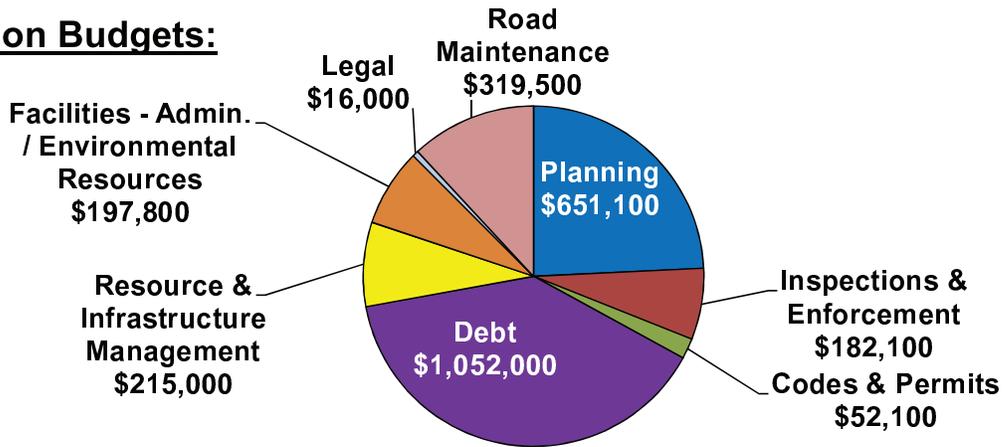


FISCAL YEAR 2017

Watershed Protection and Restoration Fund

Total Operating Budget: \$2,685,600

Division Budgets:

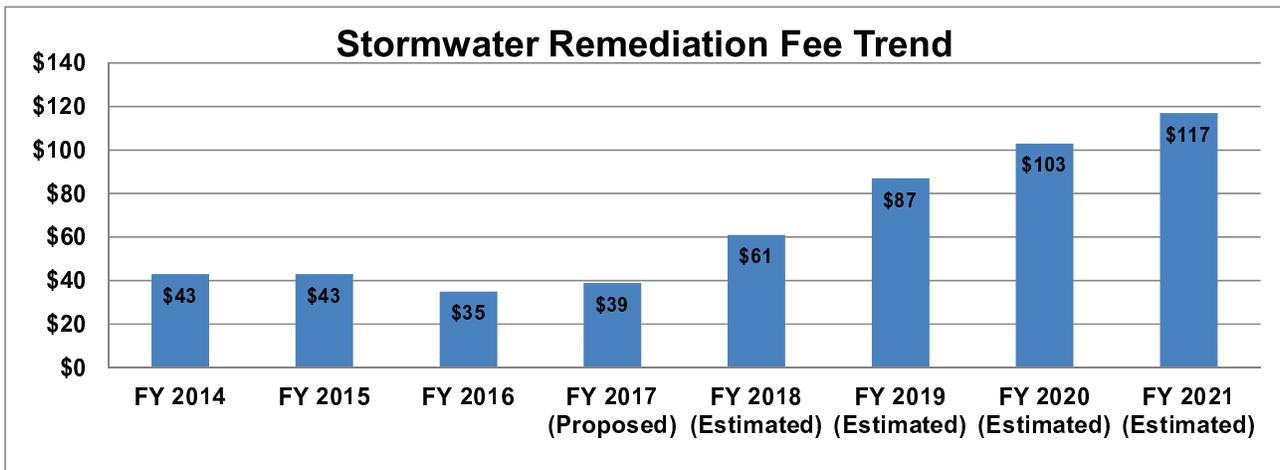


	FY2016 Adopted	FY2017 Proposed	Variance	% Change
Baseline Revenues	\$2,475,700	\$2,497,400	\$21,700	0.9%
Baseline Expenditures	2,475,700	2,612,300	136,600	5.5%
Surplus / (Deficit)	\$0	(\$114,900)	(\$114,900)	
New Requests		(\$73,300)	(\$73,300)	
Total Surplus / (Deficit)	\$0	(\$188,200)	(\$188,200)	

A \$1 adjustment on fee generates approximately: \$50,895

Major Adjustments to the Proposed Budget:

		Fee Rate Change
Debt Service		
Assumes a \$5.0 million bond issue.	\$162,300	\$3.31
Public Works - Administration		
FY 17 New Request - Dam Monitoring & Maintenance	\$41,700	\$0.85
PGM - Resource & Infrastructure Management		
Increase in GIS Infrastructure Mapping budget.	\$30,000	\$0.61
Contingency		
The equivalent cost of a potential employee merit for FY 2017.	\$5,200	\$0.11
Net change in revenues/expenditures	(\$51,000)	(\$1.04)
Total	\$188,200	\$4.00



FISCAL YEAR 2017

Watershed Protection and Restoration Fund

	FY2016 Adopted	FY2017 Proposed	\$ Change from FY2016	% Change
<u>Revenue</u>				
Stormwater Remediation Fee	\$1,799,800	\$1,781,400	(\$18,400)	-1.0%
Lot Recordation	50,700	50,700	0	0.0%
Miscellaneous	5,300	5,300	0	0.0%
Fee Credit	(5,100)	(2,000)	3,100	-60.8%
Total Operating Revenues	\$1,850,700	\$1,835,400	(\$15,300)	-0.8%
Transfer from the General Fund	550,000	550,000	0	0.0%
Fund Balance	75,000	112,000	37,000	49.3%
Total Revenues	\$2,475,700	\$2,497,400	\$21,700	0.9%
<u>Expenditures</u>				
Salary & Fringe	\$307,600	\$322,100	\$14,500	4.7%
Operating	1,243,400	1,121,000	(122,400)	-9.8%
Contingency	0	5,200	5,200	new
Debt Service	889,700	1,052,000	162,300	18.2%
Drainage Studies CIP	35,000	112,000	77,000	220.0%
Total Baseline Request	\$2,475,700	\$2,612,300	\$136,600	5.5%
New Requests		73,300	73,300	new
Total Expenditures	\$2,475,700	\$2,685,600	\$209,900	8.5%
Surplus / (Deficit)	\$0	(\$188,200)	(\$188,200)	

New Requests for FY 2017:

The County is now responsible for operating and maintaining the three dams located within the County. FY 2017 request includes additional general repair and maintenance funding of \$15,000 for services performed by DPW staff, additional contract services funding of \$25,000 for dam maintenance and repairs performed by a contractor and to capital lease purchase a slope mower which is estimated to cost \$1,700 in FY 2017.

\$41,700

Increase in GIS Infrastructure Mapping budget over the current base of \$185,000 to convert new data to topographic contour lines necessary for use in the County's GIS mapping system.

\$30,000

Increase in Indirect Cost allocation for Accounting Office support staff.

\$1,600

\$73,300

Use of Fund Balance for FY 2017:

Ongoing Drainage Studies CIP

\$112,000

Watershed Protection and Restoration Fund

Department: Planning and Growth Management 50.07.19
Division \ Program: Planning Fund: Enterprise
Program Administrator: Steven Ball, Planning Director

Expenditure Category	FY2015 Actual	FY2016 Adopted	FY2017 Proposed	FY2017 Adopted	\$ Change from FY2016	% Chg.
Personal Services	\$152,456	\$145,600	\$147,000		\$1,400	1.0%
Fringe Benefits	43,148	44,900	41,800		(3,100)	-6.9%
Operating Costs	303,198	362,300	346,500		(15,800)	-4.4%
Operating Contingency	0	0	2,200		2,200	NEW
Debt Service	568,957	889,700	1,052,000		162,300	18.2%
Capital Projects	60,000	35,000	112,000		77,000	220.0%
Total Baseline	\$1,127,759	\$1,477,500	\$1,701,500	\$0	\$224,000	15.2%
New Requests (see attached)			1,600		1,600	NEW
Total Expenditures	\$1,127,759	\$1,477,500	\$1,703,100	\$0	\$225,600	15.3%

Changes and Useful Information:

- **Personal Services** increase is due to the mid-year COLA received in FY2016.
- The **Fringe Benefits** change is a result of the adjusting the Workers Compensation rate for FY 2017, adjusting the Health & Dental budget by a 5% rate increase and from the pension decrease due to actuarial plan assumption changes.
- The **Operating Costs** budget was decreased due to the following reasons:
 - The Legal Fees budget of \$16,000 was transferred to the County Attorney's Office to properly reflect this duty.
 - The Indirect Cost Allocation budget was increased by \$200 for the mid-year COLA. This budget provides a funding source for services provided by General Fund staff.
- **Operating Contingency** represents the equivalent cost of a potential employee merit for FY 2017.
- **Debt Service** represents principal and interest payments on stormwater management bonds. The FY 2017 budget includes the full year impact of the Fall 2015 issue and estimated interest payment on a \$5 million issue in Fall 2016.
- **Capital Projects** budget is for Drainage Studies. The FY2017 request potentially funds the Floodplan Analysis Studies CIP request which will provide computations of major drainage courses of 30 Acres or more that are not mapped by FEMA studies for potential restoration projects.

Description:

The Charles County storm sewer system is operated per its NPDES Municipal Separate Storm Sewer System permit. The permit runs for five years and requires the County to develop and implement a number of programs to monitor and control water quality. Highlights of the Planning Division work products include:

- Continuation of a long-term chemical, biological, and physical monitoring program for small watersheds; continuation of urban BMP effectiveness study; and continued support of the US Geological Survey long-term chemical monitoring station for Mattawoman Creek Watershed, a large watershed.
- Continued implementation of the Illicit Discharge Detection and Enforcement Program for the County's storm sewer system. This program provides annual inspection of major outfalls to discover potential illicit discharges into the storm sewer system and enforces violations. The County relies heavily on a public education element to prevent illicit discharges, and has also incorporated penalties for serious and repeat violations.

Positions:

<u>Title</u>	<u>FY14 FTE</u>	<u>FY15 FTE</u>	<u>FY16 FTE</u>	<u>FY17 FTE</u>
Planner IV	0.0	0.3	0.3	0.3
Planner I-III	1.8	1.8	1.8	1.8
Total Full Time Equivalent	1.8	2.1	2.1	2.1

Watershed Protection and Restoration Fund

Department:	Planning and Growth Management		50.07.19
Division \ Program:	Planning	Fund:	Enterprise
Program Administrator:	Steven Ball, Planning Director		

<u>Objectives & Measurements:</u>	FY14 Actual	FY15 Actual	FY16 Projected	FY17 Estimated
<u><i>Objective: to maintain compliance with the County's Municipal National Pollutant Discharge Elimination System (NPDES) stormwater permit's, Assessments of Controls and Special Programmatic tasks, coordinate NPDES stormwater permit requirements between departments and divisions, and manage program requirements.</i></u>				
# of active projects	12	12	12	12
Projects per FTE	6.80	6.80	6.80	6.80
a) Illicit Discharge Detection and Elimination Inspection & Upland Visual Surveys	100 outfalls	100 outfalls	100 outfalls	100 outfalls
b) Property Maintenance & Management Inspection - # of sites	4	3	3	3
c) Watershed Assessment/Total Maximum Daily Load Planning - # of assessments/plans	1	1	1	1
d) Small Watershed Water Quality Monitoring (Chemical, Biological, Geomorphic, Best Management Practice Assess) -	12	12	12	12
e) Large Watershed Water Quality Monitoring (Chemicals) - # of samples	20	25	20	20
f) Public Outreach and Education Program - # of events	2	1	2	2
g) WPRP Appeal, Credit, and Hardship Processing				
Property owners receiving a 50% Credit.	69	91	100	100
Property owners receiving a 100% Exemption.	5	8	5	5

Watershed Protection and Restoration Fund

Department: Planning and Growth Management 50.07.31
Division \ Program: Codes, Permits & Inspection Services\ Fund: Enterprise
 Inspections & Enforcement

Program Administrator: Frank Ward, Chief of Codes, Permits, and Inspection Services

Expenditure Category	FY2015 Actual	FY2016 Adopted	FY2017 Proposed	FY2017 Adopted	\$ Change from FY2016	% Chg.
Personal Services	\$0	\$0	\$11,400		\$11,400	NEW
Fringe Benefits	0	0	4,000		4,000	NEW
Operating Costs	56,846	166,500	166,500		0	0.0%
Operating Contingency	0	0	200		200	NEW
Total Expenditures	\$56,846	\$166,500	\$182,100	\$0	\$15,600	9.4%

Changes and Useful Information:

- The **Personal Services** and **Fringe Benefits** was adjusted during FY 2016 to properly reflect the Development Services Manager duties which includes supervising the contractual staff who perform stormwater maintenance inspections. These inspections are funded out of this budget.
- **Operating Contingency** represents the equivalent cost of a potential employee merit for FY 2017.

Description:

The Inspection and Enforcement Section of the Codes, Permits and Inspection Services Division is responsible for the triennial inspection of existing stormwater management devices owned by private property owners, homeowners associations, and Charles County for compliance with performance specifications, legal agreements & Maryland law. Inspection staff provides reports to owners of the stormwater management devices and ensures proper repairs are implemented in a timely manner. Inspections occur after developer's have completed projects inspected by staff of the Inspection & Enforcement fund.

Positions:

<u>Title</u>	<u>FY14 FTE</u>	<u>FY15 FTE</u>	<u>FY16 FTE</u>	<u>FY17 FTE</u>
Development Services Manager	0.0	0.0	0.1	0.1
Total Full Time Equivalent	0.0	0.0	0.1	0.1

Objectives & Measurements:

	<u>FY14 Actual</u>	<u>FY15 Actual</u>	<u>FY16 Projected</u>	<u>FY17 Estimated</u>
<i><u>Objective: Stormwater Maintenance laws mandates that the County inspect all private and private stormwater management structures in three year intervals to ensure their proper use.</u></i>				
Stormwater management maintenance inspections	1,777	2,068	2,100	2,250

Watershed Protection and Restoration Fund

Department: Planning and Growth Management 50.07.61
Division \ Program: Codes, Permits & Inspection Services\Codes & Permits Fund: Enterprise
Program Administrator: Frank Ward, Chief of Codes, Permits, and Inspection Services

Expenditure Category	FY2015 Actual	FY2016 Adopted	FY2017 Proposed	FY2017 Adopted	\$ Change from FY2016	% Chg.
Personal Services	\$38,690	\$34,700	\$38,200		\$3,500	10.1%
Fringe Benefits	13,598	14,500	13,200		(1,300)	-9.0%
Operating Costs	0	5,600	0		(5,600)	-100.0%
Operating Contingency	0	0	700		700	NEW
Total Expenditures	\$52,288	\$54,800	\$52,100	\$0	(\$2,700)	-4.9%

Changes and Useful Information:

- **Personal Services** increase is due to the mid-year COLA received in FY2016 and the reduction of the turnover budget.
- The **Fringe Benefits** change is a result of the adjusting the Workers Compensation rate for FY 2017, adjusting the Health & Dental budget by a 5% rate increase and from the pension decrease due to actuarial plan assumption changes.
- The **Operating Costs** budget was reduced to reflect current spending patterns.
- **Operating Contingency** represents the equivalent cost of a potential employee merit for FY 2017.

Description:

The Codes and Permits Section of the Codes, Permits & Inspection Services Division includes engineering staff involved in review of stormwater management issues. While much of this work is undertaken as part of a permit review function, some of the engineering analysis is done after construction is completed & as part of the required triennial inspection process. Proposed work includes engineering services, modifications to the Stormwater Management Ordinance to address Green Code and related issues and employee education.

Positions:

<u>Title</u>	<u>FY14 FTE</u>	<u>FY15 FTE</u>	<u>FY16 FTE</u>	<u>FY17 FTE</u>
Engineer I - IV	0.5	0.5	0.5	0.5
Total Full Time Equivalent	0.5	0.5	0.5	0.5

Watershed Protection and Restoration Fund

Department: Planning and Growth Management 50.07.91
Division \ Program: Resource & Infrastructure Management Fund: Enterprise
Program Administrator: Jason Groth, Chief of Resource & Infrastructure Management

Expenditure Category	FY2015 Actual	FY2016 Adopted	FY2017 Proposed	FY2017 Adopted	\$ Change from FY2016	% Chg.
Operating Costs	\$184,925	\$185,000	\$185,000		\$0	0.0%
Total Baseline	\$184,925	\$185,000	\$185,000	\$0	\$0	0.0%
New Requests (see attached)			30,000		30,000	NEW
Total Expenditures	\$184,925	\$185,000	\$215,000	\$0	\$30,000	16.2%

Changes and Useful Information:

- **Operating Costs** represent the cost of mapping Best Management Practice facilities, existing Impervious Surfaces, and Forest Conservation easements.

Description:

The Charles County storm sewer system is operated per its National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System permit. The permit runs for five years and requires the County to develop and implement a number of programs to monitor and control water quality. The Resource and Infrastructure Management Division work includes continuous updating of the digital mapping of the County's storm sewer system in the County's Geographic Information System.

Objectives & Measurements:

	FY14 Actual	FY15 Actual	FY16 Projected	FY17 Estimated
<i>Objective: to maintain compliance with the County's Municipal National Pollutant Discharge Elimination System (NPDES) stormwater permit's. Source Identification task.</i>				
# of active projects	2	2	2	2
a) NPDES Stormwater GIS Infrastructure Mapping	210 plans	230 plans	200 plans	200 plans
b) Topography update	0.5 county	0.5 county	0.5 county	0.5 county

Watershed Protection and Restoration Fund

Department: Public Works 50.05.06
Division \ Program: Facilities - Administration Fund: Enterprise
Program Administrator: Bill Shreve, Director of Public Works
 Dennis Fleming, Chief of Environmental Resources

Expenditure Category	FY2015 Actual	FY2016 Adopted	FY2017 Proposed	FY2017 Adopted	\$ Change from FY2016	% Chg.
Personal Services	\$48,447	\$51,900	\$52,200		\$300	0.6%
Fringe Benefits	13,290	16,000	14,300		(1,700)	-10.6%
Operating Costs	55,609	109,500	87,500		(22,000)	-20.1%
Operating Contingency	0	0	2,100		2,100	NEW
Total Baseline	\$117,346	\$177,400	\$156,100	\$0	(\$21,300)	-12.0%
New Requests (see attached)			41,700		41,700	NEW
Total Expenditures	\$117,346	\$177,400	\$197,800	\$0	\$20,400	11.5%

Changes and Useful Information:

- The **Fringe Benefits** change is a result of the adjusting the Workers Compensation rate for FY 2017, adjusting the Health & Dental budget by a 5% rate increase and from the pension decrease due to actuarial plan assumption changes.
- **Operating Costs** was adjusted to estimated actual. The \$22,000 Consultant budget is no longer needed.
- **Operating Contingency** represents the equivalent cost of a potential employee merit for FY 2017.

Description:

Federal & State agencies mandate that County owned facilities comply with the NPDES stormwater permit. The Department of Public Works is responsible for preparing stormwater pollution prevention plans for its facilities, and conducts regular site inspections and trains staff on implementing procedures for reducing stormwater pollutant discharge to the waterways.

Positions:

Title	FY14 FTE	FY15 FTE	FY16 FTE	FY17 FTE
Environmental Compliance Officer	1.0	1.0	1.0	1.0
Total Full Time Equivalent	1.0	1.0	1.0	1.0

Department: Public Works 50.05.53
Division \ Program: Road Maintenance Fund: Enterprise
Program Administrator: Steve Staples, Chief of Roads

Expenditure Category	FY2015 Actual	FY2016 Adopted	FY2017 Proposed	FY2017 Adopted	\$ Change from FY2016	% Chg.
Operating Costs	\$296,851	\$339,500	\$319,500		(\$20,000)	-5.9%
Total Expenditures	\$296,851	\$339,500	\$319,500	\$0	(\$20,000)	-5.9%

Changes and Useful Information:

- **Operating Costs** represent contract services for street sweeping, stormwater maintenance, storm drain, inlet cleaning, inlet inspection and scheduling, and deicing pollution prevention.
- The budget decrease of \$20,000 represents a reduction in the Deicing Pollution Prevention budget to current activity.

Description:

Contract services needed to initiate a program that will monitor and control storm water quality as part of the NPDES.

Objectives & Measurements:

	FY14 Actual	FY15 Actual	FY16 Projected	FY17 Estimated
<i>Objective: To reduce pollution in the Chesapeake Bay Watershed.</i>				
Number of storm water basins/inlets inspected	2,120	1,670	1,700	1,700
Number of storm water basins/inlets cleaned	149	198	150	150
Number of storm water basins/inlets repaired	80	57	70	70
Tons of trash/debris removed from basins/inlets	124.9	36	60	80
Number of storm water management ponds cleaned/repared	12	28	20	20
Tons of trash/debris removed by street sweeping	162.9	198	180	200

Watershed Protection and Restoration Fund

Department: County Attorney 50.16
Division \ Program: County Attorney Fund: Enterprise
Program Administrator: Rhonda Weaver, Esq., County Attorney

Expenditure Category	FY2015 Actual	FY2016 Adopted	FY2017 Proposed	FY2017 Adopted	\$ Change from FY2016	% Chg.
Operating Costs	\$27,235	\$75,000	\$16,000		(\$59,000)	-78.7%
Total Expenditures	\$27,235	\$75,000	\$16,000	\$0	(\$59,000)	-78.7%

Changes and Useful Information:

- **Operating Costs** represents the estimated FY 2017 legal fees associated with the NPDES permit.

Description:

Legal Fees associated with the NPDES permit.

FY 2017 New Operating/Capital Request Request Greater than Baseline

Item Description	Justification	Value of Request	Additional Operating	Direct Purchase	1/2 Year Lease
Watershed Protection & Restoration Fund					
<u>Public Works- Facilities/Administration</u> 50.05.06.0503.000					
General Repair and Maintenance		15,000	15,000	0	0
<i>Dam Maintenance - materials and supplies for dam maintenance to be performed by DPW staff.</i>					
Slope Mower		16,000		0	1,700
<i>Dam Maintenance - mow steep slopes of County dams.</i>					
Contract Services		25,000	25,000	0	0
<i>Dam Maintenance - contract services for dam maintenance and repairs to be performed by a contractor.</i>					
<u>Planning & Growth Management - Planning</u> 50.05.53.0503.000					
DFAS: Indirect Cost for Accounting Office Support Staff		1,600	1,600	0	0
<i>Increase in Indirect Cost Allocation to cover the Accounting Officer position. Due to the growing complexity of work that arises day-to-day, requesting an Assistant Chief of Accounting position that will share responsibility in decisions that relate to the various areas found within the Accounting Division. This will enhance decision making authority and operational efficiency with the additional position in the chain of command.</i>					
<u>Planning & Growth Management - RIM</u> 50.07.91.0503.000					
Mapping Services		30,000	30,000	0	0
<i>increase in the GIS Infrastructure Mapping budget over the current base of \$185,000 to convert new data to topographic contour lines necessary for use in the County's GIS mapping system.</i>					
Total Watershed Protection & Restoration Fund		87,600	71,600	0	1,700

Watershed Protection and Restoration Fund FY17-FY21 Operating Plan

	FY16 Budget	FY17 Proposed	FY18 Estimate	FY19 Estimate	FY20 Estimate	FY21 Estimate
Revenues						
Watershed Protection & Restoration Fee	\$1,799,800	\$1,781,400	\$1,804,000	\$1,826,600	\$1,849,200	\$1,871,800
Transfer from General Fund	550,000	550,000	550,000	550,000	550,000	550,000
Lot Recordation	50,700	50,700	51,300	51,900	52,500	53,100
Fee Credit	(5,100)	(2,000)	(2,000)	(2,000)	(2,000)	(2,000)
Miscellaneous	5,300	5,300	5,600	5,600	5,600	5,700
Fund Balance	75,000	112,000	70,000	72,000	75,000	78,000
Total Revenues	\$2,475,700	\$2,497,400	\$2,478,900	\$2,504,100	\$2,530,300	\$2,556,600
Expenditures						
Salaries & Fringe	\$307,600	\$322,100	\$325,900	\$337,200	\$345,500	\$354,200
Operating	1,243,400	1,194,300	1,218,100	1,242,500	1,267,300	1,292,500
Contingency	0	5,200	5,300	5,500	5,600	5,700
Debt	889,700	1,052,000	2,159,200	3,544,200	4,448,600	5,213,400
Drainage Studies CIP	35,000	112,000	70,000	72,000	75,000	78,000
Total Expenditures	\$2,475,700	\$2,685,600	\$3,778,500	\$5,201,400	\$6,142,000	\$6,943,800
Surplus / (Deficit)	\$0	(\$188,200)	(\$1,299,600)	(\$2,697,300)	(\$3,611,700)	(\$4,387,200)
Revenue based on Flat Fee per improved property:						
\$1 on fee generates approximately:	\$50,218	\$50,895	\$51,565	\$52,235	\$52,905	\$53,575
Estimated Fee:	\$35	\$39	\$61	\$87	\$103	\$117
Increase over FY 2016 adoption		\$4	\$26	\$52	\$68	\$82

Watershed Protection and Restoration Fund Capital Improvement Program

<u>EXISTING PROJECTS</u>	<u>Project #</u>	<u>Status</u>	<u>LTD</u> <u>Approved</u>	<u>Remaining</u> <u>Expenditure</u> <u>Balance</u>
NPDES RETROFIT PROJECTS	8019	Parent Project	18,593,980	18,575,583
PINEFIELD NPDES RETROFIT PROJECTS	8023	Construction	1,219,630	143,823
ACTON/HAMILTON NPDES RETROFIT PROJECTS	8024	Design	325,720	6,761
BRYANS ROAD NPDES RETROFIT PROJECTS	8025	Construction	2,009,810	141,626
FOX RUN NPDES RETROFITS	8030	Construction	1,091,710	250,128
WHITE PLAINS NPDES RETROFITS	8034	Construction	688,750	504,160
PINEFIELD TEMI DRIVE NPDES RETROFITS	8037	Construction	1,134,300	1,006,225
NPDES HOLLY TREE FARM STREAM RESTORATION	8038	Construction	1,746,700	1,680,874
STAVORS ROAD NPDES RETROFITS	8039	Design	292,500	261,874
ACTON LAND NPDES RETROFITS	8040	Construction	318,300	44,037
POTOMAC HEIGHTS NPDES IMPROVEMENTS	8046	Construction	839,550	379,557
NPDES - PORT TOBACCO	8049	Design	34,500	26,273
NPDES - TANGLEWOD	8050	Design	1,310,410	1,248,382
NPDES - CHARLES COUNTY PLAZA	8051	Design	74,000	6,314
NPDES - TENTH DISTRICT VOLUNTEER FIRE DEPARTMENT	8052	Design	105,600	99,863
NPDES - SWAN POINT WWTP SHORELINE STABILIZATION	8053	Design	1,146,500	1,074,266
PUBLIC WORKS CAMPUS STORMWATER MANAGEMENT IMF	8055	Active	696,000	695,426
NPDES - GENERAL SMALLWOOD MIDDLE SCHOOL	8056	Active	106,500	95,469
NPDES - LACKEY HIGH SCHOOL	8057	Design	119,500	108,876
NPDES MAPPING	8035	Active	753,800	115,264
GIS MAPPING	8036	Complete	455,540	70
COBB ISLAND DRAINAGE STUDY	8043	Active	95,000	80,733
MASTER DRAINAGE PLAN	8047	Active	182,000	156,146
FEASIBILITY & CONCEPT DESIGN	8048	Design	1,537,000	651,242
			34,877,300	27,352,974
Bonds to be issued on existing projects			\$26,118,600	
FY17-FY21 Capital Improvement Program Bonds			59,997,000	
Total Bond Issues FY17-FY21			<u>\$86,115,600</u>	

FY17-FY21 NPDES RETROFIT PROJECT

Ongoing and potential project areas include Pinefield, Bryans Road, Holly Tree Lane, Acton-Hamilton, Fox Run, White Plains, Stavors Road, Tanglewood, Potomac Heights, Tenth District VFD, Port Tobacco Stream Restoration, Benedict Point, Department of Public Works Campus, Charles County Plaza, Post Office Lake, Wakefield Lake, Melwood, Bensville Park, Laurel Branch, Old Washington Road, and Waldorf Commercial Corridor. Additional projects will be identified by the impervious surface assessment, and the watershed assessments and restoration plans also required by the County's 2014 NPDES municipal stormwater permit.

REQUESTED CAPITAL IMPROVEMENT PROGRAM

FISCAL YEAR 2017

(\$ in thousands)

WATERSHED PROTECTION & RESTORATION FUND SUMMARY

Charles County continues design, permitting, and construction of stormwater facilities to manage the quantity and quality of stormwater runoff from unmanaged impervious surface. Cost associated with this program are part of the Watershed Protection and Restoration Enterprise Fund and paid for with the stormwater remediation fee.

EXPENSE BUDGET	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	5-Year Total '17-'21	Approp. thru FY16	Beyond FY 2021	Project Total
Architectural & Engineering	\$920	\$869	\$891	\$918	\$950	\$4,548	\$1,090	\$923	\$6,561
Land & ROW	583	795	815	839	869	3,901	2,762	899	7,562
Construction	8,287	8,162	8,366	8,617	8,919	42,351	14,199	9,231	65,781
Equipment	0	5	5	6	6	22	0	0	22
Administration	577	555	578	601	625	2,936	880	642	4,458
Administration - FAS	12	6	6	6	8	38	58	4	100
Inspection	256	244	250	257	266	1,273	324	278	1,875
Miscellaneous	207	209	217	226	235	1,094	294	207	1,595
Contingency	830	817	838	863	893	4,241	1,645	923	6,809
Total Outlay	\$11,672	\$11,662	\$11,966	\$12,333	\$12,771	\$60,404	\$21,251	\$13,107	\$94,762

FINANCING SOURCES	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	5-Year Total '17-'21	Approp. thru FY16	Beyond FY 2021	Project Total
Bonds	\$11,560	\$11,592	\$11,894	\$12,258	\$12,693	\$59,997	\$21,251	\$13,107	\$94,355
Operating Transfer	0	0	0	0	0	0	0	0	0
Total County Funding	\$11,672	\$11,662	\$11,966	\$12,333	\$12,771	\$60,404	\$21,251	\$13,107	\$94,762
Federal	0	0	0	0	0	0	0	0	0
State	0	0	0	0	0	0	0	0	0
Other:	0	0	0	0	0	0	0	0	0
Total Funding	\$11,672	\$11,662	\$11,966	\$12,333	\$12,771	\$60,404	\$21,251	\$13,107	\$94,762

Operating Budget Impact	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Approp. thru FY16	Beyond FY 2021
No. of Personnel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Personnel Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Operating	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Operating	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Debt Service: Bonds	1,767.3	2,491.6	3,220.1	3,967.6	4,737.9	1,767.3	6,526.0
Vehicle & Equipment Lease	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Impact	\$1,767.3	\$2,491.6	\$3,220.1	\$3,967.6	\$4,737.9	\$1,767.3	\$6,526.0

Increase to Annual ESF fee:	\$34.72	\$48.32	\$61.65	\$74.99	\$88.44	\$34.72	\$120.29
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VARIANCE TO APPROVED PER FY16-FY20 CAPITAL IMPROVEMENT PROGRAM:

	FY 2017	FY 2018	FY 2019	FY 2020	TOTAL
Approved FY16-FY20 CIP	\$11,479	\$11,592	\$11,894	\$12,258	\$47,223
Increase/(Decrease)	\$193	\$70	\$72	\$75	\$410
% change	1.7%	0.6%	0.6%	0.6%	0.9%

REQUESTED CAPITAL IMPROVEMENT PROGRAM

FISCAL YEAR 2017

(\$ in thousands)

PROJECT NAME:	Requested By: PGM
NPDES Retrofit Projects	Project #: 8019
<p>The project is based on the County's 2014 NPDES municipal stormwater permit requirement to assess the impervious surface, and commence and complete implementation of restoration efforts for twenty percent of the County's impervious surface that has not already been restored to the maximum extent practicable.</p> <p>Ongoing and potential project areas include Pinefield, Bryans Road, Holly Tree Lane, Acton-Hamilton, Fox Run, White Plains, Stavors Road, Tanglewood, Potomac Heights, Tenth District VFD, Port Tobacco Stream Restoration, Benedict Point, Department of Public Works Campus, Charles County Plaza, Post Office Lake, Wakefield Lake, Melwood, Bensville Park, Laurel Branch, Old Washington Road, and Waldorf Commercial Corridor. Additional projects will be identified by the impervious surface assessment, and the watershed assessments and restoration plans also required by the County's 2014 NPDES municipal stormwater permit.</p> <p>Restoration of untreated impervious surface can be done by new or upgraded stormwater quality facilities and practices, step pool storm conveyances, stream restoration, shoreline management, septic practices, impervious land use conversion, outfall stabilization, and routinely performed street and drainage cleaning practices, per State Guidance for NPDES Stormwater Permits, August 2014.</p>	
VARIANCE TO APPROVED PER FY16-FY20 CAPITAL IMPROVEMENT PROGRAM:	
	TOTAL
Approved FY16-FY20 CIP	\$43,633
Increase/(Decrease)	\$0
% change	0.0%

EXPENSE BUDGET	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	5-Year			
						Total '17-'21	Approp. thru FY16	Beyond FY 2021	Project Total
Architectural & Engineering	\$770	\$770	\$770	\$770	\$770	\$3,850	\$1,040	\$770	\$5,660
Land & ROW	583	750	750	750	750	3,583	2,762	750	7,095
Construction	7,700	7,700	7,700	7,700	7,700	38,500	13,682	7,700	59,882
Equipment	0	0	0	0	0	0	0	0	0
Administration	527	527	527	527	527	2,635	837	530	4,002
Administration - FAS	3	3	3	3	3	15	55	3	73
Inspection	230	230	230	230	230	1,150	298	230	1,678
Miscellaneous	200	200	200	200	200	1,000	289	200	1,489
Contingency	770	770	770	770	770	3,850	1,593	770	6,213
Total Outlay	\$10,783	\$10,950	\$10,950	\$10,950	\$10,950	\$54,583	\$20,555	\$10,953	\$86,091

FINANCING SOURCES	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	5-Year			
						Total '17-'21	Approp. thru FY16	Beyond FY 2021	Project Total
Bonds (30 Year)	\$10,783	\$10,950	\$10,950	\$10,950	\$10,950	\$54,583	\$20,555	\$10,953	\$86,091
Fund Balance Appropriation	0	0	0	0	0	0	0	0	0
Operating Transfer	0	0	0	0	0	0	0	0	0
Total County Funding	\$10,783	\$10,950	\$10,950	\$10,950	\$10,950	\$54,583	\$20,555	\$10,953	\$86,091
Federal	0	0	0	0	0	0	0	0	0
State	0	0	0	0	0	0	0	0	0
Other:	0	0	0	0	0	0	0	0	0
Total Funding	\$10,783	\$10,950	\$10,950	\$10,950	\$10,950	\$54,583	\$20,555	\$10,953	\$86,091

Operating Budget Impact	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Approp. Beyond	
						thru FY16	FY 2021
No. of Personnel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Personnel Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Operating	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Operating	\$0.0						
Debt Service: Bonds	1,709.4	2,383.1	3,071.3	3,759.4	4,447.6	1,709.4	6,417.5
Vehicle & Equipment Lease	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Impact	\$1,709.4	\$2,383.1	\$3,071.3	\$3,759.4	\$4,447.6	\$1,709.4	\$6,417.5

Increase to Annual WPRF fee: \$33.59 \$46.22 \$58.80 \$71.06 \$83.02 \$33.59 \$118.29

LOCATION:
Charles County Development District- see description

REQUESTED CAPITAL IMPROVEMENT PROGRAM

FISCAL YEAR 2017

(\$ in thousands)

PROJECT NAME:	Requested By: PGM
Public Works Campus Stormwater Management Improvements	Project #: 8055
<p>The County's 2014 NPDES municipal stormwater permit requires restoration for twenty percent of the County's impervious surface that has not already been restored to the maximum extent practicable. In an effort to comply with this mandate, the Department of Public Works managed a study to determine stormwater retrofits at their offices located on Radio Station Road in La Plata, MD. The study proposed numerous water quality measures to treat the complex's 29.5 impervious acres and remove 278.2 pounds of nitrogen, 82.6 pounds of phosphorus, and 13.7 tons of suspended sediment annually. The estimated construction cost of all the improvements is \$1,034,000, with an average cost per acre treated of \$35,000. The types of improvements include a wet pond retrofit, a bioretention basin, infiltration berms, a stream restoration project, and flow-through planters.</p>	
VARIANCE TO APPROVED PER FY16-FY20 CAPITAL IMPROVEMENT PROGRAM:	
	TOTAL
Approved FY16-FY20 CIP	\$696
Increase/(Decrease)	\$0
% change	0.0%

EXPENSE BUDGET	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	5-Year Total '17-'21	Approp. thru FY16	Beyond FY 2021	Project Total
Architectural & Engineering	\$50	\$0	\$0	\$0	\$0	\$50	\$50	\$0	\$100
Land & ROW	0	0	0	0	0	0	0	0	0
Construction	517	0	0	0	0	517	517	0	1,034
Equipment	0	0	0	0	0	0	0	0	0
Administration	43	0	0	0	0	43	43	0	86
Administration - FAS	3	0	0	0	0	3	3	0	6
Inspection	26	0	0	0	0	26	26	0	52
Miscellaneous	5	0	0	0	0	5	5	0	10
Contingency	52	0	0	0	0	52	52	0	104
Total Outlay	\$696	\$0	\$0	\$0	\$0	\$696	\$696	\$0	\$1,392

FINANCING SOURCES	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	5-Year Total '17-'21	Approp. thru FY16	Beyond FY 2021	Project Total
Bonds (30 Year)	\$696	\$0	\$0	\$0	\$0	\$696	\$696	\$0	\$1,392
Fund Balance Appropriation	0	0	0	0	0	0	0	0	0
Operating Transfer	0	0	0	0	0	0	0	0	0
Total County Funding	\$696	\$0	\$0	\$0	\$0	\$696	\$696	\$0	\$1,392
Federal	0	0	0	0	0	0	0	0	0
State	0	0	0	0	0	0	0	0	0
Other:	0	0	0	0	0	0	0	0	0
Total Funding	\$696	\$0	\$0	\$0	\$0	\$696	\$696	\$0	\$1,392

Operating Budget Impact	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Approp. thru FY16	Beyond FY 2021
No. of Personnel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Personnel Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Operating	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Operating	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Debt Service: Bonds	57.9	101.4	101.4	101.4	101.4	57.9	101.4
Vehicle & Equipment Lease	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Impact	\$57.9	\$101.4	\$101.4	\$101.4	\$101.4	\$57.9	\$101.4
Increase to Annual WPRF fee:	\$1.14	\$1.97	\$1.94	\$1.92	\$1.89	\$1.14	\$1.87

LOCATION:
La Plata MD

REQUESTED CAPITAL IMPROVEMENT PROGRAM

FISCAL YEAR 2017

(\$ in thousands)

PROJECT NAME: Floodplan Analysis Studies	Requested By: PGM Project #:
Provide computations of major drainage courses of 30 Acres or more that are not mapped by FEMA studies for potential restoration projects.	
VARIANCE TO APPROVED PER FY16-FY20 CAPITAL IMPROVEMENT PROGRAM:	
	TOTAL
Approved FY16-FY20 CIP	\$0
Increase/(Decrease)	\$313
% change	new

EXPENSE BUDGET	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	5-Year Total '17-'21	Approp. thru FY16	Beyond FY 2021	Project Total
Architectural & Engineering	\$100	\$50	\$50	\$50	\$50	\$300	\$0	\$0	\$300
Land & ROW	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0
Equipment	0	5	5	5	5	20	0	0	20
Administration	7	7	7	7	7	35	0	0	35
Administration - FAS	3	3	3	3	3	15	0	0	15
Inspection	0	0	0	0	0	0	0	0	0
Miscellaneous	1	1	1	1	1	5	0	0	5
Contingency	1	1	1	1	1	5	0	0	5
Total Outlay	\$112	\$67	\$67	\$67	\$67	\$380	\$0	\$0	\$380

FINANCING SOURCES	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	5-Year Total '17-'21	Approp. thru FY16	Beyond FY 2021	Project Total
Bonds	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Fund Balance Appropriation	112	67	67	67	67	380	0	0	380
Operating Transfer	0	0	0	0	0	0	0	0	0
Total County Funding	\$112	\$67	\$67	\$67	\$67	\$380	\$0	\$0	\$380
Federal	0	0	0	0	0	0	0	0	0
State	0	0	0	0	0	0	0	0	0
Other:	0	0	0	0	0	0	0	0	0
Total Funding	\$112	\$67	\$67	\$67	\$67	\$380	\$0	\$0	\$380

Operating Budget Impact	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Approp. thru FY16	Beyond FY 2021
No. of Personnel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Personnel Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Operating	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Operating	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Debt Service: Bonds	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Vehicle & Equipment Lease	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Impact	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Increase to Annual WPRF fee:	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00

LOCATION:
Throughout Charles County

REQUESTED CAPITAL IMPROVEMENT PROGRAM

FISCAL YEAR 2017

(\$ in thousands)

PROJECT NAME:	Requested By: DPW
Gilbert Run Watershed Dam Repairs	Project #:
Repairs to drain valve at Trinity Lake and underdrain system at Jameson Lake, both part of the Gilbert Run Watershed.	
VARIANCE TO APPROVED PER FY16-FY20 CAPITAL IMPROVEMENT PROGRAM:	
	TOTAL
Approved FY16-FY20 CIP	\$0
Increase/(Decrease)	\$81
% change	new

EXPENSE BUDGET	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	5-Year Total '17-'21	Approp. thru FY16	Beyond FY 2021	Project Total
Architectural & Engineering	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Land & ROW	0	0	0	0	0	0	0	0	0
Construction	70	0	0	0	0	70	0	0	70
Equipment	0	0	0	0	0	0	0	0	0
Administration	0	0	0	0	0	0	0	0	0
Administration - FAS	3	0	0	0	0	3	0	0	3
Inspection	0	0	0	0	0	0	0	0	0
Miscellaneous	1	0	0	0	0	1	0	0	1
Contingency	7	0	0	0	0	7	0	0	7
Total Outlay	\$81	\$0	\$0	\$0	\$0	\$81	\$0	\$0	\$81

FINANCING SOURCES	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	5-Year Total '17-'21	Approp. thru FY16	Beyond FY 2021	Project Total
Bonds	\$81	\$0	\$0	\$0	\$0	\$81	\$0	\$0	\$81
Fund Balance Appropriation	0	0	0	0	0	0	0	0	0
Operating Transfer	0	0	0	0	0	0	0	0	0
Total County Funding	\$81	\$0	\$0	\$0	\$0	\$81	\$0	\$0	\$81
Federal	0	0	0	0	0	0	0	0	0
State	0	0	0	0	0	0	0	0	0
Other:	0	0	0	0	0	0	0	0	0
Total Funding	\$81	\$0	\$0	\$0	\$0	\$81	\$0	\$0	\$81

Operating Budget Impact	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	Approp. thru FY16	Beyond FY 2021
No. of Personnel	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Personnel Costs	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Operating	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Operating	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Debt Service: Bonds	0.0	7.1	7.1	7.1	7.1	0.0	7.1
Vehicle & Equipment Lease	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Impact	\$0.0	\$7.1	\$7.1	\$7.1	\$7.1	\$0.0	\$7.1
Increase to Annual WPRF fee:	\$0.00	\$0.14	\$0.14	\$0.13	\$0.13	\$0.00	\$0.13

LOCATION:
Gilbert Run Watershed - Trinity and Jameson Lake