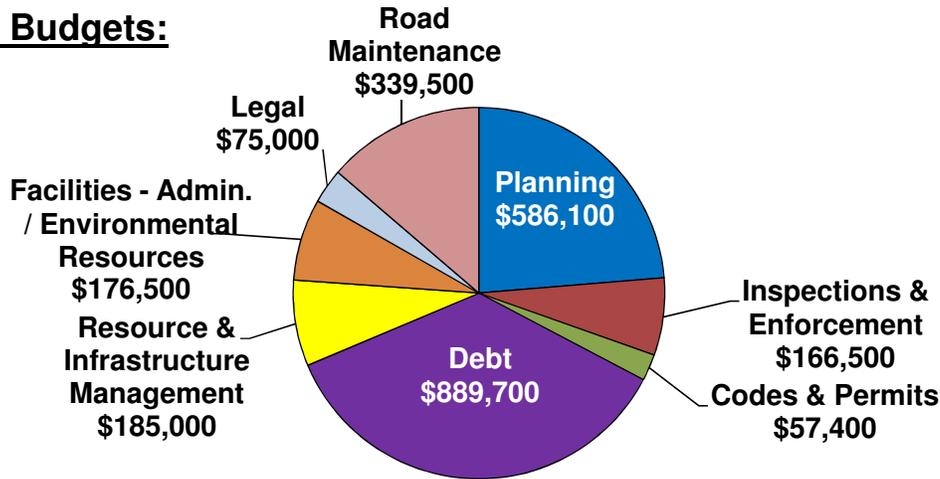


FISCAL YEAR 2016

Watershed Protection and Restoration Fund

Total Operating Budget: \$2,475,700

Division Budgets:



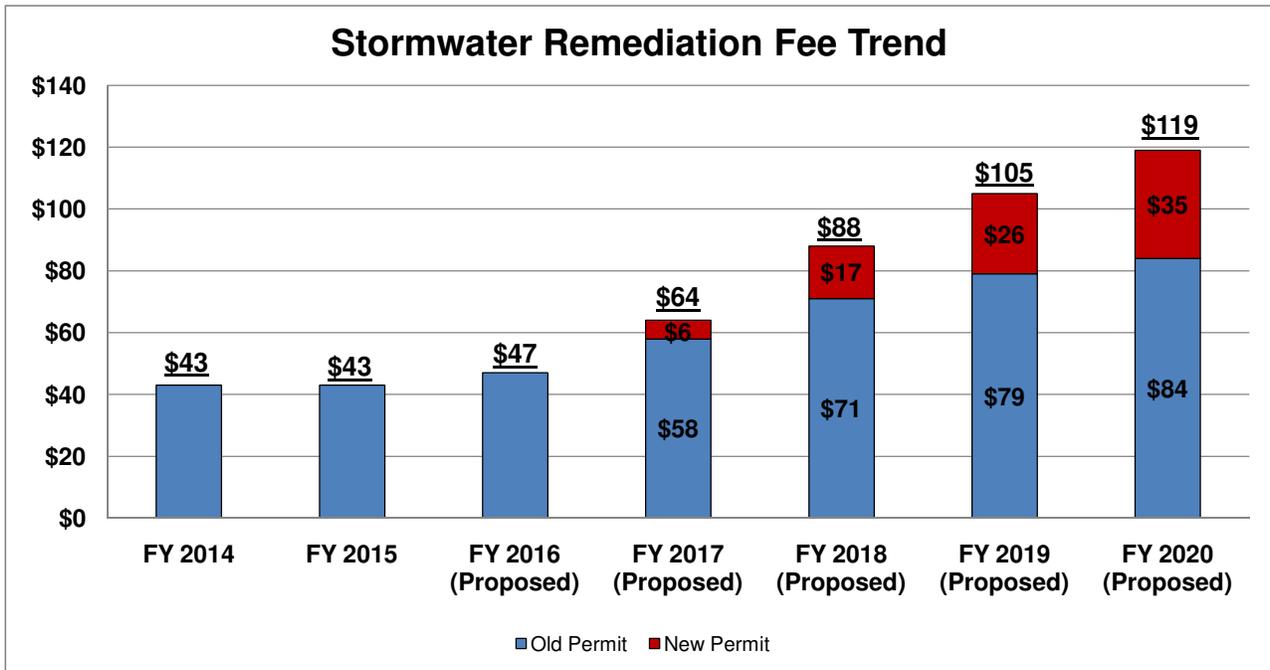
	FY2015 Adopted	FY2016 Proposed	Variance	% Change
Baseline Revenues	\$2,168,800	\$2,277,600	\$108,800	5.0%
Baseline Expenditures	2,168,800	2,461,200	292,400	13.5%
Surplus / (Deficit)	\$0	(\$183,600)	(\$183,600)	
New Requests		(\$14,500)	(\$14,500)	
Total Surplus / (Deficit)	\$0	(\$198,100)	(\$198,100)	

A \$1 adjustment on fee generates approximately: \$50,040

<u>Major Adjustments to the Proposed Budget:</u>		Fee Rate Change
Debt Service		
Assumes a \$4.0 million bond issue will be needed for 2015 due to new permit.	\$263,500	\$5.47
Inspection & Enforcement		
More contract inspectors will be needed to handle demands of new State MS-4 permit & address major backlog of SWM maintenance inspections required every 3 yrs. If staff is not increased, County is subject to major fines. Recent audit by EPA noted the need for additional staff resources to properly implement this program.	\$79,000	\$1.64
Legal		
To appeal the new NPDES permit	\$75,000	\$1.56
Proposing to use fund balance to fund appeal costs associated with the new NPDES permit.	(\$75,000)	(\$1.56)
Planning		
To fund contractual obligations related to the National Pollutant Discharge Elimination System (NPDES) Program.	\$23,800	\$0.49
Public Works - Admin		
FY 16 New Request - Community Promotions to hold rain barrel workshops (\$10,000) & additional operating expenses to support the Departments efforts towards this program (\$4,500).	\$14,500	\$0.30
Decrease in operating expenses based on current spending patterns for consultant & contract services.	(\$50,000)	(\$1.04)
Contingency		
Reducing the Contingency budget to \$0.	(\$73,700)	(\$1.53)
Increase in revenues and decrease in expenditures saves	(\$59,000)	(\$1.22)
Total	\$198,100	\$4.11

FISCAL YEAR 2016

Watershed Protection and Restoration Fund



State law mandated that the County establish the Stormwater Remediation Fee for the FY 2014 budget. The estimated rate increase is based on the County's 2014 NPDES municipal stormwater permit State mandated 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. The previous permit was based on twenty percent of the County's impervious surface within the Development District. The County is appealing the State ruling and if the permit requirement is reversed, the County's fee is projected be 10% less in fiscal year's FY 2017 - FY 2020.

	FY 2016 (Proposed)	FY 2017 (Proposed)	FY 2018 (Proposed)	FY 2019 (Proposed)	FY 2020 (Proposed)
Estimated Fee - old permit	\$47	\$58	\$71	\$79	\$84
Estimated additional fee - new permit	\$0	\$6	\$17	\$26	\$35
Combined Estimated Fee	\$47	\$64	\$88	\$105	\$119

FISCAL YEAR 2016
Watershed Protection and Restoration Fund

	FY2015 <u>Adopted</u>	FY2016 <u>Proposed</u>	\$ Change from FY2015	% Change
<u>Revenue</u>				
Stormwater Remediation Fee	\$2,121,100	\$2,151,700	\$30,600	1.4%
Lot Recordation	50,000	50,700	700	1.4%
Miscellaneous	2,700	5,300	2,600	96.3%
Fee Credit	(5,000)	(5,100)	(100)	2.0%
Total Operating Revenues	\$2,168,800	\$2,202,600	\$33,800	1.6%
Fund Balance		75,000	75,000	new
Total Revenues	\$2,168,800	\$2,277,600	\$108,800	5.0%
<u>Expenditures</u>				
Salary & Fringe	\$316,800	\$307,600	(\$9,200)	-2.9%
Operating	1,092,100	1,228,900	136,800	12.5%
Contingency	73,700	0	(73,700)	-100.0%
Debt Service	626,200	889,700	263,500	42.1%
Cobb Island Drainage Study CIP	60,000	35,000	(25,000)	-41.7%
Total Baseline Request	\$2,168,800	\$2,461,200	\$292,400	13.5%
New Requests		14,500	14,500	new
Total Expenditures	\$2,168,800	\$2,475,700	\$306,900	14.2%
Surplus / (Deficit)	\$0	(\$198,100)	(\$198,100)	

New Requests for FY 2016:

Community Promotions - Hold four rain barrel workshops and subsidized approximately 170 rain barrels.	\$10,000
Additional Operating Expenses for Public Works - Admin.	4,500
	\$14,500

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	FY2014 Actual	FY2015 Adopted	FY2016 Proposed	FY2016 Adopted	\$ Change from FY2015	% Chg.
Personal Services	\$105,558	\$144,100	\$144,100	\$0	\$0	0.0%
Fringe Benefits	25,580	42,600	44,700	0	2,100	4.9%
Operating Costs	168,056	326,500	362,300	0	35,800	11.0%
Operating Contingency	0	73,700	0	0	(73,700)	-100.0%
Debt Service	531,067	626,200	889,700	0	263,500	42.1%
Capital Projects	180,000	60,000	35,000	0	(25,000)	-41.7%
Total Expenditures	\$1,010,261	\$1,273,100	\$1,475,800	\$0	\$202,700	15.9%

Changes and Useful Information:

- The **Fringe Benefits** increase is a result of the adjusting the Workers Compensation rate for FY 2016 and adjusting the Health & Dental budget by a 7% rate increase.
- **Operating Costs** adjustments:
 - The consultant budget was increased by \$23,800 to fund contractual obligations related to the NPDES Program.
 - Legal Fees were increased by \$11,000 for consulting services related to NPDES permit justification.
 - The Training budget was increased by \$1,000 in order for staff to attend NPDES and WIP related training.
- **Debt Service** represents principal and interest payments on stormwater management bonds.
 - \$206,800 in interest and debt issue costs on the estimated \$4.0 million 2015 bond issue to meet the demands of the new permit.
 - \$56,700 increase in principal and interest to cover existing debt.
- **Capital Projects** budget of \$35,000 is for the Cobb Island Drainage Study.

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

Objectives & Measurements:

	FY14 Actual	FY15 Projected	FY16 Estimated
<i><u>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 WPRP program requirements.</u></i>			
# of active projects	12	12	12
Projects per FTE	6.80	6.80	6.80
a) Illicit Discharge Detection and Elimination Inspection & Upland Visual Surveys	100 outfalls	100 outfalls	100 outfalls
b) Property Maintenance & Management Inspection - # of sites	4	4	4
c) Watershed Assessment/Total Maximum Daily Load Planning - # of assessments/plans	1	1	1
d) Small Watershed Water Quality Monitoring (Chemical, Biological, Geomorphic, Best Management Practice Assess) - # of samples/surveys	12	12	12
e) Large Watershed Water Quality Monitoring (Chemicals) - # of samples	20	20	20
f) Public Outreach and Education Program - # of events	2	2	2
g) WPRP Appeal, Credit, and Hardship Processing			
Property owners receiving a 50% Credit.	69	190	100
Property owners receiving a 100% Exemption.	5	20	10

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

	FY2014 Actual	FY2015 Adopted	FY2016 Proposed	FY2016 Adopted	\$ Change from FY2015	% Chg.
Operating Costs	\$47,593	\$87,500	\$166,500	\$0	\$79,000	90.3%
Total Expenditures	\$47,593	\$87,500	\$166,500	\$0	\$79,000	90.3%

Changes and Useful Information:

- **Operating Costs** increase of \$79,000 is due to increased demands on Contractual staff for SWM maintenance inspections, illicit discharge inspections as result of EPA audit results, WIP & new systems coming into maintenance. More contract inspectors will be needed to handle demands of new State MS-4 permit & address major backlog of SWM maintenance inspections required every 3 yrs. If staff is not increased, County is subject to major fines. Recent audit by EPA noted the need for additional staff resources to properly implement this program.

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.

Objectives & Measurements:

	FY14 Actual	FY15 Projected	FY16 Estimated
<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	1,800	1,900

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	FY2014 Actual	FY2015 Adopted	FY2016 Proposed	FY2016 Adopted	\$ Change from FY2015	% Chg.
Personal Services	\$41,621	\$37,500	\$37,500	\$0	\$0	0.0%
Fringe Benefits	13,882	12,000	14,300	0	2,300	19.2%
Operating Costs	0	10,600	5,600	0	(5,000)	-47.2%
Total Expenditures	\$55,502	\$60,100	\$57,400	\$0	(\$2,700)	-4.5%

Changes and Useful Information:

- The **Fringe Benefits** increase is a result of the adjusting the Workers Compensation rate for FY 2016 and adjusting the Health & Dental budget by a 7% rate increase.
- The **Operating Costs** budget was reduced by \$5,000 to reflect current spending patterns in Contract Services.

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:

	FY14	FY15	FY16
Title	FTE	FTE	FTE
Engineer I - IV	0.5	0.5	0.5
Total Full Time Equivalent	0.5	0.5	0.5

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	FY2014 Actual	FY2015 Adopted	FY2016 Proposed	FY2016 Adopted	\$ Change from FY2015	% Chg.
Operating Costs	\$182,860	\$185,000	\$185,000	\$0	\$0	0.0%
Total Expenditures	\$182,860	\$185,000	\$185,000	\$0	\$0	0.0%

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 Projected	FY16 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
a) NPDES Stormwater GIS Infrastructure Mapping	500 plans	500 plans	500 plans
b) Topography update	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	FY2014 Actual	FY2015 Adopted	FY2016 Proposed	FY2016 Adopted	\$ Change from FY2015	% Chg.
Personal Services	\$0	\$59,800	\$51,200	\$0	(\$8,600)	-14.4%
Fringe Benefits	0	20,800	15,800	0	(5,000)	-24.0%
Operating Costs	22,310	145,000	95,000	0	(50,000)	-34.5%
Total Baseline	\$22,310	\$225,600	\$162,000	\$0	(\$63,600)	-28.2%
New Requests (see attached)			14,500		14,500	NEW
Total Expenditures	\$22,310	\$225,600	\$176,500	\$0	(\$49,100)	-21.8%

Changes and Useful Information:

- **Personal Services** and **Fringe Benefits** are decreasing due to refilling a vacant position at a lower salary.
- **Operating Costs** adjustments were due to the following reasons:
 - The Contract Services budget was reduced by (\$27,000) to reflect current spending patterns. This budget is for NDPEs Permits.
 - The Consultant budget was decreased by (\$23,000) to equal FY 2014 actual related to annual reporting.

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
Environmental Compliance Officer	1.0	1.0	1.0
Total Full Time Equivalent	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	FY2014 Actual	FY2015 Adopted	FY2016 Proposed	FY2016 Adopted	\$ Change from FY2015	% Chg.
Operating Costs	\$270,128	\$337,500	\$339,500	\$0	\$2,000	0.6%
Total Expenditures	\$270,128	\$337,500	\$339,500	\$0	\$2,000	0.6%

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 \$2,000 increase represents the cost to provide yearly maintenance on the Meadlowlands Subdivision Stormwater Management ponds which is 100% funded by the subdivision residents

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 Projected	FY16 Estimated
<i>Objective: To reduce pollution in the Chesapeake Bay Watershed.</i>			
Number of storm water basins/inlets inspected	2120	1,000	2,000
Number of storm water basins/inlets cleaned	149	150	150
Number of storm water basins/inlets repaired	80	50	70
Tons of trash/debris removed from basins/inlets	124.9	80	140
Number of storm water management ponds cleaned/repared	12	20	20
Tons of trash/debris removed by street sweeping	162.9	100	180

Watershed Protection and Restoration Fund

Department: County Attorney 50.16
Division \ Program: County Attorney Fund: Enterprise
Program Administrator: Elizabeth D. Theobalds, Esq., Acting County Attorney

Expenditure Category	FY2014 Actual	FY2015 Adopted	FY2016 Proposed	FY2016 Adopted	\$ Change from FY2015	% Chg.
Operating Costs	\$0	\$0	\$75,000	\$0	\$75,000	NEW
Total Expenditures	\$0	\$0	\$75,000	\$0	\$75,000	NEW

Changes and Useful Information:

- **Operating Costs** represents the estimated FY 2016 cost to appeal the new NPDES permit.

Description:

Legal Fees related to appealing the new NPDES permit.

FY 2016 New Operating/Capital Request Program Enhancements

Item Description	Justification	Value of Request	Additional Operating	Direct Purchase	1/2 Year Lease
Watershed Protection & Restoration Fund					
<u>Public Works-</u>					
<u>Facilities/Administration</u>	50.05.06.0503.000				
Community Promotions		10,000	10,000	0	
<i>Funding to hold four rain barrel workshops, advertising and subsidize approximately 170 rain barrels for residents.</i>					
Operating Expenses		4,500	4,500	0	
<i>Line items needed to support new Watershed Protection Restoration Fund budget: \$2,000 General Supplies, \$2,000 Training, \$500 Vehicle Fuel.</i>					
Total Watershed Protection & Restoration Fund		14,500	14,500	0	0

Watershed Protection and Restoration Fund FY16-FY20 Operating Plan

	FY15 Budget	FY16 Proposed	FY17 Estimate	FY18 Estimate	FY19 Estimate	FY20 Estimate
<u>Operating Revenue</u>						
Watershed Protection & Restoration Fee	\$2,121,100	\$2,151,700	\$2,180,500	\$2,209,300	\$2,238,100	\$2,266,900
Lot Recordation	50,000	50,700	51,400	52,100	52,800	53,500
Fee Credit	(5,000)	(5,100)	(5,200)	(5,300)	(5,400)	(5,500)
Miscellaneous	2,700	5,300	6,400	7,600	7,700	7,700
Fund Balance	0	75,000	0	0	0	0
Total Revenues	\$2,168,800	\$2,277,600	\$2,233,100	\$2,263,700	\$2,293,200	\$2,322,600
<u>Expenditures</u>						
Salaries & Fringe	\$316,800	\$307,600	\$317,800	\$334,600	\$352,600	\$366,200
Operating	1,092,100	1,243,400	1,191,600	1,215,300	1,239,500	1,264,100
Contingency	73,700	0	0	0	0	0
Debt	626,200	889,700	1,785,700	2,985,900	3,895,700	4,717,800
Cobb Island Drainage Study CIP	60,000	35,000	0	0	0	0
Total Expenditures	\$2,168,800	\$2,475,700	\$3,295,100	\$4,535,800	\$5,487,800	\$6,348,100
Surplus / (Deficit)	\$0	(\$198,100)	(\$1,062,000)	(\$2,272,100)	(\$3,194,600)	(\$4,025,500)

Revenue based on Flat Fee per improved property:

\$1 on fee generates approximately:	\$49,327	\$50,039	\$50,709	\$51,379	\$52,049	\$52,719
Estimated Fee:	\$43	\$47	\$64	\$88	\$105	\$119
Increase over FY 2015 adoption		\$4	\$21	\$45	\$62	\$76

Estimated Fee - with new permit	\$47	\$64	\$88	\$105	\$119
Estimated Fee - old permit	\$47	\$58	\$71	\$79	\$84
Variance	\$0	\$6	\$17	\$26	\$35
<i>Percentage Difference</i>	0%	10%	24%	33%	42%
Yearly Increase		10%	14%	9%	9%

Watershed Protection and Restoration Fund Capital Improvement Program

EXISTING PROJECTS	Project #	Status	LTD Approved	Remaining Expenditure Balance
NPDES RETROFIT PROJECTS	8019	Parent Project	13,606,290	13,587,992
PINEFIELD NPDES RETROFIT PROJECTS	8023	Construction	1,219,630	170,077
ACTON/HAMILTON NPDES RETROFIT PROJECTS	8024	Design	325,720	14,477
BRYANS ROAD NPDES RETROFIT PROJECTS	8025	Construction	2,009,810	154,593
FOX RUN NPDES RETROFITS	8030	Construction	1,091,710	282,253
LANCASTER NPDES RETROFITS	8031	Design	85,360	12,495
RYON WOODS NPDES RETROFITS	8033	Design	122,540	2,093
WHITE PLAINS NPDES RETROFITS	8034	Design	152,050	1,877
PINEFIELD TEMI DRIVE NPDES RETROFITS	8037	Construction	641,800	535,452
STAVORS ROAD NPDES RETROFITS	8039	Design	292,500	286,889
ACTON LAND NPDES RETROFITS	8040	Construction	318,300	62,919
NPDES HOLLY TREE FARM STREAM RESTORATION	8038	Design	59,300	904
WHITE PLAINS NPDES IMPROVEMENTS	8045	Design	536,700	530,875
POTOMAC HEIGHTS NPDES IMPROVEMENTS	8046	Design	839,550	834,281
NPDES - PORT TOBACCO	8049	Design	34,500	32,153
NPDES - TANGLEWOD	8050	Design	67,500	43,637
NPDES - CHARLES COUNTY PLAZA	8051	Design	74,000	55,323
NPDES - TENTH DISTRICT VOLUNTEER FIRE DEPARTMENT	8052	Design	105,600	105,479
NPDES WATERSHED RESTORATION STUDY #3	8028	Complete	24,740	2
NPDES MAPPING	8035	Active	753,800	301,058
GIS MAPPING	8036	Active	455,540	583
FEASIBILITY & CONCEPT DESIGN	8048	Design	537,000	296,976
			23,353,940	17,312,388
Bonds to be issued on existing projects			\$16,652,800	
FY16-FY20 Capital Improvement Program			58,702,000	
Total Bond Issues FY16-FY21			<u>\$75,354,800</u>	

FY16-FY20 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.

Fiscal Notes:

- The Carrington NPDES retrofit project is complete.
- La Plata Watershed Restoration project was closed due to lack of Grant funding.

REQUESTED CAPITAL IMPROVEMENT PROGRAM

FISCAL YEAR 2016

(\$ 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 2016	FY 2017	FY 2018	FY 2019	FY 2020	5-Year Total '16-'20	Approp. thru FY15	Beyond FY 2020	Project Total
Architectural & Engineering	\$845	\$820	\$816	\$837	\$862	\$4,180	\$275	\$232	\$4,687
Land & ROW	583	583	795	815	839	3,615	4,027	869	8,511
Construction	8,217	8,217	8,162	8,366	8,617	41,579	8,384	2,891	52,854
Equipment	0	0	0	0	0	0	0	0	0
Administration	581	576	551	573	596	2,877	533	200	3,610
Inspection	256	256	244	250	257	1,263	164	87	1,514
Miscellaneous	210	205	208	216	225	1,064	113	103	1,280
Contingency	822	822	816	837	862	4,159	992	39	5,190
Total Outlay	\$11,514	\$11,479	\$11,592	\$11,894	\$12,258	\$58,737	\$14,488	\$4,421	\$77,646

FINANCING SOURCES	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	5-Year Total '16-'20	Approp. thru FY15	Beyond FY 2020	Project Total
Bonds	\$11,479	\$11,479	\$11,592	\$11,894	\$12,258	\$58,702	\$14,428	\$4,421	\$77,551
Fund Balance Appropriation	0	0	0	0	0	0	0	0	0
Operating Transfer	35	0	0	0	0	35	60	0	95
Total County Funding	\$11,514	\$11,479	\$11,592	\$11,894	\$12,258	\$58,737	\$14,488	\$4,421	\$77,646
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	\$11,514	\$11,479	\$11,592	\$11,894	\$12,258	\$58,737	\$14,488	\$4,421	\$77,646

Operating Budget Impact	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Approp. thru FY15	Beyond FY 2020
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
Operating	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Debt Service: Bonds	0.0	717.2	1,476.7	2,287.6	3,165.6	1,199.9	3,572.0
Vehicle & Equipment Lease	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Impact	\$0.0	\$717.2	\$1,476.7	\$2,287.6	\$3,165.6	\$1,199.9	\$3,572.0
Increase to Annual ESF fee:	\$0.70	\$13.46	\$28.77	\$43.99	\$60.87	\$24.57	\$67.80

VARIANCE TO APPROVED PER FY15-FY19 CAPITAL IMPROVEMENT PROGRAM:

	FY 2016	FY 2017	FY 2018	FY 2019	TOTAL
Approved FY15-FY19 CIP	\$3,319	\$3,414	\$4,606	\$4,670	\$16,009
Increase/(Decrease)	\$8,195	\$8,065	\$6,986	\$7,224	\$30,470
% change	246.9%	236.2%	151.7%	154.7%	190.3%

REQUESTED CAPITAL IMPROVEMENT PROGRAM

FISCAL YEAR 2016

(\$ in thousands)

PROJECT NAME:	Requested By: PGM
NPDES Retrofit Projects	Project #: 8019
	Goal: 2.1
<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 FY15-FY19 CAPITAL IMPROVEMENT PROGRAM:	
	TOTAL
Approved FY15-FY19 CIP	\$13,947
Increase/(Decrease)	\$29,519
% change	211.7%

EXPENSE BUDGET	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	5-Year			
						Total '16-'20	Approp. thru FY15	Beyond FY 2020	Project Total
Architectural & Engineering	\$770	\$770	\$770	\$770	\$770	\$3,850	\$225	\$200	\$4,275
Land & ROW	583	583	750	750	750	3,416	4,027	750	8,193
Construction	7,700	7,700	7,700	7,700	7,700	38,500	8,384	2,496	49,380
Equipment	0	0	0	0	0	0	0	0	0
Administration	530	530	530	530	530	2,650	528	172	3,350
Inspection	230	230	230	230	230	1,150	164	75	1,389
Miscellaneous	200	200	200	200	200	1,000	108	103	1,211
Contingency	770	770	770	770	770	3,850	992	34	4,876
Total Outlay	\$10,783	\$10,783	\$10,950	\$10,950	\$10,950	\$54,416	\$14,428	\$3,830	\$72,674

FINANCING SOURCES									
Bonds (30 Year)	\$10,783	\$10,783	\$10,950	\$10,950	\$10,950	\$54,416	\$14,428	\$3,830	\$72,674
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	\$10,783	\$10,950	\$10,950	\$10,950	\$54,416	\$14,428	\$3,830	\$72,674
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	\$10,783	\$10,950	\$10,950	\$10,950	\$54,416	\$14,428	\$3,830	\$72,674

Operating Budget Impact						Approp. thru FY15		Beyond FY 2020	
No. of Personnel	0.00	0.00	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	0.0	0.0
Operating	0.0	0.0	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	\$0.0	\$0.0
Debt Service: Bonds	0.0	673.7	1,387.2	2,153.1	2,961.5	1,199.9	3,482.5		
Vehicle & Equipment Lease	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
Total Impact	\$0.0	\$673.7	\$1,387.2	\$2,153.1	\$2,961.5	\$1,199.9	\$3,482.5		
Increase to Annual WPRF fee:	\$0.00	\$13.30	\$27.02	\$41.40	\$56.94	\$24.57	\$66.10		

LOCATION:
Charles County Development District- see description

REQUESTED CAPITAL IMPROVEMENT PROGRAM

FISCAL YEAR 2016

(\$ in thousands)

PROJECT NAME:	Requested By: PGM
Cobb Island Drainage Study	Project #: 8043
	Goal: 2.1
<p>Conduct a preliminary drainage study to identify and rank drainage problems throughout Cobb Island. Much of Cobb Island was developed prior to Charles County's adoption of engineering standards associated with drainage (pipes, culverts, ditches, open channel, etc.) improvements. The Department of Planning and Growth Management and the Department of Public Works have received various drainage complaints throughout the years and are aware of the need for drainage improvements. The preliminary drainage study will also provide conceptual improvement scenarios and provide preliminary estimates of drainage improvement costs. These preliminary estimates of drainage improvement costs will then be used to establish budgets to complete the needed improvements.</p>	
VARIANCE TO APPROVED PER FY15-FY19 CAPITAL IMPROVEMENT PROGRAM:	
	TOTAL
Approved FY15-FY19 CIP	\$35
Increase/(Decrease)	\$0
% change	0.0%

EXPENSE BUDGET	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	5-Year			
						Total '16-'20	Approp. thru FY15	Beyond FY 2020	Project Total
Architectural & Engineering	\$25	\$0	\$0	\$0	\$0	\$25	\$50	\$0	\$75
Land & ROW	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0
Equipment	0	0	0	0	0	0	0	0	0
Administration	5	0	0	0	0	5	5	0	10
Inspection	0	0	0	0	0	0	0	0	0
Miscellaneous	5	0	0	0	0	5	5	0	10
Contingency	0	0	0	0	0	0	0	0	0
Total Outlay	\$35	\$0	\$0	\$0	\$0	\$35	\$60	\$0	\$95

FINANCING SOURCES	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	5-Year			
						Total '16-'20	Approp. thru FY15	Beyond FY 2020	Project Total
Bonds (30 Year)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Fund Balance Appropriation	0	0	0	0	0	0	0	0	0
Operating Transfer	35	0	0	0	0	35	60	0	95
Total County Funding	\$35	\$0	\$0	\$0	\$0	\$35	\$60	\$0	\$95
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	\$35	\$0	\$0	\$0	\$0	\$35	\$60	\$0	\$95

Operating Budget Impact	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Approp. Beyond	
						thru FY15	FY 2020
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
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
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LOCATION:
Cobb Island

REQUESTED CAPITAL IMPROVEMENT PROGRAM

FISCAL YEAR 2016

(\$ in thousands)

PROJECT NAME:	Requested By: PGM
Public Works Campus Stormwater Management Improvements	Project #:
	Goal: 2.1
<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 FY15-FY19 CAPITAL IMPROVEMENT PROGRAM:	
	TOTAL
Approved FY15-FY19 CIP	\$0
Increase/(Decrease)	\$1,392
<i>% change</i>	<i>new</i>

EXPENSE BUDGET	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	5-Year			
						Total '16-'20	Approp. thru FY15	Beyond FY 2020	Project Total
Architectural & Engineering	\$50	\$50	\$0	\$0	\$0	\$100	\$0	\$0	\$100
Land & ROW	0	0	0	0	0	0	0	0	0
Construction	517	517	0	0	0	1,034	0	0	1,034
Equipment	0	0	0	0	0	0	0	0	0
Administration	46	46	0	0	0	92	0	0	92
Inspection	26	26	0	0	0	52	0	0	52
Miscellaneous	5	5	0	0	0	10	0	0	10
Contingency	52	52	0	0	0	104	0	0	104
Total Outlay	\$696	\$696	\$0	\$0	\$0	\$1,392	\$0	\$0	\$1,392

FINANCING SOURCES	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	5-Year			
						Total '16-'20	Approp. thru FY15	Beyond FY 2020	Project Total
Bonds (30 Year)	\$696	\$696	\$0	\$0	\$0	\$1,392	\$0	\$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	\$696	\$0	\$0	\$0	\$1,392	\$0	\$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	\$696	\$0	\$0	\$0	\$1,392	\$0	\$0	\$1,392

Operating Budget Impact	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020	Approp. Beyond thru FY15 FY 2020	
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
Operating	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Debt Service: Bonds	0.0	43.5	89.5	89.5	89.5	0.0	89.5
Vehicle & Equipment Lease	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Impact	\$0.0	\$43.5	\$89.5	\$89.5	\$89.5	\$0.0	\$89.5
Increase to Annual WPRF fee:	\$0.00	\$0.86	\$1.74	\$1.72	\$1.72	\$0.00	\$1.70

LOCATION:
La Plata MD