COUNTY COUNCIL OF ANNE ARUNDEL COUNTY, MARYLAND

Legislative Session 2022, Legislative Day No. 16

Resolution No. 37-22

Introduced by Ms. Rodvien, Chair (by request of the County Executive)

By the County Council, September 6, 2022

RESOLUTION approving Anne Arundel County's 2022 Financial Assurance Plan for 1 compliance with the National Pollutant Discharge Elimination Phase I Municipal Separate 2 Storm Sewer System Permit 3 4 WHEREAS, § 4-202.1(j)(1) of the Environment Article of the State Code requires 5 that every two years on the anniversary date of the issuance of a county's National 6 Pollutant Discharge Elimination Phase I Municipal Separate Storm Sewer System 7 Permit ("NPDES MS4 Permit"), a county shall file a financial assurance plan with 8 the Maryland Department of the Environment ("MDE") regarding compliance with 9 the county's NPDES MS4 Permit; and 10 11 WHEREAS, the anniversary date of the County's NPDES MS4 Permit is 12 November 5, 2022; and 13 14 15 WHEREAS, § 4-202.1(j)(3) of the Environment Article of the State Code provides that a county may not file a financial assurance plan with the MDE until the local 16 governing body of the county holds a public hearing on the financial assurance plan 17 and approves the financial assurance plan; and 18 19 WHEREAS, § 4-202.1(j)(1) of the Environment Article of the State Code requires 20 that a financial assurance plan shall clearly identify: (1) actions that will be required 21 by the county to meet the requirements of the NPDES MS4 Permit; (2) projected 2.2 annual and five-year costs for the county to meet the impervious surface restoration 23 plan requirements of its NPDES MS4 Permit; (3) projected annual and five-year 24 revenues or other funds that will be used to meet the costs for the county to meet 25 the impervious surface restoration plan requirements of its NPDES MS4 Permit; 26 (4) any sources of funds that will be utilized by the county to meet the requirements 27 of its NPDES MS4 Permit; and (5) specific actions and expenditures that the county 28 implemented in the previous fiscal years to meet its impervious surface restoration 29 plan requirements under its NPDES MS4 Permit; and 30 31 WHEREAS, § 4-202.1(j)(4)(iii) of the Environment Article of the State Code 32 provides that funding in the financial assurance plan is sufficient if it demonstrates 33 that the county has dedicated revenues, funds, or sources of funds to meet, for the 34 two-year period immediately following the filing date of the financial assurance 35 plan, 100% of the projected costs of compliance with the impervious surface 36 restoration plan requirements of the county under its NPDES MS4 Permit over that 37 two-year period; and 38

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WHEREAS, Anne Arundel County's 2022 Financial Assurance Plan, which addresses the requirements of § 4-202.1(j) of the Environment Article of the State Code has been prepared at the direction of and approved by the County Executive and is attached hereto as Exhibit A, and a certified copy of the "Anne Arundel County's 2022 Financial Assurance Plan" shall be permanently kept on file at the Department of Public Works; now, therefore, be it

7

8 *Resolved by the County Council of Anne Arundel County, Maryland,* That Anne 9 Arundel County's 2022 Financial Assurance Plan, attached hereto as Exhibit A, is hereby 10 approved; and be it further

11

Resolved, That a copy of this Resolution be sent to County Executive Steuart Pittman and to Stewart Comstock, P.E. Chief, Program Review Division, Stormwater, Dam Safety, and Flood Management Program, Water and Science Administration, Maryland Department of the Environment.

READ AND PASSED this 3rd day of October, 2022.

By Order:

Laura Corby

Administrative Officer

I HEREBY CERTIFY THAT RESOLUTION NO. 37-22 IS TRUE AND CORRECT AND DULY ADOPTED BY THE COUNTY COUNCIL OF ANNE ARUNDEL COUNTY.

Live DB Rodine

Lisa D. B. Rodvien Chair

Anne Arundel County Financial Assurance Plan to Meet the Requirements of the NPDES Municipal Separate Storm Sewer System (MS4) Permit

July 1, 2022

Executive Summary

Introduction

Anne Arundel County's NPDES MS4 permit, issued November 5, 2021, requires that the County complete restoration efforts to achieve the equivalent of treating 2,998 acres of impervious surfaces not previously restored to the maximum extent practicable. In addition, the County must continue the same level of programmatic implementation for its annual alternative control practices, equivalent to 199 acres of impervious surface restored, to maintain compliance with the prior MS4 permit's restoration requirement.

The submission of Anne Arundel County's Financial Assurance Plan (FAP), as well as the submission of the Bureau of Watershed Protection and Restoration (BWPR) annual report, is required for compliance with the Maryland Annotated Code, Environment, § 4-202.1. The attached FAP is submitted to show that the County has the financial means to achieve the permit requirements. This FAP addresses the activities completed by the County's BWPR from FY21 through FY22, and the planned and programmed activities from FY23 through FY27.

The completion and submission of the FAP is required every two years. This, the first FAP under the County's new MS4 permit, is to be submitted on or before the December 31, 2022 due date for the MS4 permit annual progress report.

According to the requirements for completing the attached FAP, all restoration activities completed by June 30, 2022 are classified as completed and their actual costs are reported. These activities include a variety of projects with a variety of funding sources, as described below.

- Capital improvement projects (CIP) from the BWPR class that were completed in FY21 and FY22 were funded by Watershed Protection and Restoration Fund (WPRF) bonds. Additionally, supplemental funding was provided for various projects through grants and a select number of shoreline stabilization projects were funded through general fund County bonds.
- Street sweeping and inlet cleaning were funded out of the BWPR operating budget.

Other restoration actions include septic system connections to water reclamation facilities (WRFs), septic system upgrades to denitrification systems, and restoration projects completed by non-governmental organizations (NGO). Septic system connections to WRFs and septic system upgrades to denitrification systems are funded through Bay Restoration Fund (BRF) grants. Funding for restoration projects completed by NGOs include both County WPRF funds made available through the ongoing BWPR grant program, and grant funding to the NGOs from other

entities resulting in no cost to the County. Private individuals or communities also funded restoration projects. Comments are included in the FAP to denote the funding sources for completed projects where the implementation costs are noted as \$0.

Projections are also made for programmed projects that will be completed by June 30, 2027 (end of FY27). Programmed projects not completed by June 30, 2022 are classified as either under construction, planned, or proposed. Projects considered "under construction" were in the construction phase as of the end of FY22, and are anticipated to be complete at the end of FY23. "Planned projects" are those activities where a design contract has been issued by June 30, 2022. "Proposed projects" include restoration activities that had been identified by County project managers but design work has not been initiated. Projections are also included for the ongoing operating activities and other restoration actions, as well as the addition of septic pumping performed by local contractors. Septic pumping can provide credit for the County and requires no general fund or WPRF fund expenditures.

Included in the FAP are cost and revenue information. Costs identified include the operating costs for the BWPR, debt service on WPRF bonds, and the County's BWPR grant program to fund restoration projects completed by NGOs for which the County takes equivalent impervious treatment credit. Actual costs are reported for FY21 through FY22, and budgeted costs are included for FY23 through FY27. These budgeted costs were obtained from the County Budget Office's WPRF Affordability Model and Capital Budget Program.

Sources of Funds to Meet the MS4:

A variety of funding sources (revenue) are recognized in this FAP. WPRF revenues include actual stormwater remediation fee revenue amounts for FY21 through FY22, and projected revenues for FY23 through FY27. These revenue projections assume no stormwater remediation fee increases over this time frame and include an adjustment for a 1% increase in the collection of stormwater remediation fees due to development.

Grant sources include State-funded grants for CIP restoration projects (e.g., MD DNR Chesapeake Bay Trust Fund) as well as BRF grants. BWPR is actively pursuing additional grant opportunities for future projects, and it is anticipated that the use of grant funds will allow for the implementation of CIP restoration projects that are not currently included as part of this FAP.

The attached FAP indicates that approximately 3,754 acres, or 125%, of the County's restoration will be completed by the end of FY26, the end of the current NPDES MS4 permit term. The restoration completed in exceedance of the County's goal is due in large part to the accrual of credit while the County's previous permit was administratively continued through FY21.

Projected Annual and 5-Year Costs and Revenues to Meet the MS4:

Total program projected restoration and MS4 compliance activity costs through FY27 are \$477 million, and \$486 million in revenue is expected, which demonstrates that the funding sources enumerated in the FAP are adequate to meet the permit requirements, treating approximately 3,470 impervious acres, which is estimated to be sufficient to cover the restoration requirements of the current MS4 permit and beyond.

MS4 Informat	ion
Jurisdiction	Anne Arundel County
Contact Name	Erik Michelsen
Phone	410-222-7520
Address	2662 Riva Road
City	Annapolis
State	MD
Zip	21401
Email	pwmich20@aacounty.org
Continued Annual Alternative ISR (ac)	199
Required ISR New Permit (ac)	2,998
Total ISR (ac)	3,197
Permit Num	20-DP-3316 MD0068306
Permit Period (FY)	2022-2027
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. Stormrwater Restoration.

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.

6%

rnative ISR (ac) 199	Continued Annual Alternative ISR (ac)	199
ew Permit (ac): 2,998	Required ISR New Permit (ac):	2,998
Total ISR (ac): 3,197	Total ISR (ac):	3,197

REST BMP TYPE ¹	BMP CLASS	IMPERVIOUS ACRES	% ISR GOAL	IMPLEMENTATION COSTS	IMPLEMENTATION STATUS	IMPLEMENTATION COMPLETION YEAR (FY)
Obligations from Previous Pe	rmit That Must I	Be Continued or	Met			
Operational Programs ^{2,3}				No. 1		
CBC	A	37.5	19%	\$291,353	PLANNING	2023
CBC	A	37.5	19%	\$300,093	PROPOSED	2024
CBC	A	37.5	19%	\$309,096	PROPOSED	2025
CBC	A	37.5	19%	\$318,369	PROPOSED	2026
CBC	A	37.5	19%	\$327,920	PROPOSED	2027
SEPP	A	124.3	62%	\$0	PLANNING	2023
SEPP	A	124.3	62%	\$0	PROPOSED	2024
SEPP	A	124.3	62%	\$0	PROPOSED	2025
SEPP	A	124.3	62%	\$0	PROPOSED	2026
SEPP	A	124.3	62%	\$0	PROPOSED	2027
VSS	A	37.6	19%	\$372,313	PLANNING	2023
VSS	A	37.6	19%	\$383,483	PROPOSED	2024
VSS	A	37.6	19%	\$394,987	PROPOSED	2025
VSS	A	37.6	19%	\$406,837	PROPOSED	2026
VSS	A	37.6	19%	\$419,042	PROPOSED	2027
Operations Next Two Years						
(FY23-24) ⁴		199	100%	\$1,347,242		
Operations Next Five Years (FY23-27) ⁴		199	100%	\$3,523,493		
Operations Permit Term (FY22-26) ^{4,6}		249	125%	\$4,060,997		
Capital Projects (Completed t	o Replace Annua	al Obligations) ^{2,}	3			
		0	0%			
Subtotal Capital Next Two Years (FY23-24)		0	0%	\$0		
Subtotal Capital Next Five Years (FY23-27)		0	0%	\$0		
Subtotal Capital Permit Term		0	0%	\$0		
(FY22-26) ⁶			0%	ŞU		
Other (Completed to Replace	Annual Obligati	ons) ^{2,3}				
		0	0%			
Subtotal Other Next Two Years (FY23-24)		0	0%	\$0		
Subtotal Other Next Five Years (FY23-27)		0	0%	\$0		

Subtotal Other Permit Term (FY22-26) ⁶		0	0%	\$0		
Fotal Continued Obligations Next Two Years (FY23-24)		199	100%	\$1,347,242		
Total Continued Obligations Next Five Years (FY23-27)		199	100%	\$3,523,493		
Total Continued Obligations Permit Term (FY22-26) ⁶		249	125%	\$4,060,997		
Restoration for the New Permit	and the	COLUMN TO DAY	A CALLER AND			
Operational Programs ^{3,5}	15.62.14					
		0	0%			
Operations Next Two Years (FY23-24) ⁴		0	0%	\$0		
Operations Next Five Years (FY23-27) ⁴		0	0%	\$0		
Operations Permit Term (FY22-26) ^{4,6}		0	0%	\$0		
Capital Projects ^{3,5}			1.20	2 1 2 M - 1		
PWED	S	45.85	1.529%	\$3,923,270	UNDER CONST	2023
SEPC	A	113.50	3.786%	\$1,705,707	UNDER CONST	2023
FSND	S	25.94	0.865%	\$1,505,082	PLANNING	2023
IBAS	S	19.44	0.648%	\$1,951,031	PLANNING	2023
IMPP	A	0.02	0.001%	\$1,123	PLANNING	2023
MIBR	E	7.72	0.258%	\$1,261,438	PLANNING	2023
MSWG	E	0.13	0.004%	\$2,292,709	PLANNING	2023
PWET	S	5.07	0.169%	\$687,785	PLANNING	2023
SHST	A	12.95	0.432%	\$1,995,443	PLANNING	2023
SPSC	A	48.29	1.611%	\$11,917,917	PLANNING	2023
STRE	A	146.50	4.887%	\$5,683,024	PLANNING	2023
WEDW	5	18.13	0.605%	\$249,653	PLANNING	2023
WPWS	S	22.76	0.759%	\$2,064,584	PLANNING	2023
OUT	А	88.04	2.937%	\$3,056,516	PLANNING	2024
PWED	S	60.90	2.031%	\$762,491	PLANNING	2024
SPSC	A	65.85	2.196%	\$2,342,520	PLANNING	2024
STRE	A	353.01	11.775%	\$3,700,579	PLANNING	2024
OUT	A	0.39	0.013%	\$60,119	PLANNING	2025
PWED	S	22.51	0.751%	\$1,827,623	PLANNING	2025
SPSC	A	44.95	1.499%	\$1,317,347	PLANNING	2025
STRE	A	461.55	15.395%	\$18,159,995	PLANNING	2025
WEDW	S	40.20	1.341%	\$1,170,466	PLANNING	2025
STRE	A	410.95	13.707%	\$15,958,395	PLANNING	2026
OUT	А	40.46	1.350%	\$3,012,945	PROPOSED	2027
STRE	A	1150.83	38.387%	\$25,419,030	PROPOSED	2027
SPSC	A	7.43	0.248%	\$553,292	PROPOSED	2028
STRE	A	945.69	31.544%	\$50,783,262	PROPOSED	2028
Subtotal Capital Next Two Years (FY23-24)		1,034	34%	\$45,100,873		

Subtotal Capital Next Five Years (FY23-27)		3,206	107%	\$112,026,794		
Subtotal Capital Permit Term (FY22-26) ⁶		3,428	114%	\$133,673,331		
Other ^{3,5}						
SHST	S	100	3%	\$0	PLANNING	2023
SHST	5	35.02	1%	\$0	PLANNING	2024
SH5T	S	14.33	0%	\$0	PLANNING	2024
SHST	S	8.2	0%	\$0	PLANNING	2025
SPSC	S	80.34	3%	\$0	PLANNING	2026
STRE	S	26.35	1%	\$0	PLANNING	2026
Subtotal Other Next Two Years (FY23-24)		149	5%	\$0		
Subtotal Other Next Five Years (FY23-27)		264	9%	\$0		
Subtotal Other Permit Term (FY22-26) ⁶		326	11%	\$0		
Total Next Two Years (FY23-24)		1,183	39%	\$45,100,873		
Total Next Five Years (FY23-27)		3,470	116%	\$112,026,794		
Total Permit Term (FY22-26) ⁶		3,754	125%	\$133,673,331		

Check with MDE Geodatabase:

Type, class, impervious acres, implementation cost and implementation status should match the various geodatabase tables for BMPs 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.

Anne Arundel County Notes

Version 6-22-22

6. Permit Term includes FY21 projects and credit completed after attainment of the County's 4th Generation MS4 Permit ISR goal, as shown in tab "Comp Actions 4-202.1(j)(1)(i)5".

Resolution No. 37-22 EXHIBIT A

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 age in Sever System Permit.

	PREVIOUS	CURRENT	PROJECTED	PROJECTED	PROJECTED	PROJECTED	PROJECTED	TOTAL
	YEAR	YEAR	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	PERMIT CYCLE ⁴
DESCRIPTION	FY 2021	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	
Operating Expenditures (costs)								
Street Sweeping Program	\$338,087	\$361,469	\$372,313	\$383,483	\$394,987	\$406,137	\$419,042	\$2,256,476
Inlet Cleaning	\$259,084	\$282,867	\$291,353	\$300,093	\$309,096	\$318,369	\$327,920	\$1,760,862
IDDE	\$92,719	\$78,529	\$76,568	\$76,568	\$76,568	\$76,568	\$79,586	\$477,519
Support of Capital Projects	\$11,505,110	\$11,822,935	\$11,417,966	\$11,638,568	\$11,865,321	\$12,097,104	\$12,328,879	\$70,347,005
Debt Service Payment ¹	\$8,567,100	\$10,445,000	\$11,455,600	\$13,526,443	\$15,818,619	\$18,381,739	\$21,251,817	\$78,194,501
Other (please stipulate program expenditure) ²	-	-	-	-	-	-	-	\$0
Capital Expenditures (costs) ³					1			
General Fund (Paygo)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
WPR Fund (Paygo)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Debt Service	\$25,000,000	\$33,000,000	\$36,000,000	\$39,000,000	\$45,000,000	\$50,000,000	\$55,000,000	\$228,000,000
Grants & Partnerships	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$1,000,000	\$6,000,000
Other (please stipulate capital expenditure) ²	-	-	-	-	-			\$0
Subtotal operation and paygo:	\$20,762,100	\$22,990,800	\$23,613,800	\$25,925,155	\$28,464,591	\$31,279,917	\$34,407,244	\$153,036,363
Total expenditures:	\$46,762,100	\$56,990,800	\$60,613,800	\$65,925,155	\$74,464,591	\$82,279,917	\$90,407,244	\$387,036,363

Total ISRP costs except debt service: \$308,841,862

Compare ISRP costs (except debt service) / total ISRP proposed actions for permit term:

Total capital expenditures: \$234,000,000

231%

Compare total capital expenditures / total ISRP proposed actions capital costs for permit term: 175%

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 permit cycle includes FY 2021 (costs associated with capital projects attributed to the current permit) to FY 2026

Resolution No. 37-22 EXHIBIT A

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 place New Anterna under the National Pollutant Discharge Elimination System Phase I Municipal Separate Storm Sewer System Permit.

	PREVIOUS YEAR	CURRENT YEAR	PROJECTED YEAR 1	PROJECTED YEAR 2	PROJECTED YEAR 3	PROJECTED YEAR 4	PROJECTED YEAR 5	TOTAL NEXT 2-YEARS	TOTAL			
DESCRIPTION	FY 2021	FY 22	FY 23	FY 24	FY 25	FY 26	FY 27	FY 23-24 ¹				
Annual Revenue												
Appropriated for												
ISRP	\$53,362,247	\$64,442,985	\$65,302,443	\$67,054,874	\$73,443,728	\$78,760,753	\$84,028,981	\$132,357,317	\$486,396,011			
Annual Costs												
towards ISRP ³	\$46,762,100	\$56,990,800	\$60,613,800	\$65,925,155	\$74,464,591	\$82,279,917	\$90,407,244	\$126,538,955	\$477,443,607			
	Compare revenue appropriated / annual costs: 105%											

Compare revenue appropriated / annual costs:

100% **Reporting Criteria:**

Note

1. 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.

2. 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 XX at the time of FAP reporting.

3. See table of ISRP Cost.

EXHIBIT A

Page No. 9 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.

		PREVIOUS YEAR		CURRENT YEAR	F	PROJECTED YEAR 1		PROJECTED YEAR 2		PROJECTED YEAR 3	P	PROJECTED YEAR 4	F	PROJECTED YEAR 5		TOTAL PERMIT
SOURCE		FY 2021		FY 22		FY 23		FY 24		FY 25		FY 26		FY 27		CYCLE
Paygo Sources					12											
Stormwater Remediation Fees (WPR Fund)	\$	23,619,255	\$	23,906,821	\$	24,033,400		\$24,273,741		\$24,516,478		\$24,761,643		\$25,009,259	\$	145,111,338
Miscellaneous Fees (WPR Fund)		\$-		\$-		\$-		\$-		\$-		\$-		\$-	\$	2
General Fund	\$	2,874,354	\$	3,979,639	\$	1,995,443		\$-		\$-		\$-		\$-	\$	8,849,436
Investment Income	\$	132,468	\$	108,512	\$	443,600		\$861,133		\$827,250		\$749,110		\$619,722	\$	3,122,073
Interfund Recoveries	\$	909,170	\$	720,313	\$	1,080,000	\$	1,170,000	\$	1,350,000	\$	1,500,000	\$	1,650,000	\$	6,729,483
Other Funds 3 (please stipulate funding source)		\$-		\$-		\$-		\$-		\$-		\$-		\$-	\$	-
Subtotal Paygo Sources	\$	27,535,247	\$	28,715,285	\$	27,552,443	\$	26,304,874	\$	26,693,728	\$	27,010,753	\$	27,278,981	\$	163,812,330
Debt Service (paygo sources will be used to pay off o	lebt	service. Note	e tha	at previous ap	prop	riations for d	ebt	service used for	or IS	RP is listed in I	Y 20	021).				
County Transportation Bonds		\$-		\$-		\$-		\$-		\$-		\$-		\$-	\$	÷
General Obligation Bonds		\$-		\$-		\$-		\$-		\$-		\$-		\$-	\$	
Revenue (WPRF/BWPR) Bonds	\$	25,000,000	\$	33,000,000	\$	36,000,000	\$	39,000,000	\$	45,000,000	\$	50,000,000	\$	55,000,000	\$	228,000,000
State Revolving Loan Fund		\$-		\$-		\$-		\$-		\$-		\$-		\$-	\$	5
Public-private partnership (debt service)		\$-		\$-		\$-		\$-		\$-		\$-		\$-	\$	-
Subtotal Debt Service	\$	25,000,000	\$	33,000,000	\$	36,000,000	\$	39,000,000	\$	45,000,000	\$	50,000,000	\$	55,000,000	\$	228,000,000
Grants and Partnerships (no payment is expected)														1.1.1.1.1.1.1	÷.,	
State funded grants	\$	827,000	\$	2,727,700	\$	1,750,000	\$	1,750,000	\$	1,750,000	\$	1,750,000	\$	1,750,000	\$	10,554,700
Federal funded grants		\$-		\$-		\$-		\$-		\$-		\$-		\$-	\$	-
Public-private partnership (matched grant)		\$-		\$-		\$-		\$-		\$-		\$-		\$-	\$	
Subtotal Grants and Partnerships	\$	827,000	\$	2,727,700	\$	1,750,000	\$	1,750,000	\$	1,750,000	\$	1,750,000	\$	1,750,000	\$	10,554,700
Total Annual Sources of Funds	\$	53,362,247	\$	64,442,985	\$	65,302,443	\$	67,054,874	\$	73,443,728	\$	78,760,753	\$	84,028,981	\$	250,162,549
Percent of Funds Directed Toward ISRP																

Compare total permit term paygo ISRP costs / subtotal permit term paygo sources: 93%

Compare total ISRP expenditures / total permit term annual sources of funds: 92%

* WPR Fund: Watershed Protection and Restoration Fund.

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(])[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

REST BMP ID	REST BMP TYPE ¹	BMP	NUM	IMPERVIOUS	% ISRP	IMPLEMEN-	BUILT DATE	IMPLEMENTATION	GENERAL COMMENTS
1182		CLASS ¹	BMP	ACRES	COMPLETE	TATION COST		STATUS	
Obligations from Previous Pr	ermit That Must Be Contin	ued or Met		189					
Operational Programs2,3									
	CBC	A	167	35.1	18%	\$302,166	06/30/2021	COMPLETE	Assumes 50% organic and 50% inorganic material collected.
	CBC	A	75	15.8	8%		06/30/2022	COMPLETE	Full implementation for FY22 not available at time of FAP compilation; full credit will be included in the MS4 Annual Report and
						\$282,867			geodatabase. Assumes 50% organic and 50% inorganic material collected.
	SEPP	A	19,323	386.5	194%	\$0		COMPLETE	Funding Source: Private septic tank owners.
	SEPP	A	18,864	377.3	190%		06/30/2022	COMPLETE	Full implementation for FY22 not available at time of FAP compilation; full credit will be included in the MS4 Annual Report and
1			1 1						geodatabase.
						\$0			Funding Source: Private septic tank owners.
	VSS	A	256	39.9	20%	\$337,964		COMPLETE	256 lane miles swept.
	VSS	A	256	39.9	20%	\$361,469	06/30/2022	COMPLETE	256 lanes miles swept.
Subtotal Operations			38941	447	225%	\$1,284,466			
Capital Projects (Completed	to Replace Annual Obligat	lons) ^{2,3}	· ·						
			0	0	0%				
Subtotal Capital			0	0	0%	\$0			
Other (Completed to Replace	e Annual Obligations) ^{2,3}								
	1		0	0	0%				
Subtotal Other			0	0	0%	\$0			
Total Continued Obligations	from Previous Permit	1	38,941	447	225%	\$1,284,466			
Restoration for the New Perr				2,998					
Operational Programs ^{3,5}									
	1		0	0.00	0%				
Subtotal Operations ⁴			0	0	0%	\$0			
	4		<u> </u>			*-			
Capital Projects ^{3,5} AA18R5T000028	FBIO	S	1	5.08	0.169%	\$903,159	6/6/2021	COMPLETE	
AA16RST000028	FSND	s	1		0.169%	\$558,232	1/29/2021	COMPLETE	
AA10KS1000003	IMPP	A	1		0.213%	\$358,252	4/30/2021	COMPLETE	
AA17RST000002	ITRN	s	1	2.64	0.002%	\$652,419	1/5/2022	COMPLETE	
AA21RST000012	MIBR	E	1		0.004%	\$5,265	4/30/2021	COMPLETE	
AA21RST000013	MIBR	E	1	0.11	0.004%	\$7,521	4/30/2021	COMPLETE	
AA21RST000014	MIBR	E	1	0.30	0.004%	\$24,068	4/30/2021	COMPLETE	
AA20R5T000008	MRNG	E	1		0.004%	\$6,300	9/25/2020	COMPLETE	
AA20R5T000009	MRNG	E	1	0.06	0.002%	\$3,150	9/25/2020	COMPLETE	
AA20RST000010	MRNG	E	1	11	0.006%	\$9,450	9/25/2020	COMPLETE	
AA19R5T000013	PWED	s	1	19.34	0.645%	\$491,092	5/4/2021	COMPLETE	
AA19R5T000014	PWED	S	1		1.476%	\$1,123,368	5/4/2021	COMPLETE	
AA18ALN000012	SHST	A	1	31.93	1.065%	\$231,709	8/27/2020	COMPLETE	
AA21ALN000013	SHST	A	1		0.610%	\$133,105	8/27/2020	COMPLETE	
AA20ALN000015	SHST	A	1		0.600%	\$129,034	10/27/2020	COMPLETE	
AA20ALN000006	SHST	A	1	134.33	4.481%	\$2,078,677	12/1/2020	COMPLETE	
AA20ALN000007	SHST	A	1	47.36	1.580%	\$733,023	12/1/2020	COMPLETE	
AA20ALN000014	SHST	A	1	1.59	0.053%	\$32,277	2/23/2021	COMPLETE	
AA19ALN000027	SHST	A	1	4.18	0.139%	\$639,981	3/21/2021	COMPLETE	
AA21ALN000004	SHST	A	1		0.202%	\$298,868	4/30/2021	COMPLETE	
AA20ALN000008	SHST	A	1		0.164%	\$751,882	6/30/2021	COMPLETE	
AA20ALN000017	SHST	A	1	110.12	3.673%	\$2,369,719	11/16/2021	COMPLETE	
AA20ALN000018	SHST	A	1	26.78	0.893%	\$2,002,664	12/31/2021	COMPLETE	
AA20ALN000016	SHST	A	1	30.05	1.002%	\$647,113	12/31/2021	COMPLETE	
AA17ALN000017	SHST	A	1		0.342%	\$2,070,593	2/28/2022	COMPLETE	
AA17ALN000008	SHST	A	1	9.78	0.326%	\$1,909,045	2/28/2022	COMPLETE	
AA18RST000014	SPSC	A	1	71.32	2.379%	\$2,178,172	8/21/2020	COMPLETE	Project has Protocol 1 or 5.
AA19RST000007	SPSC	A	1	1.81	0.060%	\$23,084	12/10/2020	COMPLETE	Project has Protocol 1 or 5.
AA19RST000008	SPSC	A	1	111.39	3.715%	\$1,420,606	12/10/2020	COMPLETE	Project has Protocol 1 or 5.
AA20RST000007	SPSC	A	1	1.02	0.034%	\$66,870	2/1/2021	COMPLETE	
AA19RST000004	SPSC	A	1	24.89	0.830%	\$383,915	2/7/2021	COMPLETE	Project has Protocol 1 or 5.
AA21RST000015	SPSC	A	1		0.032%	\$34,729	5/24/2021	COMPLETE	
AA16RST000069	SPSC	A	1	5.05	0.168%	\$722,643	5/30/2021	COMPLETE	

otal Additional Restoration			278	1,476	49%	\$50,078,512			
ubtotal Other			224	62	2%	\$0			
AA21ALN000029	STRE	A	1	6.00	0.2001%	\$0	6/24/2021	COMPLETE	Funding Source: Private developer.
AA21RST000006	SPSC	A	1	0.66	0.0220%	\$0	12/31/2021	COMPLETE	Funding Source: Alliance for the Chesapeake Bay (NGO).
AA21RST000005	SPSC	A	1	0.70	0.0233%	\$0	12/31/2021	COMPLETE	Funding Source: Alliance for the Chesapeake Bay (NGO).
AA21ALN000010	SHST	A	1	11.06	0.3689%	\$0	8/3/2021	COMPLETE	Funding Source: Alliance for the Chesapeake Bay (NGO).
	SEPD	A	191	30.70		\$0	6/30/2021		geodatabase, showing FY21 only. Funding Source: Bay Restoration Fund Grant; private homeowners.
					1.0240%			COMPLETE	Aggregated records. FY22 data not available at time of FAP compilation; full credit will be included in the MS4 Annual Report and
	SEPC	A	25	8.10		\$0	6/30/2021		Funding Source: Bay Restoration Fund Grant; private homeowners.
									geodatabase, showing FY21 only.
					0.2702%			COMPLETE	Aggregated records. FY22 data not available at time of FAP compilation; full credit will be included in the MS4 Annual Report and
AA21ALN000022	OUT	A	1	2.79	0.0931%	\$0	6/1/2021	COMPLETE	Funding Source: Anne Arundel Soil Conservation District.
AA19RST000019	MSGW	E	1	0.95	0.0317%	\$0	7/9/2020	COMPLETE	Funding Source: Private waterfront community.
AA19RST000018	MSGW	E	1	0.40	0.0133%	\$0	7/9/2020	COMPLETE	Funding Source: Private waterfront community.
AA21RST000004	MMBR	E	1	0.34	0.0113%	\$0	6/30/2021	COMPLETE	Funding Source: Severn Riverkeeper Program (NGO).
Other ^{3,5}				100		100 100 1000			
ubtotal Capital			54	1,414	47%	\$50,078,512			
AA16RST000060	WSHW	S	1	12.44	0.415%	\$741,412	9/14/2020	COMPLETE	
AA19RST000009	WEDW	S	1	1.78	0.059%	\$22,701	12/10/2020	COMPLETE	
AA19ALN000008	STRE	A	1	13.70	0.457%	\$1,313,396	11/28/2023	COMPLETE	
AA19ALN000020	STRE	A	1	19.85	0.662%	\$515,089	11/28/2021	COMPLETE	
AA19ALN000021	STRE	A	1	40.90	1.364%	\$423,000	3/31/2021	COMPLETE	
AA19ALN0000029	STRE	A	1	90.95	3.034%	\$1,834,936	3/19/2021	COMPLETE	
AA18ALN000005	STRE	A	1	6.11	0.133%	\$523,700	3/15/2021	COMPLETE	
AA20ALN000009	STRE	A	1	42.05	0.139%	\$145,471	3/15/2021	COMPLETE	
AA21ALN000015 AA20ALN000009	STRE	A		42.63	1.422%	\$1,358,152	3/15/2021	COMPLETE	
AA21ALN000009 AA21ALN000015	STRE	A	+ +	5.92	0.650%	\$158,211	3/4/2021	COMPLETE	
AA19ALN000006 AA21ALN000009	STRE	A		204.29	0.650%	\$378,487	2/5/2021	COMPLETE	
AA16ALN000008	STRE	A		204.29	6.814%	\$378,487	12/10/2020	COMPLETE	
AA18ALN000007 AA16ALN000008	STRE	A	1	9.50	1.359%	\$645,192 \$519,575	12/1/2020	COMPLETE	
AA21ALN000001		A	1	9.50	0.247%	\$7,776,098	9/18/2020	COMPLETE	
AA19ALN000022	STRE	A	1	22.01	0.734%	\$7,293,014	9/3/2020	COMPLETE	
AA22RST000002	SPSC	A	1	3.98	0.133%	\$102,355	4/27/2022	COMPLETE	Project has Protocol 1 or 5.
AA19RST000003	SPSC	A	1	0.95	0.032%	\$24,911	12/1/2021	COMPLETE	
AA16RST000065	SPSC	A	1	7.46	0.249%	\$645,645	11/30/2021	COMPLETE	
AA17RST000001	SPSC	A	1	4.77	0.159%	\$1,178,803	9/23/2021	COMPLETE	
AA18RST000023	SPSC	A		106.05	3.537%	\$1,485,426	9/7/2021	COMPLETE	Project has Protocol 1 or 5.

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, AltBMPPoirt, 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.

Anne Arundel County Notes:

6. Adjusted the formula for Subtotal Operations %ISRP Complete from adding annual percentages to calcuating Subtotal Impervious Acres as a percent of Permit Obligation.

Code Description	Code	Class
Ponds		
Micro-Pool Extended Detention Pond	PMED	S
Multiple Pond	PMPS	S
Pocket Pond	РРКТ	S
Wet Extended Detention Pond	PWED	S
Wet Pond	PWET	S
Wetlands		
ED Shallow Wetland	WEDW	S
Pocket Wetland	WPKT	S
Pond Wetland System	WPWS	S
Shallow Marsh	WSHW	S
Infiltration		
Infiltration Basin	IBAS	S
Infiltration Trench	ITRN	S
Landscape Infiltration	MILS	E
Infiltration Berm	MIBR	E
Dry Well	MIDW	E
Filtering Syste		
Surface Sand Filter	FSND	S
Underground Filter	FUND	S
Perimeter Filter	FPER	S
Organic Filter	FORG	S
Pocket Filter	FPKT	S
Bioretention	FBIO	S
Submerged Gravel Wetland	MSGW	E
Micro-Bioretention	MMBR	E
Rain Garden	MRNG	E
Enhanced Filter	MENF	E
Open Channel Sy	ystems	
Dry Swale	ODSW	S
Wet Swale	OWSW	S
Bio-Swale	MSWB	E

Grass Swale	MSWG	E
Wet Swale	MSWW	E
Alternative Surfaces		
Green Roof - Extensive	AGRE	E
Green Roof - Intensive	AGRI .	E
Permeable Pavement	APRP	E
Reinforced Turf	ARTF	E
Nonstructural Techniques		
Non-Rooftop Disconnect	NDNR	E
Rooftop Disconnect	NDRR	E
Sheetflow to Conservation Area	NSCA	E
Other Systems		
Rainwater Harvesting	MRWH	E
Other Practices		
Extended Detention Structure, Dry	XDED	S
Detention Structure (Dry Pond)	XDPD	S
Flood Management Area	XFLD	S
Oil Grit separator	XOGS	S
Other	ОТН	
Alternative BMP	141	
Mechanical Street Sweeping	MSS	A
Regenerative/Vacuum Street Sweeping (i.e., Advanced Street Sweeping)	VSS	A
Catch Basin Cleaning	CBC	A
Storm Drain Vacuuming (i.e., Storm Drain Cleaning)	SDV	A
Stream Restoration	STRE	A
Outfall Stabilization	OUT	A
Shoreline Management	SHST	A
Septic Connections to WWTP	SEPC	A
Septic Denitrification	SEPD	A
Septic Pumping	SEPP	A
Elimination of Discovered Nutrient Discharges from Grey Infrastructure	DGI	A
Floating Treatment Wetlands	XFTW	A
Impervious Surface Reduction (i.e., impervious to pervious)	IMPP	A

Impervious Surface to Forest (i.e., IMPP + FPU)	IMPF	A
Forestation on Pervious Urban (i.e., Forest Planting)	FPU	A
Conservation Landscaping	CLTM	A
Forest Conservation	FCO	A
Riparian Conservation Landscaping	RCL	A
Riparian Forest Planting	RFP	A
Street Trees	STCI	A
Urban Soil Restoration (Compacted Pervious Surfaces)	USRP	A
Urban Soil Restoration (Removed Impervious Surfaces)	USRI	A
Urban Tree Canopy (i.e., Pervious Turf to Tree Canopy over Turf)	UTC	A
Dry Channel Regenerative Step Pool Stormwater Conveyance System	SPSD	A