

County Council of Howard County, Maryland

2023 Legislative Session

Legislative Day No. 8

Resolution No. 130-2023

Introduced by: The Chairperson at the request of the County Executive

A RESOLUTION approving a Financial Assurance Plan for Howard County's National Pollutant Discharge Elimination System, Municipal Separate Storm Sewer System permit programs, in accordance with Section 4-202.1 of the Environment Article of the Annotated Code of Maryland; and requiring certain copies be sent to the Maryland Department of the Environment.

Introduced and read first time July 5, 2023.

By order

Michelle Harrod

Michelle Harrod, Administrator

Read for a second time at a public hearing on July 17, 2023.

By order

Michelle Harrod

Michelle Harrod, Administrator

This Resolution was read the third time and was Adopted , Adopted with amendments , Failed , Withdrawn , by the County Council on July 31, 2023.

Certified By

Michelle Harrod

Michelle Harrod, Administrator

Approved by the County Executive on August 2, 2023.

Calvin Ball, County Executive

NOTE: [[text in brackets]] indicates deletions from existing law; TEXT IN SMALL CAPITALS indicates additions to existing law; Strike-out indicates material deleted by amendment; Underlining indicates material added by amendment

1 **WHEREAS**, related to the Watershed Protection and Restoration Fee, Howard County is
2 required to file a Financial Assurance Plan (“Plan”), approved by the local governing body, with
3 the Maryland Department of the Environment (“MDE”), in accordance with § 4-202.1 of the
4 Environment Article of the Annotated Code of Maryland (the “State Law”); and
5

6 **WHEREAS**, the County has worked with MDE over the past several months to craft a Plan
7 that projects and describes actions and financial resources and costs related to stormwater
8 management in Howard County over the two-year period following the filing date of the Plan; and
9

10 **WHEREAS**, previous Plans have been approved by the passage of Council Resolution No.
11 182-2015, Council Resolution No. 92-2016, Council Resolution No. 45-2019, and Council
12 Resolution No. 41-2021; and
13

14 **WHEREAS**, the State law requires that the County file a Plan with MDE and that the
15 governing body of the County approve the Plan prior to filing with MDE.
16

17 **NOW, THEREFORE, BE IT RESOLVED** by the County Council of Howard County,
18 Maryland, this 31 day of July, 2023, that it hereby approves the
19 Plan, substantially in the form attached, as a projection of actions, funding, and costs of Howard
20 County’s stormwater management program over the two-year period following the filing date of
21 the Plan.
22

23 **AND BE IT FURTHER RESOLVED** that a copy of this Resolution and the Plan be
24 sent to the Maryland Department of the Environment, 1800 Washington Boulevard, Baltimore,
25 MD 21230.

Howard County Financial Assurance Plan for Fiscal Year 2022: Executive Summary

According to the Maryland Department of the Environment's (MDE's) 2018 *Guidance for Municipal Separate Storm Sewer System Permittees for Filing Financial Assurance Plans and Watershed Protection and Restoration Program Annual Reports*:

"In May 2015, revisions to the Annotated Code of Maryland, Section 4-202, regarding the Watershed Protection and Restoration Program (WPRP) were signed into law. Previously, the law required each National Pollutant Discharge Elimination System (NPDES) Phase I municipal separate storm sewer system (MS4) jurisdiction to establish a stormwater remediation fee. These revisions have since removed that requirement (although jurisdictions still have the option of implementing a stormwater fee). However, jurisdictions are still responsible for obtaining the necessary funds to ensure that all MS4 permit requirements are satisfied. To ensure that each jurisdiction will have adequate funding, a series of requirements were added to the WPRP."

Each NPDES Phase I MS4 jurisdiction must submit to MDE a Financial Assurance Plan (FAP) every two years on the anniversary date of its MS4 permit. To date, Howard County's FAPs have been submitted for fiscal years 2016, 2018, and 2020. This Executive Summary accompanies Howard County's FAP for fiscal year 2022.

According to Annotated Code of Maryland, Section 4-202, the FAP must detail the following:

- all actions required to meet MS4 permit requirements
- annual and projected 5-year costs necessary to meet the impervious surface restoration plan (ISRP) requirement
- annual and projected 5-year revenues that will be used toward meeting the ISRP requirement
- any and all sources of funds used toward meeting MS4 permit requirements
- all specific actions and expenditures undertaken in the previous fiscal years to meet the ISRP requirement

Howard County implemented its stormwater utility fee, the Watershed Protection and Restoration Fee (WPRF), on July 1, 2013. Since that time, the WPRF and other funding sources have been applied to meet MS4 permit requirements. Howard County's 2016, 2018, and 2020 FAPs reflect funding and spending related to the requirements of the County's fourth-generation MS4 permit issued on December 18, 2014. The 2022 FAP reflects funding and spending related to the requirements of the County's fifth-generation (current) MS4 permit issued on December 30, 2022.

The ISRP requirement of the fourth-generation permit mandated that, by December 17, 2019, the County implement restoration efforts for 20% of its total impervious surface area that had not already been restored to the maximum extent practicable (MEP). Per MDE guidance, all restoration projects implemented following June 10, 2010, were considered restoration that applied to the County's 20% ISRP requirement. In comments dated August 7, 2020, MDE acknowledged that Howard County's restoration requirement for the 2014-2019 permit term was 20% of its 11,019-acre baseline, or 2,204 acres. MDE also acknowledged that the County met its 20% ISRP requirement in March 2018 and exceeded its 20% ISRP requirement by completing additional impervious acres of restoration and "...is commended for this significant achievement."

The County's fourth-generation NPDES MS4 permit, which expired on December 17, 2019, was administratively continued through fiscal year 2022 and remained in effect until the fifth-generation permit was issued on December 30, 2022. The fifth-generation permit includes the ISRP requirement of continuing 559.4 acres of annual practices (street sweeping, inlet cleaning) and completing an additional 1,345 acres of new impervious surface restoration through December 29, 2027. Per MDE direction, any restoration credit for projects completed after the County met the ISRP requirement for the 2014-2019 permit term apply to the ISRP requirements in the current permit term. Therefore, this FAP (the fiscal year 2022 FAP) reflects completed actions through fiscal year 2022 and planned actions projected through fiscal year 2024 to meet the ISRP requirement of the currently effective fifth-generation NPDES MS4 permit.

The fiscal year 2022 FAP includes the following tables based on MDE's spreadsheet template provided to meet the requirements of the Annotated Code of Maryland, Section 4-202:

1. **MS4 Information:** Location, contact, and ISRP requirement information
 - a. This table lists the ISRP requirements:
 - i. Continued Annual Alternative ISR: 559.4 acres
 - ii. Required ISR New Permit (ac): 1,345 acres
 - iii. Total ISR (ac): 1,904 acres
2. **Completed Actions 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**
 - a. This table lists all of the Best Management Practices (BMPs) completed through fiscal year 2022 for continued annual alternative ISR (559.8 acres) and required new permit ISR (1,002 acres).
3. **All Actions 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**
 - a. This table lists the combination of continued annual alternative ISR (which are averaged over the permit term through fiscal year 27 at 573 acres) and required new permit ISR through fiscal year 2024 (436 acres). The total ISR projected at the end of fiscal year 2027 comes to 2,010 acres, which is 92 acres above the permit-required 1,904 acres of total ISR.
4. **ISRP Cost 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**
 - a. This table outlines the various operating and capital expenditures for BMPs completed in fiscal years 2019 through 2022 and projected to be completed through the end of the permit term from fiscal year 2023 through fiscal year 2027. Note that, due to the long-term life cycle of many BMPs from planning through construction completion, the costs listed are not all incurred in the fiscal year in which the costs are listed, but instead are the total of all costs associated with projects completed in each fiscal year. This table shows that debt service payments make up 11% of the total expenditures over the life of the current ISRP from fiscal year 2019 through fiscal year 2027. This table also shows that costs already incurred between fiscal years 2019 and 2022 are over half of the total expenditures projected for the ISRP through the end of fiscal year 2027.
5. **ISRP Revenue 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

- a. This table compares annual revenue appropriated for ISRP to annual costs toward ISRP and shows that the program is 100% funded through fiscal year 2024.
- 6. ISRP Revenue: Projected cumulative 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**
 - a. This table compares cumulative revenue appropriated for ISRP to cumulative costs toward ISRP and shows that the program is 107% funded through fiscal year 2024. This table was added by Howard County to provide a more appropriate view of appropriated and spent funds that is more consistent with the format of the Completed Actions and All Actions tables, which present the costs for BMPs as cumulative costs.
- 7. Fund Sources 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**
 - a. This table lists the funding sources supporting the MS4 program based on approved budgets for each fiscal year. Approximately 75% to 80% of the funds appropriated between fiscal years 2022 and 2024 go toward the ISRP.
- 8. Best Management Practice (BMP) Codes**
 - a. This table provides a list of BMP codes, descriptions, and classes used in the Completed Actions and All Actions tables. BMPs include tree planting, construction of new structural BMPs, retrofitting existing structural BMPs, construction of environmental site design (ESD) BMPs, street sweeping, inlet cleaning, septic system upgrades, septic pump-outs, septic connections to the sanitary sewer system, outfall stabilizations, and stream restoration, where appropriate.

It should be noted again that while funding sources included in the FAP are based on approved budgets for each fiscal year through 2024, the costs listed for individual BMPs are total costs for planning, design, property acquisition, and construction over the life of each project, which can span several fiscal years. Therefore, comparing and equating budgeted funding to the costs associated with individual BMPs completed each year is not appropriate. To remedy this, the additional ISRP Revenue table presents funding and costs cumulatively over the life of the ISRP.

Howard County continues to implement the numerous programs required by the MS4 permit and is on-track toward meeting the ISRP. Note that some BMPs projected to be complete in fiscal year 2024 may extend into later fiscal years. Also note that, even after meeting the ISRP, Howard County is required to implement additional restoration BMPs to meet the additional restoration requirements in MS4 Permit associated with local and Chesapeake Bay Total Maximum Daily Loads (TMDLs). These TMDLs require reductions in pollutants including nitrogen, phosphorus, sediment, bacteria, and polychlorinated biphenyl (PCB). In addition, Howard County remains responsible for and must maintain and repair existing BMPs for public safety and continued stormwater management. Most stormwater BMPs provide some level of pollutant removal and impervious surface restoration credit, and these credits are being tracked against the ISRP and TMDL requirements accordingly.

The County looks forward to continuing its successful water quality restoration program, continues to look for innovative ways to meet water quality restoration challenges, and strives to build partnerships with the community to improve local water quality and restore the Chesapeake Bay.

MS4 Information

Jurisdiction	Howard County
Contact Name	Mark S. Richmond
Phone	410-313-6413
Address	9801 Broken Land Parkway
City	Columbia
State	MD
Zip	21046
Email	msrichmond@howardcountymd.gov
Continued Annual Alternative ISR (ac)	559.4
Required ISR New Permit (ac)	1,345
Total ISR (ac)	1,904
Permit Num	21-DP-3318 MD0068322
Permit Period (FY)	July 1, 2021-June 30, 2022
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

Completed Actions 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 559.40									
Operational Programs^{2,3}									
	MSS	A	7	320.64	57%	\$400,000	2020	COMPLETE	
	MSS	A	7	356.48	64%	\$400,000	2021	COMPLETE	
	MSS	A	7	356.48	64%	\$400,000	2022	COMPLETE	
	SDV	A	238	18.41	3%	\$75,000	2020	COMPLETE	
	SDV	A	2837	9.33	2%	\$75,000	2021	COMPLETE	
	SDV	A	800	17.36	3%	\$75,000	2022	COMPLETE	
	SEPP	A	468	14.50	1%	\$0	2020	COMPLETE	
	SEPP	A	245	7.35	1%	\$0	2021	COMPLETE	EIA using 2014 Accounting Guidance. Because the County operates under a comprehensive program, this is considered a permanent practice and credit is cumulative, not annual. The planning goal is to continue to achieve 140.3 EIA by the end of the current permit (Permit # 22-DP-3318) to maintain the sum of 2015-2019 septic pump-outs used towards the County's 20% Restoration Target (Permit # 11-DP-3318).
	SEPP	A	244	7.32	1%	\$0	2022	COMPLETE	
Subtotal Operations ⁴			4853	388.74	66%	\$1,425,000			
Capital Projects (Completed to Replace Annual Obligations)^{2,3}									
HO17ALN000069	STRE	A	1	17.65	3%	\$50,000	2018	COMPLETE	
HO18ALN000035	STRE	A	1	89.37	16%	\$694,682	2018	COMPLETE	
HO20ALN000155	STRE	A	1	50.82	9%	\$1,496,196	2020	COMPLETE	
HO21ALN000138	OUT	A	1	2.65	0%	\$200,000	2021	COMPLETE	
HO20ALN000161	STRE	A	1	10.57	2%	\$603,922	2022	COMPLETE	
Subtotal Capital			5	171.06	31%	\$3,044,800			
Other (Completed to Replace Annual Obligations)^{2,3}									
					0%				
					0%				
Subtotal Other			0	0	0%	\$0			
Total Continued Obligations from Previous Permit			4,858	559.80	100%	\$4,469,800			
Restoration for the New Permit 1345.00									
Operational Programs^{3,5}									
				0	0%				
					0%				
					0%				
					0%				
					0%				
					0%				
					0%				
					0%				
Subtotal Operations ⁴			0	0	0%	\$0			
Capital Projects^{3,5}									
HO20RST109732	MRNG	E	1	0.15	0%	\$0	2010	COMPLETE	
HO20RST109733	MRNG	E	1	0.15	0%	\$0	2010	COMPLETE	
HO20RST109734	MRNG	E	1	0.15	0%	\$0	2010	COMPLETE	
HO20RST109735	MRNG	E	1	0.15	0%	\$0	2010	COMPLETE	
HO20RST109736	MRNG	E	1	0.15	0%	\$0	2010	COMPLETE	
HO20RST109737	MRNG	E	1	0.15	0%	\$0	2010	COMPLETE	
HO20RST109738	MRNG	E	1	0.15	0%	\$0	2010	COMPLETE	
HO20RST109739	MRNG	E	1	0.15	0%	\$0	2010	COMPLETE	
HO20RST109740	MRNG	E	1	0.15	0%	\$0	2010	COMPLETE	
HO20RST109741	MRNG	E	1	0.15	0%	\$0	2010	COMPLETE	
HO20RST109742	MRNG	E	1	0.15	0%	\$0	2010	COMPLETE	
HO20RST109743	MRNG	E	1	0.15	0%	\$0	2010	COMPLETE	
HO20RST109744	MRNG	E	1	0.15	0%	\$0	2010	COMPLETE	
HO20RST109745	MRNG	E	1	0.15	0%	\$0	2010	COMPLETE	
HO20RST109746	MRNG	E	1	0.15	0%	\$0	2010	COMPLETE	
HO20RST109747	MRNG	E	1	0.15	0%	\$0	2010	COMPLETE	
HO20RST109748	MRNG	E	1	0.15	0%	\$0	2010	COMPLETE	
HO20RST109749	MRNG	E	1	0.15	0%	\$0	2010	COMPLETE	
HO20RST109750	MRNG	E	1	0.15	0%	\$0	2010	COMPLETE	
HO20APY100332	RFP	A	1	0.06	0%	\$0	2011	COMPLETE	
HO13APY000005	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	
HO13APY000006	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	
HO13APY000018	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	
HO13APY000019	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	
HO13APY000033	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000034	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000035	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000038	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	
HO13APY000039	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	
HO13APY000040	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	
HO13APY000042	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000050	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	

REST BMP ID	REST BMP TYPE ¹	BMP CLASS ¹	NUM BMP	IMPERVIOUS ACRES	% ISRP COMPLETE	IMPLEMEN-TATION COST	BUILT DATE	IMPLEMENTATION STATUS	GENERAL COMMENTS
HO13APY000051	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000052	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000068	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000085	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000086	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000087	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000088	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000089	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000090	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000091	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000092	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000093	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000094	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000095	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000105	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	
HO13APY000106	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	
HO13APY000107	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	
HO13APY000108	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	
HO13APY000109	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	
HO13APY000110	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	
HO13APY000111	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	
HO13APY000112	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	
HO13APY000113	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	
HO13APY000114	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	
HO13APY000125	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000126	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	
HO13APY000127	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	
HO13APY000128	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	
HO13APY000129	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	
HO13APY000130	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000133	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	
HO13APY000145	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000152	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000167	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000170	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000171	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000172	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000173	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000174	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	
HO13APY000218	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000234	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000237	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000253	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000257	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000274	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
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HO13APY000281	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
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HO13APY000301	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000318	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000319	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000320	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000321	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000322	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000323	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000328	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000329	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000332	FPU	A	1	0.01	0%	\$60	2013	COMPLETE	
HO13APY000503	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000508	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000515	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000541	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000562	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
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HO13APY000664	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000677	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000678	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
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HO13APY000687	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000688	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000708	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000825	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000829	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000833	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000847	UTC	A	1	0.0011	0%	\$60	2013	COMPLETE	
HO13APY000852	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000854	UTC	A	1	0.0011	0%	\$60	2013	COMPLETE	
HO13APY000857	UTC	A	1	0.0011	0%	\$60	2013	COMPLETE	
HO13APY000858	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	
HO13APY000859	UTC	A	1	0.003	0%	\$60	2013	COMPLETE	
HO13APY000860	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	
HO13APY000865	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	
HO13APY000866	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	

REST BMP ID	REST BMP TYPE¹	BMP CLASS¹	NUM BMP	IMPERVIOUS ACRES	% ISRP COMPLETE	IMPLEMENTATION COST	BUILT DATE	IMPLEMENTATION STATUS	GENERAL COMMENTS
HO13APY00868	UTC	A	1	0.001	0%	\$60	2013	COMPLETE	
HO19RST108440	PWED	S	1	16.30	1%	\$0	2013	COMPLETE	
HO20APY100333	RFP	A	1	0.64	0%	\$0	2013	COMPLETE	
HO14APY000371	UTC	A	1	0.003	0%	\$60	2014	COMPLETE	
HO14APY000387	UTC	A	1	0.003	0%	\$60	2014	COMPLETE	
HO14APY000416	UTC	A	1	0.003	0%	\$60	2014	COMPLETE	
HO14APY000457	UTC	A	1	0.003	0%	\$60	2014	COMPLETE	
HO14APY000468	UTC	A	1	0.003	0%	\$60	2014	COMPLETE	
HO14APY000536	UTC	A	1	0.003	0%	\$60	2014	COMPLETE	
HO14APY000577	UTC	A	1	0.003	0%	\$60	2014	COMPLETE	
HO14APY000578	UTC	A	1	0.003	0%	\$60	2014	COMPLETE	
HO14APY000579	UTC	A	1	0.003	0%	\$60	2014	COMPLETE	
HO14APY000646	UTC	A	1	0.003	0%	\$60	2014	COMPLETE	
HO14APY000647	UTC	A	1	0.003	0%	\$60	2014	COMPLETE	
HO14APY000648	UTC	A	1	0.003	0%	\$60	2014	COMPLETE	
HO14APY000649	UTC	A	1	0.003	0%	\$60	2014	COMPLETE	
HO14APY000657	UTC	A	1	0.001	0%	\$60	2014	COMPLETE	
HO14APY000676	UTC	A	1	0.003	0%	\$60	2014	COMPLETE	
HO14APY000682	UTC	A	1	0.003	0%	\$60	2014	COMPLETE	
HO14APY000683	UTC	A	1	0.003	0%	\$60	2014	COMPLETE	
HO14APY000695	UTC	A	1	0.003	0%	\$60	2014	COMPLETE	
HO14APY000726	UTC	A	1	0.003	0%	\$60	2014	COMPLETE	
HO14APY000802	UTC	A	1	0.001	0%	\$60	2014	COMPLETE	
HO14APY000882	UTC	A	1	0.003	0%	\$60	2014	COMPLETE	
HO14APY000885	UTC	A	1	0.003	0%	\$60	2014	COMPLETE	
HO14APY000886	UTC	A	1	0.003	0%	\$60	2014	COMPLETE	
HO14APY000887	UTC	A	1	0.003	0%	\$60	2014	COMPLETE	
HO14APY000908	UTC	A	1	0.003	0%	\$60	2014	COMPLETE	
HO14APY002296	UTC	A	1	0.01	0%	\$600	2014	COMPLETE	
HO14APY002299	UTC	A	1	0.03	0%	\$660	2014	COMPLETE	
HO14APY002513	RFP	A	1	0.08	0%	\$240	2014	COMPLETE	
HO14APY002517	UTC	A	1	0.01	0%	\$440	2014	COMPLETE	
HO14APY002527	RFP	A	1	0.43	0%	\$1,500	2014	COMPLETE	
HO14APY002529	FPU	A	1	0.03	0%	\$400	2014	COMPLETE	
HO20RST109752	FBIO	S	1	0.001	0%	\$0	2014	COMPLETE	
HO15APY000974	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY000975	UTC	A	1	0.003	0%	\$58	2015	COMPLETE	
HO15APY000976	UTC	A	1	0.003	0%	\$58	2015	COMPLETE	
HO15APY000977	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY000991	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY000995	UTC	A	1	0.003	0%	\$53	2015	COMPLETE	
HO15APY000996	UTC	A	1	0.003	0%	\$53	2015	COMPLETE	
HO15APY001007	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001021	UTC	A	1	0.003	0%	\$58	2015	COMPLETE	
HO15APY001022	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001023	UTC	A	1	0.003	0%	\$68	2015	COMPLETE	
HO15APY001024	UTC	A	1	0.003	0%	\$68	2015	COMPLETE	
HO15APY001026	UTC	A	1	0.001	0%	\$60	2015	COMPLETE	
HO15APY001029	UTC	A	1	0.001	0%	\$53	2015	COMPLETE	
HO15APY001030	UTC	A	1	0.001	0%	\$53	2015	COMPLETE	
HO15APY001042	UTC	A	1	0.003	0%	\$53	2015	COMPLETE	
HO15APY001045	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001073	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001074	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001075	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001076	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001077	UTC	A	1	0.003	0%	\$53	2015	COMPLETE	
HO15APY001078	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001079	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001080	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001081	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001082	UTC	A	1	0.003	0%	\$53	2015	COMPLETE	
HO15APY001087	FPU	A	1	0.01	0%	\$60	2015	COMPLETE	
HO15APY001088	FPU	A	1	0.01	0%	\$60	2015	COMPLETE	
HO15APY001089	FPU	A	1	0.01	0%	\$60	2015	COMPLETE	
HO15APY001090	FPU	A	1	0.01	0%	\$60	2015	COMPLETE	
HO15APY001091	FPU	A	1	0.01	0%	\$60	2015	COMPLETE	
HO15APY001092	FPU	A	1	0.01	0%	\$60	2015	COMPLETE	
HO15APY001093	FPU	A	1	0.01	0%	\$60	2015	COMPLETE	
HO15APY001094	RFP	A	1	0.02	0%	\$68	2015	COMPLETE	
HO15APY001095	RFP	A	1	0.02	0%	\$60	2015	COMPLETE	
HO15APY001096	RFP	A	1	0.02	0%	\$60	2015	COMPLETE	
HO15APY001097	FPU	A	1	0.01	0%	\$60	2015	COMPLETE	
HO15APY001098	FPU	A	1	0.01	0%	\$58	2015	COMPLETE	
HO15APY001099	FPU	A	1	0.01	0%	\$68	2015	COMPLETE	
HO15APY001100	FPU	A	1	0.01	0%	\$60	2015	COMPLETE	
HO15APY001101	UTC	A	1	0.003	0%	\$58	2015	COMPLETE	
HO15APY001102	UTC	A	1	0.003	0%	\$68	2015	COMPLETE	
HO15APY001103	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001112	UTC	A	1	0.003	0%	\$68	2015	COMPLETE	
HO15APY001113	UTC	A	1	0.003	0%	\$68	2015	COMPLETE	
HO15APY001114	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001115	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001116	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001127	FPU	A	1	0.01	0%	\$60	2015	COMPLETE	

REST BMP ID	REST BMP TYPE¹	BMP CLASS¹	NUM BMP	IMPERVIOUS ACRES	% ISRP COMPLETE	IMPLEMENTATION COST	BUILT DATE	IMPLEMENTATION STATUS	GENERAL COMMENTS
HO15APY001128	FPU	A	1	0.01	0%	\$60	2015	COMPLETE	
HO15APY001129	FPU	A	1	0.01	0%	\$60	2015	COMPLETE	
HO15APY001130	FPU	A	1	0.01	0%	\$60	2015	COMPLETE	
HO15APY001131	FPU	A	1	0.01	0%	\$60	2015	COMPLETE	
HO15APY001132	FPU	A	1	0.01	0%	\$60	2015	COMPLETE	
HO15APY001133	FPU	A	1	0.01	0%	\$60	2015	COMPLETE	
HO15APY001134	FPU	A	1	0.01	0%	\$60	2015	COMPLETE	
HO15APY001135	FPU	A	1	0.01	0%	\$60	2015	COMPLETE	
HO15APY001136	FPU	A	1	0.01	0%	\$60	2015	COMPLETE	
HO15APY001137	FPU	A	1	0.01	0%	\$68	2015	COMPLETE	
HO15APY001138	FPU	A	1	0.01	0%	\$68	2015	COMPLETE	
HO15APY001139	FPU	A	1	0.01	0%	\$68	2015	COMPLETE	
HO15APY001140	FPU	A	1	0.01	0%	\$60	2015	COMPLETE	
HO15APY001141	FPU	A	1	0.01	0%	\$60	2015	COMPLETE	
HO15APY001142	FPU	A	1	0.01	0%	\$68	2015	COMPLETE	
HO15APY001143	FPU	A	1	0.01	0%	\$60	2015	COMPLETE	
HO15APY001144	FPU	A	1	0.01	0%	\$60	2015	COMPLETE	
HO15APY001145	FPU	A	1	0.01	0%	\$60	2015	COMPLETE	
HO15APY001146	FPU	A	1	0.01	0%	\$60	2015	COMPLETE	
HO15APY001147	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001148	UTC	A	1	0.003	0%	\$68	2015	COMPLETE	
HO15APY001157	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001158	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001159	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001160	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001161	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001164	UTC	A	1	0.003	0%	\$53	2015	COMPLETE	
HO15APY001165	UTC	A	1	0.003	0%	\$53	2015	COMPLETE	
HO15APY001166	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001167	UTC	A	1	0.003	0%	\$53	2015	COMPLETE	
HO15APY001211	UTC	A	1	0.003	0%	\$53	2015	COMPLETE	
HO15APY001216	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001242	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001243	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001244	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001245	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001249	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001250	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001253	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001267	UTC	A	1	0.003	0%	\$58	2015	COMPLETE	
HO15APY001268	UTC	A	1	0.003	0%	\$53	2015	COMPLETE	
HO15APY001269	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001270	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001271	UTC	A	1	0.003	0%	\$53	2015	COMPLETE	
HO15APY001272	UTC	A	1	0.003	0%	\$53	2015	COMPLETE	
HO15APY001273	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001274	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001301	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001302	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001303	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001304	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001305	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001306	UTC	A	1	0.001	0%	\$60	2015	COMPLETE	
HO15APY001307	UTC	A	1	0.001	0%	\$60	2015	COMPLETE	
HO15APY001308	UTC	A	1	0.001	0%	\$60	2015	COMPLETE	
HO15APY001309	UTC	A	1	0.001	0%	\$60	2015	COMPLETE	
HO15APY001310	UTC	A	1	0.001	0%	\$60	2015	COMPLETE	
HO15APY001312	UTC	A	1	0.003	0%	\$53	2015	COMPLETE	
HO15APY001313	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001322	UTC	A	1	0.003	0%	\$53	2015	COMPLETE	
HO15APY001329	UTC	A	1	0.003	0%	\$60	2015	COMPLETE	
HO15APY001330	UTC	A	1	0.003	0%	\$53	2015	COMPLETE	
HO15APY001331	UTC	A	1	0.003	0%	\$53	2015	COMPLETE	
HO15APY001332	UTC	A	1	0.003	0%	\$53	2015	COMPLETE	
HO15RST900314	FBIO	S	1	0.22	0%	\$100,000	2015	COMPLETE	
HO17RST900345	PWET	S	1	2.94	0%	\$1,159,787	2018	COMPLETE	
HO18APY100037	FPU	A	1	0.83	0%	\$7,860	2018	COMPLETE	
HO18APY100038	UTC	A	1	0.20	0%	\$3,075	2018	COMPLETE	
HO18APY100039	RFP	A	1	1.05	0%	\$3,720	2018	COMPLETE	
HO18APY100040	UTC	A	1	0.21	0%	\$9,188	2018	COMPLETE	
HO18APY100045	UTC	A	1	0.14	0%	\$3,938	2018	COMPLETE	
HO18APY100048	RFP	A	1	0.75	0%	\$4,555	2018	COMPLETE	
HO18APY100049	FPU	A	1	0.28	0%	\$3,075	2018	COMPLETE	
HO18RST102187	PWET	S	1	7.30	1%	\$152,980	2018	COMPLETE	
HO18RST902090	MRNG	E	1	0.20	0%	\$0	2018	COMPLETE	
HO18RST902094	MRNG	E	1	0.20	0%	\$0	2018	COMPLETE	
HO18RST902160	SPSC	A	1	10.55	1%	\$100,000	2018	COMPLETE	
HO18RST902161	MRNG	E	1	0.02	0%	\$3,500	2018	COMPLETE	
HO18RST902162	MRNG	E	1	0.01	0%	\$2,400	2018	COMPLETE	
HO18RST902163	MRNG	E	1	0.22	0%	\$22,100	2018	COMPLETE	
HO18RST902757	FBIO	S	1	0.27	0%	\$0	2018	COMPLETE	
HO19APY100163	RFP	A	1	0.30	0%	\$0	2018	COMPLETE	
HO19APY100166	RFP	A	1	0.15	0%	\$500	2018	COMPLETE	
HO19APY100167	RFP	A	1	1.16	0%	\$0	2018	COMPLETE	
HO19APY100168	FPU	A	1	1.69	0%	\$1,200	2018	COMPLETE	

REST BMP ID	REST BMP TYPE	BMP CLASS	NUM	IMPERVIOUS ACRES	% ISRP COMPLETE	IMPLEMENTATION COST	BUILT DATE	IMPLEMENTATION STATUS	GENERAL COMMENTS
HO19APY100178	RFP	A	1	0.20	0%	\$417	2019	COMPLETE	
HO19APY100179	RFP	A	1	0.24	0%	\$1,633	2019	COMPLETE	
HO19APY100180	FPU	A	1	0.06	0%	\$676	2019	COMPLETE	
HO19APY100181	UTC	A	1	0.12	0%	\$5,459	2019	COMPLETE	
HO19APY100182	FPU	A	1	0.29	0%	\$3,227	2019	COMPLETE	
HO19APY100183	RFP	A	1	1.22	0%	\$11,335	2019	COMPLETE	
HO19APY100184	RFP	A	1	0.44	0%	\$3,330	2019	COMPLETE	
HO19APY100185	UTC	A	1	0.07	0%	\$2,923	2019	COMPLETE	
HO19APY100186	FPU	A	1	0.28	0%	\$2,927	2019	COMPLETE	
HO19APY100187	FPU	A	1	0.45	0%	\$2,207	2019	COMPLETE	
HO19APY100188	UTC	A	1	0.09	0%	\$2,225	2019	COMPLETE	
HO19APY100189	FPU	A	1	1.35	0%	\$16,294	2019	COMPLETE	
HO19APY100190	UTC	A	1	0.20	0%	\$10,699	2019	COMPLETE	
HO19APY100191	FPU	A	1	0.24	0%	\$2,522	2019	COMPLETE	
HO19APY100192	RFP	A	1	0.60	0%	\$6,958	2019	COMPLETE	
HO19APY100193	RFP	A	1	0.36	0%	\$3,954	2019	COMPLETE	
HO19APY100194	RFP	A	1	0.54	0%	\$3,492	2019	COMPLETE	
HO19APY100195	RFP	A	1	0.65	0%	\$2,954	2019	COMPLETE	
HO19APY100196	RFP	A	1	0.86	0%	\$8,428	2019	COMPLETE	
HO19APY100197	RFP	A	1	1.05	0%	\$11,303	2019	COMPLETE	
HO19APY100198	UTC	A	1	0.07	0%	\$3,005	2019	COMPLETE	
HO19APY100199	RFP	A	1	0.23	0%	\$2,542	2019	COMPLETE	
HO19APY100200	RFP	A	1	0.78	0%	\$2,848	2019	COMPLETE	
HO19APY100201	UTC	A	1	0.20	0%	\$4,745	2019	COMPLETE	
HO19APY100202	RFP	A	1	0.80	0%	\$4,562	2019	COMPLETE	
HO19APY100203	UTC	A	1	0.11	0%	\$6,594	2019	COMPLETE	
HO19APY100204	UTC	A	1	0.19	0%	\$6,122	2019	COMPLETE	
HO19APY100205	FPU	A	1	0.26	0%	\$2,912	2019	COMPLETE	
HO19APY100206	UTC	A	1	0.06	0%	\$2,845	2019	COMPLETE	
HO19APY100207	FPU	A	1	0.39	0%	\$3,891	2019	COMPLETE	
HO19APY100208	RFP	A	1	6.00	0%	\$6,958	2019	COMPLETE	
HO19RST000349	WSHW	S	1	4.88	0%	\$862,459	2019	COMPLETE	
HO19RST001524	PWET	S	1	2.25	0%	\$746,735	2019	COMPLETE	
HO19RST001545	PWET	S	1	4.17	0%	\$1,295,021	2019	COMPLETE	
HO19RST001948	MSWB	E	1	0.07	0%	\$0	2019	COMPLETE	
HO19RST001949	MIDW	E	1	0.03	0%	\$0	2019	COMPLETE	
HO19RST001950	MIDW	E	1	0.03	0%	\$0	2019	COMPLETE	
HO19RST001951	MIDW	E	1	0.02	0%	\$0	2019	COMPLETE	
HO20APY1000329	RFP	A	1	0.32	0%	\$0	2019	COMPLETE	
HO20APY1000336	RFP	A	1	0.13	0%	\$0	2019	COMPLETE	
HO20APY1000337	UTC	A	1	0.004	0%	\$0	2019	COMPLETE	
HO20APY1000338	RFP	A	1	1.30	0%	\$0	2019	COMPLETE	
HO20APY1000341	RFP	A	1	0.04	0%	\$0	2019	COMPLETE	
HO20APY1000342	RFP	A	1	0.17	0%	\$0	2019	COMPLETE	
HO20APY1000343	RFP	A	1	0.10	0%	\$0	2019	COMPLETE	
HO20APY1000344	RFP	A	1	0.65	0%	\$0	2019	COMPLETE	
HO20APY1000346	UTC	A	1	1.15	0%	\$0	2019	COMPLETE	
HO20APY1000347	UTC	A	1	1.86	0%	\$0	2019	COMPLETE	
HO20APY1000348	UTC	A	1	0.16	0%	\$0	2019	COMPLETE	
HO20APY1000349	FPU	A	1	0.28	0%	\$0	2019	COMPLETE	
HO20APY1000350	UTC	A	1	0.31	0%	\$0	2019	COMPLETE	
HO20APY1000351	RFP	A	1	0.50	0%	\$0	2019	COMPLETE	
HO20APY1000352	UTC	A	1	0.07	0%	\$0	2019	COMPLETE	
HO20APY1000353	UTC	A	1	0.39	0%	\$0	2019	COMPLETE	
HO20APY1000354	RFP	A	1	0.38	0%	\$0	2019	COMPLETE	
HO20APY1000355	FPU	A	1	0.32	0%	\$0	2019	COMPLETE	
HO20APY1000602	FPU	A	1	0.01	0%	\$458	2019	COMPLETE	
HO20APY1000603	FPU	A	1	0.05	0%	\$1,030	2019	COMPLETE	
HO20APY1000604	FPU	A	1	0.03	0%	\$2,822	2019	COMPLETE	
HO20APY1000605	FPU	A	1	0.02	0%	\$1,145	2019	COMPLETE	
HO20APY1000606	CLM	A	1	0.01	0%	\$801	2019	COMPLETE	
HO20APY1000621	CLM	A	1	0.04	0%	\$8,621	2019	COMPLETE	
HO20APY1000622	CLM	A	1	0.03	0%	\$7,245	2019	COMPLETE	
HO20RST1009715	MMBR	E	1	0.19	0%	\$5,098	2019	COMPLETE	
HO20RST1009717	MMNG	E	1	0.07	0%	\$8,262	2019	COMPLETE	
HO20RST1009720	MMNG	E	1	0.03	0%	\$7,745	2019	COMPLETE	
HO20RST1009722	CL	E	1	0.02	0%	\$7,245	2019	COMPLETE	
HO20RST1009724	MMNG	E	1	0.08	0%	\$9,124	2019	COMPLETE	
HO20RST1009725	CL	E	1	0.03	0%	\$8,621	2019	COMPLETE	
HO20RST1009757	MMBR	E	1	0.20	0%	\$0	2019	COMPLETE	
HO20RST1009758	MMBR	E	1	0.02	0%	\$0	2019	COMPLETE	
HO20RST1009759	MSWB	E	1	0.25	0%	\$0	2019	COMPLETE	
HO21APY1000607	IMPP	A	1	0.06	0%	\$0	2019	COMPLETE	
HO21APY1000608	FPU	A	1	0.07	0%	\$0	2019	COMPLETE	
HO21APY1009475	FPU	A	1	0.01	0%	\$1,575	2019	COMPLETE	
HO21RST009123	MMNG	E	1	0.05	0%	\$1,200	2019	COMPLETE	
HO21RST009124	MMNG	E	1	0.15	0%	\$1,200	2019	COMPLETE	
HO21RST009126	MMNG	E	1	0.02	0%	\$344	2019	COMPLETE	
HO21RST009128	MMNG	E	1	0.03	0%	\$640	2019	COMPLETE	
HO21RST009130	OTH	E	1	0.06	0%	\$520	2019	COMPLETE	
HO21RST009131	MMNG	E	1	0.04	0%	\$1,080	2019	COMPLETE	
HO21RST009133	MMNG	E	1	0.02	0%	\$497	2019	COMPLETE	
HO21RST009136	MMNG	E	1	0.02	0%	\$1,200	2019	COMPLETE	
HO21RST009138	MMNG	E	1	0.02	0%	\$2,550	2019	COMPLETE	

REST BMP ID	REST BMP TYPE	BMP CLASS	NUM BMP	IMPERVIOUS ACRES	% BMP COMPLETE	IMPLEMENTATION COST	BUILT DATE	IMPLEMENTATION STATUS	GENERAL COMMENTS
HO21NST903140	MRRG	E	1	0.01	0%	\$4,050	2019	COMPLETE	
HO21NST903141	MRRG	E	1	0.01	0%	\$2,213	2019	COMPLETE	
HO21NST903145	MRRG	E	1	0.01	0%	\$1,295	2019	COMPLETE	
HO21NST903164	MRRG	E	1	0.03	0%	\$1,108	2019	COMPLETE	
HO21NST903165	MRRG	E	1	0.01	0%	\$0	2019	COMPLETE	
HO21NST903242	MRRG	E	1	0.03	0%	\$0	2019	COMPLETE	
HO21NST903243	MRRG	E	1	0.04	0%	\$0	2019	COMPLETE	
HO21NST903245	MRRG	E	1	0.04	0%	\$0	2019	COMPLETE	
HO21NST903246	MRRG	E	1	0.04	0%	\$0	2019	COMPLETE	
HO21NST903248	MRRG	E	1	0.01	0%	\$0	2019	COMPLETE	
HO21NST903249	MRRG	E	1	0.02	0%	\$0	2019	COMPLETE	
HO21NST903250	MRRG	E	1	0.03	0%	\$0	2019	COMPLETE	
HO21NST903251	MRRG	E	1	0.03	0%	\$0	2019	COMPLETE	
HO21NST903321	FBIQ	S	1	0.13	0%	\$0	2019	COMPLETE	
HO21NST903326	ARRP	E	1	0.03	0%	\$0	2019	COMPLETE	
HO21NST903327	ARRP	E	1	0.02	0%	\$0	2019	COMPLETE	
HO21NST903328	ARRP	E	1	0.03	0%	\$0	2019	COMPLETE	
HO21NST903329	ARRP	E	1	0.06	0%	\$0	2019	COMPLETE	
HO21NST903330	MMBR	E	1	0.03	0%	\$0	2019	COMPLETE	
HO21NST903331	MMBR	E	1	0.03	0%	\$0	2019	COMPLETE	
HO21NST903332	MMBR	E	1	0.02	0%	\$0	2019	COMPLETE	
HO21NST900092	STRE	A	1	80.06	6%	\$2,445,033	2020	COMPLETE	
HO21NST900093	STRE	A	1	64.49	5%	\$987,755	2020	COMPLETE	
HO21NST900099	STRE	A	1	0.19	0%	\$50,000	2020	COMPLETE	
HO21NST901345	MCSW	E	1	4.03	0%	\$65,200	2020	COMPLETE	
HO21NST901347	FBIQ	E	1	0.15	0%	\$0	2020	COMPLETE	
HO21NST901357	FBIQ	E	1	0.17	0%	\$0	2020	COMPLETE	
HO21NST901359	FBIQ	E	1	0.26	0%	\$0	2020	COMPLETE	
HO21NST901360	FBIQ	E	1	0.26	0%	\$0	2020	COMPLETE	
HO21NST901361	FBIQ	E	1	0.25	0%	\$0	2020	COMPLETE	
HO21NST901362	FBIQ	E	1	0.21	0%	\$0	2020	COMPLETE	
HO21NST901363	FBIQ	E	1	0.14	0%	\$0	2020	COMPLETE	
HO21NST901364	FBIQ	E	1	0.25	0%	\$0	2020	COMPLETE	
HO21NST901365	FBIQ	E	1	0.32	0%	\$0	2020	COMPLETE	
HO21NST901366	FBIQ	E	1	0.18	0%	\$0	2020	COMPLETE	
HO21NST901367	FBIQ	E	1	0.25	0%	\$0	2020	COMPLETE	
HO21NST901368	FBIQ	E	1	0.27	0%	\$0	2020	COMPLETE	
HO21NST901369	FBIQ	E	1	0.28	0%	\$0	2020	COMPLETE	
HO21NST901370	FBIQ	E	1	0.12	0%	\$0	2020	COMPLETE	
HO21NST901371	FBIQ	E	1	0.23	0%	\$0	2020	COMPLETE	
HO21NST901372	FBIQ	E	1	0.19	0%	\$0	2020	COMPLETE	
HO20ALND00102	STRE	A	1	274.53	20%	\$3,950,296	2020	COMPLETE	
HO20ALND00163	STRE	A	1	4.99	0%	\$1,979,072	2020	COMPLETE	
HO20APY100339	RRP	A	1	0.20	0%	\$0	2020	COMPLETE	
HO20APY100340	RRP	A	1	0.08	0%	\$0	2020	COMPLETE	
HO20APY100345	UTC	A	1	0.19	0%	\$0	2020	COMPLETE	
HO20APY100356	FBIQ	A	1	0.45	0%	\$0	2020	COMPLETE	
HO20APY100357	FBIQ	A	1	0.57	0%	\$0	2020	COMPLETE	
HO20NST109728	FUND	S	1	0.57	0%	\$0	2020	COMPLETE	
HO20NST109729	FUND	S	1	4.22	0%	\$0	2020	COMPLETE	
HO20NST109731	XPED	S	1	4.64	0%	\$500,000	2020	COMPLETE	
HO20NST902443	PWED	S	1	26.19	0%	\$1,104,376	2020	COMPLETE	
HO21ALND00137	STRE	A	1	0.06	0%	\$0	2020	COMPLETE	
HO21APY100609	IMPP	A	1	0.06	0%	\$0	2020	COMPLETE	
HO21APY102393	FBIQ	A	1	1.33	0%	\$0	2020	COMPLETE	
HO21APY102394	FBIQ	A	1	0.48	0%	\$0	2020	COMPLETE	
HO21APY102395	FBIQ	A	1	0.18	0%	\$0	2020	COMPLETE	
HO21APY102396	FBIQ	A	1	0.58	0%	\$0	2020	COMPLETE	
HO21APY102397	FBIQ	A	1	0.42	0%	\$0	2020	COMPLETE	
HO21APY102398	FBIQ	A	1	0.40	0%	\$0	2020	COMPLETE	
HO21APY102400	FBIQ	A	1	0.04	0%	\$0	2020	COMPLETE	
HO21APY102401	FBIQ	A	1	1.05	0%	\$0	2020	COMPLETE	
HO21APY102402	FBIQ	A	1	0.12	0%	\$0	2020	COMPLETE	
HO21APY102411	FBIQ	A	1	0.08	0%	\$0	2020	COMPLETE	
HO21APY102412	FBIQ	A	1	0.04	0%	\$0	2020	COMPLETE	
HO21APY103472	FBIQ	A	1	0.61	0%	\$2,270	2020	COMPLETE	
HO21APY103473	FBIQ	A	1	1.79	0%	\$4,030	2020	COMPLETE	
HO21APY103474	FBIQ	A	1	0.01	0%	\$1,649	2020	COMPLETE	
HO21APY103477	FBIQ	A	1	0.004	0%	\$3,190	2020	COMPLETE	
HO21APY103478	FBIQ	A	1	0.03	0%	\$2,270	2020	COMPLETE	
HO21APY103479	FBIQ	A	1	2.32	0%	\$4,030	2020	COMPLETE	
HO21APY103480	FBIQ	A	1	0.02	0%	\$350	2020	COMPLETE	
HO21NST902779	MMBR	E	1	0.20	0%	\$0	2020	COMPLETE	
HO21NST902780	MMBR	E	1	0.20	0%	\$0	2020	COMPLETE	

REST BMP ID	REST BMP TYPE	BMP CLASS	NUM BMP	IMPERVIOUS ACRES	% ISRP COMPLETE	IMPLEMENTATION COST	BUILT DATE	IMPLEMENTATION STATUS	GENERAL COMMENTS
HOZ1RST902781	APRP	E	1	0.20	0%	\$0	2020	COMPLETE	
HOZ1RST902782	CL	E	1	0.02	0%	\$350	2020	COMPLETE	
HOZ1RST902783	CL	E	1	0.02	0%	\$1,000	2020	COMPLETE	
HOZ1RST902784	CL	E	1	0.02	0%	\$1,000	2020	COMPLETE	
HOZ1RST902785	CL	E	1	0.02	0%	\$1,000	2020	COMPLETE	
HOZ1RST902786	CL	E	1	0.24	0%	\$7,920	2020	COMPLETE	
HOZ1RST902787	CL	E	1	0.38	0%	\$2,640	2020	COMPLETE	
HOZ1RST902788	MNNG	E	1	0.06	0%	\$7,739	2020	COMPLETE	
HOZ1RST902792	CL	E	1	0.09	0%	\$6,100	2020	COMPLETE	
HOZ1RST902793	CL	E	1	0.01	0%	\$2,500	2020	COMPLETE	
HOZ1RST902794	CL	E	1	0.01	0%	\$2,700	2020	COMPLETE	
HOZ1RST903139	APRP	E	1	0.02	0%	\$5,000	2020	COMPLETE	
HOZ1RST903142	MNNG	E	1	0.02	0%	\$1,755	2020	COMPLETE	
HOZ1RST903143	APRP	E	1	0.04	0%	\$5,000	2020	COMPLETE	
HOZ1RST903144	MNNG	E	1	0.02	0%	\$1,146	2020	COMPLETE	
HOZ1RST903146	MNNG	E	1	0.03	0%	\$3,620	2020	COMPLETE	
HOZ1RST903148	OTH	E	1	0.06	0%	\$9,000	2020	COMPLETE	
HOZ1RST903149	OTH	E	1	0.06	0%	\$1,209	2020	COMPLETE	
HOZ1RST903150	OTH	E	1	0.04	0%	\$2,213	2020	COMPLETE	
HOZ1RST903151	MNNG	E	1	0.04	0%	\$2,160	2020	COMPLETE	
HOZ1RST903152	MNNG	E	1	0.01	0%	\$5,000	2020	COMPLETE	
HOZ1RST903153	APRP	E	1	0.02	0%	\$0	2020	COMPLETE	
HOZ1RST903252	MNNG	E	1	0.02	0%	\$0	2020	COMPLETE	
HOZ1RST903253	MNNG	E	1	0.02	0%	\$0	2020	COMPLETE	
HOZ1RST903254	MNNG	E	1	0.06	0%	\$0	2020	COMPLETE	
HOZ1RST903255	MNNG	E	1	0.03	0%	\$0	2020	COMPLETE	
HOZ1RST903256	MNNG	E	1	0.07	0%	\$0	2020	COMPLETE	
HOZ1RST903257	MNNG	E	1	0.01	0%	\$0	2020	COMPLETE	
HOZ1RST903258	MNNG	E	1	0.02	0%	\$0	2020	COMPLETE	
HOZ1RST903259	MNNG	E	1	0.02	0%	\$0	2020	COMPLETE	
HOZ1RST903260	MNNG	E	1	0.02	0%	\$0	2020	COMPLETE	
HOZ1RST903261	MNNG	E	1	0.02	0%	\$0	2020	COMPLETE	
HOZ1RST903262	MNNG	E	1	0.02	0%	\$0	2020	COMPLETE	
HOZ1RST903264	MNNG	E	1	0.05	0%	\$0	2020	COMPLETE	
HOZ1RST903263	MNNG	E	1	0.02	0%	\$0	2020	COMPLETE	
HOZ1RST903265	MNNG	E	1	0.02	0%	\$0	2020	COMPLETE	
HOZ1RST903298	FBO	S	1	0.08	0%	\$0	2020	COMPLETE	
HOZ1RST903299	FBO	S	1	0.12	0%	\$0	2020	COMPLETE	
HOZ1RST903300	MNBR	E	1	0.03	0%	\$0	2020	COMPLETE	
HOZ1RST903301	FBO	S	1	0.18	0%	\$0	2020	COMPLETE	
HOZ1RST903302	FBO	S	1	0.17	0%	\$0	2020	COMPLETE	
HOZ1RST903303	FBO	S	1	0.04	0%	\$0	2020	COMPLETE	
HOZ1RST903304	FBO	S	1	0.05	0%	\$0	2020	COMPLETE	
HOZ1RST903305	APRP	E	1	0.08	0%	\$0	2020	COMPLETE	
HOZ1RST903306	APRP	E	1	0.06	0%	\$0	2020	COMPLETE	
HOZ1RST903322	MNBR	E	1	0.47	0%	\$0	2020	COMPLETE	
HOZ1RST903323	MNBR	E	1	0.50	0%	\$0	2020	COMPLETE	
HOZ1RST903324	MNBR	E	1	0.63	0%	\$0	2020	COMPLETE	
HOZ1RST903325	MNBR	E	1	0.22	0%	\$0	2020	COMPLETE	
HOZ1RST903333	FBO	S	1	0.24	0%	\$0	2020	COMPLETE	
HOZ1RST903337	MNBR	E	1	0.09	0%	\$0	2020	COMPLETE	
HOZ1RST903338	MNBR	E	1	1.55	0%	\$0	2020	COMPLETE	
HOZ1RST903340	STRE	A	1	9.91	1%	\$659,913	2021	COMPLETE	
HOZ1RST903341	STRE	A	1	2.92	0%	\$225,000	2021	COMPLETE	
HOZ1RST903342	MNBR	E	1	0.07	0%	\$588,373	2021	COMPLETE	
HOZ1RST903343	MNBR	E	1	0.10	0%	\$0	2021	COMPLETE	
HOZ1RST903344	MNBR	E	1	0.03	0%	\$0	2021	COMPLETE	
HOZ1RST903347	MNBR	E	1	0.04	0%	\$375	2021	COMPLETE	
HOZ1RST903348	MNBR	E	1	16.85	1%	\$1,164,747	2021	COMPLETE	
HOZ1RST903349	CL	E	1	0.15	0%	\$5,760	2021	COMPLETE	
HOZ1RST903354	MNNG	E	1	0.07	0%	\$8,890	2021	COMPLETE	
HOZ1RST903355	OTH	E	1	0.06	0%	\$2,640	2021	COMPLETE	
HOZ1RST903356	MNNG	E	1	0.06	0%	\$3,000	2021	COMPLETE	
HOZ1RST903357	OTH	E	1	0.03	0%	\$1,875	2021	COMPLETE	
HOZ1RST903358	OTH	E	1	0.06	0%	\$3,000	2021	COMPLETE	
HOZ1RST903359	MNNG	E	1	0.01	0%	\$2,365	2021	COMPLETE	
HOZ1RST903360	OTH	E	1	0.06	0%	\$1,500	2021	COMPLETE	
HOZ1RST903361	MNNG	E	1	0.02	0%	\$2,250	2021	COMPLETE	
HOZ1RST903362	MNNG	E	1	0.01	0%	\$1,463	2021	COMPLETE	
HOZ1RST903363	OTH	E	1	0.06	0%	\$2,535	2021	COMPLETE	
HOZ1RST903364	MNNG	E	1	0.06	0%	\$2,250	2021	COMPLETE	
HOZ1RST903366	MNNG	E	1	0.04	0%	\$3,750	2021	COMPLETE	
HOZ1RST903367	MNNG	E	1	0.01	0%	\$1,800	2021	COMPLETE	
HOZ1RST903368	MNNG	E	1	0.03	0%	\$3,975	2021	COMPLETE	
HOZ1RST903369	OTH	E	1	0.06	0%	\$2,250	2021	COMPLETE	
HOZ1RST903370	MNNG	E	1	0.01	0%	\$4,050	2021	COMPLETE	
HOZ1RST903371	OTH	E	1	0.05	0%	\$3,000	2021	COMPLETE	
HOZ1RST903372	MNNG	E	1	0.04	0%	\$4,830	2021	COMPLETE	
HOZ1RST903373	OTH	E	1	0.06	0%	\$1,800	2021	COMPLETE	
HOZ1RST903374	OTH	E	1	0.05	0%	\$3,000	2021	COMPLETE	
HOZ1RST903375	OTH	E	1	0.05	0%	\$900	2021	COMPLETE	
HOZ1RST903376	OTH	E	1	0.06	0%	\$1,800	2021	COMPLETE	
HOZ1RST903377	OTH	E	1	0.06	0%	\$3,000	2021	COMPLETE	
HOZ1RST903378	MNNG	E	1	0.02	0%	\$2,250	2021	COMPLETE	
HOZ1RST903379	OTH	E	1	0.05	0%	\$2,944	2021	COMPLETE	

REST BMP ID	REST BMP TYPE	BMP CLASS	NUM BMP	IMPERVIOUS ACRES	%/ISBP COMPLETE	IMPLEMENTATION COST	BUILT DATE	IMPLEMENTATION STATUS	GENERAL COMMENTS
HO22RS1903180	OTH	E	1	0.02	0%	\$3,000	2021	COMPLETE	
HO21RS1903181	MRRG	E	1	0.02	0%	\$4,856	2021	COMPLETE	
HO21RS1903182	ARPP	E	1	0.03	0%	\$5,000	2021	COMPLETE	
HO21RS1903183	MRRG	E	1	0.02	0%	\$5,000	2021	COMPLETE	
HO21RS1903184	MRRG	E	1	0.04	0%	\$3,469	2021	COMPLETE	
HO21RS1903185	MRRG	E	1	0.03	0%	\$5,000	2021	COMPLETE	
HO21RS1903187	ARPP	E	1	0.01	0%	\$5,000	2021	COMPLETE	
HO21RS1903188	OTH	E	1	0.06	0%	\$3,000	2021	COMPLETE	
HO21RS1903190	OTH	E	1	0.03	0%	\$1,388	2021	COMPLETE	
HO21RS1903191	OTH	E	1	0.06	0%	\$2,220	2021	COMPLETE	
HO21RS1903192	OTH	E	1	0.06	0%	\$375	2021	COMPLETE	
HO21RS1903193	ARPP	E	1	0.08	0%	\$5,000	2021	COMPLETE	
HO21RS1903194	MIDW	E	1	0.02	0%	\$563	2021	COMPLETE	
HO21RS1903195	MRRG	E	1	0.05	0%	\$2,081	2021	COMPLETE	
HO21RS1903196	MRRG	E	1	0.02	0%	\$1,804	2021	COMPLETE	
HO21RS1903197	MRRG	E	1	0.02	0%	\$1,665	2021	COMPLETE	
HO21RS1903199	ARPP	E	1	0.003	0%	\$1,125	2021	COMPLETE	
HO21RS1903200	ARPP	E	1	0.01	0%	\$5,000	2021	COMPLETE	
HO21RS1903201	OTH	E	1	0.06	0%	\$1,838	2021	COMPLETE	
HO21RS1903268	FBIO	S	1	0.96	0%	\$0	2021	COMPLETE	
HO21RS1903269	FBIO	S	1	0.14	0%	\$0	2021	COMPLETE	
HO21RS1903270	FBIO	S	1	0.28	0%	\$0	2021	COMPLETE	
HO22AP1Y03509	FBIO	A	1	0.01	0%	\$1,530	2021	COMPLETE	
HO22AP1Y03510	FBIO	A	1	0.01	0%	\$1,530	2021	COMPLETE	
HO22AP1Y03511	FBIO	A	1	0.01	0%	\$1,020	2021	COMPLETE	
HO22AP1Y03512	FBIO	A	1	0.01	0%	\$1,870	2021	COMPLETE	
HO22AP1Y03513	FBIO	A	1	0.09	0%	\$3,230	2021	COMPLETE	
HO22AP1Y03514	FBIO	A	1	0.009	0%	\$170	2021	COMPLETE	
HO22AP1Y03515	FBIO	A	1	0.01	0%	\$2,210	2021	COMPLETE	
HO22AP1Y03516	FBIO	A	1	0.02	0%	\$850	2021	COMPLETE	
HO22AP1Y03517	FBIO	A	1	0.01	0%	\$1,190	2021	COMPLETE	
HO22AP1Y03518	FBIO	A	1	0.01	0%	\$1,530	2021	COMPLETE	
HO22AP1Y03519	FBIO	A	1	0.02	0%	\$680	2021	COMPLETE	
HO22AP1Y03520	FBIO	A	1	0.03	0%	\$1,190	2021	COMPLETE	
HO22AP1Y03521	FBIO	A	1	0.04	0%	\$1,360	2021	COMPLETE	
HO22AP1Y03522	FBIO	A	1	0.005	0%	\$850	2021	COMPLETE	
HO22AP1Y03523	FBIO	A	1	0.01	0%	\$1,190	2021	COMPLETE	
HO22AP1Y03524	FBIO	A	1	0.07	0%	\$12,750	2021	COMPLETE	
HO22AP1Y03525	FBIO	A	1	0.06	0%	\$21,250	2021	COMPLETE	
HO22AP1Y03527	FBIO	A	1	0.14	0%	\$21,250	2021	COMPLETE	
HO22AP1Y03528	FBIO	A	1	0.02	0%	\$21,250	2021	COMPLETE	
HO22AP1Y03529	FBIO	A	1	0.01	0%	\$21,250	2021	COMPLETE	
HO22AP1Y03530	FBIO	A	1	0.002	0%	\$2,000	2021	COMPLETE	
HO22AP1Y03531	FBIO	A	1	0.003	0%	\$5,200	2021	COMPLETE	
HO22AP1Y04623	FBIO	A	1	3.90	0%	\$12,491	2021	COMPLETE	
HO22AP1Y04625	FBIO	A	1	1.35	0%	\$5,981	2021	COMPLETE	
HO22AP1Y04626	FBIO	A	1	0.63	0%	\$2,220	2021	COMPLETE	
HO22AP1Y04630	FBIO	A	1	0.09	0%	\$380	2021	COMPLETE	
HO22AP1Y04631	FBIO	A	1	0.15	0%	\$739	2021	COMPLETE	
HO22AP1Y04632	FBIO	A	1	0.15	0%	\$569	2021	COMPLETE	
HO22AP1Y04639	FBIO	A	1	2.31	0%	\$19,125	2021	COMPLETE	
HO22AP1Y04643	FBIO	A	1	1.18	0%	\$5,381	2021	COMPLETE	
HO22AP1Y04644	FBIO	A	1	1.03	0%	\$5,890	2021	COMPLETE	
HO22AP1Y04645	FBIO	A	1	1.32	0%	\$12,321	2021	COMPLETE	
HO22AP1Y04646	FBIO	A	1	1.24	0%	\$12,690	2021	COMPLETE	
HO22AP1Y04647	FBIO	A	1	1.16	0%	\$14,451	2021	COMPLETE	
HO22AP1Y04648	FBIO	A	1	1.52	0%	\$12,814	2021	COMPLETE	
HO22AP1Y04649	FBIO	A	1	0.14	0%	\$4,708	2021	COMPLETE	
HO22AP1Y04650	FBIO	A	1	13.47	1%	\$2,628	2021	COMPLETE	
HO22AP1Y04651	FBIO	A	1	1.06	0%	\$8,097	2021	COMPLETE	
HO22AP1Y04652	FBIO	A	1	1.10	0%	\$6,530	2021	COMPLETE	
HO22AP1Y04653	FBIO	A	1	1.61	0%	\$4,716	2021	COMPLETE	
HO22AP1Y04654	FBIO	A	1	0.08	0%	\$3,188	2021	COMPLETE	
HO22AP1Y04655	FBIO	A	1	20.52	2%	\$26,073	2021	COMPLETE	
HO22AP1Y04656	FBIO	A	1	1.21	0%	\$8,932	2021	COMPLETE	
HO22AP1Y04657	FBIO	A	1	0.59	0%	\$3,832	2021	COMPLETE	
HO22AP1Y04658	FBIO	A	1	0.42	0%	\$3,737	2021	COMPLETE	
HO22AP1Y06162	CL	A	1	0.02	0%	\$0	2021	COMPLETE	
HO22RS1903274	ARPP	E	1	0.97	0%	\$0	2021	COMPLETE	
HO22RS1903275	ARPP	E	1	0.83	0%	\$0	2021	COMPLETE	
HO22RS1903276	ARPP	E	1	0.32	0%	\$0	2021	COMPLETE	
HO22RS1903277	ARPP	E	1	0.54	0%	\$0	2021	COMPLETE	
HO22RS1903278	MMBR	E	1	0.40	0%	\$0	2021	COMPLETE	
HO22RS1903279	MMBR	E	1	0.39	0%	\$0	2021	COMPLETE	
HO22RS1903280	MMBR	E	1	0.33	0%	\$0	2021	COMPLETE	
HO22RS1903281	MMBR	E	1	0.33	0%	\$0	2021	COMPLETE	
HO22RS1903282	ARPP	E	1	0.22	0%	\$0	2021	COMPLETE	
HO22RS1903283	MMBR	E	1	0.21	0%	\$0	2021	COMPLETE	
HO22RS1903284	MMBR	E	1	0.34	0%	\$0	2021	COMPLETE	
HO22RS1903285	MMBR	E	1	0.41	0%	\$0	2021	COMPLETE	
HO22RS1903286	FSND	S	1	1.29	0%	\$0	2021	COMPLETE	

REST BMP ID	REST BMP TYPE¹	BMP CLASS¹	NUM BMP	IMPERVIOUS ACRES	% ISRP COMPLETE	IMPLEMENTATION COST	BUILT DATE	IMPLEMENTATION STATUS	GENERAL COMMENTS
HO19ST902328	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902329	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902330	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902331	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902333	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902335	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902336	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902337	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902338	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902339	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902340	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902341	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902343	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902344	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902345	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902348	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902349	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902350	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902351	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902353	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902354	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902355	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902356	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902357	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902358	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902361	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902362	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902363	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902364	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902365	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902366	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902367	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902368	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902369	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902370	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902371	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902372	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902373	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902374	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902375	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902377	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902379	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902380	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902384	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902385	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902386	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902387	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902388	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902389	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902390	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902391	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902392	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902393	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902394	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902395	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902397	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902398	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902405	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902406	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902407	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902408	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902409	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902410	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902413	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902416	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902417	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902418	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902419	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902420	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902422	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902423	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902424	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902425	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902426	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902427	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902430	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902431	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO19ST902433	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902434	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902438	MRWH	E	1	0.002	0%	\$25	2019	COMPLETE	
HO19ST902439	MRWH	E	1	0.002	0%	\$43	2019	COMPLETE	
HO20APT009145	SEPD	A	1	0.16	0%	\$12,000	2019	COMPLETE	
HO20APT009146	SEPD	A	1	0.16	0%	\$12,000	2019	COMPLETE	
HO20APT009147	SEPD	A	1	0.16	0%	\$12,000	2019	COMPLETE	
HO20APT009148	SEPD	A	1	0.16	0%	\$12,000	2019	COMPLETE	

REST BMP ID	REST BMP TYPE¹	BMP CLASS²	NUM BMP	IMPERVIOUS ACRES	% ISRP COMPLETE	IMPLEMENTATION COST	BUILT DATE	IMPLEMENTATION STATUS	GENERAL COMMENTS
HO22APT010216	SEPD	A	1	0.16	0%	\$0	2021	COMPLETE	
HO22APT010217	SEPD	A	1	0.16	0%	\$0	2021	COMPLETE	
HO22APT010220	SEPD	A	1	0.16	0%	\$0	2021	COMPLETE	
HO22APT010221	SEPD	A	1	0.16	0%	\$0	2021	COMPLETE	
HO22APT010223	SEPD	A	1	0.16	0%	\$0	2021	COMPLETE	
HO22APT010224	SEPD	A	1	0.16	0%	\$0	2021	COMPLETE	
HO22APT010225	SEPD	A	1	0.16	0%	\$0	2021	COMPLETE	
HO22APT010226	SEPD	A	1	0.16	0%	\$0	2021	COMPLETE	
HO22APT010227	SEPD	A	1	0.16	0%	\$0	2021	COMPLETE	
HO22APT010228	SEPD	A	1	0.16	0%	\$0	2021	COMPLETE	
HO22APT010229	SEPD	A	1	0.16	0%	\$0	2021	COMPLETE	
HO22APT010230	SEPD	A	1	0.16	0%	\$0	2021	COMPLETE	
HO22APT010231	SEPD	A	1	0.16	0%	\$0	2021	COMPLETE	
HO22APT010234	SEPD	A	1	0.16	0%	\$0	2021	COMPLETE	
HO22APT010235	SEPD	A	1	0.16	0%	\$0	2021	COMPLETE	
HO22APT010236	SEPD	A	1	0.16	0%	\$0	2021	COMPLETE	
HO22APT010238	SEPD	A	1	0.16	0%	\$0	2021	COMPLETE	
HO22APT010239	SEPD	A	1	0.16	0%	\$0	2021	COMPLETE	
HO22APT010240	SEPD	A	1	0.16	0%	\$0	2021	COMPLETE	
HO22APT010243	SEPD	A	1	0.16	0%	\$0	2021	COMPLETE	
HO22APT010244	SEPD	A	1	0.16	0%	\$0	2021	COMPLETE	
HO22APT010245	SEPD	A	1	0.16	0%	\$0	2021	COMPLETE	
HO22APT010246	SEPD	A	1	0.16	0%	\$0	2021	COMPLETE	
HO22APT010248	SEPD	A	1	0.16	0%	\$0	2021	COMPLETE	
HO22APT010249	SEPD	A	1	0.16	0%	\$0	2021	COMPLETE	
HO22APT010250	SEPD	A	1	0.16	0%	\$0	2021	COMPLETE	
HO22APT010251	SEPD	A	1	0.16	0%	\$0	2021	COMPLETE	
HO22APT010209	SEPC	A	1	0.23	0%	\$0	2022	COMPLETE	
HO22APT010218	SEPD	A	1	0.16	0%	\$0	2022	COMPLETE	
HO22APT010219	SEPD	A	1	0.16	0%	\$0	2022	COMPLETE	
HO22APT010222	SEPD	A	1	0.16	0%	\$0	2022	COMPLETE	
HO22APT010232	SEPD	A	1	0.16	0%	\$0	2022	COMPLETE	
HO22APT010233	SEPD	A	1	0.16	0%	\$0	2022	COMPLETE	
HO22APT010237	SEPD	A	1	0.16	0%	\$0	2022	COMPLETE	
HO22APT010241	SEPD	A	1	0.16	0%	\$0	2022	COMPLETE	
HO22APT010242	SEPD	A	1	0.16	0%	\$0	2022	COMPLETE	
HO22APT010247	SEPD	A	1	0.16	0%	\$0	2022	COMPLETE	
HO22APT010252	SEPD	A	1	0.16	0%	\$0	2022	COMPLETE	
HO22APT010253	SEPD	A	1	0.16	0%	\$0	2022	COMPLETE	
Subtotal Other			553	24.08	2%	\$314,922			
Total Additional Restoration			1,344	1,002	74%	\$33,550,900			

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. % ISRP 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. % ISRP Complete compared to ISR new permit.

All Actions 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.

			Continued Annual Alternative ISR (ac):	573	28%
			Comp Actions (ac):	1,002	
			All Actions (ac):	436	
Continued Annual Alternative ISR (ac):	559	29%	Total ISR New Permit (ac):	1,437	92.33
Required ISR New Permit (ac):	1,345		Total ISR (ac):	2,010	
Total ISR (ac):	1,904				

REST BMP ID	REST BMP TYPE ¹	BMP CLASS	IMPERVIOUS ACRES	% ISR GOAL	IMPLEMENTATION COSTS	IMPLEMENTATION STATUS	IMPLEMENTATION COMPLETION YEAR (FY)	NOTES
Obligations from Previous Permit That Must Be Continued or Met								
Operational Programs^{2,3}								
		A	356	64%	\$400,000	UNDER CONST	2023	
		A	356	64%	\$400,000	PROPOSED	2024	
		A	356	64%	\$400,000	PLANNING	2025	
		A	356	64%	\$400,000	PLANNING	2026	
		A	356	64%	\$400,000	PLANNING	2027	
		A	356	64%	\$400,000	PLANNING	2028	
		A	76	14%	\$75,000	UNDER CONST	2023	
		A	76	14%	\$75,000	PROPOSED	2024	
		A	76	14%	\$75,000	PLANNING	2025	
		A	76	14%	\$75,000	PLANNING	2026	
		A	76	14%	\$75,000	PLANNING	2027	
		A	76	14%	\$75,000	PLANNING	2028	
		A	28	5%	\$0	UNDER CONST	2023	EIA using 2014 Accounting Guidance. Because the County operates under a comprehensive program, this is considered a permanent practice and credit is cumulative, not annual. The planning goal is to continue to achieve 140.3 EIA by the end of the current permit (Permit # 22-DP-3318) to maintain the sum of 2015-2019 septic pump-outs used towards the County's 20% Restoration Target (Permit # 11-DP-3318).
		A	28	5%	\$0	PROPOSED	2024	
		A	28	5%	\$0	PLANNING	2025	
		A	28	5%	\$0	PLANNING	2026	
		A	28	5%	\$0	PLANNING	2027	
		A	28	5%	\$0	PLANNING	2028	
		A	28	5%	\$0	PLANNING	2028	
		A	28	5%	\$0	PLANNING	2028	
			488.6	87.3%	\$950,000			
			572.7	102.4%	\$2,375,000			
Capital Projects (Completed to Replace Annual Obligations)^{2,3}								
				0%				
				0%				
			0	0%	\$0			
			0	0%	\$0			
Other (Completed to Replace Annual Obligations)^{2,3}								
			0	0%	\$0			
			0	0%	\$0			
			488.6	87.3%	\$950,000			
			572.7	102.4%	\$2,375,000			
Restoration for the New Permit								
Operational Programs^{3,5}								
				0%				
				0%				
				0%				
				0%				

REST BMP ID	REST BMP TYPE ¹	BMP CLASS	IMPERVIOUS ACRES	% ISR GOAL	IMPLEMENTATION COSTS	IMPLEMENTATION STATUS	IMPLEMENTATION COMPLETION YEAR (FY)	NOTES
	Operations Next Two Years (FY23-24) ⁴		0	0%	\$0			
	Operations Next Five Years (FY23-27) ⁴		0	0%	\$0			
	Capital Projects^{3,5}							
HO21ALN000184	STRE	A	10.29	1%	\$1,640,680	COMPLETE	2023	Ashbrook Drive Stream Restoration
HO21ALN000145	STRE	A	34.20	3%	\$838,000	COMPLETE	2023	Bonnie Branch 2 Stream Restoration
HO20ALN000159	STRE	A	11.16	1%	\$419,049	COMPLETE	2023	Ducks Foot Lane - Phase 3
HO21ALN000144	STRE	A	13.90	1%	\$490,731	COMPLETE	2023	Wharff Lane Stream Restoration
HO20ALN000124	STRE	A	133.80	10%	\$1,685,000	COMPLETE	2023	Woodcrest Drive Stream Rehabilitation
HO18RST901518	SPSC	A	12.1	1%	\$1,178,099	UNDER CONST	2024	Cardinal Forest Stormwater Pond Repair and Retrofit SPSC System at Inflow
HO21RST105269	PWED	S	0.38	0%	\$881,205	PROPOSED	2024	Cherrytree Farm 1 / 2 Pond Repair and Retrofit Wet Pond
HO21ALN000176	STRE	A	7.32	1%	\$288,373	PROPOSED	2024	Cherrytree Farm 1 / 2 Stream Stabilization
HO20RST900323	PWET	S	9.17	1%	\$1,823,182	PROPOSED	2024	Country Meadows Lane Pond Repair and Retrofit Wet Pond
HO19RST901530	PWET	S	45.78	3%	\$1,719,050	UNDER CONST	2024	Gerwig Lane Principal Spillway Replacement
HO20ALN000112	STRE	A	57.24	4%	\$1,745,000	UNDER CONST	2024	Mellen Court Stream Restoration Mainstem and SD-1 Outfall
HO21ALN000178	STRE	A	0.81	0%	\$102,500	UNDER CONST	2024	Mellen Court Stream Restoration Trib 1
HO21ALN000177	STRE	A	2.01	0%	\$102,500	UNDER CONST	2024	Mellen Court Stream Restoration Trib 2
HO20ALN000113	STRE	A	2.21	0%	\$100,000	UNDER CONST	2024	Mellen Court Stream Restoration Trib 3
HO20RST901550	WPWS	S	15.64	1%	\$1,652,809	PROPOSED	2024	Montgomery Run 1 Pond Repair and Retrofit Wet Pond
HO20RST901541	PWET	S	5.52	0%	\$1,284,202	UNDER CONST	2024	Nottingham Principal Spillway Replacement
HO20RST901526	PWET	S	1.04	0%	\$923,784	PROPOSED	2024	Patapsco Park Estates Pond Repair and Retrofit Wet Pond
HO18RST901523	MSGW	E	1.84	0%	\$902,696	PROPOSED	2024	Spring Valley Chase Retrofit Submerged Gravel Wetland
HO18ALN000007	OUT	A	8.99	1%	\$810,666	PROPOSED	2024	Stonehouse Drive Outfall Stabilization
HO19ALN000128	STRE	A	27.66	2%	\$998,679	PROPOSED	2024	Wood Creek Stream Rehabilitation
HO20RST901546	PWET	S	8.48	1%	\$2,414,430	PROPOSED	2024	Woodmark Stormwater Management Retrofit
HO22ALN000162	STRE	A	20.31	2%	\$500,000	PROPOSED	2024	Woodmark Stormwater Management Retrofit and Stream Rehabilitation
HO18RST901521	OTH	S	0.74	0%	\$890,785	PROPOSED	2024	Woodpark Lane Pond Repair and Retrofit Pretreatment Forebays at Inflows
	Subtotal Capital Next Two Years (FY23-24)		430.6	32.0%	\$23,391,420			
	Subtotal Capital Next Five Years (FY23-27)		430.6	32.0%	\$23,391,420			
	Other^{3,5}							
COMMUNITY ENVIRONMENTAL PARTNERSHIPS			1	0%	\$450,000	UNDER CONST	2023	Howard EcoWorks - OCS Operating Budget
COMMUNITY ENVIRONMENTAL PARTNERSHIPS			1	0%	\$450,000	PROPOSED	2024	Howard EcoWorks - OCS Operating Budget
COMMUNITY ENVIRONMENTAL PARTNERSHIPS			1	0%	\$450,000	PLANNING	2025	Howard EcoWorks - OCS Operating Budget
COMMUNITY ENVIRONMENTAL PARTNERSHIPS			1	0%	\$450,000	PLANNING	2026	Howard EcoWorks - OCS Operating Budget
COMMUNITY ENVIRONMENTAL PARTNERSHIPS			1	0%	\$450,000	PLANNING	2027	Howard EcoWorks - OCS Operating Budget
COMMUNITY ENVIRONMENTAL PARTNERSHIPS			1	0%	\$450,000	PLANNING	2028	Howard EcoWorks - OCS Operating Budget
	Subtotal Other Next Two Years (FY23-24)		2	0.1%	\$900,000			
	Subtotal Other Next Five Years (FY23-27)		5	0.4%	\$2,250,000			
	Total Next Two Years (FY23-24)		432.6	32.2%	\$24,291,420			
	Total Next Five Years (FY23-27)		435.6	32.4%	\$25,641,420			

Check with MDE Geodatabase:

Type, class, impervious acres, implementation cost and implementation status should match the various geodatabase tables for BMPs (AIBMPLine, 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.
6. Values are current as of June 2023

Version 6-22-22

ISRP Cost 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	\$800,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$400,000	\$3,200,000
Inlet Cleaning	\$150,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$75,000	\$600,000
IDDE	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Support of Capital Projects								\$0
Debt Service Payment ¹	\$1,885,962	\$1,358,809	\$2,160,534	\$2,885,904				\$8,291,209
Other (please stipulate program expenditure) ² - Operating for Howard EcoWorks			\$450,000	\$450,000	\$450,000	\$450,000	\$450,000	\$2,250,000
Capital Expenditures (costs)³								
General Fund (Paygo)								\$0
WPR Fund (Paygo)								\$0
Debt Service								\$0
Grants & Partnerships								\$0
Other (please stipulate capital expenditure) ² - ALL CAPITAL EXPENDITURES	\$30,066,076	\$6,875,702	\$5,073,460	\$18,317,960				\$60,333,198
Subtotal operation and paygo:	\$32,902,038	\$8,709,511	\$8,158,994	\$22,128,864	\$925,000	\$925,000	\$925,000	\$74,674,407
Total expenditures:	\$32,902,038	\$8,709,511	\$8,158,994	\$22,128,864	\$925,000	\$925,000	\$925,000	\$74,674,407

Debt service payment as a percentage of total expenditures: 11%
 Total ISRP costs except debt service: \$66,383,198
 Compare ISRP costs (except debt service) / total ISRP proposed actions for next five years (FY23-FY27): 259%
 Total capital expenditures: \$60,333,198
 Compare total capital expenditures / total ISRP proposed actions capital costs for next five years (FY23-FY27): 258%

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. (\$110M)

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. (\$60M)

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 "past up thru" FY 2021 (costs associated with capital projects attributed to the current permit) to FY 2027

Howard County Notes:

- (1) The column labeled "Past Up Thru FY 2021" covers FY19 to FY21.
- (2) Under the "Operating Expenditures (costs)" category, the row labeled Debt Service Payment is calculated based on the assumption that debt will be issued one year after being authorized.
- (3) Under the "Capital Expenditures (Costs)" category, the row labeled Debt Service represents authorized debt.
- (4) Costs are based on the values shown in the All Actions and Completed Actions tabs, which include all funds over the lifecycle of a project, i.e., total cost as of implementation year = sum of costs over multiple fiscal years

ISRP Revenue 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 AFTER YEAR 5 FY 27
Annual Revenue ² Appropriated for ISRP	\$31,430,700	\$10,706,250	\$10,143,750	\$15,151,380	\$925,000	\$925,000	\$925,000	\$25,295,130	\$70,207,080
Annual Costs towards ISRP ³	\$30,066,076	\$7,954,624	\$5,998,460	\$19,242,960	\$925,000	\$925,000	\$925,000	\$25,241,420	\$66,037,119

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

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 FY24 at the time of FAP reporting. See table of Fund Sources.
3. See table of ISRP Cost.

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ISRP Revenue: Projected cumulative 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	PAST UP THRU CURRENT YEAR FY 22	PAST UP THRU PROJECTED YEAR 1 FY 23	PAST UP THRU PROJECTED YEAR 2 FY 24	PAST UP THRU PROJECTED YEAR 3 FY 25	PAST UP THRU PROJECTED YEAR 4 FY 26	PAST UP THRU PROJECTED YEAR 5 FY 27	CUMULATIVE AFTER 2-YEARS FY 23-24 ^{1,5}	TOTAL YEAR 5 FY 27
Cumulative Revenue ² Appropriated for ISRP	\$31,430,700	\$42,136,950	\$52,280,700	\$67,432,080	\$68,357,080	\$69,282,080	\$70,207,080	\$67,432,080	\$70,207,080
Cumulative Costs towards ISRP ³	\$30,066,076	\$38,020,700	\$44,019,160	\$63,262,119	\$64,187,119	\$65,112,119	\$66,037,119	\$63,262,119	\$66,037,119

Compare revenue appropriated / annual costs: **107%**
Reporting Criteria: **100%**

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 FY24 at the time of FAP reporting. See table of Fund Sources.
3. See table of ISRP Cost.
4. The formulas in this table have been updated to show cumulative funds over the years to more appropriately capture the total funds appropriated and spent over the life of the permit term.
5. This column includes ISRP Revenue budgeted through FY24.

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Fund Sources 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 THRU¹ 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)	\$ 13,415,000	\$ -	\$ -	\$ 8,090,000				\$ 21,505,000
Miscellaneous Fees (WPR Fund)	\$ -	\$ -	\$ -	\$ -				\$ -
General Fund	\$ -	\$ -	\$ -	\$ -				\$ -
Operating - Street Sweeping	\$ 800,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 400,000	\$ 3,200,000
Operating - Inlet Cleaning	\$ 150,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 75,000	\$ 600,000
Operating - Howard EcoWorks			\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000	\$ 450,000	\$ 2,250,000
Subtotal Paygo Sources	\$ 14,365,000	\$ 475,000	\$ 925,000	\$ 9,015,000	\$ 925,000	\$ 925,000	\$ 925,000	\$ 27,555,000
Debt Service Authorized (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	\$ 200,000	\$ -	\$ -	\$ 3,500,000				\$ 3,700,000
Revenue (Utility) Bonds - SW Bonds	\$ 20,150,000	\$ 10,500,000	\$ 9,500,000	\$ 4,530,000				\$ 44,680,000
State Revolving Loan Fund	\$ (2,554,000)	\$ -	\$ -	\$ -				\$ (2,554,000)
Public-private partnership (debt service)*	\$ -	\$ -	\$ -	\$ -				\$ -
Subtotal Debt Service	\$ 17,796,000	\$ 10,500,000	\$ 9,500,000	\$ 8,030,000	\$ -	\$ -	\$ -	\$ 45,826,000
Grants and Partnerships (no payment is expected)								
State funded grants	\$ 2,662,000	\$ 3,300,000	\$ 3,100,000	\$ 1,300,000				\$ 10,362,000
Federal funded grants	\$ -	\$ -	\$ -	\$ -				\$ -
Public-private partnership (matched grant) - Columbia Association	\$ 100,000	\$ -	\$ -	\$ 500,000				\$ 600,000
Subtotal Grants and Partnerships	\$ 2,762,000	\$ 3,300,000	\$ 3,100,000	\$ 1,800,000	\$ -	\$ -	\$ -	\$ 10,962,000
Total Annual Sources of Funds	\$ 34,923,000	\$ 14,275,000	\$ 13,525,000	\$ 18,845,000	\$ 925,000	\$ 925,000	\$ 925,000	\$ 84,343,000
Percent of Funds Directed Toward ISRP	90%	75%	75%	80%	100%	100%	100%	

Compare total permit term paygo ISRP costs / subtotal permit term paygo sources: **319%**
 Compare total ISRP expenditures / total permit term annual sources of funds: **104%**

* 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.

* Water Infrastructure Finance and Innovation Act of 2014 (WIFIA) loan

Data from approved Budget Book for each FY.

Version 6-22-22

Best Management Practice (BMP) Codes

Code Description	Code	Class
Ponds		
Micro-Pool Extended Detention Pond	PMED	S
Multiple Pond	PMPS	S
Pocket Pond	PPKT	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 Systems		
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 Systems		
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	OTH	
Alternative BMP		
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

Classes

A = Alternative BMP

E = Environmental Site Design

S = Structural BMP



Howard County

Internal Memorandum

Subject: Testimony & Fiscal Impact Statement

Council Resolution No. X-2023: A RESOLUTION approving a Financial Assurance Plan for Howard County's National Pollutant Discharge Elimination System, Municipal Separate Storm Sewer System permit programs, in accordance with Section 4-202.1 of the Environmental Article of the Annotated Code of Maryland

To: Brandee Ganz,
Chief Administrative Officer

DocuSigned by:

Brandee Ganz

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From: Yosef Kebede, Director
Department of Public Works

DocuSigned by:

Yosef Kebede

7436E469C7824F6...

Date: May 18, 2023

The Department of Public Works has been designated coordinator to prepare testimony for CR-XX-2023. In accordance with the Environment Articles of the Annotated Code of Maryland and under the National Pollutant Discharge Elimination System (NPDES) permit, a Municipal Separate Storm Sewer System (MS4) permit was issued to Howard County on December 18, 2014. The permit mandated that the County implement restoration efforts for 20% of its total impervious surface to the maximum extent practicable by December 17, 2019.

As part of the impervious area accounting and restoration process, the Maryland Department of the Environment (MDE) allowed the county to periodically update and refine the impervious area baseline for consideration during the permit term. MDE acknowledged the untreated impervious area baseline for Howard County was 11,020 acres. Applying the 20% factor to the untreated area yielded a restoration target of 2,204 acres. At the close of the permit in December of 2019, Howard County exceeded the State requirement by treating 2,208 acres.

Since January 2020, the County's permit has been in an administrative continuance. However, we received our new 5-year permit on December 22, 2022, covering the period through 2027. The new impervious acre restoration goal is 1,345 acres.

State law requires the County to approve and file a Financial Assurance Plan (Plan) with MDE every two years. The Plan must describe the actions, revenues, and costs required to meet the prescribed restoration requirement. Furthermore, state law requires the county demonstrate it 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 Plan (2022). Finally, the law requires the County Executive certify that a public hearing was held on the Plan and that the local governing body approved the Plan.

Fiscal Analysis:

Howard County implemented a stormwater utility fee, the Watershed Protection and Restoration Fee (WPRF), on July 1, 2013, as required by State law. Upon implementation of the Fee and the Watershed Protection and Restoration Fund, the County increased efforts to plan, design, construct and monitor restoration projects necessary to meet the past, current and future NPDES MS4 permit restoration goals.

The County continues to implement the numerous programs required by the MS4 permit. Best management practices (BMPs) will continue to be utilized to complete the restoration work and improve water quality,

including outfall stabilization, tree planting, construction of new BMPs, retrofitting existing BMPs, stream restoration, street sweeping, inlet cleaning, and septic system upgrades, pump-outs, and connections to the sanitary sewer system. The County also continues to research and develop the voluminous electronic data necessary to meet the ever-expanding Geodatabase reporting requirements of the MS4 permit.

The County will use the following revenue sources for FY 2023 and FY 2024 in funding the costs of the MS4 permit over the next two fiscal years:

Watershed Protection and Restoration Fee- The County currently collects approximately \$10.8 million from the Watershed Protection and Restoration Fee and utilizes this Fund to absorb a portion of the operating costs in administering stormwater restoration projects and to provide debt service for General Obligation or Stormwater Bonds issued to fund the stormwater restoration projects.

Grants- The County typically receives funding from various State and Federal grant programs to conduct stormwater restoration work. There is also the potential to work with private entities in conducting stormwater restoration work.

Stormwater Bonds – The County will issue stormwater bonds to fund necessary stormwater restoration projects required by the MS4 permit

General Fund- The County will utilize its General Fund to absorb a portion of the operating costs in administering stormwater restoration projects.

General Obligation Bonds- The County will issue General Obligation Bonds, if necessary, to fund necessary stormwater restoration projects required by the MS4 permit.

Resolution

BY THE COUNCIL

This Bill, having been approved by the Executive and returned to the Council, stands enacted on _____, 2023.

Michelle Harrod
Michelle Harrod, Administrator to the County Council

BY THE COUNCIL

This Bill, having been passed by the yeas and nays of two-thirds of the members of the Council notwithstanding the objections of the Executive, stands enacted on _____, 2023.

Michelle Harrod, Administrator to the County Council

BY THE COUNCIL

This Bill, having received neither the approval nor the disapproval of the Executive within ten days of its presentation, stands enacted on _____, 2023.

Michelle Harrod, Administrator to the County Council

BY THE COUNCIL

This Bill, not having been considered on final reading within the time required by Charter, stands failed for want of consideration on _____, 2023.

Michelle Harrod, Administrator to the County Council

BY THE COUNCIL

This Bill, having been disapproved by the Executive and having failed on passage upon consideration by the Council stands failed on _____, 2023.

Michelle Harrod, Administrator to the County Council

BY THE COUNCIL

This Bill, the withdrawal of which received a vote of two-thirds (2/3) of the members of the Council, is withdrawn from further consideration on _____, 2023.

Michelle Harrod, Administrator to the County Council