

Restoration Projects To Be Planned, Designed, and/or Constructed From The End Of 4th Generation Permit Through CY 2028

Remaining Unmet Restoration Obligation from Previous Permit (Impervious Acres):	
	0

REST BMP ID	REST BMP TYPE¹	BMP CLASS¹	PERMA-NENT OR ANNUAL BMP	NUM BMP	DRAIN-AGE AREA (acres)	PE (inches)	LENGTH RESTORED (feet)/ LANE MILES (miles)/ MASS LOADING (lbs)	TP REDUCTION (lbs/year)	TSS REDUCTION (lbs/year)	TN² REDUCTION (lbs/year)	IMP ACRES (IA), Calculated from WQ¹ Equations or consultant calculations for practice type	GREEN STORMWATER INFRASTRUC-TURE (GSI) CREDIT (IA X 0.35)	WATERSHED MANAGE-MENT (WM) CREDIT	TOTAL IMP ACRES (W/ GSI AND WM CREDITS)	IMPLEMEN-TATION COST	IMPLEMEN-TATION STATUS²	PROJECTED IMPLEMEN-TATION YEAR	TMDL PARAMETER OR WQ OBJECTIVE ADDRESSED	GENERAL COMMENTS³
Remaining Unmet Restoration Obligations from Previous Permit																			
Annual Operational Programs (Unmet Obligations from Previous Permit)³, ⁴																			
Street Sweeping*		A	ANNUAL											0					
		A	ANNUAL											0					
		A	ANNUAL											0					
		A	ANNUAL											0					
		A	ANNUAL											0					
		A	ANNUAL											0					
Catch Basin Cleaning*		A	ANNUAL											0					
		A	ANNUAL											0					
		A	ANNUAL											0					
		A	ANNUAL											0					
		A	ANNUAL											0					
Septic Sytem Pumping		A	ANNUAL											0					
		A	ANNUAL											0					
		A	ANNUAL											0					
		A	ANNUAL											0					
		A	ANNUAL											0					
		A	ANNUAL											0					
		A	ANNUAL											0					
Subtotal Operations³				0				0	0	0	0			0	\$0				
Capital Projects (Unmet Obligations from Previous Permit Term)																			
Subtotal Capital				0				0	0	0	0	0	0	0	0				
Other (Unmet Obligations from Previous Permit Term)																			
														0					
														0					
Subtotal Other				0				0	0	0	0	0	0	0	\$0				
Total of Remaining Obligations from The Previous Permit				0				0	0	0	0	0	0	0	\$0				
Obligations from Previous Permit That Must Be Continued																			
Annual Operational Programs Required to be																			
Street Sweeping		A	ANNUAL	1							13.36			13.36		Complete	2015		Previous Permit Street Sweeping Credits were accounted by Frederick County's approved mass load protocol and will no longer be allowed to receive this credit for next generation permit.
		A	ANNUAL	1							21.84			21.84	\$38,081	Complete	2016		
		A	ANNUAL	1							18.83			18.83	\$42,153	Complete	2017		
		A	ANNUAL	1							11.2			11.2	\$34,956	Complete	2018		
		A	ANNUAL	1							31.05			31.05	\$23,591	Complete	2019		
Catch Basin Cleaning		A	ANNUAL								0			0	\$62,096	Complete			
		A	ANNUAL								0			0					
		A	ANNUAL								0			0					
		A	ANNUAL								0			0					
		A	ANNUAL								0			0					
Septic Sytem Pumping		A	ANNUAL	288							8.64			8.64	\$0	Complete	2015		
		A	ANNUAL	668							20.04			20.04	\$0	Complete	2016		
		A	ANNUAL	1051							31.53			31.53	\$0	Complete	2017		
		A	ANNUAL	1749							52.47			52.47	\$25,000	Complete	2018		
		A	ANNUAL	3,343							100.29			100.29	\$50,000	Complete	2019		
Subtotal Operations³				1,421				0	0	0	62			61.85	\$275,877				

Capital Projects (Proposed to Replace Annual Obligations)																			
FR17RST800007	FSND	S	PERMANENT	1	6.11	1.06	0	4	2,800.00	30	4.39	0	0	4.39	\$413,000.00	Complete	2020	Nutrient TMDL, TSS	FC - Health Department Dry Pond - Retrofit - Facilitating expansion of the Health Department complex whiel upgrading the ecological benefits of the stormwater facility and mitigating and preventing sinkhole formations.
FR17ALN000004	STRE	A	PERMANENT	1	0	0	200	47	21,544.00	47	3.98	0	0	3.98	\$392,000.00	Complete	2020	Nutrient TMDL, TSS, flooding	Phase I Ltl Hunting Creek Stream Restoration - Flood control and erosion protection for adjacent property owners and structures.
FR17ALN000008	STRE	A	PERMANENT	1	0	0	715	357	673193	1232	103.93	0	0	103.93	\$42,000.00	Complete	2020	Nutrient TMDL, TSS	Bar T RSC North - Highly visible education and outreach facility for property owner running summer camps and youth programs.
FR17APY000043	FPU	A	PERMANENT	1	0	0	0	62.48	98455.50	390.31	38.61	0	0	38.61	\$663,080.00	Complete	2021	Nutrient TMDL, TSS	
FR17APY000046	FPU	A	PERMANENT	1	0	0	0	3.92	6171.00	24.46	2.42	0	0	2.42	\$46,598.10	Complete	2021	Nutrient TMDL, TSS	
FR17APY000046	RFP	A	PERMANENT	1	0	0	0	0.25	441.10	1.43	0.15	0	0	0.15	\$2,118.10	Complete	2021	Nutrient TMDL, TSS	
FR17APY000045	FPU	A	PERMANENT	1	0	0	0	6.41	10098.00	40.03	3.96	0	0	3.96	\$63,044.38	Complete	2021	Nutrient TMDL, TSS	
FR17APY000045	RFP	A	PERMANENT	1	0	0	0	6.25	11027.50	35.85	3.75	0	0	3.75	\$43,780.82	Complete	2021	Nutrient TMDL, TSS	
FR17APY000041	FPU	A	PERMANENT	1	0	0	0	3.92	6171.00	24.46	2.42	0	0	2.42	\$46,598.10	Complete	2021	Nutrient TMDL, TSS	
FR17APY000059, FR17APY000039, FRY17APY000040	FPU	A	PERMANENT	1	0	0	0	53.40	84150.00	333.60	33	0	0	33	\$566,766.57	Complete	2021	Nutrient TMDL, TSS	
FR17APY000059, FR17APY000039, FRY17APY000040	RFP	A	PERMANENT	1	0	0	0	0.00	0.00	0.00	7.05	0	0	7.05	\$88,793.43	Complete	2021	Nutrient TMDL, TSS	
FR17APY000058, FR17APY000038	FPU	A	PERMANENT	1	0	0	0	14.77	23281.50	92.30	9.13	0	0	9.13	\$157,602.35	Complete	2021	Nutrient TMDL, TSS	
FR17APY000058, FR17APY000038	RFP	A	PERMANENT	1	0	0	0	0.00	0.00	0.00	13.05	0	0	13.05	\$165,197.65	Complete	2021	Nutrient TMDL, TSS	
FR17APY000037	FPU	A	PERMANENT	1	0	0	0	24.92	39270.00	155.68	15.4	0	0	15.4	\$266,400.00	Complete	2021	Nutrient TMDL, TSS	
FR17APY000034, FR17APY000036	FPU	A	PERMANENT	1	0	0	0	10.68	16830.00	66.72	6.6	0	0	6.6	\$115,504.23	Complete	2021	Nutrient TMDL, TSS	
FR17APY000034, FR17APY000036	RFP	A	PERMANENT	1	0	0	0	0.00	0.00	0.00	1.65	0	0	1.65	\$21,175.77	Complete	2021	Nutrient TMDL, TSS	
FR17APY000051 through FR17APY000055	FPU	A	PERMANENT	1	0	0	0	29.01	45721.50	181.26	17.93	0	0	17.93	\$162,940.00	Complete	2021	Nutrient TMDL, TSS	
FR17APY000056 and FR19APY000104	FPU	A	PERMANENT	1	0	0	0	48.95	77137.50	305.80	30.25	0	0	30.25	\$272,700.00	Complete	2021	Nutrient TMDL, TSS	
FR22RST000001	FPU	A	PERMANENT	1	4.5	0	0	13.64	22365.64	76.95	8.35	0	0	8.35	\$70,000.00	Design	2022	Nutrient TMDL, TSS, Reforestation	
FR18RST000857	MSWG	E	PERMANENT	1	49.40	1.68	0	21.1	11,800.00	215.7	14.91	5.22	2.53	22.6632	\$1,046,013.84	Under Construction	2021	Nutrient TMDL, TSS, flooding	Localized flood control for adjacent residents.
FR19RST000029	FSND	S	PERMANENT	1	29.26	1.2	0	4.49	11,420.00	2.85	8.21	0	0.39	8.601	\$996,114.50	Design	2022	Nutrient TMDL, TSS	
FR22RST000002	STRE	A	PERMANENT	1	0	0	1498	118.2	431,024.00	130.4	34.76	0	0	34.76	\$2,058,284.55	Design	2022	Nutrient TMDL, TSS	Protection of springs, wetlands and prevention of cattle from entering the stream.
FR19RST000695	PWED	S	PERMANENT	1	3.76	1.58	0	2.2	1,400.00	17.1	4.3052	0	0.62	4.929454	\$387,809.54	Under Construction	2021	Nutrient TMDL, TSS	
FR19RST000419	PWED	S	PERMANENT	1	9.65	3	0	0.27	660.00	0.16	5.325	0	2.6625	7.9875	\$698,207.00	Design	2022	Nutrient TMDL, TSS	
FR19RST000419	STRE	A	PERMANENT	1	3.22	0	229	45.07	70,240.00	114.18	1.97	0	0	1.97	\$77,578.50	Design	2022	Nutrient TMDL, TSS	
FR18RST000054	FSND	S	PERMANENT	1	30.65	1.02	0	9.66	10,304.00	115	6.78	0	0.0339	6.8139	\$766,485.99	Under Construction	2022	Nutrient TMDL, TSS, flooding	Flood and erosion control for adjacent and upstream properties.
FR18RST000020	MSGW	S	PERMANENT	1	89.42	0.7	0	26.43	22,248.00	439	13.9	4.87	0	18.77	\$1,460,859.72	Under Construction	2022	Nutrient TMDL, TSS, flooding	Localized flood control for adjacent residents.
FR22APY000001	FPU	A	PERMANENT	1	0	0	0	9.26	14,586.00	57.82	5.72	0	0	5.72	\$81,008.25	Under Construction	2022	Nutrient TMDL, TSS	
FR22APY000002	RFP	A	PERMANENT	1	0	0	0	0.75	1,323.30	4.30	0.45	0	0	0.45	\$7,789.25	Under Construction	2022	Nutrient TMDL, TSS	
FR22APY000003	FPU	A	PERMANENT	1	0	0	0	16.02	25,245.00	100.08	9.90	0	0	9.9	\$131,900.00	Under Construction	2022	Nutrient TMDL, TSS	
FR22APY000004	FPU	A	PERMANENT	1	0	0	0	7.30	11,500.50	45.59	4.51	0	0	4.51	\$80,280.00	Under Construction	2022	Nutrient TMDL, TSS	
FR22APY000005	FPU	A	PERMANENT	1	0	0	0	49.66	78,259.50	310.25	30.69	0	0	30.69	\$458,374.41	Under Construction	2022	Nutrient TMDL, TSS	
FR22APY000006	RFP	A	PERMANENT	1	0	0	0	44.50	78,515.80	255.25	26.70	0	0	26.7	\$292,439.59	Under Construction	2022	Nutrient TMDL, TSS	
FR22APY000007	FPU	A	PERMANENT	1	0	0	0	153.44	241,791.00	958.54	94.82	0	0	94.82	\$1,125,066.40	Under Construction	2022	Nutrient TMDL, TSS	
FR22APY000008	RFP	A	PERMANENT	1	0	0	0	80.75	142,475.30	463.18	48.45	0	0	48.45	\$421,573.60	Under Construction	2022	Nutrient TMDL, TSS	
FR22APY000009	FPU	A	PERMANENT	1	0	0	0	10.32	16,269.00	64.50	6.38	0	0	6.38	\$92,230.00	Under Construction	2022	Nutrient TMDL, TSS	
FR18APY000061	FPU	A	PERMANENT	1	0	0	0	19.58	30,855.00	122.32	12.10	0	0	12.1	\$111,000.00	Under Construction	2022	Nutrient TMDL, TSS	
FR19APY000105	RFP	A	PERMANENT	1	0	0	0	3.00	5,293.20	17.21	1.80	0	0	1.8	\$14,960.00	Under Construction	2022	Nutrient TMDL, TSS	
FR19APY000100, FR19APY000101	FPU	A	PERMANENT	1	0	0	0	2.14	3,366.00	13.34	1.32	0	0	1.32	\$14,960.00	Under Construction	2022	Nutrient TMDL, TSS	
FR22APY0000010	FPU	A	PERMANENT	1	0	0	0	2.56	4,039.20	16.01	1.58	0	0	1.58	\$16,416.00	Under Construction	2022	Nutrient TMDL, TSS	
FR22APY0000011	RFP	A	PERMANENT	1	0	0	0	1.40	2,470.16	8.03	0.84	0	0	0.84	\$6,384.00	Under Construction	2022	Nutrient TMDL, TSS	
FR22APY0000012	FPU	A	PERMANENT	1	0	0	0	30.26	47,685.00	189.04	18.70	0	0	18.7	\$169,320.00	Under Construction	2022	Nutrient TMDL, TSS	
FR22APY0000013	RFP	A	PERMANENT	1	0	0	0	7.50	13,233.00	43.02	4.50	0	0	4.5	\$29,880.00	Under Construction	2022	Nutrient TMDL, TSS	
FR22APY0000014	FPU	A	PERMANENT	1	0	0	0	21.84	34,417.35	136.44	13.50	0	0	13.5	\$122,700.00	Under Construction	2022	Nutrient TMDL, TSS	
FR22APY0000015	RFP	A	PERMANENT	1	0	0	0	9.33	16,453.03	53.49	5.60	0	0	5.6	\$37,300.00	Under Construction	2022	Nutrient TMDL, TSS	
FR22APY0000016	FPU	A	PERMANENT	1	0	0	0	10.02	15,792.15	62.61	6.19	0	0	6.193	\$42,400.00	Under Construction	2022	Nutrient TMDL, TSS	
FR22APY0000017	FPU	A	PERMANENT	1	0	0	0	4.63	7,293.00	28.91	2.86	0	0	2.86	\$28,680.00	Under Construction	2022	Nutrient TMDL, TSS	
FR22APY0000018	FPU	A	PERMANENT	1	0	0	0	8.19	12,903.00	51.15	5.06	0	0	5.06	\$73,151.27	Under Construction	2022	Nutrient TMDL, TSS	
FR22APY0000019	RFP	A	PERMANENT	1	0	0	0	1.25	2,205.50	7.17	0.75	0	0	0.75	\$7,951.23	Under Construction	2022	Nutrient TMDL, TSS	

FR17RST000038	MSWG	E	PERMANENT	1	42.27	1.23	0	12.91	9,097.93	219.33	11.75	4.11	0.68	16.54	\$1,262,879.50	Under Construction	2021	Nutrient TMDL, TSS	
Subtotal Capital				50				1420.6142	2,512,822.16	7299.8434	710.3532	14.196	6.921979	731.471179	\$15,719,297				
Other (Proposed to Replace Annual Obligations)																			
Nutrient Trades			ANNUAL	1				947	3019607	9346	708.1			708.1					
														0					
Subtotal Other				1				947	3019607	9346	708	0	0	708	\$0				
Total of Obligations from Previous Permit That Must Be Continued				1,472				1,420.6	2,512,822.2	7,299.8	772.2	14.2	6.9	793.3	\$15,995,174				
Proposed Restoration for the Next Permit																			
Operational Programs*																			
Street Sweeping		A	ANNUAL	1							0			0		Planning	2022		Due to the changes in Sweep Sweeping protocol per 2020 Guidance, we will no longer be able to receive the previously reported 96.28 acres equivalent per year. Per conversation on 6/30/2021, we will add these acres into our Unmet Restoration Obligation from Previous Permit.
															\$0				
		A	ANNUAL	1							0			0	\$0	Planning	2023		
		A	ANNUAL	1							0			0	\$0	Planning	2024		
		A	ANNUAL	1							0			0	\$0	Planning	2025		
		A	ANNUAL	1							0			0	\$0	Planning	2026		
Catch Basin Cleaning		A	ANNUAL	1							0			0					
		A	ANNUAL	1							0			0					
		A	ANNUAL	1							0			0					
		A	ANNUAL	1							0			0					
		A	ANNUAL	1							0			0					
Septic System Pumping		A	ANNUAL	2130							0			0		Planning	2022		The County's Enhanced Septic Pumping program is a cumulative acres based on the robust program for 5 years. These impervious credits are reflected as a 5 year value to ensure the MEP spreadsheet shows the continuation of credits from previous MS4 Permit
															\$50,000				
		A	ANNUAL	2130							0			0	\$50,000	Planning	2023		
		A	ANNUAL	2130							0			0	\$50,000	Planning	2024		
		A	ANNUAL	2130							0			0	\$50,000	Planning	2025		
		A	ANNUAL	2130							0			0	\$50,000	Planning	2026		
		A	ANNUAL	2130							0			0	\$50,000	Planning	2027		
		A	ANNUAL	2130							0			0	\$50,000	Planning	2028		
Subtotal Operations (>2029) ^a				14915				879	0	0	0			0	\$350,000				
Capital Projects																			
FY23APY000001	FPU	A	PERMANENT	1	0	0	0	3.74	5,890.50	23.35	2.31	0	0	2.31	\$42,680.00	Under Construction	2023	Nutrient TMDL, TSS	
FY23APY000002	FPU	A	PERMANENT	1	0	0	0	3.74	5,890.50	23.35	2.31	0	0	2.31	\$40,174.62	Under Construction	2023	Nutrient TMDL, TSS	
FY23APY000003	RFP	A	PERMANENT	1	0	0	0	1.25	2,205.50	7.17	0.75	0	0	0.75	\$9,565.38	Under Construction	2023	Nutrient TMDL, TSS	
FY23APY000004	FPU	A	PERMANENT	1	0	0	0	6.23	9,817.50	38.92	3.85	0	0	3.85	\$52,962.50	Under Construction	2023	Nutrient TMDL, TSS	
FY23APY000005	RFP	A	PERMANENT	1	0	0	0	8.75	15,438.50	50.19	5.25	0	0	5.25	\$52,962.50	Under Construction	2023	Nutrient TMDL, TSS	
FY23APY000006	FPU	A	PERMANENT	1	0	0	0	17.80	28,050.00	111.20	11.00	0	0	11	\$190,909.09	Under Construction	2023	Nutrient TMDL, TSS	
FY23APY000007	RFP	A	PERMANENT	1	0	0	0	2.50	4,411.00	14.34	1.50	0	0	1.5	\$19,090.91	Under Construction	2023	Nutrient TMDL, TSS	
FY23APY000008	FPU	A	PERMANENT	1	0	0	0	23.50	37,026.00	146.78	14.52	0	0	14.52	\$236,510.00	Under Construction	2023	Nutrient TMDL, TSS	
FR19RST000115	FSND	S	PERMANENT	1	17.34	1.5	0	2.44	6,220.00	1.56	4.55	0	0.56875	5.11875	\$1,087,890.89	Design	2022	Nutrient TMDL, TSS	Road Culvert enhancements for passing 10 year storm event.
FR17RST000007	PWET	S	PERMANENT	1	237.59	1	0	0	0	0	20.48	0	0	20.48	\$1,247,808.81	Design	2023	Nutrient TMDL, TSS	Removal of potential high hazard dam to protect residential property and public mass transit system downstream.
FR19ALN000023	STRE	A	PERMANENT	1	0	0	1879	74.6	272056	82.28	21.94	0	0	21.94	\$2,882,209.51	Design	2023	Nutrient TMDL, TSS, flooding	Flood and erosion control for local properties as well as protection of public mass transit system downstream.
FR23RST000001	STRE	A	PERMANENT	1	0	0	2017	73.98	94852	92.48	16.7	0	0	16.7	\$0.00	Design	2023	Nutrient TMDL, TSS	Providing riparian buffers from active agricultural farming and preventing a headcut from continuing to drain an existing wetland
FR24RST000001	STRE	A	PERMANENT	1	0	0	1200	177	44400	497	10.27	0	0	10.27	\$1,220,445.53	Design	2024	Nutrient TMDL, TSS	Reduce erosion on private property while protecting County sewer manhole
FR19RST000752	STRE	A	PERMANENT	1	2.3	0.00	94	6	10000	22	1.67	0	0	1.67	\$142,820.46	Design	2024	Nutrient TMDL, TSS	

Creak ReLeaf Reforestation Program Placeholder - 2023	FPU	A	PERMANENT	1	0	0	0	151.3	238425	945.2	85	0	0	85	\$864,908.00	Planning	2023	Nutrient TMDL, TSS	
Watershed Systemics - 2023 Placeholder			PERMANENT	1	0	0	0	0	0	0	0	0	0	0	\$31,581.46	Planning	2023	Nutrient TMDL, TSS	Projects not defined at this current time or
Creak ReLeaf Reforestation Program Placeholder - 2024	FPU	A	PERMANENT	1	0	0	0	160.2	252450	1011.92	90	0	0	90	\$929,284.00	Planning	2024	Nutrient TMDL, TSS	
FR19RST000752	PWED	S	PERMANENT	1	185.77	3.14	0	15.83	40100	10.03	37.98	0	18.99	56.97	\$1,285,384.14	Design	2024	Nutrient TMDL, TSS	
FR18RST900009	PWED	S	PERMANENT	1	69.49	1.49	0	17.25	17666.26	207.7	10.39	0	0	10.39	\$959,693.83	Planning	2024	Nutrient TMDL, TSS	
Watershed Systemics - 2024 Placeholder			PERMANENT	0	0	0	0	0	0	0	0	0	0	0	\$423,925.34		2024	Nutrient TMDL, TSS	Projects not defined at this current time or
FR24RST000002	PWED	S	PERMANENT	1	78.13	1	0	25.9	15000	240.2	20	0	0	20	\$1,528,451.39	Planning	2024	Nutrient TMDL, TSS	
FR25RST000001	STRE	A	PERMANENT	1	0	0	690	46.92	171120	51.75	13.8	0	0	13.8	\$325,352.15	Planning	2025	Nutrient TMDL, TSS	
Watershed Systemics - 2025 Placeholder			PERMANENT	1	0	0	0	0	0	0	0	0	0	0	\$509,461.41	Planning	2025	Nutrient TMDL, TSS	Projects not defined at this current time or
FR19RST000042	PWED	S	PERMANENT	1	114.26	1.00	0	57.08	43664.74	753.23	20.02	0	0	20.02	\$1,168,718.50	Planning	2025	Nutrient TMDL, TSS	
FR19RST000004	PWED	S	PERMANENT	1	37.14	1.00	0	16.8	10000	148	14.38	0	0	14.38	\$1,065,180.85	Planning	2025	Nutrient TMDL, TSS	
FR18RST000591	PWED	S	PERMANENT	1	93	1.12	0	46.88	36062.39	599.59	19.961	0	0	19.961	\$1,100,074.32	Planning	2025	Nutrient TMDL, TSS	
Creak ReLeaf Reforestation Program Placeholder - 2025	FPU	A	PERMANENT	1	0	0	0	153.08	241230	956.32	86	0	0	86	\$888,736.00	Planning	2025	Nutrient TMDL, TSS	
FR18ALN000020	STRE	A	PERMANENT	1	0	0	625	66.64	243040	73.5	19.6	0	0	19.6	\$1,211,957.03	Design	2025	Nutrient TMDL, TSS	
FR18RST000052	PWED	S	PERMANENT	1	212.84	1.82	0	108.01	52178.96	1750.57	34.403	0	0	34.403	\$1,208,272.81	Design	2025	Nutrient TMDL, TSS	
FR20RST000535	PWED	S	PERMANENT	1	9.99	1.00	0	5.21	14874	83.87	13.6	0	0	13.6	\$657,000.00	Planning	2025	Nutrient TMDL, TSS	
FR19RST000413	PWED	S	PERMANENT	1	59.82	1.00	0	25.51	22320.63	123.61	7.99	0	0	7.99	\$617,583.35	Planning	2025	Nutrient TMDL, TSS	
FR18RST000123	PWED	S	PERMANENT	1	227	2.04	0	39.6	19600	518.9	24.53	0	0	24.53	\$1,701,398.95	Design	2026	Nutrient TMDL, TSS	Protection of critical public safety infrastructure, 911 call center communications line. Also providing updated training afacility for rescue teams.
FR19RST000657	PWED	S	PERMANENT	1	10.96	1.00	0	7.2	6717.4	152.1	9.3	0	0	9.3	\$732,379.19	Planning	2026	Nutrient TMDL, TSS	
FR18RST900008	PWED	S	PERMANENT	1	31.80	1.05	0	39.45	20481.95	434.52	17.68	0	0	17.68	\$973,758.81	Planning	2026	Nutrient TMDL, TSS	
FR20RST000184	PWED	S	PERMANENT	1	68.63	1.00	0	10.34	30503.75	262.55	18.05	0	0	18.05	\$1,257,902.81	Planning	2026	Nutrient TMDL, TSS, flooding	Flood and erosion control
FR20RST000464	PWED	S	PERMANENT	1	29.68	1.00	0	4.76	15534.36	126.72	13.05	0	0	13.05	\$756,971.61	Planning	2026	Nutrient TMDL, TSS, flooding	Flood and erosion control
Creek ReLeaf Reforestation Program Placeholder - 2026	FPU	A	PERMANENT	1	0	0	0	178	280500	1112	100	0	0	100	\$1,338,163.00	Planning	2026	Nutrient TMDL, TSS	
FR19RST000656	PWED	S	PERMANENT	1	19.59	1.00	0	5.4	5055.6	120	6.5	0	0	6.5	\$713,720.00	Planning	2026	Nutrient TMDL, TSS	
Watershed Systemics - 2026 placeholder			PERMANENT	1	0	0	0	0	0	0	0	0	0	0	\$2,513,194.84	Planning	2026	Nutrient TMDL, TSS	Projects not defined at this current time or
FR18ALN000019	STRE	A	PERMANENT	0	0	0	0	47.6	173600	52.5	14	0	0	14	\$1,269,855.94	Planning	2026	Nutrient TMDL, TSS	
FR20RST000463	PWED	S	PERMANENT	1	51.68	1.00	0	7.58	24536.08	204	17.42	0	0	17.42	\$1,193,814.40	Planning	2027	Nutrient TMDL, TSS, flooding	Flood control for adjacent properties
FR27RST000001	STRE	A	PERMANENT	1	0	0.00	800	54	35590	59	15.9	0	0	15.9	\$1,226,106.11	Design	2027	Nutrient TMDL, TSS, flooding	Flood control for adjacent properties.
FR18ALN000019	STRE	A	PERMANENT	1	0	0	1575	107.1	390600	118.1	31.5	0	0	31.5	\$2,221,639.00	Planning	2027	Nutrient TMDL, TSS, flooding, temperature	Removal of an in-line pond in a Use Class IV trout Stream. Flood and erosion control as well as protection of public utility infrastructure.
FR17RST000049	PWED	S	PERMANENT	1	64.39	1.17	0	0	0	0	17.514	0	0	17.514	\$1,083,188.41	Planning	2027	Nutrient TMDL, TSS, Temperature	Existing in-line pond proposed for removal withing a Use IV Trout Stream
FR18ALN000021	STRE	A	PERMANENT	1	0	0	600	49.46	94216	95.16	13.1	0	0	13.1	\$643,748.00	Design	2027	Nutrient TMDL, TSS	
Watershed Systemics - 2027 Placeholder			PERMANENT	1	0	0	0	0	0	0	0	0	0	0	\$1,895,699.85	Planning	2027	Nutrient TMDL, TSS	Projects not defined at this current time or

FR20RST000041	PWED	S	PERMANENT	1	73.47	1.00	0	11.85	37043.67	305.41	25.51	0	0	25.51	\$1,287,289.81	Planning	2027	Nutrient TMDL, TSS, flooding	Flood and erosion control
FR20RST900017	STRE	A	PERMANENT	1	0	0	1199	81.56	53827	89.95	11.99	0	0	11.99	\$954,394.77	Planning	2028	Nutrient TMDL, TSS	
FR20RST900017	MSWG	E	PERMANENT	1	1.27	1.00	0	1.35	4277.1	9	0.3	0.11	0	0.405	\$308,821.39	Planning	2028	Nutrient TMDL, TSS	
FR19RST000628	PWED	S	PERMANENT	1	54.46	1.00	0	32.02	27190.32	153.25	10.42	0	0	10.42	\$655,978.39	Planning	2028	Nutrient TMDL, TSS	
FR28RST000001	STRE	A	PERMANENT	1	0.000	0	4369	297.1	1083512	327.68	87.38	0	0	87.38	\$3,546,675.44	Planning	2028	Nutrient TMDL, TSS	
FR19RST001163	PWED	S	PERMANENT	1	80.1	1.00	0	44.02	32470.52	200	9.1	0	0	9.1	\$488,604.76	Planning	2028	Nutrient TMDL, TSS	
FR19RST000068	PWET	S	PERMANENT	1	16.21	1.00	0	7.1	7143.7	118.1	11.6	0	0	11.6	\$609,228.49	Planning	2028	Nutrient TMDL, TSS	
Watershed Systemics - 2028 Placeholder			PERMANENT	0	0	0	0	0	0	0	0	0	0	0	\$6,947,759.00	Planning	2028	Nutrient TMDL, TSS	Projects not defined at this current time or
Subtotal Capital (< 2027)				38				1630.482	2486382.54	10845.408	793.334	0.0	19.55875	812.89275	\$33,258,940				
Other																			
														0					
														0					
Subtotal Other (<2027)				0				0	0	0	0	0	0	0	\$0				
Total for Next Permit (<2027)				14,953				2,509.9	2,486,382.5	10,845.4	793.3	0.0	19.6	812.9	\$33,608,940				
Total for Next Permit and Projected Years				14,971				2,323.6	4,276,788.9	12,525.1	1,045.1	0.1	19.6	1,064.7	\$56,365,638				
Total for Remaining Obligations from The Previous Permit, Continued Obligations, and Proposed Activities for The Next Permit (<2028)				16,424				3,930.5	4,999,204.7	18,145.3	1,565.5	14.2	26.5	1,606.2	\$49,383,412				
Total for Remaining Obligations from The Previous Permit, Continued Obligations, and Proposed Activities for The Next Permit (<2029)				3,388				3,744.2	6,789,611.1	19,824.9	1,817.3	14.3	26.5	1,858.1	\$72,140,110				

BMP Class	
Code	Code Description
A	Alternative BMP
E	ESD
S	Structural BMP

BMP Classification	BMP Type Code	BMP Type
Alternative Surfaces (A)		
E	AGRE	Green Roof – Extensive
E	AGRI	Green Roof – Intensive
E	APRP	Permeable Pavements
E	ARTF	Reinforced Turf
Nonstructural Techniques (N)		
E	NDRR	Disconnection of Rooftop Runoff
E	NDNR	Disconnection of Non-Rooftop Runoff
E	NSCA	Sheetflow to Conservation Areas
Micro-Scale Practices (M)		
E	MRWH	Rainwater Harvesting
E	MSGW	Submerged Gravel Wetlands
E	MILS	Landscape Infiltration
E	MIBR	Infiltration Berms
E	MIDW	Dry Wells
E	MMBR	Micro-Bioretenion
E	MRNG	Rain Gardens
E	MSWG	Grass Swale
E	MSWW	Wet Swale
E	MSWB	Bio-Swale
E	MENF	Enhanced Filters
Ponds (P)		
S	PWED	Extended Detention Structure, Wet
S	PWET	Retention Pond (Wet Pond)
S	PMPs	Multiple Pond System
S	PPKT	Pocket Pond
S	PMED	Micropool Extended Detention Pond
Wetlands (W)		
S	WSHW	Shallow Marsh
S	WEDW	ED – Wetland
S	WPWS	Wet Pond – Wetland
S	WPKT	Pocket Wetland
Infiltration (I)		
S	IBAS	Infiltration Basin
S	ITRN	Infiltration Trench
Filtering Systems (F)		
S	FBIO	Bioretenion
S	FSND	Sand Filter
S	FUND	Underground Filter
S	FPER	Perimeter (Sand) Filter
S	FORG	Organic Filter (Peat Filter)
S	FBIO	Bioretenion
Open Channels (O)		
S	ODSW	Dry Swale
S	OWSW	Wet Swale
Other Practices (X)		
S	XDPD	Detention Structure (Dry Pond)
S	XDED	Extended Detention Structure, Dry
S	XFLD	Flood Management Area
S	XOGS	Oil Grit Separator
S	XOTH	Other
Alternative BMPs		
A	MSS	Mechanical Street Sweeping
A	VSS	Regenerative/Vacuum Street Sweeping (i.e., Advanced Street Sweeping)
A	IMPP	Impervious Surface Reduction (i.e., impervious to pervious)
A	IMPF	Impervious Surface to Forest (i.e., IMPP + FPU)
A	FPU	Forestation on Pervious Urban (i.e., Forest Planting)
A	CBC	Catch Basin Cleaning
A	SDV	Storm Drain Vacuuming

A	STRE	Stream Restoration
A	OUT	Outfall Stabilization
A	SPSC	Regenerative Step Pool Storm Conveyance
A	SPSD	Dry Channel Regenerative Step Pool Stormwater Conveyance System
A	SHST	Shoreline Management
A	SEPP	Septic Pumping
A	SEPD	Septic Denitrification
A	SEPC	Septic Connections to WWTP
A	XFTW	Floating Treatment Wetland
A	FCO	Forest Conservation
A	CLTM	Conservation Landscaping
A	RCL	Riparian Conservation Landscaping
A	RFP	Riparian Forest Planting
A	STCI	Street Tree
A	USRP	Urban Soil Restoration (Compacted Pervious Surfaces)
A	USRI	Urban Soil Restoration (Removed Impervious Surfaces)
A	UTC	Urban Tree Canopy (i.e., Pervious Turf to Tree Canopy over Turf)
A	IDDE	Illicit Discharge Detection & Elimination
A	OTH	Other

Financial Capacity Spreadsheet			
1	County/City Name	Frederick County	
2	Cost As A Percent Of Household Income		
2a	Median Household Income (MHI)	\$97,730	
2b	Total Number Of Households In Jurisdiction	92526.00	
2c	Average Annual Cost For Public Stormwater Related Management Programs	\$	5,325,092.00
2d	Annual Cost For Public Stormwater Related Management Programs Per Household	\$	57.55
2e	% Of MHI Spent On Public Stormwater Related Management Programs	0.06%	
2f	Total Annual Stormwater Remediation Fee Per Household	\$	0.01
2g	% Of MHI Spent Annually On Stormwater Remediation Fee	0.00%	
3	Cost Of Impervious Surface Restoration As A Percent Of Household Income		
3a	Total In Previous Permit Term Spent On The Impervious Surface Restoration Plan (ISRP)	\$	31,594,973.00
3b	Average Annual Cost Of The ISRP During The Previous Permit Term	\$	2,340,368.00
3c	Annual Cost Of The ISRP Per Household During The Previous Permit Term	\$	25.29
3d	% Of MHI Spent On The ISRP During The Previous Permit Term	0.03%	
3e	Total Projected Cost For Restoration Portfolio	\$	86,364,881.56
3f	Projected Annual Cost For Restoration Portfolio	\$	10,160,574.30
3g	Projected Annual Cost For Restoration Portfolio Per Household	\$	109.81
3h	% Of MHI Spent On Projected Cost Of Restoration Portfolio	0.11%	
4	Cost For Low-Income Residential Customers As A Percent Of Household Income		
4a	Percentage Of Households With Annual Income <\$25,000	9.40%	
4b	% Of Income For Low Income Households Spent On Public Stormwater Related Management Programs	0.23%	
4c	% Of Income For Low Income Households Spent On Stormwater Remediation Fees	0.00%	
4d	% Of Income For Low Income Household Spent On The ISRP	0.10%	
4e	% Of MHI For Low Income House Spent On Projected Cost Of Restoration Portfolio	0.44%	
5	Key Socioeconomic Indicators		
5a	Percentage Unemployed	2.90%	
5b	Median Household Income	\$	97,730
5c	Percent Of Individuals (All People) Below Poverty Level	6.80%	
6	Financial Capacity Indicators		
6a	Debt Indicators	Bond Rating – GO ¹ Bonds	AAA
6b		Bond Rating – Revenue Bonds	NA
6c		Net Debt As A % Of FMPV ²	1.92%
6d	Financial Management Indicators	Property Tax Revenues As % Of FMPV	1.01%
6e		Property Tax Revenue Collection Rate	99.98%

Notes:

1. GO = General Obligation

2. FMPV = Full Market Property Value

2b Data Source 2019 ACS 5-year Table DP04. Answer was obtained using instructions and then a query was done on DP04 for unincorporated All County: 92,526 households. Households in MS4 not also in another MS4: 50,140

2c Data Source: ISRP Costs from FAPs, Annual Reports

Per Brian Cooper email 6/29, "The average annual cost should be derived from the best available sources, including ISRP costs and any other budgeted SWM costs. This is the costs beyond just restoration and would likely be different than the total ISRP costs that is reported in 3a. Additionally, since ISRP Revenue represents budgeted funds to cover costs, please include the actual expenditures. We understand that the current permit term for the administratively continued permit was five years but restoration was claimed since the expiration of the previous permit. Although this is the case, please use the average annual cost for stormwater related infrastructure over the five years of the permit FY2015-FY2019.

SOURCE	PAST YEAR FY 2015	PAST YEAR FY 2016	PAST YEAR FY 2017	PAST YEAR FY 2018	PAST YEAR 1 FY 2019	TOTAL PERMIT CYCLE
Operating Expenditures (costs)						
Street Sweeping Program	\$10,735	\$42,153	\$34,956	\$23,591	\$31,016	\$ 142,451
Inlet Cleaning	\$0	\$0	\$0	\$0	\$0	\$ -
Support of Capital Projects	\$41,000	\$618,489	\$738,283	\$104,302	\$357,551	\$ 1,859,625
Septic Pumpout	\$0	\$0	\$0	\$25,000	\$25,000	\$ 50,000
Operating (permit)	\$0	\$0	\$0	\$0	\$0	\$ -
Debt Service Payment	\$0	\$0	\$19,414	\$59,620	\$262,974	\$ 342,008
Capital Expenditures (costs)						
CIP Costs	\$4,241,314	\$1,159,753	\$1,399,458	\$3,057,365	\$8,883,779	\$ 18,741,670
WPR Fund (Paygo)	\$0	\$0	\$0	\$0	\$0	\$ -
Grants & Partnerships	\$132,480	\$132,480	\$3,433,200	\$424,700	\$1,366,845	\$ 5,489,705
Other (Partnership Funds Non-Count)	\$0	\$0	\$0	\$0	\$0	\$ -
Subtotal Operation and Paygo:	\$4,293,049	\$1,820,395	\$2,192,111	\$3,269,878	\$9,560,320	\$ 21,135,753
Total Expenditures:	\$4,425,529	\$1,952,875	\$5,625,311	\$3,694,578	\$10,927,165	\$ 26,625,458

Average Cost Per Year						\$ 5,325,092
Operating (permit)	\$3,491,501	\$1,953,092	\$2,109,591	\$2,527,545	\$3,096,209	\$13,177,938
Expenditures Half Year FY15-half year 2020						\$5,705,413

2f One cent Stormwater Remediation Fee per county legislation

3a Data Source: ISRP Costs from FAPs, Annual Reports

Per Brian Cooper Email 6/29, "please use the total ISRP Costs for restoration claimed in the previous permit term between FY2007-FY2020. However, only use the half of FY2020 that was in the permit term since the permit expired in December 2019."

DESCRIPTION	FY 2007 UP THRU FY 2017	PAST YEAR FY 2018	PAST YEAR 1 FY 2019	HALF YEAR 2 FY 2020	TOTAL COSTS
Operating Expenditures (costs)					
Street Sweeping Program	\$301,888	\$23,591	\$31,016	\$15,508	\$372,003
Inlet Cleaning	\$0	\$0	\$0	\$0	\$0
Support of Capital Projects	\$0	\$104,302	\$357,551	\$570,728	\$1,032,581
Operating (permit)	\$0	\$0	\$0	\$0	\$0
Septic Pumpout	\$0	\$25,000	\$25,000	\$50,000	\$100,000
Debt Service Payment	\$19,414	\$59,620	\$262,974	\$166,184	\$508,192
Capital Expenditures (costs)					
CIP Costs	\$9,104,358	\$3,057,365	\$8,883,779	\$3,181,950	\$24,227,452
WPR Fund (Paygo)	\$0	\$0	\$0	\$0	\$0
Grants & Partnerships	\$3,433,200	\$424,700	\$1,366,845	\$130,000	\$5,354,745
Other (Partnership Funds Non-Count)	\$0	\$0	\$0	\$0	\$0
Subtotal Operation and Paygo:	\$9,425,660	\$3,269,878	\$9,560,320	\$3,984,370	\$26,240,228
Total Expenditures:	\$12,858,860	\$3,694,578	\$10,927,165	\$4,114,370	\$31,594,973
Operating (permit)	\$25,275,450	\$2,527,545	\$3,096,209	\$1,075,415	\$31,974,619

Average Cost Per Year: \$2,340,368.37

3b not included

3e Data Source: CIP Spreadsheet for MEP, ISRP Costs from FAPs, Annual Reports, plus more up to date information on budgets and bond issuances from FY'22 approved budget.

Per Brian Cooper email dated 6/29: "During the presentation, we pointed out that there was a typo and the portfolio should represent a permit term ending in FY2026 and projected years out to FY2028.

We also indicated that the County should use the 2019 permit expiration date as the start date. Using half of FY2020 is acceptable. This cost value would represent the total portfolio cost for BMPs and other initiatives (e.g., flood management, PCB monitoring, O&M). Please gather these data from the best available sources, whether that be from the CIP spreadsheet for BMPs or the projected budgets for O&M."

Amount from Spreadsheet: \$72,140,110 note that the summary calc for cell P198 in CIP Spreadsheet does not include debt service payments, CIP Op Budget Impacts, or street sweeping.

DESCRIPTION	HALF BEG YEAR -1 FY 2020	COMPLETED YEAR 0 FY 2021	CURRENT YEAR 1 FY 2022	PROJECTED YEAR 2 FY 2023	PROJECTED YEAR 3 FY 2024	PROJECTED YEAR 4 FY 2025	PERMIT END YEAR 5 FY 2026	PROJECTED OUT YEAR FY 2027	PROJECTED OUT YEAR FY 2028	TOTAL COSTS
Operating Expenditures (costs)										
Street Sweeping Program	\$15,508	\$31,946	\$32,905	\$33,892	\$34,909	\$35,956	\$37,035	\$38,146	\$39,290	\$299,587
Inlet Cleaning	-	-	-	-	-	-	-	-	-	\$0
Support of Capital Projects	\$285,364	\$456,781	\$686,003	\$727,781	\$749,614	\$772,102	\$795,265	\$819,123	\$843,697	\$6,135,730
Debt Service Payment	\$166,184	\$569,973	\$893,183	\$1,295,084	\$2,350,005	\$2,664,047	\$3,436,745	\$4,007,386	\$4,312,522	\$19,695,129
Capital Expenditures (costs)										
General Fund (Paygo)	\$1,590,975	\$1,415,000	\$180,000	\$180,000	\$180,000	\$876,927	\$3,424,275	\$4,996,875	\$6,947,759	\$19,791,811
WPR Fund (Paygo)	\$0	-	-	-	-	-	-	-	-	\$0
Debt Service	\$1,931,725	\$4,915,543	\$6,594,334	\$5,755,231	\$7,513,689	\$6,003,596	\$3,889,956	\$1,665,625	-	\$38,269,699
Grants & Partnerships	\$65,000	\$530,000	\$130,000	\$130,000	\$130,000	\$130,000	\$130,000	\$130,000	\$130,000	\$1,505,000
Other (Partnership Funds Non-Count)	\$0	\$494,000	\$173,926	-	-	-	-	-	-	\$667,926
Subtotal Operation and Paygo:	\$2,058,031	\$2,967,701	\$1,966,017	\$2,236,757	\$3,314,528	\$4,349,032	\$7,693,320	\$9,861,530	\$12,143,268	\$46,590,183
Total Expenditures:	\$4,054,755	\$8,413,244	\$8,690,351	\$8,121,988	\$10,958,217	\$10,482,628	\$11,713,276	\$11,657,155	\$12,273,268	\$86,364,882

Total ISRP Costs through 2026:	\$56,577,820.91
Total ISRP costs except debt service payment through 2026:	\$46,920,972.32
Average Cost per year through 2026:	\$7,820,162
Total ISRP Costs through 2028:	\$86,364,882
Total ISRP costs except debt service payment through 2028:	\$66,669,752
Average Cost per year through 2028:	\$10,160,574.30

FY 2028 projections for General fund and paygo are not available. \$6,947,759 is estimated CIP.

3f \$12,023,352 Data from spreadsheet divided by 6 fiscal years (half 2020 and half 2026 plus everything in-between)

4a Less than \$10,000

2.7

\$10,000 to \$14,999

2.2

\$15,000 to \$24,999

4.5

Total 9.4

6a S&P AAA Data from Susan Keller, Finance. Last bond rating 2019
 Moody's Aaa
 Fitch AAA

6c,d \$33,798,984,065 FMPV from Diane Fox, Treasurer. Number is from SDAT.

From Susan Keller, 6/30/2021: The County produces the schedule below for General Government Direct and Overlapping Debt in our annual financial report. Based on MDE's response it appears this is the number you may be looking for? \$647,259,234

This information is not yet available for FY2021 as we have to wait for all the agencies listed to close their books for the year. Diane had provided the assessed value for FY2021. If it's okay to calculate the Net Debt for FY2020 as a % of FMPV for FY2021, then the response would be 1.92%. Installment purchase agreements are included in those totals.

6c

FREDERICK COUNTY, MARYLAND DIRECT AND OVERLAPPING GOVERNMENTAL ACTIVITIES DEBT AS OF JUNE 30, 2020			
Governmental Unit	Debt Outstanding (1)	Estimated Percentage Applicable	Estimated Share of Direct and Overlapping Debt
Direct:			
Frederick County	\$ 542,626,203	100%	\$ 542,626,203
Overlapping Debt:			
Component Units:			
Frederick County Public Schools	31,945,115	100%	31,945,115
Frederick Community College	5,381,991	100%	5,381,991
Towns, Cities and Villages:			
Brunswick	2,625,959	100%	2,625,959
Burkittsville	161,793	100%	161,793
Emmitsburg	14,800	100%	14,800
Frederick City	57,815,942	100%	57,815,942
Middletown	2,159,395	100%	2,159,395
Myersville	4,087,738	100%	4,087,738
Thurmont	435,978	100%	435,978
Subtotal Overlapping:	104,632,031		104,632,031
Totals	\$ 647,258,234		\$ 647,258,234
Source: Division of Finance			
(1) Debt repaid by general government activities			

Costs for Physical Capacity Questionnaire

9

DESCRIPTION	HALF BEG YEAR -1 FY 2020	COMPLETED YEAR 0 FY 2021	CURRENT YEAR 1 FY 2022	PROJECTED YEAR 2 FY 2023	PROJECTED YEAR 3 FY 2024	PROJECTED YEAR 4 FY 2025	PERMIT END YEAR 5 FY 2026	PROJECTED OUT YEAR FY 2027	PROJECTED OUT YEAR FY 2028	TOTAL COSTS
Capital Expenditures (costs)										
General Fund (Paygo)	\$1,590,975	\$1,415,000	\$180,000	\$180,000	\$180,000	\$876,927	\$3,424,275	\$4,996,875	\$6,947,759	\$19,791,811
Debt Service	\$1,931,725	\$4,915,543	\$6,594,334	\$5,755,231	\$7,513,689	\$6,003,596	\$3,889,956	\$1,665,625	-	\$38,269,699
Total	\$3,522,700	\$6,330,543	\$6,774,334	\$5,935,231	\$7,693,689	\$6,880,523	\$7,314,231	\$6,662,500	\$6,947,759	\$58,061,510

Moody's	Aaa
	Aa
	A
	Baa
	Ba
	B
	Caa
	Ca
	C
S&P	AAA
	AA
	A
	BBB
	BB
	B
	CCC
	CC
	R
	SD
	D

Parameter from 2019 ACS	2019 Value
National Average MHI	\$ 62,843.00
National Percent Unemployed	2.7%
National Percent of Individuals Below Poverty Level	13.4%

DESCRIPTION	FY 2020
Operating Expenditures (costs)	
Street Sweeping Program	\$31,016
Inlet Cleaning	\$0
Support of Capital Projects	\$570,728
Septic Pumpout	\$50,000
Debt Service Payment	\$332,367
Subtotal Operating	\$984,111

**BASE BUDGET
FY 2020 BUDGET**

BASE 01

OPERATING AND CAPITAL REQUEST

(Do not include those shown on Base Budget New Position Request form)

Accounting Unit and Name: 10.01.140.999

Activity Name & Number (if applicable) :

OPERATING & CAPITAL EXPENSES:		Base Budget		
Description and Justification:	Criteria (see below)	One Time/ On-going	Acct No.	Total Cost
C8006.8006.01 Englandtowne Stormwater Pond Maint yr 4/20	A,D	One-Time	52775	\$10,777
C8010.8010.01 Pinecliff Stream Restoration Maint yr 9/20	A,D	One-Time	52775	\$10,640
C8006.8006.01 Englandtowne Stream Rest. Monit yr 5/7	A,D	One-Time	52775	\$8,100
C8006.8006.01 Englandtowne Stream Rest. Maint yr 5/20	A,D	One-Time	52775	\$10,500
C8017.8017.01 Point of Rocks Stream Restoration Monit yr 3/7	A,D	One-Time	52775	\$17,775
C8019.8019.01 Little Hunting Creek Stream Rest Monit yr 3/7	A,D	One-Time	52775	\$6,500
C8021.8021.01 Reforestation Program First Round Public Property Maint yr 2/20	A,D	One-Time	52775	\$122,324
C8021.8021.01 Reforestation Program Second Round Public Property Maint yr 1/20	A,D	One-Time	52775	\$133,481
C8021.8021.01 Reforestation Program First Round Private Property Maint yr 2/5	A,D	One-Time	52775	\$155,450
14 9899 C48001 UHS Bioretention Maint yr 12/20 and Urbana Community Park Maint yr 4/20	A,D	One-Time	52775	\$28,165
14 9899 C48001 Ballenger Creek Stream Rest Maint yr 12/20	A,D	One-Time	52775	\$6,437
C8009.8009.01 County Owned Pond Retrofit Maint, projects include: Clearview Detention Center, Greenhill Manor, Law Enforcement Complex, Extension Services Bldg Maint yr 2/20	A,D	One-Time	52775	\$36,279
C8024.8024.01 Stream Restorations Sam Hill Estates, Cloverhill, & Pinecliff Phase 2 Stream Rest. Monit yr 1/7	A,D	One-Time	52775	\$24,300
TOTAL				\$570,728

Base Budget Criteria:

A-Legal Mandate

B-Previous County Executive Action

C-Contractual Obligation

D-CIP Operating Expense

Financial Capacity Spreadsheet			
1	County/City Name	Frederick County	
2	Cost As A Percent Of Household Income		
2a	Median Household Income (MHI)	\$97,730	
2b	Total Number Of Households In Jurisdiction	92526.00	
2c	Average Annual Cost For Public Stormwater Related Management Programs	\$	5,325,092.00
2d	Annual Cost For Public Stormwater Related Management Programs Per Household	\$	57.55
2e	% Of MHI Spent On Public Stormwater Related Management Programs	0.06%	
2f	Total Annual Stormwater Remediation Fee Per Household	\$	0.01
2g	% Of MHI Spent Annually On Stormwater Remediation Fee	0.00%	
3	Cost Of Impervious Surface Restoration As A Percent Of Household Income		
3a	Total In Previous Permit Term Spent On The Impervious Surface Restoration Plan (ISRP)	\$	31,594,973.00
3b	Average Annual Cost Of The ISRP During The Previous Permit Term	\$	2,340,368.00
3c	Annual Cost Of The ISRP Per Household During The Previous Permit Term	\$	25.29
3d	% Of MHI Spent On The ISRP During The Previous Permit Term	0.03%	
3e	Total Projected Cost For Restoration Portfolio	\$	86,364,881.56
3f	Projected Annual Cost For Restoration Portfolio	\$	10,160,574.30
3g	Projected Annual Cost For Restoration Portfolio Per Household	\$	109.81
3h	% Of MHI Spent On Projected Cost Of Restoration Portfolio	0.11%	
4	Cost For Low-Income Residential Customers As A Percent Of Household Income		
4a	Percentage Of Households With Annual Income <\$25,000	9.40%	
4b	% Of Income For Low Income Households Spent On Public Stormwater Related Management Programs	0.23%	
4c	% Of Income For Low Income Households Spent On Stormwater Remediation Fees	0.00%	
4d	% Of Income For Low Income Household Spent On The ISRP	0.10%	
4e	% Of MHI For Low Income House Spent On Projected Cost Of Restoration Portfolio	0.44%	
5	Key Socioeconomic Indicators		
5a	Percentage Unemployed	2.90%	
5b	Median Household Income	\$	97,730
5c	Percent Of Individuals (All People) Below Poverty Level	6.80%	
6	Financial Capacity Indicators		
6a	Debt Indicators	Bond Rating – GO ¹ Bonds	AAA
6b		Bond Rating – Revenue Bonds	NA
6c		Net Debt As A % Of FMPV ²	1.92%
6d	Financial Management Indicators	Property Tax Revenues As % Of FMPV	1.01%
6e		Property Tax Revenue Collection Rate	99.98%

Notes:

1. GO = General Obligation

2. FMPV = Full Market Property Value

2b Data Source 2019 ACS 5-year Table DP04. Answer was obtained using instructions and then a query was done on DP04 for unincorporated All County: 92,526 households. Households in MS4 not also in another MS4: 50,140

2c Data Source: ISRP Costs from FAPs, Annual Reports

Per Brian Cooper email 6/29, "The average annual cost should be derived from the best available sources, including ISRP costs and any other budgeted SWM costs. This is the costs beyond just restoration and would likely be different than the total ISRP costs that is reported in 3a. Additionally, since ISRP Revenue represents budgeted funds to cover costs, please include the actual expenditures. We understand that the current permit term for the administratively continued permit was five years but restoration was claimed since the expiration of the previous permit. Although this is the case, please use the average annual cost for stormwater related infrastructure over the five years of the permit FY2015-FY2019.

SOURCE	PAST YEAR FY 2015	PAST YEAR FY 2016	PAST YEAR FY 2017	PAST YEAR FY 2018	PAST YEAR 1 FY 2019	TOTAL PERMIT CYCLE
Operating Expenditures (costs)						
Street Sweeping Program	\$10,735	\$42,153	\$34,956	\$23,591	\$31,016	\$ 142,451
Inlet Cleaning	\$0	\$0	\$0	\$0	\$0	\$ -
Support of Capital Projects	\$41,000	\$618,489	\$738,283	\$104,302	\$357,551	\$ 1,859,625
Septic Pumpout	\$0	\$0	\$0	\$25,000	\$25,000	\$ 50,000
Operating (permit)	\$0	\$0	\$0	\$0	\$0	\$ -
Debt Service Payment	\$0	\$0	\$19,414	\$59,620	\$262,974	\$ 342,008
Capital Expenditures (costs)						
CIP Costs	\$4,241,314	\$1,159,753	\$1,399,458	\$3,057,365	\$8,883,779	\$ 18,741,670
WPR Fund (Paygo)	\$0	\$0	\$0	\$0	\$0	\$ -
Grants & Partnerships	\$132,480	\$132,480	\$3,433,200	\$424,700	\$1,366,845	\$ 5,489,705
Other (Partnership Funds Non-Count)	\$0	\$0	\$0	\$0	\$0	\$ -
Subtotal Operation and Paygo:	\$4,293,049	\$1,820,395	\$2,192,111	\$3,269,878	\$9,560,320	\$ 21,135,753
Total Expenditures:	\$4,425,529	\$1,952,875	\$5,625,311	\$3,694,578	\$10,927,165	\$ 26,625,458

Average Cost Per Year						\$ 5,325,092
Operating (permit)	\$3,491,501	\$1,953,092	\$2,109,591	\$2,527,545	\$3,096,209	\$13,177,938
Expenditures Half Year FY15-half year 2020						\$5,705,413

2f One cent Stormwater Remediation Fee per county legislation

3a Data Source: ISRP Costs from FAPs, Annual Reports

Per Brian Cooper Email 6/29, "please use the total ISRP Costs for restoration claimed in the previous permit term between FY2007-FY2020. However, only use the half of FY2020 that was in the permit term since the permit expired in December 2019."

DESCRIPTION	FY 2007 UP THRU FY 2017	PAST YEAR FY 2018	PAST YEAR 1 FY 2019	HALF YEAR 2 FY 2020	TOTAL COSTS
Operating Expenditures (costs)					
Street Sweeping Program	\$301,888	\$23,591	\$31,016	\$15,508	\$372,003
Inlet Cleaning	\$0	\$0	\$0	\$0	\$0
Support of Capital Projects	\$0	\$104,302	\$357,551	\$570,728	\$1,032,581
Operating (permit)	\$0	\$0	\$0	\$0	\$0
Septic Pumpout	\$0	\$25,000	\$25,000	\$50,000	\$100,000
Debt Service Payment	\$19,414	\$59,620	\$262,974	\$166,184	\$508,192
Capital Expenditures (costs)					
CIP Costs	\$9,104,358	\$3,057,365	\$8,883,779	\$3,181,950	\$24,227,452
WPR Fund (Paygo)	\$0	\$0	\$0	\$0	\$0
Grants & Partnerships	\$3,433,200	\$424,700	\$1,366,845	\$130,000	\$5,354,745
Other (Partnership Funds Non-Count)	\$0	\$0	\$0	\$0	\$0
Subtotal Operation and Paygo:	\$9,425,660	\$3,269,878	\$9,560,320	\$3,984,370	\$26,240,228
Total Expenditures:	\$12,858,860	\$3,694,578	\$10,927,165	\$4,114,370	\$31,594,973
Operating (permit)	\$25,275,450	\$2,527,545	\$3,096,209	\$1,075,415	\$31,974,619

Average Cost Per Year: \$2,340,368.37

3b not included

3e Data Source: CIP Spreadsheet for MEP, ISRP Costs from FAPs, Annual Reports, plus more up to date information on budgets and bond issuances from FY'22 approved budget.

Per Brian Cooper email dated 6/29: "During the presentation, we pointed out that there was a typo and the portfolio should represent a permit term ending in FY2026 and projected years out to FY2028.

We also indicated that the County should use the 2019 permit expiration date as the start date. Using half of FY2020 is acceptable. This cost value would represent the total portfolio cost for BMPs and other initiatives (e.g., flood management, PCB monitoring, O&M). Please gather these data from the best available sources, whether that be from the CIP spreadsheet for BMPs or the projected budgets for O&M."

Amount from Spreadsheet: \$72,140,110 note that the summary calc for cell P198 in CIP Spreadsheet does not include debt service payments, CIP Op Budget Impacts, or street sweeping.

DESCRIPTION	HALF BEG YEAR -1 FY 2020	COMPLETED YEAR 0 FY 2021	CURRENT YEAR 1 FY 2022	PROJECTED YEAR 2 FY 2023	PROJECTED YEAR 3 FY 2024	PROJECTED YEAR 4 FY 2025	PERMIT END YEAR 5 FY 2026	PROJECTED OUT YEAR FY 2027	PROJECTED OUT YEAR FY 2028	TOTAL COSTS
Operating Expenditures (costs)										
Street Sweeping Program	\$15,508	\$31,946	\$32,905	\$33,892	\$34,909	\$35,956	\$37,035	\$38,146	\$39,290	\$299,587
Inlet Cleaning	-	-	-	-	-	-	-	-	-	\$0
Support of Capital Projects	\$285,364	\$456,781	\$686,003	\$727,781	\$749,614	\$772,102	\$795,265	\$819,123	\$843,697	\$6,135,730
Debt Service Payment	\$166,184	\$569,973	\$893,183	\$1,295,084	\$2,350,005	\$2,664,047	\$3,436,745	\$4,007,386	\$4,312,522	\$19,695,129
Capital Expenditures (costs)										
General Fund (Paygo)	\$1,590,975	\$1,415,000	\$180,000	\$180,000	\$180,000	\$876,927	\$3,424,275	\$4,996,875	\$6,947,759	\$19,791,811
WPR Fund (Paygo)	\$0	-	-	-	-	-	-	-	-	\$0
Debt Service	\$1,931,725	\$4,915,543	\$6,594,334	\$5,755,231	\$7,513,689	\$6,003,596	\$3,889,956	\$1,665,625	-	\$38,269,699
Grants & Partnerships	\$65,000	\$530,000	\$130,000	\$130,000	\$130,000	\$130,000	\$130,000	\$130,000	\$130,000	\$1,505,000
Other (Partnership Funds Non-Count)	\$0	\$494,000	\$173,926	-	-	-	-	-	-	\$667,926
Subtotal Operation and Paygo:	\$2,058,031	\$2,967,701	\$1,966,017	\$2,236,757	\$3,314,528	\$4,349,032	\$7,693,320	\$9,861,530	\$12,143,268	\$46,590,183
Total Expenditures:	\$4,054,755	\$8,413,244	\$8,690,351	\$8,121,988	\$10,958,217	\$10,482,628	\$11,713,276	\$11,657,155	\$12,273,268	\$86,364,882

Total ISRP Costs through 2026:	\$56,577,820.91
Total ISRP costs except debt service payment through 2026:	\$46,920,972.32
Average Cost per year through 2026:	\$7,820,162
Total ISRP Costs through 2028:	\$86,364,882
Total ISRP costs except debt service payment through 2028:	\$66,669,752
Average Cost per year through 2028:	\$10,160,574.30

FY 2028 projections for General fund and paygo are not available. \$6,947,759 is estimated CIP.

3f \$12,023,352 Data from spreadsheet divided by 6 fiscal years (half 2020 and half 2026 plus everything in-between)

4a Less than \$10,000

2.7

\$10,000 to \$14,999

2.2

\$15,000 to \$24,999

4.5

Total 9.4

6a S&P AAA Data from Susan Keller, Finance. Last bond rating 2019
Moody's Aaa
Fitch AAA

6c,d \$33,798,984,065 FMPV from Diane Fox, Treasurer. Number is from SDAT.

From Susan Keller, 6/30/2021: The County produces the schedule below for General Government Direct and Overlapping Debt in our annual financial report. Based on MDE's response it appears this is the number you may be looking for? \$647,259,234

This information is not yet available for FY2021 as we have to wait for all the agencies listed to close their books for the year. Diane had provided the assessed value for FY2021. If it's okay to calculate the Net Debt for FY2020 as a % of FMPV for FY2021, then the response would be 1.92%. Installment purchase agreements are included in those totals.

6c

FREDERICK COUNTY, MARYLAND DIRECT AND OVERLAPPING GOVERNMENTAL ACTIVITIES DEBT AS OF JUNE 30, 2020			
Governmental Unit	Debt Outstanding (1)	Estimated Percentage Applicable	Estimated Share of Direct and Overlapping Debt
Direct:			
Frederick County	\$ 542,626,203	100%	\$ 542,626,203
Overlapping Debt:			
Component Units:			
Frederick County Public Schools	31,945,115	100%	31,945,115
Frederick Community College	5,381,991	100%	5,381,991
Towns, Cities and Villages:			
Brunswick	2,625,959	100%	2,625,959
Burkittsville	161,793	100%	161,793
Emmitsburg	14,800	100%	14,800
Frederick City	57,815,942	100%	57,815,942
Middletown	2,159,395	100%	2,159,395
Myersville	4,087,738	100%	4,087,738
Thurmont	435,978	100%	435,978
Subtotal Overlapping:	104,632,031		104,632,031
Totals	\$ 647,258,234		\$ 647,258,234
Source: Division of Finance			
(1) Debt repaid by general government activities			

Costs for Physical Capacity Questionnaire

9

DESCRIPTION	HALF BEG YEAR -1 FY 2020	COMPLETED YEAR 0 FY 2021	CURRENT YEAR 1 FY 2022	PROJECTED YEAR 2 FY 2023	PROJECTED YEAR 3 FY 2024	PROJECTED YEAR 4 FY 2025	PERMIT END YEAR 5 FY 2026	PROJECTED OUT YEAR FY 2027	PROJECTED OUT YEAR FY 2028	TOTAL COSTS
Capital Expenditures (costs)										
General Fund (Paygo)	\$1,590,975	\$1,415,000	\$180,000	\$180,000	\$180,000	\$876,927	\$3,424,275	\$4,996,875	\$6,947,759	\$19,791,811
Debt Service	\$1,931,725	\$4,915,543	\$6,594,334	\$5,755,231	\$7,513,689	\$6,003,596	\$3,889,956	\$1,665,625	-	\$38,269,699
Total	\$3,522,700	\$6,330,543	\$6,774,334	\$5,935,231	\$7,693,689	\$6,880,523	\$7,314,231	\$6,662,500	\$6,947,759	\$58,061,510

Moody's	Aaa
	Aa
	A
	Baa
	Ba
	B
	Caa
	Ca
	C
S&P	AAA
	AA
	A
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	BB
	B
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Parameter from 2019 ACS	2019 Value
National Average MHI	\$ 62,843.00
National Percent Unemployed	2.7%
National Percent of Individuals Below Poverty Level	13.4%