5/12/2022	COMPLETE	
FR22APY000198	RFP	A	1	0.76	0.01%	\$ 11,605	5/12/2022	COMPLETE	
FR22APY000199	RFP	A	1	2.13	0.03%	\$ 8,352	5/12/2022	COMPLETE	
FR22APY000200	RFP	A	1	0.54	0.01%	\$ 5,063	5/12/2022	COMPLETE	
FR22APY000202	RFP	A	1	0.45	0.01%	\$ 4,231	5/12/2022	COMPLETE	
Subtotal Capital			92	689.5	9%	\$16,409,586			
Other (Completed to Replace Annual Obligations)^{2,3}									
REDE	OTH	A	7	8.59	1.12%	\$ -	12/31/2019	COMPLETE	
n/a	SEPC	A	1	0.39	0.05%	\$ -	6/30/2020	COMPLETE	
n/a	SEPC	A	1	0.23	0.03%	\$ -	6/30/2021	COMPLETE	
n/a	SEPC	A		-	0.00%	\$ -	6/30/2022	COMPLETE	No connections in FY22
n/a	SEPD	A	14	3.64	0.47%	\$ -	6/30/2020	COMPLETE	
n/a	SEPD	A	23	3.68	0.48%	\$ -	6/30/2021	COMPLETE	
n/a	SEPD	A	14	2.24	0.29%	\$ -	6/30/2022	COMPLETE	
Subtotal Other			60	18.8	2%	\$0			
Total Continued Obligations from Previous Permit			9,657	0.0	0%	\$16,796,354			

REST BMP ID	REST BMP TYPE ¹	BMP CLASS ¹	NUM BMP	IMPERVIOUS ACRES	% ISRP COMPLETE	IMPLEMENTATION COST	BUILT DATE	IMPLEMENTATION STATUS	GENERAL COMMENTS
Restoration for the New Permit				1027.00					
Operational Programs^{3,5}									
					0%				
					0%				
					0%				
					0%				
Subtotal Operations ⁴			0	0	0%	\$0			
Capital Projects^{3,5}									
FR22APY000191	RFP	A	1	0.32	0%	\$4,870.00	44685	COMPLETE	
FR22APY000192	RFP	A	1	1.87	0%	\$28,731.00	44685	COMPLETE	
FR17APY000037	FPU	A	1	14.92	0%	\$311,904.00	44693	COMPLETE	
FR17APY000052	FPU	A	1	1.11	0%	\$14,092.00	44693	COMPLETE	
					0%				
Subtotal Capital			4	18.22	2%	\$359,597			
Other^{3,5}									
					0%				
					0%				
					0%				
					0%				
					0%				
					0%				
Subtotal Other			0	0	0%	\$0			

REST BMP ID	REST BMP TYPE ¹	BMP CLASS ¹	NUM BMP	IMPERVIOUS ACRES	% ISRP COMPLETE	IMPLEMENTATION COST	BUILT DATE	IMPLEMENTATION STATUS	GENERAL COMMENTS
Total Additional Restoration			4	18	2%	\$359,597			

Check with MDE Geodatabase:

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

Notes:

1. Use BMP domains from MDE Geodatabase.
2. % ISR Complete compared to continued annual alternative ISR.
3. Insert additional rows as necessary.
4. Impervious Acres are the average for the time period, Implementation Costs are totaled.
5. % ISR Complete compared to ISR new permit.

Version 6-22-22

Code Description	Code
Ponds	
Micro-Pool Extended Detention Pond	PMED
Multiple Pond	PMPS
Pocket Pond	PPKT
Wet Extended Detention Pond	PWED
Wet Pond	PWET
Wetlands	
ED Shallow Wetland	WEDW
Pocket Wetland	WPKT
Pond Wetland System	WPWS
Shallow Marsh	WSHW
Infiltration	
Infiltration Basin	IBAS
Infiltration Trench	ITRN
Landscape Infiltration	MILS
Infiltration Berm	MIBR
Dry Well	MIDW
Filtering Systems	
Surface Sand Filter	FSND
Underground Filter	FUND
Perimeter Filter	PPER
Organic Filter	FORG
Pocket Filter	FPKT
Bioretention	FBIO
Submerged Gravel Wetland	MSGW
Micro-Bioretention	MMBR
Rain Garden	MRNG
Enhanced Filter	MENF
Open Channel Systems	
Dry Swale	ODSW
Wet Swale	OWSW
Bio-Swale	MSWB
Grass Swale	MSWG
Wet Swale	MSWW
Alternative Surfaces	
Green Roof - Extensive	AGRE
Green Roof - Intensive	AGRI
Permeable Pavement	APRP
Reinforced Turf	ARTF
Nonstructural Techniques	
Non-Rooftop Disconnect	NDNR
Rooftop Disconnect	NDRR
Sheetflow to Conservation Area	NSCA

Other Systems	
Rainwater Harvesting	MRWH
Other Practices	
Extended Detention Structure, Dry	XDED
Detention Structure (Dry Pond)	XDPD
Flood Management Area	XFLD
Oil Grit separator	XOGS
Other	OTH
Alternative BMP	
Mechanical Street Sweeping	MSS
Regenerative/Vacuum Street Sweeping (i.e., Advanced Street Sweeping)	VSS
Catch Basin Cleaning	CBC
Storm Drain Vacuuming (i.e., Storm Drain Cleaning)	SDV
Stream Restoration	STRE
Outfall Stabilization	OUT
Shoreline Management	SHST
Septic Connections to WWTP	SEPC
Septic Denitrification	SEPD
Septic Pumping	SEPP
Elimination of Discovered Nutrient Discharges from Grey Infrastructure	DGI
Floating Treatment Wetlands	XFTW
Impervious Surface Reduction (i.e., impervious to pervious)	IMPP
Impervious Surface to Forest (i.e., IMPP + FPU)	IMPF
Forestation on Pervious Urban (i.e., Forest Planting)	FPU
Conservation Landscaping	CLTM
Forest Conservation	FCO
Riparian Conservation Landscaping	RCL
Riparian Forest Planting	RFP
Street Trees	STCI
Urban Soil Restoration (Compacted Pervious Surfaces)	USRP
Urban Soil Restoration (Removed Impervious Surfaces)	USRI
Urban Tree Canopy (i.e., Pervious Turf to Tree Canopy over Turf)	UTC
Dry Channel Regenerative Step Pool Stormwater Conveyance System	SPSD

Class
S
S
S
S
S
S
S
S
S
S
S
E
E
E
S
S
S
S
S
S
E
E
E
E
S
S
E
E
E
E
E
E
E
E
E
E

--

E

--

S

S

S

S

--

A

A

A

A

A

A

A

A

A

A

A

A

A

A

A

A

A

A

A

A

A

A
