
MS4 Information	
Jurisdiction	Charles County
Contact Name	James Campbell
Phone	301-645-0598
Address	200 Baltimore Street
City	La Plata
State	MD
Zip	20646
Email	CampbelJ@CharlesCountyMD.gov
Impervious Acre Baseline (Untreated Acres)	7887.00
Permit Number	11-DP-3322
Reporting Year	2020

Check with MS4 Geodatabase:

Should match Permit Info table of Geodatabase.

VERSION 8/20/20

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

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

Baseline: 7,887

REST BMP TYPE ¹	BMP CLASS	IMP ACRES	IMPL COST	% ISRP COMPLETE	IMPL STATUS ²	PROJECTED IMPL YR ³	
Operational Programs⁴							
SDV	A	20	\$409,300	0.3%	Under Construction	FY2021	
SEPP	A	18	\$110,000	0.2%	Under Construction	FY2021	
SDV	A	20	\$417,500	0.3%	Planning	FY2022	
SEPP	A	18	\$125,000	0.2%	Planning	FY2022	
SDV	A	20	\$425,900	0.3%	Planning	FY2023	
SEPP	A	18	\$127,500	0.2%	Planning	FY2023	
SDV	A	20	\$434,700	0.3%	Planning	FY2024	
SEPP	A	18	\$130,050	0.2%	Planning	FY2024	
SDV	A	20	\$443,500	0.3%	Planning	FY2025	
SEPP	A	18	\$132,651	0.2%	Planning	FY2025	
Average Operations Next Two Years (FY2021-FY2022) ⁵		38	\$1,061,800	0.5%			
Average Operations Next Five Years (FY2021-FY2025) ⁵		38	\$2,756,101	0.5%			
Average Operations All Years ⁵		41	\$3,290,467	1%			
Capital Projects							
SHST	A	81	\$1,423,670	1.0%	Under Construction	FY2021	Cliffton Shoreline Stabilization Phase 1
SHST	A	92.7	\$1,616,710	1.2%	Under Construction	FY2021	Cliffton Shoreline Stabilization Phase 2
BIO	E	3.43	\$504,900	0.0%	Under Construction	FY2021	General Smallwood Middle School
STRE	A	37.79	\$1,101,510	0.5%	Under Construction	FY2021	Hunt Club - Bridle Path Stream Restoration
STRE	A	106.07	\$1,260,643	1.3%	Under Construction	FY2021	Ruth B. Swann Stream Restoration (Lower)
STRE	A	48	\$2,174,400	0.6%	Planning	FY2022	Ruth B. Swann Stream Restoration (Upper)
STRE	A	34.62	\$1,568,286	0.4%	Planning	FY2022	Ruth B. Swann Stream Restoration (Trib)
STRE	A	17.2	\$925,000	0.2%	Planning	FY2023	Walter Mitchell Outfall and Stream Restoration
STRE	A	30.2	\$1,056,890	0.4%	Planning	FY2023	CSM Tributaries Stream Restoration
STRE	A	10.85	\$1,100,000	0.1%	Planning	FY2023	Acton Village - Westdale Drive Stream Restoration
STRE	A	110	\$1,972,800	1.4%	Planning	FY2024	Port Tobacco Stream Restoration
WPOND	S	4.62	\$304,911	0.1%	Planning	FY2024	Best Buy Wetpond Expansion
PWED, STRE	S, A	25.31	\$1,670,409	0.3%	Planning	FY2024	White Plains Golf Course Pond Retrofit & Stream Restoration
PWED	S	9.63	\$635,561	0.1%	Planning	FY2025	Wilton Court Pond Retrofit
PWED, SPSC	S	17.13	\$1,130,546	0.2%	Planning	FY2025	South Hampton Pond Retrofits and Step Pool
STRE	A	14	\$743,620	0.2%	Planning	FY2025	Milton Somers Stream Restoration
PWED	S	20.91	\$620,000	0.3%	Planning	FY2025	White Oak Pond Retrofit
Subtotal Capital Next Two Years (FY2021-FY2022)		404	\$9,650,119	5%			
Subtotal Capital Next Five Years (FY2021-FY2025)		663	\$19,809,856	8%			
Subtotal Capital All Years		827	\$25,563,086	10%			

Other						
SEPC	A	1	\$0	0.0%	Under Construction	FY2021
SEPD	A	2	\$0	0.0%	Under Construction	FY2021
SEPC	A	1	\$0	0.0%	Planning	FY2022
SEPD	A	2	\$0	0.0%	Planning	FY2022
SEPC	A	1	\$0	0.0%	Planning	FY2023
SEPD	A	2	\$0	0.0%	Planning	FY2023
SEPC	A	1	\$0	0.0%	Planning	FY2024
SEPD	A	2	\$0	0.0%	Planning	FY2024
SEPC	A	1	\$0	0.0%	Planning	FY2025
SEPD	A	2	\$0	0.0%	Planning	FY2025
Subtotal Other Next Two Years (FY2021-FY2022)		6	\$0	0.1%		
Subtotal Other Next Five Years (FY2021-FY2025)		15	\$0	0.2%		
Subtotal Other All Years		36	\$0	0.5%		
Total Next Two Years (FY2021-FY2022)		448	\$10,711,919	5.7%		
Total Next Five Years (FY2021-FY2025)		716	\$22,565,957	9.1%		
Total All Years		904	\$28,853,553	11.5%		

Check with MS4 Geodatabase:

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

Notes:

1. Use BMP domains from the MS4 Geodatabase which are shown on the Restoration BMP Type Code tab.
2. Complete, Under Construction, Planning, or Proposed.
3. Use Fiscal Year (FY)
4. For street sweeping indicate the annual frequency that the streets are swept, and for storm drain or catch basin cleaning report the pounds of material removed
5. Average IMP ACRES for Operational BMPs should be the average of BMP 1 + the average of BMP 2, etc.
IMPL COST is a summation and not an average.

VERSION 8/20/20

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 2019	CURRENT YEAR FY 2020	PROJECTED YEAR 1 FY 2021	PROJECTED YEAR 2 FY 2022	PROJECTED YEAR 3 FY 2023	PROJECTED YEAR 4 FY 2024	PROJECTED YEAR 5 FY 2025	TOTAL COSTS
Operating Expenditures (costs)								
Street Sweeping Program	\$301,276	\$109,563	\$107,900	\$108,000	\$108,200	\$108,400	\$108,500	\$951,839
Inlet Cleaning	\$633,567	\$411,077	\$409,300	\$417,500	\$425,900	\$434,700	\$443,500	\$3,175,544
Support of Capital Projects	\$707,472	\$231,976	\$219,900	\$220,400	\$226,400	\$232,500	\$239,000	\$2,077,648
Debt Service Payment	\$4,106,875	\$1,754,400	\$2,087,000	\$2,687,600	\$3,466,400	\$4,287,300	\$5,091,300	\$23,480,875
Septic Pump-Out (Environmental Service Fund)	\$372,193	\$123,289	\$110,000	\$125,000	\$127,500	\$130,050	\$132,651	\$1,120,683
Capital Expenditures (costs)								
General Fund (Paygo)								\$0
WPR Fund (Paygo)	\$116,834	\$66,233	\$216,000	\$149,000	\$77,000	\$77,000	\$77,000	\$779,067
Debt Service	\$18,071,958	\$3,800,000	\$14,742,000	\$16,167,000	\$16,082,000	\$15,179,000	\$2,550,928	\$86,592,886
Grants & Partnerships								\$0
Other (please stipulate capital expenditure)*	-	-	-	-	-	-	-	\$0
Subtotal Operation and Paygo:	\$6,238,217	\$2,696,538	\$3,150,100	\$3,707,500	\$4,431,400	\$5,269,950	\$6,091,951	\$31,585,656
Total Expenditures:	\$24,310,175	\$6,496,538	\$17,892,100	\$19,874,500	\$20,513,400	\$20,448,950	\$8,642,879	\$118,178,542

Total ISRP costs except debt service: \$94,697,667

Compare ISRP costs (except debt service) / total ISRP proposed actions: 328%

Check with MS4 Geodatabase:

The total current FY2020 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 FY2021 expenditure should be less than the combined total of the "OP_BUDGET" and "CAP_BUDGET" fields in the Fiscal Analyses table of the geodatabase

*Insert additional rows as needed.

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 2019	CURRENT YEAR FY 2020	PROJECTED YEAR 1 FY 2021	PROJECTED YEAR 2 FY 2022	PROJECTED YEAR 3 FY 2023	PROJECTED YEAR 4 FY 2024	PROJECTED YEAR 5 FY 2025	TOTAL NEXT 2-YEARS FY 21-22 ¹	TOTAL
Annual Revenue ² Appropriated for ISRP		\$10,827,580	\$9,489,100	\$20,009,100	\$21,414,600	\$21,382,000	\$20,531,400	\$29,498,200	\$103,653,780
Annual Costs towards ISRP ³	\$24,310,175	\$6,496,538	\$17,892,100	\$19,874,500	\$20,513,400	\$20,448,950	\$8,642,879	\$37,766,600	\$118,178,542

Compare revenue appropriated / annual costs: 78%
WPRP 2020 Reporting Criteria: 100%

ISRP = Impervious Surface Restoration Program

Notes:

- 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.
- Revenue means "dedicated revenues, funds, or sources of funds (per Article 4-202.1(j)(4)(ii)).
- See table of ISRP Cost.

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

SOURCE	PAST UP THRU FY 2019	CURRENT YEAR FY 2020	PROJECTED YEAR 1 FY 2021	PROJECTED YEAR 2 FY 2022	PROJECTED YEAR 3 FY 2023	PROJECTED YEAR 4 FY 2024	PROJECTED YEAR 5 FY 2025	TOTAL NEXT FIVE YEARS
Paygo Sources								
Stormwater Remediation Fees (WPR Fund)	\$ 9,644,590	\$ 3,970,537	\$ 4,767,900	\$ 4,782,900	\$ 4,835,400	\$ 4,887,800	\$ 4,940,200	\$ 24,214,200
Miscellaneous Fees (WPR Fund)	\$ 248,828	\$ 76,302	\$ 2,200	\$ 2,200	\$ 2,200	\$ 2,200	\$ 2,200	\$ 11,000
General Fund	\$ 1,173,158	\$ 550,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 300,000	\$ 1,500,000
Fund Balance (WPR Fund)	\$ 1,144,434	\$ 102,481	\$ 509,000	\$ 72,000	\$ -	\$ -	\$ -	\$ 581,000
Sediment & Erosion Control Fees (Inspection & Review)	\$ 1,390,793	\$ 364,834	\$ 364,000	\$ 364,000	\$ 364,000	\$ 364,000	\$ 364,000	\$ 1,820,000
Stormwater Maintenance Inspection Fees (Inspection)	\$ 1,315,201	\$ 522,169	\$ 364,000	\$ 364,000	\$ 364,000	\$ 364,000	\$ 364,000	\$ 1,820,000
Subtotal Paygo Sources	\$ 14,917,004	\$ 5,586,324	\$ 6,307,100	\$ 5,885,100	\$ 5,865,600	\$ 5,918,000	\$ 5,970,400	\$ 29,946,200
Debt Service (paygo sources will be used to pay off debt service. Note that previous appropriations for debt service used for ISRP is listed in FY 2017).								
County Transportation Bonds								\$ -
General Obligation Bonds	\$ 19,680,000	\$ 6,000,000	\$ 3,800,000	\$ 14,742,000	\$ 16,167,000	\$ 16,082,000	\$ 15,179,000	\$ 65,970,000
Revenue (Utility) Bonds								\$ -
State Revolving Loan Fund	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Public-private partnership (debt service)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Subtotal Debt Service	\$ 19,680,000	\$ 6,000,000	\$ 3,800,000	\$ 14,742,000	\$ 16,167,000	\$ 16,082,000	\$ 15,179,000	\$ 65,970,000
Grants and Partnerships (no payment is expected)								
State funded grants								\$ -
Federal funded grants								\$ -
Public-private partnership (matched grant)								\$ -
Subtotal Grants and Partnerships	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Annual Sources of Funds	\$ 34,597,004	\$ 11,586,324	\$ 10,107,100	\$ 20,627,100	\$ 22,032,600	\$ 22,000,000	\$ 21,149,400	\$ 95,916,200
Percent of Funds Directed Toward ISRP								

Compare total permit term paygo ISRP costs / subtotal permit term paygo sources: **53%**
 Compare total permit term ISRP costs / total permit term annual sources of funds: **71%**

* WPR Fund: Watershed Protection and Restoration Fund

Check with MS4 Geodatabase:

The total sources related to WPR Funds in Current FY2020 should match the "WPR_FUND" field of the geodatabase.

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

Baseline:

7,887

Requirement:

REST BMP ID	REST BMP TYPE ¹	BMP CLASS	NUM BMP	IMP ACRES	BUILT DATE	IMPL COST	% ISRP Complete	IMPL STATUS ²	GEN COMMENTS
Operational Programs³									
Storm Drain Vacuuming	SDV	A	150	62.22	6/30/2020	411,077	0.8%	Complete	(155.54 tons x 0.4 acres)
Septic Pump-Out	SEPP	A	900	27	6/30/2020	\$123,289	0.3%	Complete	(900 x 0.03 acres)
Average Operations Complete To Date ⁴			1,050	89		\$534,366	1.1%		
Capital Projects									
CH17ALN000011	STRE	S, A	1	14.96	3/17/2020	\$816,760	0.2%	Complete	Apple Creek Stream Restoration
CH16RST000097	PWED	S	1	29.0	5/26/2020	\$793,680	0.4%	Complete	La Plata High School
CH17ALN000005	STRE	A	1	20.2	6/24/2020	\$689,233	0.3%	Complete	St. Charles Parkway Stream Restoration
CH17ALN000014	STRE	A	1	29.6	6/24/2020	\$965,268	0.4%	Complete	Higdon Elem Stream Restoration
CH20ALN000028	SHST	A	1	70.2	6/29/2020	\$2,488,289	0.9%	Complete	Potomac Heights Shoreline Stabilization
Subtotal Capital Complete To Date			5	164		\$5,753,230	2.08%		
Other									
	SEPC	A	1	0.39	6/30/2020	\$0	0.0%	Complete	Septic Connection to Sewer (0.39 acres/ea)
	SEPD	A	36	9.36	6/30/2020	\$0	0.1%	Complete	Septic Denitrification (0.26 acres/ea)
	SHST	A	2	11.64	6/30/2020	\$0	0.1%	Complete	Private Shoreline Stabilization (291*0.04)
Subtotal Other Complete To Date			39	21		\$0	0.3%		
Total Complete to Date			1,094	274		\$6,287,596	3.5%		

Check with MS4 Geodatabase:

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

Notes:

1. Use BMP domains from the MS4 Geodatabase which are shown on the Restoration BMP Type Code tab.
2. Complete, Under Construction, Planning, or Proposed.
3. For street sweeping indicate the annual frequency that the streets are swept, and for storm drain or catch basin cleaning report the pounds of material removed.
4. Average IMP ACRES for Operational BMPs should be the average of BMP 1 + the average of BMP 2, etc.
IMPL COST is a summation and not an average.

Attachment: Restoration BMP Type Codes

Code	Code Description
AGRE	Green Roof - Extensive
AGRI	Green Roof - Intensive
APRP	Permeable Pavements
ARTF	Reinforced Turf
BRCT	Bio-Reactor Carbon Filter
DID	Disconnection of Illicit Discharges
EDU	Education
FBIO	Bioretention
FORG	Organic Filter (Peat Filter)
FPER	Perimeter (Sand) Filter
FPRES	Floodplain Restoration
FSND	Sand Filter
FUND	Underground Filter
IBAS	Infiltration Basin
ITRN	Infiltration Trench
MENF	Enhanced Filters
MIBR	Infiltration Berms
MIDW	Dry Well
MILS	Landscape Infiltration
MMBR	Micro-Bioretention
MRNG	Rain Gardens
MRWH	Rainwater Harvesting
MSGW	Submerged Gravel Wetlands
MSWB	Bio-Swale
MSWG	Grass Swale
MSWW	Wet Swale
NDNR	Disconnection of Non-Rooftop Runoff
NDRR	Disconnection of Rooftop Runoff
NSCA	Sheetflow to Conservation Areas
ODSW	Dry Swale
PET	Pet Waste Management
PMED	Micropool Extended Detention Pond
PMPS	Multiple Pond System

Code	Code Description
PPKT	Pocket Pond
PWED	Extended Detention Structure, Wet
PWET	Retention Pond (Wet Pond)
RBS	River Bank Stabilization
SPSC	Step Pool Storm Conveyance
SUB	Sub-Soiling
TRA	Trash Removal
WEDW	Extended Detention - Wetland
WPKT	Pocket Wetland
WPWS	Wet Pond - Wetland
WSHW	Shallow Marsh
XDED	Extended Detention Structure, Dry
XDPD	Detention Structure (Dry Pond)
XFLD	Flood Management Area
XOGS	Oil Grit Separator
OTH	Other

Code	Code Description
OUT	Outfall Stabilization
SHST	Shoreline Stabilization
STRE	Stream Restoration
SEPC	Septic Connection to WWTP
SEPD	Septic Denitrification
SEPP	Septic Pumping
CBC	Catch Basin Cleaning
IMPF	Impervious Surface Elimination (to Forest)
IMPP	Impervious Surface Elimination (to Pervious)
MSS	Mechanical Street Sweeping
FPU	Planting Trees or Forestation on Previous Urban
GMB	Grass/Meadow Buffers
FB	Forest Buffers
VSS	Regenerative/Vacuum Street Sweeping
SDV	Storm Drain Vacuuming

*Codes and descriptions from *MDE NPDES MS4, Geodatabase Design and User's Guide, May 2017*