Worksession

MEMORANDUM

February 25, 2014

TO:

Transportation, Infrastructure, Energy & Environment Committee

FROM: Keith Levchenko, Senior Legislative Analyst

SUBJECT:

Worksession: FY15-20 Capital Improvements Program (CIP) Conservation of Natural Resources:

- Stormwater Management
- **Storm Drains**

Council Staff Recommendations:

- Stormwater Management: Approve as Recommended by the County Executive. Highlights:
 - o Continued ramp-up in scope and costs for projects to address retrofit work per the NPDES-MS4 permit
 - State Aid assumed at previously approved levels.

the Stormwater Management CIP is funded entirely from Water Quality Protection Fund dollars (current revenue and bonds) and State aid. Therefore, changes in expenditures in this program DO NOT affect overall CIP Spending Affordability limits.

- Storm Drains: Approve as Recommended by the County Executive but with a twoyear appropriation recommended for the Storm Drain General project. Highlights:
 - o No new "stand alone" projects
 - o Wapakoneta Road Improvements project on schedule
 - o CE recommends moving switching GO bond funding to Water Quality Protection Fund bonds.

The following officials and staff will be attending this meeting:

Stormwater Management CIP Discussion

Bob Hoyt, Director, Department of Environmental Protection (DEP) Kathleen Boucher, Assistant Director (DEP)

Steve Shofar, Chief, Division of Watershed Management (DWM), DEP

Vicky Wan, Manager, Water Quality Protection Charge (DWM-DEP)

Craig Carson, Manager, Watershed Management (DWM-DEP)

Jim Stiles, Manager, Construction and Contracts (DWM-DEP)

Mary Beck, CIP Coordinator, Office of Management and Budget (OMB)

Matthew Schaeffer, OMB

Storm Drains CIP Discussion

Holger Serrano, Deputy Division Chief, Transportation Engineering, Department of Transportation

Michael Mitchell, Senior Engineer, Division of Transportation Engineering, Department of Transportation

Brady Goldsmith, Office of Management and Budget

Note: Time permitting, Council Staff has asked both DEP and DOT staff to present the Committee with some "before/during/after" photographs of some typical work being done under both the Stormwater Management CIP and the Storm Drains CIP.

FY15-20 STORMWATER MANAGEMENT CIP

Summary

Stormwater management is a shared responsibility among several County departments and agencies. DEP plans and implements the stormwater management CIP program. The Department of Permitting Services reviews, approves, inspects, and enforces requirements for construction of privately-owned stormwater management facilities. DEP works with the County's Department of Transportation (DOT) to address storm drain outfall repair issues, as well as with the Washington Suburban Sanitary Commission (WSSC) when WSSC infrastructure work is needed. DEP also inspects and provides structural maintenance for most Montgomery County Public Schools' (MCPS) and the Montgomery County facilities on Maryland-National Capital Park and Planning Commission (M-NCPPC) land.

An excerpt from the Executive's Recommended FY15-20 CIP is attached on ©1-12. The Executive is recommending a significant increase in the six-year program (from \$304.9 million to \$363.7 million, or 19.3 percent). This follows very large increases in the program approved in the previous two CIP cycles (FY11-16 and FY13-18).

These prior increases were reflective of the County's efforts to implement its work associated with the County's National Pollution Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) permit (discussed in more detail later in this

memorandum). This year's increase reflects a continued ramping up of work and revised cost estimates based on additional design work completed.

The following table shows the Executive's recommendation compared to the latest Approved FY13-18 CIP.

Stormwater Management CIP (in \$000s)											
	Six-Year	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20		
FY13-18 Latest Approved	304,861	44,861	45,000	50,000	50,000	55,000	60,000	/3PMA/2141	提供的		
FY15-20 CE Recommended	363,655		A Park State of	53,345	56,724	70,368	60,612	60,666	61,940		
change from Approved	58,794		ALC: N	3,345	6,724	15,368	612	9 (A) A :			
percent change from Approved	19.3%			6.7%	13.4%	27.9%	1.0%				

The bulk of the increased dollars are in the <u>Miscellaneous Stream Valley Improvements</u> project (\$26.1 million increase), SM Retrofit: Roads (\$22 million increase), and <u>SM Facility</u> Major Structural Repair (\$8.8 million increase) projects.

Overall, there are six ongoing projects and two new projects.

The sources of funds for the Approved FY13-18 CIP and the FY15-20 Recommended CIP are shown in the following chart.

Stormwater Management CIP Funding (in \$000s)

			, ,		
	FY13-18	FY15-20	% of	Change from	FY13-18
	Total	Total	Total	\$\$	%
Six-Year Total	304,861	363,655		58,794	19.3%
State Aid	69,861	60,000	16.5%	(9,861)	-14.1%
Water Quality Protection Charge - Bonds	228,250	295,255	81.2%	67,005	n/a
Water Quality Protection Charge	6,750	8,400	2.3%	1,650	24.4%

Four years ago, the Council approved the Executive's recommendation to use bonds paid for with Water Quality Protection Charge (WQPC) revenue to cover the majority of spending in this program. According to OMB staff, these bonds are being treated like revenue bonds and therefore do not factor into the County's General Obligation Bond Spending Affordability limits. For FY15-20, most of the recommended increase in spending would be covered with additional Water Quality Protection Charge bonds.

The rest of the increase is covered by Water Quality Protection Charge current revenue. State aid is assumed to decrease overall by about \$9.9 million (-14.1 percent) during the six-year period. The new recommended amount (\$60 million) is close to the amounts received for FY13 and FY14 (\$19.8 million). If State aid ultimately received is lower than assumed, then the Council will need to consider whether to increase local funding or reduce the level of effort in projects.

National Pollution Discharge Elimination System Municipal Separate Storm Sewer System Discharge (NPDES-MS4) Permit

Background

DEP is the lead agency for Montgomery County with regard to the NPDES Permit. The Maryland Department of the Environment (MDE) is the State agency responsible for approving NPDES permits, which are required as part of the Clean Water Act enforced by the Environmental Protection Agency. The first five-year permit was renewed in July 2001 and later modified in January 2004 to include six localities as "co-permittees." The County's permit covers all areas of the County, with the exception of the cities of Gaithersburg, Rockville, and Takoma Park, and lands under the control of State agencies (including the Maryland-National Capital Park and Planning Commission and Washington Suburban Sanitary Commission) or Federal agencies.

The current 5-year permit was issued by MDE on February 16, 2010. DEP is the lead department coordinating a multi-department/agency response to meet the permit's requirements.

Permit Requirements

The County's Coordinated Implementation Strategy (CCIS) (dated January 2012) provides the planning basis for the County to meet the following goals, as required in the County's NPDES-MS4 Permit:

- 1. Meet Total Maximum Daily Load (TMDL) Wasteload Allocations (WLAs) approved by EPA.
- 2. Provide additional stormwater runoff management on impervious acres equal to 20 percent of the impervious area for which runoff is not currently managed, to the maximum extent practicable (MEP). This requirement continues to be the primary driver of CIP expenditure increases.
- 3. Meet commitments in the Trash Free Potomac Watershed Initiative 2006 Action Agreement, which include support for regional strategies and collaborations aimed at reducing trash, increasing recycling, and increasing education and awareness of trash issues throughout the Potomac Watershed.
- 4. Educate and involve residents, businesses, and stakeholder groups in achieving measurable water quality improvements.
- 5. Establish a reporting framework that will be used for annual reporting, as required in the County's NPDES-MS4 Permit.
- 6. Identify necessary organizational infrastructure changes needed to implement the Strategy.

Cost Implications

The cost implications for implementation of these changes are substantial. Overall, DEP estimates the permit costs to be about \$305 million through 2015 and nearly \$1.9 billion through

2030. Charts from the CCIS (attached on ©23-24) break out these estimated costs by watershed and type of work to be done.

Funding will be sought from Federal and State sources, as well as from local partners. However, as shown earlier, over 80 percent of the Stormwater Management CIP costs are expected to be funded with bonds supported by the County's Water Quality Protection Fund (WQPF).

The increase in Water Quality Protection Fund bond funding in the Recommended FY15-20 CIP is about \$67 million (over the six years) above what is programmed in the Amended FY13-18 CIP. The impact on FY15 is far less, however, and the Water Quality Protection Charge impact for FY15 will depend on a number of other impacts on the Fund. A full review of the Fund will be done as part of the Operating Budget review of the DEP Budget later this spring.

Water Quality Protection Fund

The Water Quality Protection Fund and charge were created in 2001 via Council legislation (Bill 28-00). Since its inception, the Water Quality Protection Fund has covered the costs for the County's inspection, maintenance, and rehabilitation of thousands of stormwater management facilities. Since the approval of the County's latest NPDES-MS4 permit in 2010, the Water Quality Protection Fund has become the major source of funding (for both current revenue and bond financing) for this work as well.

Last year, the Council approved major legislative and regulatory changes in the structure of the Water Quality Protection Charge. These changes included:

- o Broadening the charge to include almost all property owners.
- o Providing credits to property owners who have on-site or off-site stormwater management facilities and/or implement certain best practices.
- o Providing a hardship exemption for residential property owners and qualifying non-profits.
- o Providing for a supplemental grant program to offset the cost to eligible homeowners associations for WQPC assessments associated with private roads that meet certain conditions.
- o Phasing in any increased charges to property owners over three years.

These changes addressed requirements in State law while also making the charge more equitable and broader in the context of providing sufficient resources to meet the County's NPDES-MS4 permit requirements.

Implementation

DEP already has engineering and construction contracts in place that are being utilized now for current work. Additional contracts will be needed in future years to handle the significantly greater construction load. DEP plans to utilize contractors as much as possible to

minimize staff increases. DEP has already started to ramp up with the addition of new staff in the last several budgets.

Issues

State Aid Assumptions

Council Staff asked Executive staff to elaborate on the \$10 million per year State aid assumption for FY15-20. Below is DEP's response:

In FY13 and FY14, we received commitments from the State for grants in the amount of \$19.8M. As this actual grant commitment amount $($19.8M/2\ years = $9.9M\ per\ year)$ was very close to our previous assumption of $$10M\ per\ year$, we decided to again utilize the $$10M\ per\ year$ assumption. We also wanted to use a number which indicates that the County still needs State Aid for this work.

The apportioning of projected State Aid was based on: 1) how the FY13-14 State Aid was distributed among projects and 2) our estimating where the State will provide Aid in the future.

While the Governor's office has indicated interest in providing additional State Aid, there has been little concrete information. The \$18.9M received in FY13/14 may be a maximum number — now that additional jurisdictions have similar permits to comply with.

If State Aid is received higher than current assumptions, work will increase accordingly to utilize this funding. If State Aid is received lower than current assumptions, the County Executive and County Council would need to decide the adjustments needed to the implementation schedule.

Receipt of the State aid will be a key factor in how much work DEP can implement in the CIP. From Montgomery County's perspective, Council Staff would argue that the local commitment of CIP dollars (already extremely high) should not have to increase further if the assumed State aid is not forthcoming.

Stormwater Management Retrofits

The biggest costs in the stormwater management CIP are for stormwater retrofit work. The permit goal is to retrofit 4,300 acres to the maximum extent practicable (MEP). DEP estimates that it has retrofitted 3,200 acres to date and will retrofit approximately 3,750 acres (87.2 percent of the permit requirement) by the end of the permit period (February 2015).

While below the permit goal, DEP's estimate of acres to be treated represents a massive ramp-up of work. DEP previously has noted that it has received positive feedback from MDE regarding its plans and that Montgomery County is a statewide leader in its permit implementation efforts to date.

Project Review

Facility Planning: SM (PDF on ©4)

Facility Planning: Stormwater Management

	Six-Year	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20
FY13-18 Latest Approved	6,750	1,150	1,150	1,150	1,100	1,100	1,100	公里的2种2种	
FY15-20 CE Recommended	8,400		建建筑	1,150	1,250	1,350	1,450	1,550	1,650
change from approved	1,650	THE PART OF A	可憐娇ぴ~	*	150	250	350		
percent change from approved	24.4%	a saliki dinaka		0.0%	13.6%	22.7%	31.8%		

This project funds evaluations of watershed needs and identifies alternatives to address these needs, including possible CIP projects. This project provides approximately 30 percent design completion to projects generated from this program. The project is funded with Water Quality Protection Fund current revenue dollars.

Annual facility planning costs are assumed to go up during the six-year period as DEP expects future stormwater management and stream restoration opportunities will require more effort and resources to meet future MS4 permit requirements. DEP has noted that, "future planning efforts will involve identifying projects to reduce waste loads allocations closer to the pollutant source (LID/ESD) rather than treating larger impervious areas by retrofitting existing stormwater management facilities."

As far as current work in the project, DEP provided the following project update:

The watershed implementation plans for Dry Seneca, Little Seneca, Upper Potomac Direct, Lower Potomac Direct, and Patuxent watersheds are currently underway and will be completed at the end of FY14. Completing these assessments meets the watershed assessment requirements outline in the County's MS4 permit.

DEP will complete the assessment of 61 schools to identify LID retrofit opportunities in FY14 and begin the final assessment of 80 schools for LID retrofit opportunities before the end of FY14.

The following items are efforts required by MDE or in preparation for future permit requirements

- Updating the CCIS baseline and wasteload allocations in preparation for permit reporting and future MS4 permit requirements (planned for FY15)
- Developing and updating the implementation plan for the impaired watersheds issued by MDE (ongoing based upon issuance from MDE)

SM Retrofit: Countywide (PDF on ©5-6)

SM Retrofit - Countywide

		Offi	Kenont - C	ourity wide					
	Six-Year	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20
FY13-18 Latest Approved	151,805	14,005	24,200	25,100	24,500	29,500	34,500	(大学科学)	表说代刊 。
FY15-20 CE Recommended	146,470	Salah Sa		18,726	22,968	23,408	23,732	27,696	29,940
change from approved	(5,335)			(6,374)	(1,532)	(6,092)	(10,768)	-	·
percent change from approved	-3.5%	1,75	^ ,-	-25.4%	-6.3%	-20.7%	-31.2%		

This project provides for the design and construction of stormwater management retrofit projects countywide. The list of projects to be done is summarized on the PDF with more detail and cost information provided on ©32-36. The project is funded with WQPF bonds and State aid (\$3.5 million per year assumed).

The Executive is recommending a total of \$146.5 million over the six-year period (a slight decrease from the FY13-18 CIP after very large increases in this project over the past two biennial CIP cycles).

Misc. Stream Valley Improvements (PDF on ©7-8)

Misc Stream Valley Improvements

	Six-Year	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20
FY13-18 Latest Approved	16,456	3,656	3,070	3,070	2,220	2,220	2,220		Se State of
FY15-20 CE Recommended	42,573			6,393	5,440	9,640	8,900	6,100	6,100
change from approved	26,117		12.50 X	3,323	3,220	7,420	6,680		
percent change from approved	158.7%			108.2%	145.0%	334.2%	300.9%		

This project funds the design and construction of restoration and corrective measures to stream reaches having severe channel erosion, sedimentation, habitat degradation, and flooding problems. Priorities are based on watershed studies and data from the Countywide Stream Protection Strategy (see excerpt from 2003 update on ©12-13).

The Executive is recommending a total of \$42.6 million over the six-year period (an increase of nearly 160 percent from the approved six-year total of \$16.5 million). The PDF notes that costs are increasing due to an increase in the number of projects to be done¹, site conditions, and higher individual project costs. The projects to be done are summarized on the PDF, and more detail is attached on ©30-31.

During its stream evaluations, DEP also identifies storm drain outfall repair needs and coordinates with DOT's <u>Outfall Repairs</u> project. Sewer issues are also identified and forwarded to WSSC.

The project is funded with Water Quality Protection Bonds and State aid. For FY15, the Executive is recommending the same annual level of State aid assumed in the FY13-18 CIP for years FY15 and beyond (\$1.0 million per year).

¹ DEP staff noted that "since the FY13-18 CIP budget submission, the State has provided guidance on equivalent IA which can be obtained via stream restoration projects. Preliminary analysis indicated that stream projects can be cost effective. Therefore, the Department is recommending an increase in the number of stream restoration projects."

SM Retrofit: Schools (PDF on ©9)

SM Retrofit - Schools

	Six-Year	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20
FY13-18 Latest Approved	20,100	1,270	1,010	3,270	4,850	4,850	4,850	स्रीक्षेद्धगान र	ila jilk ji
FY15-20 CE Recommended	24,930			3,470	6,280	3,480	3,900	3,900	3,900
change from approved	4,830	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Friedrich (*)	200	1,430	(1,370)	(950)		
percent change from approved	24.0%	1 12 12 12 14 14		6.1%	29.5%	-28.2%	-19.6%		

This project was split from the SM Retrofit: Government Facilities project two years ago.

The Executive is recommending a six-year total of \$24.9 million, funded entirely with WQPF bonds.² The project is recommended to increase by 24 percent over the six-year period primarily because of prior project delays.

Projects planned for construction are listed on the PDF, with further detail provided on ©25.

SM Retrofit: Roads (PDF on ©10)

SM Retrofit - Roads

	Six-Year	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20
FY13-18 Latest Approved	76,425	20,515	9,910	11,500	11,500	11,500	11,500	14 MARKE	
FY15-20 CE Recommended	98,420			12,740	14,080	26,320	16,010	15,170	14,100
change from approved	21,995	<u> </u>	<u>16. 41 - 1</u>	1,240	2,580	14,820	4,510		
percent change from approved	28.8%	ź		10.8%	22.4%	128.9%	39.2%		

This project was split from the SM Retrofit: Government Facilities project two years ago.

The Executive is recommending a six-year total of \$98.4 million, funded with WQPF bonds and State aid. The project is recommended to increase by almost 29 percent over the six-year period as a result of additional retrofit projects being added to the schedule.

DEP has provided the following information regarding the large spike in costs in FY16-FY18:

The increases result from two primary items: 1) As indicated on the spreadsheet, DEP has a fairly large number of road subprojects in design; the expected construction of these Roadway SWM projects is expected to occur in FY16 and FY17 – causing a "spike" in costs those years, and 2) Experience over the last 2 years indicate these types of projects are more expensive than previously assumed.

Projects planned for construction are listed on the PDF, with further detail provided on ©26-27.

² Unlike the other projects, no State aid is assumed for this project, because State legislative action would be required.

SM Retrofit: Government Facilities (PDF on ©11)

SM Retrofit - Government Facilities

	Six-Year	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20
FY13-18 Latest Approved	16,425	1,125	2,900	3,100	3,100	3,100	3,100		Agran Prom
FY15-20 CE Recommended	17,732		3 4 1	3,026	2,816	2,820	3,270	2,900	2,900
change from approved	1,307			(74)	(284)	(280)	170		
percent change from approved	8.0%	2, 1, 2	ang es	-2.4%	-9.2%	-9.0%	5.5%		

This project provides for the design and construction of Environmentally Sensitive Design (ESD) and Low Impact Development (LID) stormwater management devices at County facilities. The Executive is recommending a six-year total of \$17.7 million, funded entirely with WQPC bonds. The project is recommended to increase by 8.0 percent over the six-year period. A detailed project schedule is attached on ©28-29.

Stormwater Management Facility Major Structural Repair (PDF on ©12)

SM Facility Major Structural Repair

	Six-Year	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20
FY13-18 Latest Approved	14,280	1,830	2,450	2,500	2,500	2,500	2,500	一类"是"第一	
FY15-20 CE Recommended	23,070	1000	SERVICE.	7,530	3,540	3,000	3,000	3,000	3,000
change from approved	8,790			5,030	1,040	500	500		
percent change from approved	61.6%			201.2%	41.6%	20.0%	20.0%		•

This project provides for the design and construction of major structural repairs to County maintained stormwater management facilities. Smaller, less complex projects are funded out of the Operating Budget.

The Executive is recommending a six-year total of nearly \$23.1 million (an increase of \$8.8 million). Most of the increase results from a large bump in FY15. The FY15 increase is a result of including the hydraulic dredging of two large lakes: Lake Whetstone in Montgomery Village and Gunners Lake in Germantown (each costing about \$3.0 million). DEP has noted that because this work requires a specialty contractor, there are economies gained from doing both lakes in FY15.

The project is funded with WQPF Bonds and some State aid.

A full list of projects to be done (and costs) by fiscal year is attached on ©37-38.

Watershed Restoration – Interagency (PDF on ©3)

Watershed Restoration - Interagency

	Six-Year	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20
FY13-18 Latest Approved	2,620	1,310	310	310	230	230	230	机器等等效	Constant of
FY15-20 CE Recommended	2,060			310	350	350	350	350	350
change from approved	(560)	11/0.特别特别			120	120	120		
percent change from approved	-21.4%	14 15 -	The state of the s	0.0%	52.2%	52.2%	52.2%		

This project is an ongoing series of subprojects that are being constructed in cooperation with the US Army Corps of Engineers. Expenditures by the Corps of Engineers do not show up in the PDF. The Corps pays 65 percent to 75 percent of the total costs.

For FY15-20, the Executive is recommending \$2.1 million in expenditures, which represents a 21.4 percent decrease from the FY13-18 Approved CIP. Apart from the completion of \$1.0 million in State-funded work completed in FY13, the project is showing annual increases in FY16 and beyond as a result of an increase in the number of projects expected to be done in the outyears.

FY15-20 STORM DRAINS CIP

Summary: Council Staff is supportive of the FY15-20 Storm Drains CIP projects recommended by the County Executive.

NOTE: For FY15-20, the County Executive is recommending that the Storm Drains CIP be funded from Water Quality Protection Charge (WQPC) bonds and WQPC current revenue, consistent with the transition made over several years to move Storm Drain operating costs from the County's General Fund to the WQPC. Council Staff concurs with this funding change. Assuming this change, any potential expenditure changes in these projects do not affect the County's affordability calculations with regard to G.O. bonds or general current revenue.

Summary

The Department of Transportation (DOT) Division of Transportation Engineering manages the County storm drains program. Properly functioning storm drains remove excess water from the roads, ensuring safer road conditions while also protecting roads from water damage. Properly functioning storm drains also protect adjacent properties from water runoff damage. Work is identified through requests for assistance that come from property owners as well as from government agencies. DOT works in partnership with the State and other municipalities when State roads and/or municipal properties are involved. DOT staff will be available to provide a brief overview of the storm drains program. Some summary information from the DOT website is attached on ©21-22.

An excerpt from the Executive's Recommended FY15-20 CIP for storm drains is attached on ©13-20. The Executive is recommending \$16.6 million for FY15-20. The following table shows the recommendation by fiscal year compared to the latest Approved FY13-18 CIP.

Stormdrains CIP (in 000s) Six-Year FY16 **FY17** FY18 FY19 FY13 FY14 FY15 FY20 FY13-18 Latest Approved 17,528 2,676 2,676 2,806 2,806 FY15-20 CE Recommended 2,806 16,576 2,676 2,676 2,806 2,806 2,806 change from amended (952) percent change from approved 0.0% -5.4% 0.0% 0.0%

Last year, the Council approved two amendments to the Stormdrain CIP:

- Facility Planning: Stormdrains: Funding of this project switched from current revenue to Water Quality Protection fund dollars. The annual level of spending (\$250,000) was left unchanged.
- Storm Drain Culvert Replacement: New level of effort project added to the CIP (\$6.3 million total for FYs14-18, funded with G.O. Bonds).

For the FY15-20 CIP, the County Executive is recommending a decrease of \$952,000 (5.4 percent) over the latest Approved CIP. The six-year decrease in expenditures is primarily the result of the completion of two projects (Maple Avenue Storm Drain & Roadway Improvement and the Town of Chevy Chase Storm Drain Improvements). No new projects are recommended.

The sources of funds for the Stormdrains CIP are shown in the following chart.

Stormdrains CIP (in \$000s)

		, ,		
	FY13-18	FY15-20	\$\$\$	%
	Total	Total	Change	Change
Total	17,528	16,576	(952)	-5.4%
GO Bonds	15,838	-	(15,838)	-100.0%
Water Quality Protection Charge	1,580	6,512	4,932	312.2%
Water Quality Protection Bonds	-	10,064	10,064	n/a
Intergovernmental	110	-	(110)	-100.0%

As shown in the chart, the County Executive is recommending using Water Quality Protection Fund (WQPF) Bonds and WQPF current revenue for all ongoing projects. G.O. bonds, which were the primary funding source in the FY13-18 CIP, are zeroed out for the FY15-20 CIP. Some storm drain projects can involve State or other outside participation, although none of these sources are assumed in FY15-20 Recommended CIP at this time.

Project Review

Facility Planning: Stormdrains (PDF on ©15-16)

Facility Planning: Storm Drains

	Six-Year	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20
FY13-18 Latest Approved	1,580	250	250	250	250	290	290	WIND TO SERVE	있는 사람들이 기를 보고
FY15-20 CE Recommended	1,660	าง. กระติ ซึ่งกระติสัต	Nedagov A	250	250	290	290	290	290
change from approved	80		Oran	-	•	-	-		
percent change from approved	5.1%	in in a substitution	Name of	0.0%	0.0%	0.0%	0.0%		

This project provides for the investigation and analysis of various storm drainage assistance requests initiated by private citizens and public agencies. Depending on the complexity of the project, in-house staff or consultants design projects to a 35 percent design level. At that point, projects that cost over \$500,000 become stand-alone projects if approved. Projects costing less than \$500,000 are constructed in the Storm drain: General project.

The County Executive is recommending \$250,000 in FY15 and FY16 and \$290,000 per year in FY17 through FY20, all with Water Quality Protection Charge current revenue funding. The FY15 through FY18 amounts are the same as approved.

A large portion of funds from this project covers the costs of responding to Drainage Assistance Requests (DARs), background research, data collection, survey, and concept alternative evaluation. Requests continue to be received on a regular basis.

Two projects are noted on the PDF (Linton St./Patton St. and Hollywood Ave. However, DOT has noted that a number of other projects have been added to the project since the PDF was developed last fall. These projects include:

19016 Jamieson Drive Blakeford Court at Falmouth Road 5504 Cornish Road 3005 Decatur Avenue 5506 Ridgefield 6215 Garnett Drive Piney Meetinghouse S. of Cavanaugh

Outfall Repairs (PDF on ©14)

Outfall Repairs

	Six-Year	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20
FY13-18 Latest Approved	2,628	426	426	426	426	462	462	is the second	, director, ex
FY15-20 CE Recommended	2,700		. 21 - 34 -	426	426	462	462	462	462
change from approved	72 154		行義院 (特別)	_	-	-	-		
percent change from approved	2.7%			0.0%	0.0%	0.0%	0.0%		

This project provides for the repair of existing storm drain outfalls into stream valleys. The priorities for this project are developed in coordination with DEP. In addition to planned projects (see below), DOT also receives and coordinates efforts for one or two requests per month from various sources, including DOT-DHS, DEP, WSSC, and M-NCPPC.

For FY15-20, the County Executive recommends a total of \$2.7 million. The annual level of funding is the same as approved for FY15 through FY18. The FY19 and FY20 levels continue the slightly higher levels previously approved in FY17 and FY18.

DOT provided the following list of completed and pending (funded) work in this project:

Completed in FY14

Falls Bridge Lane — Potomac Locksley Lane — Silver Spring (Sherwood Forest)

To be completed in FY14

Holman Avenue – Silver Spring 11101 Schuylkill Road – Rockville Maple Leaf Drive – Montgomery Village Maple Leaf Court – Montgomery Village

FY15 and beyond

Dilston Place — Silver Spring (WSSC)
Dartmouth Avenue — Silver Spring
Pebble Hill Lane — Gaithersburg
Hollyoak Drive — Bethesda
Twig Road — Spencerville
Southlawn Lane — Rockville

DOT also noted that additional outfall projects need further investigation and have scopes of work developed.

Storm Drain Culvert Replacement (PDF on ©17)

Storm Drain Culvert Replacement

	Six-Year	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20
FY13-18 Latest Approved	6,300	-	1,500	1,200	1,200	1,200	1,200	Part of the second	建筑等 607
FY15-20 CE Recommended	7,200		Jan Adam	1,200	1,200	1,200	1,200	1,200	1,200
change from approved	900		2000年1月2日	-	•	_	-		
percent change from approved	14.3%			0.0%	0.0%	0.0%	0.0%		

This project (approved last year as an amendment to the FY13-18 CIP) provides for the replacement of failed storm drain pipes and culverts which are less than 6 feet in roadway longitudinal length.³ The project does not make major changes to the location or size of the existing storm drain facilities.

For FY15-20, the County Executive recommends a total of \$7.2 million (\$1.2 million per year). The annual level of funding is the same as approved for FY15 through FY18. The FY19 and FY20 levels continue the FYs 15-18 approved funding levels.

A portion of the funding for this project is for an asset inventory and condition assessment, which DOT estimates will cost about \$200,000 per year over the next five years. So far, preliminary work has been done in coordination with DEP to identify existing storm drain records, and DOT is beginning to do field verification of the data.

³ Structures longer than 6 feet in longitudinal length would continue to be addressed in the Bridge Renovation Program project (No. 509753).

Storm Drain General (PDF on ©18-19)

Storm Drain General

	Six-Year	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20
FY13-18 Latest Approved	4,908	800	800	800	800	854	854		SELT DE
FY15-20 CE Recommended	5,016			800	800	854	854	854	854
change from approved	108	afficient f	2425424	-	-	•	-		
percent change from approved	2.2%			0.0%	0.0%	0.0%	0.0%		

This project includes any storm drain projects costing less than \$500,000, as well as funding to address "spot" projects that can be addressed relatively quickly throughout the year. The annual level of funding in the project has fluctuated over the past several years within a \$600,000 to \$900,000 range, depending on whether there are specific projects assumed to move forward and the availability of funds in general. Projects are prioritized based on their public safety impact (if any), cost, readiness (i.e., facility planning must be completed), potential community benefits, and order the issue was first identified (if projects are of equal merit).

For FY15-20, the County Executive recommends a total of \$5.02 million (\$800,000 per year for FYs 15-16 and \$854,000 per year for FYs 17-20). The annual level of funding is the same as approved for FY15 through FY18. The FY19 and FY20 levels continue the slightly higher levels previously approved in FY17 and FY18.

DOT provided the following information on work to be done in FY15 and FY16:

Linton-Patton: construct new storm drain system in area with few existing closed drainage system where storm event runoff in addition to discharge runoff from an existing pond causes local inundation.

Hollywood Avenue: no existing storm drain system at the local sump of the road; runoff flows through some backyards and causes localized erosion. Construct new storm drain system and connect to existing system further south of subject location.

Jamieson Drive: construction of new road and sidewalk created a small local ponding area in two backyards. Construct local inlet and connect to existing drainage system.

Blakeford Court at Falmouth Road: near-continuous groundwater discharge causes icing at the intersection. Install under-drain and new storm drain system and connect to existing system further south of subject location.

Cornish Road: groundwater discharge causes icing along the road. Install new SD system and connect to existing system further down the road.

Decatur Ave: local runoff cuts through backyards and flows over sidewalk. Install new small system to capture this runoff. Connect to existing system.

5506 Ridgefield: lack of storm drain system in the area causes large flows during storms along surface and icing at intersection. Construct new storm drain system.

Garnett Drive: groundwater discharge causes icing along the road. Install new SD system and connect to existing system further down the road.

Piney Meetinghouse: groundwater discharge causes icing along the road. Install new SD system and connect to existing system further down the road.

Over the past four full CIP cycles, the Council has appropriated this project at a level sufficient to support the first two years of the program. This level of appropriation provides flexibility to DOT to bid and award contracts for work that may fall near the end of the first year of funding. The Recommended CIP assumes to only fund the first year of expenditures (\$800,000). According to OMB staff, including only a single year appropriation for FY15 was an oversight.

Council Staff recommends increasing the FY15 appropriation to \$1.6 million to continue the practice of funding the first two years of the program.

Wapakoneta Road Improvements (PDF on ©20)

Wapakoneta Road Improvements									
	Six-Year	FY13	FY14	FY15	FY16	FY17	FY18	FY19	FY20
FY13-18 Latest Approved	1,563	255	363	945		+	•	- 484 × 5 3 0gs	*1,81,4
FY15-20 CE Recommended	915	159	459	915	-	•	-	-	-
change from approved	(648)	4 (Mark) (M)	1	(30)		~	*		
percent change from approved	-41.5%	1 44 14 1	,	-3.2%	#DIV/0!	#DIV/0!	#DIV/0!		

Note: This project was approved in May 2010 in the FY11-16 CIP. However, because land acquisition was involved, the project was approved as a road project in order to avail the County of the "quick take" process and expedite the project implementation and minimize costs. Therefore, project costs are not reflected in the overall Storm Drains CIP cost totals noted earlier.

This project provides for reconstruction of pavement and storm drain improvements along Wapakoneta Road between Namakagan Road and Walhonding Road in Glen Echo Heights. Design is scheduled to start this summer. The project schedule, scope, and cost are unchanged from the Approved CIP, with completion scheduled for the summer of 2015. G.O. bonds are the primary funding source, with some intergovernmental revenue from WSSC also assumed.

Attachments

KML:f\levchenko\conservation of nat resources cip\fy15 20 cnr cip\t&e 2 27 14 sm and sd.doc

⁴ Glen Echo Heights was the subject of a comprehensive study that was completed in August 2007. The study identified a number of roadway and safety issues, as well as stormwater conveyance deficiencies. According to DOT staff, the Glen Echo Heights study area has some of the worst drainage problems in the County. However, the potential scale and cost of the recommended improvements was substantial, and there was disagreement within the Glen Echo Heights Community as to which improvements should be pursued. In addition to roadway and storm drain improvements, the report recommended a number of Low Impact Development (LID) efforts that DEP has included for study and implementation that are being pursued with Water Quality Protection Fund resources.

Stormwater Management

PROGRAM DESCRIPTION AND OBJECTIVES

Uncontrolled stormwater runoff from developed areas leads to erosion of stream banks, siltation and widening of stream channels, and localized flooding. Urbanization often destroys stream habitat, leading to dramatic declines in the diversity of fish and other aquatic species. Urban runoff also adds to downstream pollution in the Anacostia, Patuxent, and Potomac rivers and the Chesapeake Bay. Multi-state agreements as well as State legislation and programs emphasize the importance of watershed-based programs to protect aquatic habitat and reduce pollution in the Bay and its tributaries.

The objectives of the Stormwater Management program are protection of natural waterway environments; restoration of streams previously damaged by excessive erosion, sedimentation, and impaired water quality; and prevention or remediation of property damage caused by localized flooding. The County's Stormwater Management program is watershedbased and focuses on mitigating problems caused by development that was constructed prior to implementation of stringent stormwater management controls, and on proactive planning in the developing portions of the County.

The Stormwater Management capital program addresses problems caused by prior development through facility planning studies and the development of Watershed Restoration Action Plans, and through the design and construction of stormwater retrofit projects (including low impact development) and stream restoration projects. These projects reduce pollution in streams and manage peak runoff flows to reduce stream channel habitat and sedimentation damage from watershed development and urbanized areas. This prevents flooding and reduces erosive velocities affecting stream channels. Project implementation helps fulfill requirements specified in the County's National Pollutant Discharge Elimination System (NPDES) municipal stormwater discharge permit. Stream restoration priorities are established through the Countywide Stream Protection Strategy (CSPS, February 2003).

Since FY04, the County has offered public maintenance services for qualified private stormwater facilities. All residential property and "associated non-residential" structures are eligible for County maintenance. Residential and Commercial property owners pay a Water Quality Protection Charge (WQPC) to fund the maintenance of these privately-owned structures as well as County-owned facilities. This program will improve the long-term operational effectiveness of these facilities and increase their pollution removal efficiency. Inspection and routine maintenance of these facilities are funded in the operating budget, while major structural repairs

that require extensive engineering design and permitting are funded in the CIP.

The County was issued a five-year National Pollutant Discharge Elimination System (NPDES) permit in February 2010 to develop a storm water management program to prevent harmful pollutants from being washed or dumped into the Municipal Separate Storm Sewer System (MS-4).

The Stormwater Management program which was developed by the Department of Environmental Protection (DEP) to comply with the MS-4 permit continues to set precedent and act as a model for jurisdictions throughout the State. Beginning in 2013, counties throughout Maryland were required to develop and implement a Stormwater Management program and Montgomery County has worked with the State and other counties to assist in the first stages of many County Stormwater Management implementations throughout Maryland.

The FY15-20 CIP program for Stormwater Management continues Montgomery County's commitment to treat impervious surfaces within the County to the maximum extent possible, with total six-year program expenditures increasing \$58.8 million (19.3 percent) above the amended approved FY13-18 six-year program of \$304.9 million.

The Department of Transportation (DOT) is also assisting the DEP in implementing the MS-4 Permit by: (1) constructing Storm Water Management (SWM) retrofit projects which have been developed through DEP's MS-4 planning studies; (2) providing opportunities for curb bump-outs and road narrowing where feasible to permit implementation of low-impact development (LID) SWM provisions within the right-of-way; (3) seeking DEP guidance on prioritization of storm drain outfall repairs; (4) coordinating with DEP on storm drain projects developed in the Storm Drain General and Facility Planning - Storm Drain programs to identify opportunities for enhancements which would assist in meeting the requirements of the MS-4 permit; and (5) holding quarterly meetings with DEP and DOT staff looking for additional areas of cooperation in meeting the MS-4 permit requirements.

HIGHLIGHTS

 Continue the planning and implementation of stormwater controls, public outreach, stream monitoring, and other actions needed to comply with the County's National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS-4) permit, which will significantly enhance the County's efforts to improve

- water quality in local streams and ultimately the Chesapeake Bay.
- Expand the design and construction of environmentally friendly stormwater management techniques known as environmental site design (ESD) or low impact development (LID) throughout the County, including County facilities.
- Construct new stormwater management facilities and retrofit old stormwater controls to prevent property damage, improve water quality, and protect habitat.
- Perform major structural repairs on public and private stormwater facilities accepted into the County's maintenance program.
- Continue to repair damaged stream channels and tributaries in stream valley parks and priority watersheds.
- Expand the County's efforts to prevent trash from polluting our streams and rivers.

PROGRAM CONTACTS

Contact Jim Stiles of the Department of Environmental Protection at 240.777.7789 or Matt Schaeffer of the Office of Management and Budget at 240.777.2751 for more information regarding this department's capital budget.

CAPITAL PROGRAM REVIEW

A total of eight ongoing projects are recommended for FY15-20 and described in detail in the Project Description Forms. The Recommended FY15-20 Stormwater Management Program totals \$363.7 million, an increase of \$58.8 million or 19.3 percent over the amended approved FY13-18 program of \$304.9 million. This increase will be funded primarily by long-term debt financing through the issuance of Water Quality Protection Bonds (WQPBs) secured by the Water Ouality Protection Charge (WOPC). The bonds will cover expenditures incurred for the planning, design, and construction of additional stormwater facilities needed to comply with the requirements of the County's MS-4 permit. Also included in the funding of the stormwater management projects is an assumption of \$60 million in State Aid based on the State's expressed interest in supporting stormwater management efforts in the state.

Watershed Restoration - Interagency (P809342)

Category Sub Category Administering Agency Planning Area Conservation of Natural Resources

Stormwater Management

Environmental Protection (AAGE07)

Colesville-White Oak

Date Last Modified

Required Adequate Public Facility

1/6/14 No

Relocation Impact

Status

None Ongoing

	Total	Thru FY13	Est FY14	Total 6 Years	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	Beyond 6 Yrs
			EXPENDIT	URE SCHE	DULE (\$000)s)					
Planning, Design and Supervision	3,849	2,895	54	900	310	230	90	90	90	90	0
Land	4	4	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	3,117	1,873	84	1,160	0	120	260	260	260	260	0
Other	2	2	0	0	0	0	0	0	0	0	0
Total	6,972	4,774	138	2,060	310	350	350	350	350	350	0
			FUNDIN	G SCHEDU	LE (\$000s)	·····					
G.O. Bonds	527	527	0	0	0	0	0	0	0	0	0
State Aid	506	506	0	0	0	0	0	0	0	0	0
Stormwater Management Waiver Fees	3,364	3,226	138	0	0	0	0	0	0	0	0
Water Quality Protection Bonds	2,545	485	0	2,060	310	350	350	350	350	350	0
Water Quality Protection Charge	30	30	0	0	0	0	0	0	o	0	0
Total	6,972	4,774	138	2,060	310	350	350	350	350	350	0
		OPE	RATING BU	DGET IMP	ACT (\$000s	i)					
Maintenance				105	5	10	15	20	25	30	
Net Impact				105	5	10	15	20	25	30	

APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request	FY 15	0
Appropriation Request Est.	FY 16	350
Supplemental Appropriation Regu	est	0
Transfer		0
Cumulative Appropriation		6,038
Expenditure / Encumbrances	4,826	
Unencumbered Balance	1,212	

Date First Appropriation	FY 93	
First Cost Estimate		
Current Scope	FY 15	6,972
Last FY's Cost Estimate		7,038

Description

This project provides for the design and construction of stormwater management retrofits and stream restoration projects which manage stormwater runoff, enhance aquatic habitat, and improve water quality in County streams. The projects are executed under interagency agreements with the U.S. Army Corps of Engineers (USACE). The first two agreements, which were signed in 1992 and 1997, were limited to subwatersheds within the Anacostia Watershed. In FY04, the USACE expanded project eligibility to include all County subwatersheds within the Mid-Potomac watershed. The feasibility study and the design and construction of the projects selected in Montgomery County are managed by the U.S. Army Corps of Engineers with assistance from the Maryland Department of Environmental Protection and Maryland-National Capital Park and Planning Commission.

Cost Change

Increase due to additional number of budgeted projects and the addition of FY19 and FY20 to this ongoing project adjusted for prior project delays.

Justification

This project will improve local stream water quality, protect stream conditions, and enhance wildlife and aquatic habitats in Sligo Creek, Northwest Branch, Paint Branch, and Little Paint Branch tributaries within the interjurisdictional Anacostia River Watershed. The project supports the goals of the Chesapeake Bay initiatives, the Anacostia Watershed Restoration Agreement, and addresses the County's Municipal Separate Storm Sewer System (MS4) permit as detailed in the Montgomery County Coordinated Implementation Strategy (CCIS).

Fiscal Note

This project leverages Federal Aid with the Federal government paying for 75 percent of construction costs for projects designed under the Anacostia Phase I Feasibility Study, and 65 percent of construction costs for projects designed under the subsequent agreements. Program expenditures reflect County contributions to the U.S. Army Corps of Engineers for design/construction and in-kind services. The Executive asserts that this project conforms to the requirements of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

Coordination

U.S. Army Corps of Engineers, Maryland-National Capital Park and Planning Commission, Department of Permitting Services, Department of Transporation, Maryland Department of the Environment, Facility Planning: SM (No. 809319), Maryland Department of Natural Resources.

Facility Planning: SM (P809319)

Category Sub Category Administering Agency Conservation of Natural Resources

Stormwater Management

Environmental Protection (AAGE07)

Countywide Planning Area

Date Last Modified

1/6/14

Required Adequate Public Facility

No None

Relocation Impact Ongoing

1.150

1,150

	Total	Thru FY13	Est FY14	Total 6 Years	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	Beyond 6 Yrs
			EXPENDIT	URE SCHE	DULE (\$000)s)					
Planning, Design and Supervision	17,445	8,108	937	8,400	1,150	1,250	1,350	1,450	1,550	1,650	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	. 0	0	0	0	0	0	0	0	0
Construction	0	0	, 0	0	0	0	0	0	0	0	0
Other	52	52	0	0	0	0	0	0	0.	0	0
Total	17,497	8,160	937	8,400	1,150	1,250	1,350	1,450	1,550	1,650	0
			FUNDIN	G SCHEDU	LE (\$000s)						
Current Revenue: General	5,000	5,000	0	0	0	0	0	0	0	0	0
State Aid	140	140	0	0	0	0	0	0	0	0	0
Stormwater Management Waiver Fees	797	797	0	0	0	0	0	0	0	0	О

8,400

8,400

APPROPRIATION AND EXPENDITURE DATA (000s)

937

937

Appropriation Request	F Y 15	1,150
Appropriation Request Est.	FY 16	1,250
Supplemental Appropriation Requ	0	
Transfer		0
Cumulative Appropriation		10,862
Expenditure / Encumbrances	9,154	
Unencumbered Balance	1,708	

Total

11,560

17,497

2.223

8,160

Date First Appropriation	FY 93	
First Cost Estimate		
Current Scope	FY 15	17,497
Last FY's Cost Estimate		15,312
Partial Closeout Thru		0
New Partial Closeout		0
Total Partial Closeout		0

1,250

1,250

1,350

1,350

1,450

1,450

1,550

1,550

1,650

1,650

0

0

Description

Water Quality Protection Charge

This project provides for facility planning and feasibility studies to evaluate watershed conservation needs and to identify remedial project alternatives for stormwater management, stormwater retrofit, Environmental Site Design (ESD)/Low Impact Development (LID), and stream restoration projects. Projects in facility planning may include the preparation of watershed plans assessing stream restoration, stormwater management retrofit projects, and LID and ESD projects to help mitigate degraded stream conditions in rural and developed watersheds. Water quality monitoring and analysis is required to quantify impacts of watershed development and projects implemented in Retrofit SM Government Facilities (No. 800900), SM Retrofit Roads (No. 801300), SM Retrofit Schools (No. 801301), SM Retrofit Countywide (No. 808726), and Misc Stream Valley Improvements (No. 807359). The projects generated in facility planning support the requirements in the County's Municipal Separate Storm Sewer System (MS4) Permit. Facility planning represents planning and preliminary design and develops a program of requirements in advance of full programming of a project. This project also provides for operation of automated fixed monitoring stations as required by the MS4 Permit.

Cost Change

Increase due to an increase in the number of projects budgeted related to complying with requirements of the County's MS4 permit and the addition of FY19 and FY20 to this ongoing project adjusted for prior project delays.

The Facility Planning products support the requirements outlined in the MS4 Permit as detailed in the Montgomery County Coordinated Implementation Strategy (CCIS). This project establishes the facilities planning data and alternatives analysis needed to identify and set priorities for individual capital projects. Facility planning costs for projects which are ultimately included in stand-alone Project Description Forms (PDFs) are reflected here and not in the resulting individual project. Future individual CIP projects which result from facility planning will each reflect reduced planning and design costs.

Disclosures

Expenditures will continue indefinitely.

The Executive asserts that this project conforms to the requirements of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

Maryland-National Capital Park and Planning Commission, U. S. Army Corps of Engineers, Washington Suburban Sanitary Commission, Department of Transportation, Montgomery County Public Schools, SM Retrofit Government Facilities (No. 800900), SM Retrofit Roads (No. 801300), SM Retrofit Schools (No. 801301), SM Retrofit Countywide (No. 808726), Misc. Stream Valley Improvements (No. 807359).

SM Retrofit: Countywide (P808726)

Category Sub Category Administering Agency Planning Area

Conservation of Natural Resources Stormwater Management Environmental Protection (AAGE07) Countywide

Date Last Modified 1/6/14 Required Adequate Public Facility No Relocation Impact None

Status

Ongoing Beyond 6 FY 15 Total Est FY14 6 Years FY 16 FY 17 **FY 18** FY 19 FY 20 Yrs **EXPENDITURE SCHEDULE (\$000s)** 0 Planning, Design and Supervision 79,325 2,189 10,270 66,866 10,510 9,276 10,760 11,280 12,300 12,740 n n 0 0 0 0 0 0 0 0 0 Land Site Improvements and Utilities 0 0 0 0 0 0 0 0 0 0 0 87,358 1,850 12,452 15,396 0 Construction 5,904 79.604 8.216 13,692 12,648 17.200 7 7 Other 0 0 0 0 0 0 Total 166,690 4.046 16.174 146,470 18.726 22,968 23,408 23,732 27,696 29,940 0 **FUNDING SCHEDULE (\$000s)** 299 0 299 0 0 0 0 0 Federal Aid 0 0 25,490 0 21,000 3,500 3,500 3,500 3,500 3,500 State Aid 4,490 3,500 0 Water Quality Protection Bonds 140,901 4,046 11,385 125,470 15,226 19,468 19,908 20,232 24,196 26,440 0 Total 166,690 4,046 16,174 146,470 18,726 22,968 23,408 23,732 27,696 29,940 0 **OPERATING BUDGET IMPACT (\$000s)** 18 90 0 6 12 24 30 Maintenance 90 12 18 24 30 **Net Impact** 0

APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request	FY 15	15,226
Appropriation Request Est.	FY 16	19,468
Supplemental Appropriation Requ	est	0
Transfer	0	
Cumulative Appropriation		38,625
Expenditure / Encumbrances	11,455	
Unencumbered Balance		27,170

Date First Appropriat	ion FY 87	
First Cost Estimate		
Current Scope	FY 15	166,690
Last FY's Cost Estim	ate	159,855
Partial Closeout Thru		19,239
New Partial Closeout		4,046
Total Partial Closeou	t	23,285

Description

This project provides for the design and construction of new and/or upgrades of existing underperforming stormwater management facilities and devices under the County's Municipal Separate Storm Sewer System (MS4) permit as detailed in the draft Montgomery County Coordinated Implementation Strategy (CCIS). Compliance with the MS4 permit requires controlling 20 percent of impervious surfaces, or approximately 4,300 impervious acres, not currently treated to the maximum extent practicable to address the approved Total Maximum Daily Loads (TMDLs). Inventories of candidate projects have been conducted under the Facility Planning: SM project (PDF No. 809319) for the County's ten watersheds (Paint Branch, Rock Creek, Cabin John Creek, Hawlings River, Watts Branch, Great Seneca, Muddy Branch, Sligo Creek, Little Paint Branch, and Northwest Branch). Some of the most complex projects constructed under this project are assessed, and the preliminary plans are completed in the Facility Planning; SM project (No. 809319). Where feasible, the projects integrate wetland and habitat features consistent with the goals of the Chesapeake Bay 2000 Agreement. In small drainage areas, retrofit projects may also include biofiltration, bioretention, or stormwater filtering devices.

Cost Change

Increase due to the addition of FY19 and FY20 to this ongoing project and adjustments for prior project delays. Costs have also been offset by capitalization of prior expenditures.

This project is needed to comply with the new MS4 permitting requirements outlined in the County Coordinated Implementation Strategy (CCIS) and to implement the County's adopted water quality goals (Chapter 19, Article IV) and protect habitat conditions in local streams. In addition, the project supports the goals of the Chesapeake Bay tributary strategy initiatives and the Anacostia Watershed Restoration Agreement.

Other

Projects in design and construction include projects located in the Rock Creek Watershed, Watts Branch Watershed, Great Seneca Creek Watershed, Muddy Branch Watershed, Cabin John Creek Watershed, and Anacostia River Watershed.

While the State of Maryland has indicated a desire to provide funding, all indicated State Aid is preliminary and not committed. Funding may need to be revised based on actual State Aid commitments.

Disclosures

Expenditures will continue indefinitely.

The Executive asserts that this project conforms to the requirements of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

SM Retrofit: Countywide (P808726)

Coordination

Department of Transportation, Maryland National Capital Park and Planning Commission, Department of Permitting Services, Maryland Department of the Environment, Natural Resources Conservation Service, U.S. Army Corps of Engineers, Facility Planning: SM (No. 809319), Maryland Department of Natural Resources.

Misc Stream Valley Improvements (P807359)

Category Sub Category Administering Agency Planning Area Conservation of Natural Resources

Stormwater Management

inistering Agency Environmental Protection (AAGE07)

Countywide

Date Last Modified

1/6/14 No

Required Adequate Public Facility

Relocation Impact Status None Ongoing

•					Otalus				Origoing		
	Total	Thru FY13	Est FY14	Total 6 Years	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	Beyond 6 Yrs
			EXPENDIT	URE SCHE	DULE (\$000	s)					-
Planning, Design and Supervision	16,009	844	2,606	12,559	2,379	2,160	2,210	2,010	1,900	1,900	0
Land	42	2	40	0	0	0	0	0	0	0	0
Site Improvements and Utilities	2	0	2	0	0	0	0	0	0	0	0
Construction	32,860	694	2,152	30,014	4,014	3,280	7,430	6,890	4,200	4,200	0
Other	0	0	0	0	0	0	0	0	0	0	0
Total	48,913	1,540	4,800	42,573	6,393	5,440	9,640	8,900	6,100	6,100	0
			FUNDIN	G SCHEDU	LE (\$000s)						
State Aid	9,099	845	2,254	6,000	1,000	1,000	1,000	1,000	1,000	1,000	0
Stormwater Management Waiver Fees	233	0	233	0	0	0	0	0	0	0	0
Water Quality Protection Bonds	39,581	695	2,313	36,573	5,393	4,440	8,640	7,900	5,100	5,100	0
Total	48,913	1,540	4,800	42,573	6,393	5,440	9,640	8,900	6,100	6,100	0
		OPE	RATING BU	DGET IMP	ACT (\$000s)					
Maintenance				350	10	30	40	65	95	110	
Net Impact		-		350	10	30	40	65	95	110	

APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request	FY 15	5,393
Appropriation Request Est.	FY 16	4,959
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		10,007
Expenditure / Encumbrances		3,321
Unencumbered Balance		6,686

Date First Appropriation	FY 73	
First Cost Estimate		
Current Scope	FY 15	48,913
Last FY's Cost Estimate		21,709
Partial Closeout Thru		17,368
New Partial Closeout		1,540
Total Partial Closeout		18,908

Description

This project provides for design and construction of habitat restoration or stabilization measures for stream reaches having severe channel erosion, sedimentation, and habitat degradation. Developed areas constructed without modern stormwater controls contribute uncontrolled runoff which results in severely eroded streambanks, excessive sediment, tree loss, and degraded habitat for fish and aquatic life. Stormdrain outfalls damaged from severe erosion are identified and, where possible, the outfalls are repaired as part of stream restoration projects - funded from the Outfall Repairs project (No. 509948). Stream deterioration can also adversely affect sanitary sewer crossings by exposing sewer lines and manholes, which in turn can be fish barriers and leak raw sewage into streams or allow infiltration of stream baseflow into the sewer system, potentially causing substantial increases in wastewater treatment costs.

Cost Change

Increase due to a an increase in the number of projects budgeted, site conditions, and higher individual project costs. Costs have also increased due to FY19 and FY20 being added to this ongoing project and are partially offset by capitalization of prior expenditures.

Justification

The project supports the requirements of the MS4 permit and addresses the goals of the Chesapeake Bay Tributary Strategy Initiatives, Anacostia Watershed Restoration Agreement, and the County's adopted water quality goals (Chapter 19, Article IV). The project will stabilize and improve local stream habitat conditions where streams have been damaged by inadequately controlled stormwater runoff. Corrective measures constructed or coordinated under this project include stream bank stabilization, channel modifications, habitat restoration, storm drain outfall or sanitary sewer infrastructure repairs to improve fish and other biological resources, while reducing sediment and nutrient loadings caused by excessive streambank erosion. The Facility Planning: SM project (No. 809319) includes funds for watershed studies and identifies and prioritizes stream reaches in need of restoration and protection.

Other

The Department of Environmental Protection identifies damaged sewer lines as part of this project, and the Washington Suburban Sanitary Commission makes sewer repairs during project construction. Projects planned for design and construction include Bel Pre Creek I, Donnybrook Tributary, Hollywood Branch I, Breewood, Bedfordshire and Fallsreach, Muddy Branch I, Great Seneca (GSGN 205), Grosvenor Tributary, Stonybrook Tributary, Snakeden Branch II, and Whetstone Run.

Fiscal Note

While the State of Maryland has indicated a desire to provide funding, all indicated State Aid is preliminary and not committed. Funding may need to be revised based on actual State Aid commitments.

Disclosures

Expenditures will continue indefinitely.

Misc Stream Valley Improvements (P807359)

The Executive asserts that this project conforms to the requirements of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

Coordination

Department of Transportation, Maryland-National Capital Park and Planning Commission, Washington Suburban Sanitary Commission, Department of Permitting Services, Maryland Department of the Environment, Maryland Department of Natural Resources.



SM Retrofit - Schools (P801301)

Category Sub Category Administering Agency Planning Area

Conservation of Natural Resources

Stormwater Management

Environmental Protection (AAGE07)

Countywide

Date Last Modified

1/6/14 Nο

Required Adequate Public Facility

Relocation Impact

None Ongoing

Planning Area Countywide					Status				Ongoing		
	Total	Thru FY13	Est FY14	Total 6 Years	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	Beyond 6 Yrs
			EXPENDIT	JRE SCHE	DULE (\$000	s)					
Planning, Design and Supervision	9,315	168	1,317	7,830	1,350	1,360	1,220	1,300	1,300	1,300	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	17,140	0	40	17,100	2,120	4,920	2,260	2,600	2,600	2,600	0
Other	0	0	0	0	0	0	0	0	0	0	0
Total	26,455	168	1,357	24,930	3,470	6,280	3,480	3,900	3,900	3,900	0
			FUNDIN	G SCHEDU	LE (\$000s)						
Water Quality Protection Bonds	26,455	168	1,357	24,930	3,470	6,280	3,480	3,900	3,900	3,900	o
Total	26,455	168	1,357	24,930	3,470	6,280	3,480	3,900	3,900	3,900	0
		OPE	RATING BU	DGET IMP	ACT (\$000s)					_
Maintenance				771	7	7	124	163	211	259	
Net Impact				771	7	7	124	163	211	259	

APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request	FY 15	7,161
Appropriation Reguest Est.	FY 16	3,440
Supplemental Appropriation Requ	ıest	0
Transfer	. 0	
Cumulative Appropriation		2,280
Expenditure / Encumbrances	1,048	
Unencumbered Balance		1,232

Date First Appropriation	n FY 13	
First Cost Estimate		
Current Scope	FY 15	26,455
Last FY's Cost Estimat	e	20,100
Partial Closeout Thru		0
New Partial Closeout		0
Total Partial Closeout		0

Description

This project provides for the design and construction of Environmental Site Design (ESD)/Low Impact Development (LID) stormwater management devices at Montgomery County Public Schools (MCPS) such as buildings, parking lots, and other impervious surfaces constructed prior to modern stormwater management controls. LID/ESD stormwater devices that may be implemented under this project include: Green roofs, bioretention areas, tree box inlets, porous concrete and other types of devices that promote water filtering and groundwater recharge.

Cost Change

Increase due to the addition of FY19 and FY20 to this ongoing project adjusted for prior project delays.

This project supports the requirements of the MS4 permit and addresses the goals of the Chesapeake Bay tributary strategy initiatives, and the County's adopted water quality goals (Chapter 19, Article IV). The County's MS4 permit requires that the County provide stormwater controls for 20 percent of impervious surfaces not currently treated to the maximum extent practicable, with an emphasis, where possible, on the use of LID/ESD devices. This project will be responsible for controlling stormwater on Montgomery County Public School (MCPS) properties largely through the use of LID/ESD practices needed to satisfy the permit requirements.

A portion of these potential LID/ESD stormwater retrofits located at County schools were previously programmed under the FY11-16 Approved SM Retrofit - Government Facilities project (No. 800900). This stand-alone project includes LID/ESD projects located on MCPS property and allows for a more efficient implementation of projects in partnership with MCPS.

Expenditures will continue indefinitely.

The Executive asserts that this project conforms to the requirements of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

Maryland-National Capital Park and Planning Commission, Montgomery County Public Schools, Department of Permitting Services, Maryland Department of the Environment.

SM Retrofit - Roads (P801300)

Category Sub Category Administering Agency Planning Area

Conservation of Natural Resources Stormwater Management Environmental Protection (AAGE07) Countywide

Date Last Modified Required Adequate Public Facility Relocation Impact Status

No None Ongoing

1/6/14

	Total	Thru FY13	Est FY14	Total 6 Years	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	Beyond 6 Yrs
			EXPENDIT	URE SCHE	DULE (\$000	ls)					
Planning, Design and Supervision	35,200	304	4,736	30,160	5,710	5,340	5,020	4,640	4,750	4,700	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	76,615	88	8,267	68,260	7,030	8,740	21,300	11,370	10,420	9,400	0
Other	0	0	0	0	0	0	0	0	0	0	0
Total	111,815	392	13,003	98,420	12,740	14,080	26,320	16,010	15,170	14,100	0
			FUNDIN	G SCHEDU	LE (\$000s)						
State Aid	45,195	392	13,003	31,800	5,300	5,300	5,300	5,300	5,300	5,300	0
Water Quality Protection Bonds	66,620	0	0	66,620	7,440	8,780	21,020	10,710	9,870	8,800	0
Total	111,815	392	13,003	98,420	12,740	14,080	26,320	16,010	15,170	14,100	0
OPERATING BUDGET IMPACT (\$000s)											
Maintenance				5,874	282	496	5 50	1,110	1,524	1,912	
Net Impact				5,874	282	496	550	1,110	1,524	1,912	

APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request	FY 15	7,440
Appropriation Request Est.	FY 16	19,570
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		27,925
Expenditure / Encumbrances		7,241
Unencumbered Balance		20,684

Date First Appropriation	FY 13	
First Cost Estimate		
Current Scope	FY 15	111,815
Last FY's Cost Estimate		76,425
Partial Closeout Thru		0
New Partial Closeout		0
Total Partial Closeout		0

Description

This project provides for the design and construction of Environmental Site Design (ESD)/Low Impact Development (LID) stormwater management devices along County roads constructed prior to modern stormwater management controls. ESD/LID stormwater devices include bioretention, curb extensions, porous concrete, tree box inlets and other types of devices that promote water filtering and groundwater recharge.

Cost Change

Increase due to an increase in the amount of retrofit projects beginning in FY15 and the addition of FY19 and FY20 to this ongoing project.

This project supports the requirements of the MS4 permit and addresses the goals of the Chesapeake Bay tributary strategy initiative, and the County's adopted water quality goals (Chapter 19, Article IV). The County's MS4 permit requires that the County provide stormwater controls for 20 percent of impervious surfaces not currently treated to the maximum extent practicable, with an emphasis, where possible, on the use of ESD/LID devices. This project will be responsible for controlling stormwater on County roads, largely through ESD/LID practices, as needed to satisfy the permit requirements.

A portion of these potential ESD/LID stormwater retrofits on County roads were previously programmed under the SM Retrofit - Government Facilities project (No. 800900). This new stand alone project includes all the potential ESD/LID projects for County roads and allows for a more efficient implementation of projects of similar scope in partnership with the Department of Transportation (DOT). Planned and inconstruction projects include Amherst Avenue, Breewood Neighborhood Green Street, Dennis Avenue DOT Participation, Donnybrook LID Retrofit, Franklin Knolls DOT Partnership, and Sligo Park Hills Neighborhood Green Street.

While the State of Maryland has indicated a desire to provide funding, all indicated State Aid is preliminary and unappropriated in FY15-20. Funding may need to be revised based on the actual State Aid commitments.

Expenditures will continue indefinitely.

The Executive asserts that this project conforms to the requirements of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

Coordination

Department of General Services, Department of Transportation, Maryland-National Capital Park and Planning Commission, Department of Permitting Services, Maryland Department of the Environment, United States Army Corps of Engineers, Maryland Department of Natural Resources.

SM Retrofit - Government Facilities (P800900)

Category Sub Category Administering Agency Planning Area Conservation of Natural Resources

Stormwater Management

Environmental Protection (AAGE07)

Countywide

Date Last Modified

1/6/14

Required Adequate Public Facility

No None

Relocation Impact Status

Ongoing

	Total	Thru FY13	Est FY14	Total 6 Years	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	Beyond 6 Yrs
-			EXPENDIT	URE SCHE	DULE (\$000)s)					
Planning, Design and Supervision	13,529	4,728	1,979	6,822	2,246	826	1,000	950	900	900	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	3	3	0	0	0	0	0	0	0	0	0
Construction	14,269	2,939	420	10,910	780	1,990	1,820	2,320	2,000	2,000	0
Other	18	18	0	0	0	0	0	0	0	0	0
Total	27,819	7,688	2,399	17,732	3,026	2,816	2,820	3,270	2,900	2,900	0
			FUNDIN	G SCHEDU	LE (\$000s)						
State Aid	192	192	0	0	0	0	0	0	0	0	0
Water Quality Protection Bonds	26,445	6,314	2,399	17,732	3,026	2,816	2,820	3,270	2,900	2,900	0
Water Quality Protection Charge	1,182	1,182	0	0	0	0	0	0	0	0	0
Total	27,819	7,688	2,399	17,732	3,026	2,816	2,820	3,270	2,900	2,900	0
OPERATING BUDGET IMPACT (\$000s)											
Maintenance				609	13	25	42	139	168	222]
Net Impact				609	13	25	42	139	168	222	

APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request	FY 15	3,026
Appropriation Request Est.	FY 16	2,816
Supplemental Appropriation Requ	est	0
Transfer		0
Cumulative Appropriation		12,582
Expenditure / Encumbrances		9,587
Unencumbered Balance		2,995

Date First Appropriati	on FY 09	
First Cost Estimate		
Current Scope	FY 15	27,819
Last FY's Cost Estima	ate	25,982
Partial Closeout Thru		0
New Partial Closeout	*******	0
Total Partial Closeout		0

Description

This project provides for the design and construction of Environmental Site Design (ESD)/Low Impact Development (LID) stormwater management devices at County facilities such as buildings, parking garages, and parking lots constructed prior to modern stormwater management controls. ESD/LID stormwater devices include: Green Roofs, bioretention areas, tree box inlets, porous concrete, and other types of devices that promote water filtering and groundwater recharge. Implementing new stormwater devices in developed areas built with inadequate or no stormwater control is required in the County's Municipal Separate Storm Sewer System (MS4) Permit as detailed in the Montgomery County Coordinated Implementation Strategy (CCIS). The Department of Environmental Protection (DEP) in coordination with the Department of General Services (DGS) has identified candidate CIP projects that will be implemented jointly.

Cost Change

Increase due to the addition of FY19 and FY20 adjusted for prior project delays.

Justification

This project supports the requirements of the County's MS4 permit and addresses the goals of the Chesapeake Bay tributary strategy initiatives, and the County's adopted water quality goals (Chapter 19, Article IV), which require that the County provide stormwater controls for 20 percent of impervious surfaces not currently treated to the maximum extent practicable, with an emphasis, where possible, on the use of LID/ESD devices.

Fiscal Note

No State Aid is assumed for this project in FY15 to FY20. Funding schedule may need to be revised based on actual State Aid commitments.

Disclosures

Expenditures will continue indefinitely.

The Executive asserts that this project conforms to the requirements of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

Coordination

Department of General Services, Maryland-National Capital Park and Planning Commission, Department of Permitting Services, Maryland Department of the Environment, Maryland Department of Natural Resources.

SM Facility Major Structural Repair (P800700)

Category Sub Category Administering Agency

Planning Area

Conservation of Natural Resources

Stormwater Management

Environmental Protection (AAGE07)

Countywide

Date Last Modified

1/6/14

Required Adequate Public Facility

No

Relocation Impact None Status Ongoing

!	Total	Thru FY13	Est FY14	Total 6 Years	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	Beyond 6 Yrs
*			EXPENDIT	JRE SCHE	DULE (\$000)s)					
Planning, Design and Supervision	6,750	1,586	1,179	3,985	765	615	805	670	80	1,050	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	24,985	3,223	2,677	19,085	6,765	2,925	2,195	2,330	2,920	1,950	0
Other	0	0	0	0	0	0	0	0	0	0	0
Total	31,735	4,809	3,856	23,070	7,530	3,540	3,000	3,000	3,000	3,000	0
			FUNDING	G SCHEDU	LE (\$000s)						
State Aid	1,680	0	480	1,200	200	200	200	200	200	200	0
Water Quality Protection Bonds	27,055	1,809	3,376	21,870	7,330	3,340	2,800	2,800	2,800	2,800	0
Water Quality Protection Charge	3,000	3,000	0	0	0	0	0	0	0	0	0
Total	31,735	4,809	3,856	23,070	7,530	3,540	3,000	3,000	3,000	3,000	0

APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request	FY 15	7,631
Appropriation Request Est.	FY 16	3,239
Supplemental Appropriation Reque	est	0
Transfer	0	
Cumulative Appropriation		8,930
Expenditure / Encumbrances	6,298	
Unencumbered Balance		2,632

Date First Appropriation	FY 07	
First Cost Estimate		
Current Scope	FY 15	31,735
Last FY's Cost Estimate		19,930
Partial Closeout Thru		0
New Partial Closeout		0
Total Partial Closeout		0

Description

This project provides for the design and construction of major structural repairs to County maintained stormwater management facilities. The County is responsible for structural maintenance of over 2,600 stormwater management facilities. The project includes old facilities that require more extensive maintenance as ponds fill with sediment, pipes rust, concrete structures crack and deteriorate, and dam embankments develop leaks. Some of the existing stormwater facilities require extensive engineering analysis and design and may require retrofitting which is funded through the SM Retrofit: Countywide project (No. 808726).

Cost Change

Increase in FY15 is primarily due to the need to hydraulically dredge two large lakes (Lake Whetstone and Gunners Lake), the addition of the FY19 and FY20 to this ongoing project, and adjustments for prior project delays.

This project provides for major structural repairs in order to comply with the County's MS4 permit. It is limited to funding repairs at facilities that require extensive engineering design and permitting that cannot be accomplished within a single fiscal year due to the time required to obtain State and Federal permits.

Projects include: Quince Orchard Manor (Quince Orchard Valley Neighborhood Park), Lake Whetstone, Chadswood, Hunters Woods, B'nai Israel, Brandermill, Gunners Lake, Colony Pond, and Persimmon Tree.

Fiscal Note

Indicated State Aid is preliminary and unappropriated. Funding may need to be revised based on actual State Aid commitments.

Disclosures

Expenditures will continue indefinitely.

The Executive asserts that this project conforms to the requirements of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

Coordination

Department of Transportation, Maryland-National Capital Park and Planning Commission, Department of Permitting Services, Homeowners Associations, Montgomery County Public Schools, Department of General Services, Maryland State Highway Administration, SM Retrofit: Countywide (No. 808726), Maryland Department of Natural Resources.

Storm Drains

PROGRAM DESCRIPTION AND OBJECTIVES

The Department of Transportation (DOT) involvement in the County Conservation of Natural Resources program is mandated by Section 2-58A (c) of the County Code which requires DOT to be responsible for control, supervision, design, construction, and maintenance of all culverts and storm drainage systems under the jurisdiction of the County.

The DOT Storm Drains Capital Program consists of the construction of storm drainage structures such as curbs, gutters, drainage inlets, pipes (which provide for stream enclosure), and paved channels. Such networks are constructed to provide for the conveyance of stormwater from impervious surfaces into natural drainage swales and stream channels. This program is focused on storm drainage projects outside the scope of the larger DOT Roads program, which also installs storm drainage systems at the time of new road construction or existing road reconstruction or enhancement.

A second component of the storm drainage program involves County-developer and homeowner participation in the construction of storm drainage facilities. Construction of storm drainage facilities provides a public and environmental benefit by reducing drainage problems, flooding, property damage, and contributing to the orderly development of the County. In participation projects, the County and the developer or the homeowner agree to share the costs of storm drainage facilities in which the benefit of storm drainage extends beyond the developer's or homeowner's own property. The County pays only for that portion of the project which benefits properties other than the developer's or homeowner's, not to exceed 50 percent of the total cost. Homeowners can satisfy their portion of the cost-share through in-kind contributions.

STORMWATER MANAGEMENT COORDINATION

In February 2010, the Maryland Department of the Environment issued the County a five year National Pollutant Discharge Elimination System (NPDES) Permit. This permit requires that the County develop and implement a storm water management program to prevent harmful pollutants from being washed or dumped into the Municipal Separate Storm Sewer Systems (MS4). The DOT is assisting the Department of Environmental Protection (DEP) in implementing the MS4 Permit by 1) constructing Storm Water Management (SWM) retrofit programs which have been developed through DEP's MS4 planning studies, 2) providing opportunities for curb bump-outs and road narrowing where feasible to permit implementation of Low-Impact Development (LID) SWM provisions within the right-of-way, 3) seeking DEP guidance on prioritization of storm

drain outfall repairs, 4) coordinating with DEP on storm drain projects developed in the Storm Drain General and Facility Planning Storm Drain programs to identify opportunities for enhancements which would assist in meeting the requirements of the MS4 permit, and 5) establishing quarterly meetings with DEP and DOT staff looking for additional areas of cooperation in meeting the MS4 permit requirements.

In recognition of the Stormwater Management value of the Storm Drains projects, the Storm Drains are funded through Water Quality Protection Bonds or the Water Quality Protection Charge.

PROGRAM CONTACTS

Contact Holger Serrano of the Department of Transportation at 240.777.7235 or Brady Goldsmith of the Office of Management and Budget at 240.777.2793 for more information regarding this department's capital budget.

CAPITAL PROGRAM REVIEW

The Storm Drainage program for FY15-20 includes four ongoing projects. The overall cost of the recommended six-year program is \$16.6 million, representing a \$0.9 million or 5.1 percent decrease from the FY13-18 Amended Program of \$17.5 million. This decrease is primarily due to the completion of the Maple Avenue Storm Drain and Roadway Improvements and Town of Chevy Chase Storm Drain Improvements projects.

Outfall Repairs (P509948)

Category Sub Category Administering Agency Planning Area Conservation of Natural Resources

Storm Drains

Transportation (AAGE30)

Countywide

Date Last Modified

...

Required Adequate Public Facility

Relocation Impact

Status

None Ongoing

12/23/13

No

	Total	Thru FY13	Est FY14	Total 6 Years	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	Beyond 6 Yrs
			EXPENDIT	JRE SCHE	OULE (\$000)s)					
Planning, Design and Supervision	3,141	1,087	506	1,548	234	234	270	270	270	270	0
Land	10	10	. 0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	4,903	3,351	400	1,152	192	192	192	192	192	192	0
Other	3	3	0	0	0	0	0	0	0	0	0
Total	8,057	4,451	906	2,700	426	426	462	462	462	462	0
			FUNDIN	G SCHEDU	LE (\$000s)						
G.O. Bonds	5,357	4,451	906	0	0	0	0	o	o	0	0
Water Quality Protection Bonds	1,848	0	0	1,848	0	o	462	462	462	462	0
Water Quality Protection Charge	852	0	0	852	426	426	0	0	o	0	0
Total	8,057	4,451	906	2,700	426	426	462	462	462	462	0

APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request	FY 15	426
Appropriation Request Est.	FY 16	426
Supplemental Appropriation Requ	0	
Transfer	0	
Cumulative Appropriation		5,357
Expenditure / Encumbrances	4,724	
Unencumbered Balance	633	

Date First Appropriation	FY 99	
First Cost Estimate		
Current Scope	FY 15	8,057
Last FY's Cost Estimate		7,133
Partial Closeout Thru		0
New Partial Closeout		0
Total Partial Closeout		0

Description

This project provides for the repair of existing storm drain outfalls into stream valleys. Design of corrective measures is included when inkind replacement of original outfall structures is not feasible. Candidate outfall repairs are selected from citizen and public agency requests. The Department of Environmental Protection's (DEP) Miscellaneous Stream Valley Improvements project generates and assists in rating the outfalls, which are identified as that project expands into additional watersheds.

Cost Change

Increase due to the addition of FY19-20 to this on-going level of effort project

Justification

Collapsed storm drain pipe sections, undermined endwalls, and eroded outfall channels create hazardous conditions throughout the County. The course of drainage could be altered endangering private property or public roads and speeding the erosion of stream channels. Erosion from damaged outfalls results in heavy sediment load being carried downstream that can severely impact aquatic ecosystems and exacerbate existing downstream channel erosion. As part of its watershed restoration inventories, DEP identifies storm drain outfalls that are in need of repair in County stream valleys and respective watersheds. As this program expands to include additional watersheds, each outfall is categorized and, where damaged, rated. A functional rating and evaluation process is used to prioritize each outfall.

Other

The number of outfall locations being repaired per year varies based on the severity of the erosion and damage, the complexity of the design, and the complexity of the needed restorative construction work. Completed outfalls in FY12-13: Emory Grove Road, Bluehaven Court, Circle Drive at Spring Drive, Prathertown Road, Marseille Drive, Wayne Avenue at Sligo Creek Parkway. Scheduled for repairs (FY14 - beyond): 11101 Schuykill Road, 10668 Maple Leaf Drive, 20232 Maple Leaf Court, 1301 Dilston Place, 9112 Falls Bridge Lane.

Fiscal Note

Funding source changed from General Obligation Bonds to Water Quality Protection Charge (FY15 and FY16) and Water Quality Protection Bonds (FY17-20).

Disclosures

A pedestrian impact analysis has been completed for this project.

Expenditures will continue indefinitely.

Coordination

Department of Environmental Protection, Maryland-National Capital Park and Planning Commission, Maryland Department of the Environment, United States Army Corps of Engineers, Montgomery County Department of Permitting Services, Utility Companies, Miscellaneous Stream Valley Improvements

Facility Planning: Storm Drains (P508180)

Category Sub Category Administering Agency Planning Area Conservation of Natural Resources

Storm Drains

Transportation (AAGE30)

Countywide

Date Last Modified

Status

12/23/13 No

Required Adequate Public Facility

Relocation Impact

None Ongoing

	Total	Thru FY13	Est FY14	Total 6 Years	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	Beyond 6 Yrs
			EXPENDIT	URE SCHE	DULE (\$000)s)					
Planning, Design and Supervision	6,181	4,244	277	1,660	250	250	290	290	290	290	0
Land	142	142	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	37	37	0	0	0	0	0	0	0	0	0
Other	4	4	0	0	0	0	0	0	0	0	0
Total	6,364	4,427	277	1,660	250	250	290	290	290	290	0
			FUNDIN	G SCHEDU	LE (\$000s)						
Current Revenue: General	4,103	4,103	0	0	0	0	0	0	0	0	0
G.O. Bonds	101	101	0	0	0	0	0	0	0	0	0
Water Quality Protection Charge	2,160	223	2 7 7	1,660	250	250	290	290	290	290	0
Total		4,427	277	1,660		250	290	290	290	290	0

APPROPRIATION AND EXPENDITURE DATA (000s)

FY 15	250				
FY 16	250				
Appropriation Request Est. FY 16 Supplemental Appropriation Request					
Transfer					
	4,704				
Cumulative Appropriation Expenditure / Encumbrances					
	261				
	FY 16				

Data Circl Appropriation	EV 04	
Date First Appropriation	FIGI	
First Cost Estimate		
Current Scope	FY 15	6,364
Last FY's Cost Estimate		5,784
Partial Closeout Thru		0
New Partial Closeout		0
Total Partial Closeout		0

Description

This project provides for the investigation and analysis of various storm drainage assistance requests initiated by private citizens and public agencies. These requests are related to the design, construction, and operation of public drainage facilities where flooding and erosion occur. This project includes expenditures for the preliminary and final design and land acquisition for storm drain projects prior to inclusion in the Storm Drain General project, or as a stand-alone project in the CIP. Prior to its inclusion in the CIP, the Department of Transportation (DOT) will conduct a feasibility study to determine the general and specific features required for the project. Candidate projects currently are evaluated from the Drainage Assistance Request list. As part of the facility planning process, DOT considers citizen and public agency requests and undertakes a comprehensive analysis of storm drainage issues and problems being experienced in the County. This analysis is used to select areas where a comprehensive long-term plan for the remediation of a problem may be required. No construction activities are performed in this project. When a design is 35 percent complete, an evaluation is performed to determine if right-of-way is needed. Based on the need for right-of-way, the project may proceed to final design and the preparation of right-of-way plats under this project. The cost of right-of-way acquisition will be charged to the Advanced Land Acquisition Revolving Fund (ALARF). When designs are complete, projects with a construction cost under \$500,000 will be constructed in the Storm Drain General project. Projects with a construction cost over \$500,000 will be constructed in stand-alone projects.

Capacity

Projects will be designed to accommodate the ten year storm frequency interval.

Cost Change

Increase due to the addition of FY19 and FY 20 to this on-going level of effort project

Justification

Evaluation, justification, and cost-benefit analysis are completed by DOT as necessary. In the case of participation projects, drainage studies and preliminary plans will be prepared by the requestor's engineer and reviewed by DOT. A review of impacts to pedestrians, bicyclists, and ADA (Americans with Disabilities Act of 1991) is being performed and addressed for each subproject in this project. Traffic signals, streetlights, crosswalks, bus stops, ADA ramps, bikeways and other pertinent issues are being considered in the design of the project to ensure pedestrian safety.

Other

Before being added as a sub-project, concept studies are evaluated based on the following factors: public safety, damage to private property, frequency of event, damage to public right-of-way, environmental factors such as erosion, general public benefit, availability of right-of-way and 5:1 cost benefit ratio. In the case of public safety or severe damage to private property, the 5:1 cost benefit damage prevented ratio can be waived. Drainage assistance requests are evaluated on a continuing basis in response to public requests. DOT maintains a database of complaints. Construction projects completed: Meadowood Dr, Chicago Ave, Dalton Rd-Westport Rd, Old Chester Rd, Easley St-Houston St, Whites Ferry Rd. Candidate Projects for FY15-16: Linton St-Patton St, Hollywood Ave.

Disclosures

A pedestrian impact analysis has been completed for this project.

Facility Planning: Storm Drains (P508180)

Expenditures will continue indefinitely.

Coordination

Montgomery County Department of Environmental Protection, Maryland-National Capital Park and Planning Commission, Maryland Department of the Environment, United States Army Corps of Engineers, Montgomery County Department of Permitting Services, Utility Companies, Annual Sidewalk Program (CIP No. 506747)

Storm Drain Culvert Replacement (P501470)

Category Sub Category Administering Agency Planning Area

Conservation of Natural Resources

Storm Drains

Transportation (AAGE30)

Countywide

Date Last Modified Relocation Impact

12/23/13

No

Required Adequate Public Facility

None

Status

Ongoing

	Total	Thru FY13	Est FY14	Total 6 Years	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	Beyond 6
			EXPENDIT	URE SCHE	DULE (\$000)s)					
Planning, Design and Supervision	1,305	0	225	1,080	180	180	180	180	180	180	C
Land	0	0	0	0	0	0	0	0	0	0	C
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	C
Construction	7,395	0	1,275	6,120	1,020	1,020	1,020	1,020	1,020	1,020	C
Other	0	0	0	0	0	0	0	0	0	0	C
Tota	8,700	0	1,500	7,200	1,200	1,200	1,200	1,200	1,200	1,200	C
			FUNDIN	G SCHEDU	LE (\$000s)						
G.O. Bonds	1,500	0	1,500	0	0	0	0	0	0	0	(
Water Quality Protection Bonds	4,800	0	0	4,800	0	0	1,200	1,200	1,200	1,200	1
Water Quality Protection Charge	2,400	0	0	2,400	1,200	1,200	0	0	0	0	
Tota		0	1,500	7,200		1,200	1,200	1,200	1,200	1,200	1

APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request	FY 15	1,200
Appropriation Request Est.	FY 16	1,200
Supplemental Appropriation Reque	est	0
Transfer		0
Cumulative Appropriation		1,500
Expenditure / Encumbrances	0	
Unencumbered Balance		1,500

Date First Appropriation	FY 14	
First Cost Estimate		
Current Scope	FY 15	8,700
Last FY's Cost Estimate		0
Partial Closeout Thru		0
New Partial Closeout		0
Total Partial Closeout		0

Description

This program will provide for the replacement of failed storm drain pipes and culverts. The County's storm drain infrastructure is aging and many of the metal pipe culverts installed from 1960 through the 1990's have reached the end of their service life. Currently no asset inventory with condition assessment exists; therefore no funding is programmed for systematic replacement of these pipes and culverts. This program will provide for emergency culvert replacement and provide for funding to assist in the development of an asset inventory program to better forecast future replacement needs. This program includes; storm water pipe and culvert replacement of both metal and concrete less than six (6) feet in roadway longitudinal length (structures greater than six feet roadway longitudinal length are repaired under the Bridge Renovation Program, CIP#509753), headwalls, end sections, replacement, or extension of culverts to assure positive flow of storm water and channeling of storm water into existing ditch lines or structures. Repairs also include roadside pipe and culvert end treatment safety improvements to eliminate safety hazards. This project will not make major changes to the location or size of existing storm drainage structures.

Cost Change

Increase due to addition of FY19 and FY12 to this ongoing level of effort project.

Justification

This program will address emergency pipe replacements of aging metal and concrete pipes that have reached the end of their service life. The result of these pipe failures has been deep depressions, sinkholes, sediment build up, open pipe joints and metal pipe inverts to an unacceptable levels. Existing storm drain conditions are extremely poor. Repairs are need to improve safety and reduce the potential for hazards and associated public inconvenience. Failure of a storm drain pipe will precipitate emergency repairs at much higher prices. Further, this program will provide some funding towards the development of an asset inventory of the storm drain system including pipe and culvert conditions for future funding forecasting.

Funding source changed from General Obligation Bonds to Water Quality Protection Charge (FY15 and FY16) and Water Quality Protection Bonds (FY17-20).

Disclosures

Expenditures will continue indefinitely.

Washington Suburban Sanitary Commission, Washington Gas Company, Department of Permitting Services, Pepco, Cable TV, Verizon, Montgomery County Public Schools, Regional Service Centers, Community Associations, Commission on People With Disabilities, Maryland Department of Environment, Montgomery County Department of Environmental Protection, Army Corps of Engineers

Storm Drain General (P500320)

Category Sub Category Administering Agency Planning Area

Conservation of Natural Resources

Storm Drains

Transportation (AAGE30)

Countywide

Date Last Modified

1/6/14

Required Adequate Public Facility

No None

Relocation Impact

Ongoing

Planning Area Countywide						Status	•			Ongoing		
		Total	Thru FY13	Est FY14	Total 6 Years	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	Beyond 6 Yrs
				EXPENDIT	URE SCHE	DULE (\$000)s)					
Planning, Design and Supervision		3,542	1,219	7	2,316	350	350	404	404	404	404	0
Land		63	63	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities		0	0	0	0	0	0	0	0	0	0	0
Construction		10,969	8,188	81	2,700	450	450	450	450	450	450	0
Other		1	1	0	0	0	0	0	0	0	0	0
	Total	14,575	9,471	88	5,016	800	800	854	854	854	854	0
				FUNDIN	G SCHEDU	LE (\$000s)						
G.O. Bonds		9,169	9,086	83	0	0	0	0	0	0	0	0
Intergovernmental		228	223	5	0	0	0	0	0	0	0	0
State Aid		162	162	0	0	0	0	0	0	0	0	0
Water Quality Protection Bonds		3,416	0	0	3,416	0	0	854	854	854	854	0
Water Quality Protection Charge		1,600	0	0	1,600	800	800	0	0	0	0	0
	Total	14,575	9,471	88	5.016	800	800	854	854	854	854	0

APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request	FY 15	800
Appropriation Request Est.	FY 16	800
Supplemental Appropriation Requ	est	. 0
Transfer		0
Cumulative Appropriation		9,559
Expenditure / Encumbrances		9,492
Unencumbered Balance		67

Date First Appropriation	FY 03	
First Cost Estimate		
Current Scope	FY 15	14,575
Last FY's Cost Estimate		12,867
Partial Closeout Thru		0
New Partial Closeout		0
Total Partial Closeout		. 0

Description

This project provides the flexibility to construct various sub-projects that might otherwise be delayed for lack of funds or difficulty in acquiring right-of-way. This project provides for right-of-way acquisition and construction for storm drain projects resulting from the Drainage Assistance Request program. Individual projects range from retrofitting existing storm drainage systems to developing new drainage systems required to upgrade the existing systems in older subdivisions. Projects formerly handled through the Neighborhood Storm Drain Improvements project are usually small, unanticipated projects initiated by requests from citizens whose homes and properties are subject to severe flooding or erosion and where there is a demonstrated need for early relief. Potential new storm drain projects are studied under the Facility Planning; Storm Drain project. Concept studies are evaluated based on the following factors: public safety, damage to private property and frequency of event, damage to public right-of-way, environmental factors such as erosion, general public benefit, availability of right-of-way and 5:1 cost benefit damage prevented ratio. After the completion of facility planning, projects with construction estimated to cost less than \$500,000 are included in this project. Prompt relief is frequently achieved by the use of Department of Transportation (DOT) personnel to construct and provide construction management. The project also facilitates financial participation with developers up to 50 percent share of construction cost for storm drainage projects where such construction would yield a public benefit to properties other than that of homeowner or developers. Right-of-way is acquired under the Advanced Land Acquisition Revolving Fund (ALARF).

Capacity

Projects will be designed to accommodate the ten year storm frequency interval.

Cost Change

Increase due to the addition of FY19-20 to this on-going level of effort project

For participation projects, cost sharing between the County and either homeowners or developers varies and is based upon a signed letter of understanding. Some funds from this project will go to support the Renew Montgomery program. Completed Projects in FY 12 and FY 13: Meadowood Dr, Chicago Ave, Old Chester Rd, Easely St-Houston St, Accord Ct, Brickyard Rd, Whites Ferry Rd, Woodrow Pl, Tournay Rd, Falstone Ave, McArthur Blvd, Hurst St, Newport Mill Rd, Maryland Ave, Clarksburg Rd-Barnes Rd, Lilly Stone Dr, Leighton Ave-Worth Ave, Rowen Rd, Stoneybrook Dr, Mcneil Ln, Harrington Dr, Hempstead Rd, Overbrook Rd, Dalton Rd-Westport Rd, Merivale Rd Potential future projects: Linton St-Houston St, Hollywood Ave

Funding source changed from General Obligation Bonds to Water Quality Protection Charge (FY15 and FY16) and Water Quality Protection Bonds (FY17-20).

Disclosures

A pedestrian impact analysis will be performed during design or is in progress.



Storm Drain General (P500320)

Expenditures will continue indefinitely.

The Executive asserts that this project conforms to the requirements of relevant local plans, as required by the Maryland Economic Growth, Resource Protection and Planning Act.

Coordination

Montgomery County Department of Environmental Protection, Maryland-National Capital Park & Planning Commission, Maryland Department of the Environment, United States Army Corps of Engineers, Montgomery County Department of Permitting Services, Utility Companies, Annual Sidewalk Program

Wapakoneta Road Improvements (P501101)

Category Sub Category Administering Agency Planning Area

Transportation Roads

Transportation (AAGE30) Bethesda-Chevy Chase

Date Last Modified Relocation Impact

Required Adequate Public Facility

1/6/14 No None

Status

Preliminary Design Stage

•	Total	Thru FY13	Est FY14	Total 6 Years	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	Beyond 6 Yrs
, , , , , , , , , , , , , , , , , , , ,	EXPENDITURE SCHEDULE (\$000s)									,	
Planning, Design and Supervision	528	158	243	127	127	0	0	0	0	0	0
Land	217	1	216	0	0	0	0	0	0	0	0
Site Improvements and Utilities	10	0	0	10	10	0	0	0	0	0	0
Construction	808	0	0	808	808	0	0	0	0	0	0
Other	0	0	0	0	0	0	0	0	0	0	0
Total	1,563	159	459	945	945	0	0	0	0	0	0
FUNDING SCHEDULE (\$000s)											
G.O. Bonds	1,533	159	459	915	915	0	0	0	0	0	0
Intergovernmental	30		0	30	30	0	0	0	0	0	0
Total	1,563	159	459	945	945	0	0	0	0	0	0
OPERATING BUDGET IMPACT (\$000s)											
Maintenance				5	0	1	1	1	1	1	
Net Impact				5	0	1	1	1	1	1	

APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request	FY 15	0
Appropriation Request Est.	FY 16	0
Supplemental Appropriation Reques	it	0
Transfer		0
Cumulative Appropriation		1,563
Expenditure / Encumbrances		239
Unencumbered Balance		1,324

Date First Appropriation	FY 13	_
First Cost Estimate		
Current Scope	FY 13	1,563
Last FY's Cost Estimate		1,563

Description

This project provides for reconstruction of full-depth pavement and construction of storm drain improvements along Wapakoneta Road from Namakagan Road to Walhonding Road (approximate length of 900 linear feet). The specific improvements will include reconstruction and resurfacing of the roadway, curb and gutters within a 24-foot roadway section, storm drain system (inlets and drain pipes), and bio-retention facilities. Storm drain improvements will extend beyond properties along Wapakoneta Road. Wapakoneta Road south of Namakagan Road has curb and gutters, a storm drain system, and a reconstructed pavement.

Estimated Schedule

Design completed in Fall 2013. Property acquisition started in Spring 2013 and will conclude by Spring 2014. Construction is expected to start by Winter 2015 and will be completed by Summer 2015.

A number of the properties experience severe flooding of their dwellings during rain storms and the lack of a drainage system or roadside ditches also causes erosion of shoulders and inundation of the roadway in this older community. The residents of this segment of Wapakoneta Road have submitted a petition requesting installation of curb and gutters, storm drain improvements, and reconstruction of the road. This project is to alleviate erosion of road shoulders and inundation of the roadways and private properties along the west side of the street. The installation of the proposed storm drain improvements will be followed by the reconstruction/resurfacing of the pavement section. The project would benefit all residences in this part of Wapakoneta Road by reducing flooding. A review of impacts of pedestrians, bicycles and ADA (Americans with Disabilities Act of 1991) is being performed and addressed by this project. Traffic signals, streetlights, crosswalks, bus stops, ADA ramps, bikeways, and other pertinent issues are being considered in the design of the project to ensure pedestrian safety.

Intergovernmental represents the Washington Suburban Sanitary Commission's share of utility relocation costs.

Disclosures

A pedestrian impact analysis has been completed for this project.

Coordination

Maryland-National Capital Park and Planning Commission, Department of Transportation, Department of Permitting Services, Washington Suburban Sanitary Commission, Washington Gas, Pepco, Verizon

Montgomery County Department of Transportation

Division of Transportation Engineering



DRAINAGE PROGRAMS

The Montgomery County Department of Transportation (MC-DOT) has two assistance programs pertaining to drainage issues associated with surface runoff from roads and other property owned and maintained by Montgomery County. One is for maintenance of existing storm drain systems and the other is for addressing communities' requests for drainage improvements.

DRAINAGE SYSTEM MAINTENANCE REQUEST

For drainage concerns on existing storm drain systems where maintenance is needed, such as clearing of debris from inlets, storm drain pipes, and/or drainage channels, re-establishment of drainage channels which may have eroded or silted up over time, water ponding on roads (puddles, potholes), or reconstruction of roadside curbs, please contact Montgomery County's Main Line at 3-1-1 (from outside Montgomery County dial 240-777-0311). e-mail address: mailto:Mcdot.Highway@MontgomerycountyMD.gov

DRAINAGE ASSISTANCE REQUEST (DAR) PROGRAM

The Division of Transportation Engineering (DTE) administers and manages the County's Drainage Assistance Request Program. The purpose and goal of this program is to solve drainage problems where there is no storm drain system or the existing system is failing or is inadequate. Through this program, the Design Section receives and addresses requests for assistance to correct drainage problems where the runoff water originates from the public Right-of-Way.

PROCEDURE FOR REQUESTING DRAINAGE ASSISTANCE

A request for assistance can be initiated by completing the Drainage Request Form (click below) a telephone call, e-mail, FAX or letter to the Design Section of the Division of Transportation Engineering (DTE). A County staff knowledgeable in surface runoff issues will review the request in a timely manner. After the review has been completed, you will receive an explanation of the review findings and proposed action.

e-mail address: mailto:michael.mitchell@montgomerycountymd.gov

Phone Number: 240-777-7262

Online Application:



Drainage Assistance Request Form

OTHER WATER RUNOFF RELATED REFERRALS

- Nuisance Drainage Problems such as neighbor's fence blocking yard ditch, house gutter spouts drain on neighbor yard, minor ponding in yard, swimming pool discharges on land Montgomery County Department of Housing and Community Affairs--Code Enforcement Division- 240-777-3785
- Flooding and drainage from State Roads
 State Highway Administration (District 3) 301-513-7300
- Permit for construction on County Right-of-Way (such as driveway culverts), waterway construction permits, sediment control/storm water management
 Montgomery County Department of Permitting Services--Land Development Division- 240-777-6259
- Stream erosion on private land, stream valley improvements, swimming pool discharges in waterways, private pools and hot tubs, storm water management ponds, watershed management, water quality/pollution, fish kills
 Montgomery County Department of Environmental Protection—Division of Environmental Policy & Compliance 240-777-7770
- Stream erosion on park land Maryland-National Capital Park & Planning Commission—Parks Department- 301-495-2500
- Drainage issues within City of Rockville City of Rockville DPWT - 240-314-8567
- Drainage issues within City of Gaithersburg City of Gaithersburg DPWT- 301-258-6370
- Broken water main or sanitary sewer problems
 Washington Suburban Sanitary Commission- 301-206-4002

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FY2015 Permit Cycle

i		Total Potential	Total Restoration	% Implementation in	Impervious Treated	ESD (%	Cost (Million	1				ı	1
Watershed	Strategies	Cost	Potential (acres)	Permit Cycle	(acres)	Impervious)	\$}	ESD (% Cost)	Nitrogen	Phosphorus	Sediment	Bacteria	Trash
L	Completed and High Priority Projects	\$15.8	315	100.0%	315	9%	\$16	30%	5.8%	5.9%	1.9%	6.2%	5.5%
L	Low Priority Projects	\$5.1	194	100.0%	194	8%	\$5	61%	2.0%	2.1%	0.7%	2.2%	2.7%
	Other Potential Projects	\$249.2	2,217	33.0%	732	20%	\$82	24%	7.7%	8.0%	2.6%	8.4%	10.09
	Public ESD Retrofits	\$237.8	956	10,0%	96	100%	\$24	100%	1.1%	1.1%	0.4%	1.2%	1.4%
Anacostia	Private ESD Retrofits	\$213.0	857	10.0%	86	100%	\$21	100%	1.0%	1.0%	0.3%	1.0%	1,39
L	Riparian Reforestation	\$1.4	6	0.0%	-	0%	\$0	0%	0.0%	0.0%	0.0%	0.0%	0.09
L	Stream Restoration	\$93.7		11.7%	-	0%	\$11	0%	5.0%	6.6%	38.1%	0.0%	0.09
L	Programmatic Practices	\$3.6	-	25.0%	-	0%	\$0.9	0%	2.2%	2.1%	2.6%	2.0%	20,4
	Subtotal	\$819.6	4,544	31.3%	1,421	26.3%	\$160	45.4%	24.8%	26.8%	46.6%	21.0%	41.3
	Completed and High Priority Projects	\$13.3	585	100.0%	585	1%	\$13	13%	4.0%	5.0%	6.0%	5.5%	6.09
	Low Priority Projects	\$8.8	665	100.0%	665	1%	\$9	7%	3.9%	3,9%	6.2%	4.9%	7.05
	Other Potential Projects	\$2.0	193	25.0%	48	0%	\$1	0%	0.3%	0,3%	0.4%	0.4%	0.5
	Public ESD Retrofits	\$247.1	1,020	10.0%	102	100%	\$25	100%	1.3%	1.3%	1.4%	1.3%	1.59
Rock Creek	Private ESD Retrofits	\$341.2	1,407	10.0%	141	100%	\$34	100%	1.7%	1.7%	1.9%	1.8%	2.09
Г	Riparian Reforestation	\$23.8	119	0.0%	-	0%	\$0	0%	0.0%	0.0%	0.0%	0.0%	0.05
ſ	Stream Restoration	\$20.1		21.8%	-	0%	\$4	0%	2.0%	1.5%	21.9%	0.0%	0.0
Γ	Programmatic Practices	\$1.2	-	100,0%	-	0%	\$1	0%	11.0%	11.0%	0.0%	7.5%	0.0
	Subtota)	\$657.6	3,989	38.6%	1,541	16.5%	\$87	70.4%	24.1%	24.7%	37.8%	21.4%	17.0
	Completed and High Priority Projects	\$1.6	88	100.0%	88		\$2	19%	2.9%	3.0%	3.3%	3.2%	2.5
	Low Priority Projects	\$1.6	10	100.0%	10		\$2	98%	0.2%	0.2%	0.2%	0.2%	0.3
F	Other Potential Projects	\$0.1	5	25.0%	1	0%	\$0	0%	0.0%	0.0%	0.0%	0.0%	0.0
<u>-</u>	Public ESD Retrofits	\$87.8	403	10.0%	40		\$9	100%	1.0%	1.0%	1.1%	1.1%	1.3
Cabin John	Private ESD Retrofits	\$103.1	473	10.0%	47	100%	\$10	100%	1,2%	1.2%	1.3%	1.3%	1.5
	Riparian Reforestation	\$7.8	39	0.0%		0%	\$0	0%	0.0%	0.0%	0.0%	0.0%	0.0
	Stream Restoration	\$16.2		0.0%	-	0%	\$0	0%	0.0%	0.0%	0.0%	0.0%	0.0
j-	Programmatic Practices	\$0.5		100.0%		0%	\$0	0%	15.3%	14.4%	0.0%	9.9%	0.0
-	Subtotal	\$218.7	1,018	18.4%	187	52.0%	\$23	92.0%	20.7%	19.9%	6.0%	15.7%	5.6
	Completed and High Priority Projects	\$4.4	211	100.0%	211	1%	54	8%	6.0%	6.0%	6.0%	0.0%	6.0
-	Law Priority Projects	\$2.0	211	100.0%	26	33%	\$2	84%	0.2%	0.3%	1.2%	0.0%	0.2
<u> </u>	Other Potential Projects	\$0.0	- 20	0.0%	1	0%	\$0	0	0.0%	0.0%	0.0%	0.0%	0.0
-	Public ESD Retrofits	\$0.0		0.0%	 	100%	\$0	100%	0.076	0.0%	0,0%	0.028	1 0.0
	Private ESD Retrofits										<u> </u>	<u> </u>	+
Muddy Watts		\$0.0 \$0.0		0.0%	 	100%	\$0	100%	<u>·</u>		<u> </u>	<u> </u>	-
<u> </u>	Riparian Reforestation			0.0%	ļ	0%	\$0	0%		0.0%			0.0
į.	Stream Restoration	\$24.2	-	0.0%	<u> </u>	0%	\$0	0%	0.0%	0.0%	0.0%	0.0%	0.0
 	Programmatic Practices Subtotal	\$0.0	-	100,0%		0%	\$0	0%					+
		\$30.6	237	100.0%	237	4,3%	\$6	31.6%	6.2%	6.3%	7.2%	0.0%	6.2
-	Completed and High Priority Projects	\$18.9	800	190.0%	800	1%	\$19	6%	20.0%	20.0%	21.0%	0.0%	26,
L	Low Priority Projects	\$6.6	87	100.0%	87	15%	\$7	41%	3.7%	3.7%	4.3%	0.0%	4.3
ļ	Other Potential Projects	\$0.2	53	25.0%	13	0%	\$0	0%	0.6%	0.6%	0,7%	0.0%	0.7
reat Seneca (inclusive of	Public ESD Retrofits	\$0.0		0.0%	<u> </u>	100%	\$0	100%			-		-
Clopper Lake)	Private ESD Retrofits	\$0.0	-	0.0%	<u> </u>	100%	\$0	100%					
	Riparian Reforestation	\$0.0	-	0.0%		0%	\$0	0%			-		
	Stream Restoration	\$25.9	-	0.0%		0%	\$0	0%	0.0%	0.0%	0.0%	0.0%	0.0
<u>l</u>	Programmatic Practices	\$0.0		100.0%		0%	\$0	0%	<u> </u>	-	-		
	Subtotal	\$51.6	941	95.8%	901	2.2%	\$26	15.2%	24.3%	24.3%	26.0%	0.0%	31.1
	Completed and High Priority Projects	\$0,0		100.0%		0%	\$0	0%			-		
	Law Priority Projects	\$0.0		100.0%	-	0%	\$0	0%	-				
Γ	Other Potential Projects	\$0.0	-	0.0%		0%	\$0	0%					
	Public ESD Retrofits	\$0.8	12	0.0%	-	100%	\$0	100%	0.0%	0.0%	0.0%	0.0%	0.0
opper Lake (subshed of	Private ESD Retrofits	\$0.5	8	0.0%		100%	\$0	100%	0.0%	0.0%	0.0%	0.0%	0.0
Great Seneca)	Riparian Reforestation	\$0.2	2	0.0%	-	0%	\$0	0%	0.0%	0.0%	0.0%	0.0%	0.0
r	Stream Restoration	\$0.0		0.0%	*	0%	\$0	0%	,		-	-	1
<u> </u>	Programmatic Practices	\$0.01	-	100.0%	-	0%	\$0.01	0%	61.0%	30.0%	0.0%	0.0%	0,0
F	Subtotal	\$1.5	22	0.0%		0.0%	\$0.0	0.0%	61.0%	30.0%	0.0%	0.0%	0.0



County wide Coordinated

Implementation
Strategy

Approdix 4

Excerit

FY2015 Permit Cycle

		Total Patential	Total Restoration	% Implementation in	Impervious Treated	ESD (%	Cost (Million						
Watershed	Strategies	Cost	Potential (acres)	Permit Cycle	(acres)	Impervious)	\$)	ESD (% Cost)	Nitrogen	Phosphorus	Sediment	Bacteria	Trash
	Completed and High Priority Projects	\$0.0	-	0.0%		0%	\$0	0%	-		-	-	
	Low Priority Projects	\$0.0		0,0%	-	0%	\$0	0%			-	-	-
	Other Potential Projects	\$0.0	-	0.0%	-	0%	\$0	0%	-		-	,	-
	Public ESD Retrofits	\$8.6	40	0.0%		100%	\$0	100%	0.0%	0,0%	0.0%	0.0%	0.0%
Lower Monocacy	Private ESD Retrofits	\$2.9	13	10.0%	1	100%	\$0	100%	0.4%	0.4%	0.4%	0.4%	0.0%
	Riparian Reforestation	\$1.1	5	0.0%		0%	\$0	0%	0.0%	0.0%	0,0%	0.0%	0.0%
[Stream Restoration	\$7.3	-	0.0%	-	0%	\$0	0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Programmatic Practices	\$0.1		0.0%	-	0%	\$0.0	0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Subtotal	\$20.0	S8	2.3%	1	100.0%	\$0.29	100.0%	0.4%	0.4%	0.4%	0.4%	0.0%
	Completed and High Priority Projects	\$0.4	5	100.0%	5	27%	\$0	77%	0.7%	0.7%	0,8%	0.8%	1.0%
	Low Priority Projects	\$0.9	5	100.0%	5	100%	\$1	100%	8.4%	8.2%	8.3%	8.2%	11.6%
	Other Potential Projects	\$2.0		25.0%	-	0%	\$0	0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Public ESD Retrofits	\$31.2	179	0.0%		100%	\$0	100%	0.0%	0.0%	0.0%	0.0%	0.0%
ituxent (Rocky Gorge)	Private ESD Retrofits	\$18.6	106	1.0%	1	100%	\$0	100%	0.1%	0.1%	0.1%	0.1%	0.2%
	Riparian Reforestation	\$2.5	12	0.0%	•	0%	\$0	0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Stream Restoration	\$19.1		2.5%		0%	\$0	9%	0.3%	0.2%	0.9%	0.0%	0.0%
	Programmatic Practices	\$0.1		100.0%		0%	\$0	0%	38.0%	8.2%	0.3%	4.7%	2.0%
	Subtotal	\$74.7	307	3.6%	11	64.5%	\$3	54.5%	47.5%	17.4%	10.4%	13.8%	14.8%
	Completed and High Priority Projects	\$0.0	-	100.0%	-	0%	\$0	0%	-	-	-		-
	Low Priority Projects	\$0.4	2	100.0%	2	100%	\$0	100%	0.5%	0.5%	0.6%	0.5%	1.0%
	Other Potential Projects	\$0.0	-	0.0%		0%	\$0	0%	•	-		-	-
	Public ESD Retrofits	\$4.1	17	0.0%	-	100%	\$0	100%	0.0%	0.0%	0.0%	0.0%	0.0%
Patuxent (Triadelphia)	Private ESD Retrofits	\$4.7	19	5.0%	1	100%	\$0	100%	0.3%	0.3%	0.3%	0,3%	0.5%
[Riparian Reforestation	\$0.1	1	0.0%		0%	\$0	0%	0.0%	0.0%	0.0%	0.0%	0.0%
[Stream Restoration	\$0.0		0.0%	-	0%	\$0	0%		-	-	-	-
	Programmatic Practices	\$0.01	-	100.0%	-	0%	\$0	0%	23.4%	3.5%	0.0%	0.0%	0.0%
	Subtotal	\$9.3	38	7.6%	3	100.0%	\$0,6	99.1%	24.2%	4.3%	0.9%	0.8%	1.6%
Cou	ntywide Totals	\$1,884	11,154	38.6%	4,302	17.9%	\$305	53.4%	17.8%	17.1%	22.7%	10.5%	18.0%
				High and Low Priority:	2,993		$\overline{}$						

Assumptions:

1. 100% Completed and High Priority Projects

2. 25-33% Other potential projects

3. 100% of Public Outreach Potential for all TMDL watersheds

4. 10% of ESD potential in urban watersheds, ~1 acre ESD goal for rural watersheds

5. No riparian reforestation, Completed stream restoration

6. Used watershed area weighing to calculate countywide total pollutant removals

20% Targeted Impervious:

4,292 Chesapeake Bay TMDL, Urban MS4 Reductions (2017): Chesapeake Bay TMDL, Urban MS4 Reductions (2020):

768.0294602

Total

Potential

Cort

\$1.8848

\$305 Million current permit cycle

801301 - SM Retrofit - Schools 8.8.13

		THRU		TOTAL 6							
WATERSHED	PROJECT NAME	FY13	EST. FY14	YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
	TO 08-07: Cold Spring ES	و من المعارف الدارة الدارة والدارة الدارة	40	0 ៊ី	April American Section (1997)		en e sa sasisana Sa San San	angere e english Kalan Kalan		ngganagan sa manara	40
	TO 12-12: Rosa Parks MS & Olney Elem.										
and the second of the same of	School ** Strong to the strong three controls the strong transfer to the strong transfer transfer to the strong transfer	a Jang Spanning Pagang	300	220	180	40	richen was a series and a ser	mandor law intrastre test	er de la companya de	handra a minimus scale in	520
	TO 12-12: Rosa Parks MS & Olney Elem.			ú							
	School	tina i	A State of the sta	1560	530	1030					1560
	TO 12-13: White Oak MS, Strathmore ES & Oak View ES		450	200	220	70					750
	. The first of the control of the co	, 20 mg	460	290	220	70	vijit 2 testuri.	र प्रमुख्या स्टब्स्ट स्टब्स्ट स्टब्स्ट स्टब्स्ट स्टब्स्ट स्टब्स्ट स्टब्स्ट स्टब्स स्टब्स स्टब्स स्टब्स स्टब्स स्टब्स्ट स्टब्स स्ट	and waster over my	t ay Suman Hallands	750
	TO 12-13: White Oak MS, Strathmore ES & Oak View ES			2250	750	1500					2250
100	FY 14 Projects	M. A.S.	580	2250 ₎ 690	750	1500 210	7 8 35. 17	The second of the second		at the North	2250
	FY 14 Projects	والمراجع والمراجع والمراجع	360	2540	480 840	1700	Andre Williams	ener - des egiones final sign	e in a major aproximation of	ar garmagne.	1270 2540
	FY15 Projects	$(x, x_1, x_2, \dots, x_n)$		1040	470	390	180		5	Highlight Co.	1040
	FY15 Projects	en e		2080	4/0	690	1390	in a Single	الهجاء والمرياة	estal service	2080
N. 17.	FY16 Projects	* *	an seri	1300		650	390	260		44 447	1300
e se e governmente e	FY16 Projects	propagation grant	been place in a species resident.	2600	aray kambar da dasa i	A COMPANY OF THE	870	1730	جارت طاقوری آن بود. ا د کار کارگری (۱۳۵۸)	normal armana yang salah s	2600
	FY17 Projects		* 12 T	1300		4 * 24.	650	390	260	vida v set a la de la Ve	1300
A STATE OF THE STATE OF	FY17 Projects	and the second	The second of th	2600	in part to a common w	grave products as as as		870	1730	poglas properties	2600
**	FY18 Projects			1300	4 - 1 - 1 - 1 - 1		Control of the second	650	390	260	1300
* * .	FY18 Projects	ro si si		2600	*** *** ***	Maria de la compansión de	Maria de Bro	The second of the second	870	1730	2600
	FY19 Projects			1040			a special part		650	390	1040
and all the second second	FY19 Projects	e comment		870		مرموره دیده مد مر کار د		and the experience of the control of		870	870
	FY20 Projects	**		650			Angelon Control		1 1 12 1	650	650
	•										26,310
	TOTAL		1,380	24,930	3,470	6,280	3,480	3,900	3,900	3,900	26,310
	PDS TOTAL		1,340	7,830	1,350	1,360	1,220	1,300	1,300	1,300	
	CONSTRUCTION TOTAL		40	17,100	2,120	4,920	2,260	2,600	2,600	2,600	
		THRU		TOTAL 6							
WATERSHED	PROJECT NAME	FY13	EST. FY14	YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
MMIEUSUED	LUCIECT INMINE	LITO	L31. F114	IEARS	LITO	LITO	1117	LITO	C173	FIZU	TOTAL



801300 - SM RETROFIT ROADS 8.8.13

		THRU		TOTAL 6							
WATERSHED	PROJECT NAME	FY13	EST. FY14	YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
,* + *	Sligo Park Hills (DOT)		445	0		e e kina in re			in the energy		445
ee eest dan to as	Sligo Park Hills (DOT)		2312	0.5	energy spanish	** 4 / Person in the complete control	e Augusta de la productiva de la composição de la composição de la composição de la composição de la composição La composição de la composição		24.9 Las vancanas Georgia de	ANNESS CARLOS	2312
	Sligo Park Hills II (DOT)		- Buy king in the	200	200	and the second	and the second			and the second	200
	Sligo Park Hills II (DOT)		Today In Control of Co	2300	2300	The second secon	er , Jene Jane 18 c		aran Cambridge		2300
	Dennis Ave (DOT)	100		100	100		• • •				100
	Dennis Ave (DOT)		2410	600	600	Charles & Control Control		is a second of the second of t	word resident a fundament and the co	in a contract to the	3010
	TO 08-13: Franklin Knolls		300	210	210						510
	TO 08-13: Franklin Knolls		1940	2060	2060	er generaliser indicate					4000
	TO 08-06: Donnybrook (Street LID portion) (13)		50	50	50						100
	TO 08-06: Donnybrook (Street LID portion) (13)		800	200	200						1000
-	TO 08-07: Breewood and Amherst										
	(Tenbrook)			120	120						120
	TO 08-07: Breewood and Amherst					and the framework of the state	The state of the s		landa in sapera and	San	
	(Tenbrook)		800	200	200						1000
	TO 08-12: Spring Street	•		300	150	150			A		300
	TO 08-12: Spring Street			1800	900	900	a dinendral post in the		in the second of	for any proceeding, the co	1800
	TO 08-14: Breewood (Roads) (11)			100	100				in the exempts	4.45	100
and the second	TO 08-14: Breewood (Roads) (11)		60	770	770	the seasons in the second of the	rang gang pang pang. Tanggan	्रा । ज्यानस्य । ज्यानस्य मृह्य न	ikanganaranan Tabu	anger per programme per per per per per per per per per pe	830
Paint Branch	TO 12-14: Springbrook/Homestead (Tanley)		480	720	360	240	120				1200
Paint Branch	TO 12-14: Springbrook/Homestead (Tanley)	***		3000	gen new my can have a	1500	1500	Mark retired to the re-	Commence of the Commence of th	e geriji ye nagiyana na mana sa. Mana sa sa sa	3000
Anacostia	TO 12-15: Anderson Burkhard Clifton; Cannon R	oad	400	650	320	210	120				1050
Anacostia	TO 12-15: Anderson Burkhard Clifton; Cannon R			3500	· some contraction	1580	1920	ingg was somewhat his is a second Second state of the second second second	And the second second second	eg jarosan rangen en ego en er	3500
Rock Creek	TO 12-16: Judson Henderson (Glenmont Forest)		490	750	380	250	120				1240
Rock Creek	TO 12-16: Judson Henderson (Glenmont Forest)		The second secon	3720	· · · · · · · · · · · · · · · · · · ·	1700	2020	A STATE OF THE STA	The content of the table freedle	- Company of the Comp	3720
Rock Creek	TO 12-17: Wheaton Woods Area ROW LID		700	1160	570	370	220				1860
Rock Creek	TO 12-17: Wheaton Woods Area ROW LID	1.9:	The state of the s	5580	and the second second	2000	3580	en general production of the second s	edylor of object someth	and the second of the second of	5580
	FY14: Rock Creek ROW		400	650	320	210	120				1050
e s altean is grand between	FY14: Rock Creek ROW	TOTAL ST 4 19 1/14/1	Mang terminan di kanang terminan bagi seb	3150	de las des las successivação	290	2860	in constitute (in the normal argument	era nia nia mantantantantantan	programme in the agreement process and	3150
	FY14: Anacostia ROW		1500	2050	1080	710	200	60			3550
* * * * * * * * * * * * * * * * * * * *	FY14: Anacostia ROW		and the second s	10650		770	9120	760		e de presenta de la composición de la c La composición de la	10650
	FY15: Rock Creek ROW	•		1050	400	320	210	120			1050
A 8 - 1987 A 721 M	FY15: Rock Creek ROW	i i i i i i i i i i i i i i i i i i i		3150			300	2850	Sing of the second of the seco	Market Market Services	3150
	FY15: Anacostia ROW			3550	1350	1080	710	360	50)	3550
	FY15: Anacostia ROW		man men and a second	7100	* ** **	a magaza a compression	The second second	6080	1020).	7100



	FY16 Projects		4700		1800	1400	900	600		4700
	FY16 Projects		9400				- 1680	7720		9400
	FY17 Projects		4700			1800	1400	900	600	4700
	FY17 Projects	The state of the s	9400					1680	7720	9400
	FY18 Projects		4100	- 10 P			1800	1400	900	4100
	FY18 Projects	And the second of the second of	1680	8.857 3.00					1680	1680
	FY19 Projects		3200	15 7 4 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	1,1271			1800	1400	3200
	FY20 Projects	a the suppression of the second	0	Consider the law of more in the	· Anna Jacobson (1971)	al minimum and a		Committee of the second	an and the same	0
	FY20 Projects		1800		V 40' 11' 1		31 811 141		1800	1800
										111,507
	TOTAL	13,087	98,420	12,740	14,080	26,320	16,010	15,170	14,100	111,507
	PDS TOTAL	4,765	30,160	5,710	5,340	5,020	4,640	4,750	4,700	
	CONSTRUCTION TOTAL	8,322	68,260	7,030	8,740	21,300	11,370	10,420	9,400	
	THR	U	TOTAL 6							
WATERSHED	PROJECT NAME FY1	3 EST. FY14	YEARS	FY15	FY16	FY17	FY18	FY19 -	FY20	TOTAL

800900 - SM Retrofit - Government Facilities 8.8.13

		THRU		TOTAL 6							
WATERSHED	PROJECT NAME	FY13	EST. FY14	YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
	TO 08-06: Donnybrook		56	0	• •						56
e e e e e e e e e e e e e e e e e e e	TO 08-06: Donnybrook	and an experience of another state of	e and the second section of the section of the second section of the section o	0	And the second of the second o	Control of the state of the state of	Topical metric		d Sugarage and a series	a sweepen ner ingen er i i i i i i i i i i i i i i i i i i	0
	TO 08-07: Breewood (Tenbrook)	* * *	140	140	140		er en kalande. Geografie				280
y v S water	TO 08-07: Breewood (Tenbrook)	and the same of the same	Andready Contraction	0		Company of the Compan	ing the section of th	and of the engineering	emper er somerrepre Ett og i Sterrer	francis i servici de la composició de la	0
	Dennis Avenue & other DOT		370	370	370	Camera o as	13.452	a MT autoppearance of the			740
A Compa	Dennis Avenue & other DOT	man - 17 p. 1 10 d. 14	160	0.		anaga 🕳 silika samilikan			Andrew Control	and the second second second second	160
	Sligo Park Hills		133	133	133						266
and the second s	Sligo Park Hills	er green die de geen de	- the district of the second	0	The second	Calculate Considering Service Service	ere de l'anne e la faire. L'anne de la faire de la f	A Comment of the Comm	gger om trompt og synder Storet i det er	ا العاديد التحديق بين التواقيق التواقيق التواقيق التواقيق التواقيق التواقيق التواقيق التواقيق التواقيق التواقي التواقيق التواقيق ا	0
	TO 08-12: Spring Street	9 / 1	205	205	205	gi i see ee aa a	er ryte i	a are instruction and a			410
V V V V	TO 08-12: Spring Street		e menteral per	0					Maria Car	And the second section of	0
* *	TO 08-13: Franklin Knolls (Four Corners)		378	378	378			The first of the f			756
The state of the s	TO 08-13: Franklin Knolls (Four Corners)	* * * * * * *		0	er, at on a particular	- Markey (4 (1) 1/2) Me care of	Amin'n Colombia Tanàna	Company of the state of the state of	region also regions on the control of the control o	gradientes et la com- la gradientes	0
	TO 08-14: Breewood		179	179	179		in the second	and the second			358
	TO 08-14: Breewood			0 ~			andre se se en el el Sistema el		igen a krist, we less reside in Single Barrier (1997) Single Barrier (1997)	general and the second	0
	TO 08-15: Upper County Pool, Meadowvale		* * *			- *		July a morth Mill Consequence of the	1 -293 M . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4 . 4 .	r few Mills	
	and Montgomery Village		194	194	194						388
	TO 08-15: Upper County Pool	e production	200	200	200	per a final terbenden bet began. A state of the first	par man parties	en ignication of the section of	and the second s	Category and an artist of the same	400
	TO 08-23: Little Falls Library & Bushy Dr Rec		**************************************								
	Cntr		150	123	67	56				e de la companya de l	273
ar en la companya de	TO 08-23: Little Falls Library & Bushy Dr Rec	e est eteroria;	da tugoren gyakko etaka akumper. K		and the same of the same	and the second s	m djan v al etiva i 1. s. bj. Sej 4. s. s.	an ingertranggapan dang salah salah Managapan	And the second section	The second secon	
1	Cntr		7: Y:	550	380	170					550
Great Seneca	Plum Gar NRC (DGS)		100	0							100
Cabin John	Scotland NRC (DGS)		80	0						AND THE	80
	DGS Participation (TBD)		20	1200	200	200	20	0 200	200	200	1220
	FY14: Colesville Park & Ride		60	140	60	40	4	0	* *		200
	FY14: Colesville Park & Ride	Market Age 1	en altera cast grantin	600 ⁻¹		300	30	0 ' ' ' ' ' ' ' ' ' ' ' '	Carlondy Court (1886 AN), 173 Carlondy Carlond (1886 AN), 173	The second secon	600
	FY14: Greencastle Park & Ride	1	70	150	70	40	4	0		2.34	220
e de de de de de la composição de	FY14: Greencastle Park & Ride	Comment of the commen	r de region d'alternation de la company de l	660 °	end bit to desire age. Seen edition	330	33	Ď Ž		e e e e e e e e e e e e e e e e e e e	660
100 100	FY14: Germantown MARC Park & Rides		70	150	70	40	4	0	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		220
No. delega	FY14: Germantown MARC Park & Rides	District of the sta	racing the property of the pro	660	to a filter from a contract property of the contract of the co	330	33	0		Salaman salah di Salah Sal Salah Salah Sa	660
	FY14: Longwood & Potomac CRC		140	300 [°]	140	80	8	0	n digital out of the out of the		440
** *** *******************************	FY14: Longwood & Potomac CRC	American State of the second s	and the state of t	1320	a Amerikaska a da	660	66	0		and transport to the contract of	1320
	FY15: Abandoned Vehicles Facility			340	120	90	8	0 50			340
a y a wydrangery appy	FY15: Abandoned Vehicles Facility	a property and and	roserty i network kind i need 2 to 1.	680	and the second second	The second section of the sect		680	er of the state of the contract of the contrac	en e	680



	FY15: Damascus Park & Ride	•	ë.	140	40	40	30	30		gift ave	140
i i jin	FY15: Damascus Park & Ride		3,300	280				280		\$ 3	280
, 1845	FY15: Potomac CRC			280	80	80	60	60			280
# CALLED	FY15: Potomac CRC	n garaktiyak katalik Santa Santa		560			1.75	560	A CARLO SERVICE OF THE SERVICE OF TH	Tales statements	560
	FY16 Tasks			900	* * * * * *	360	270	180	90	55 (1974) (1974) (1974) (1974) (1974)	900
the board of the Employage	FY16 Tasks	er e starten en en bestelle	A Company of the Comp	1800	په چې د مد در د د د د د د کې			600	1200	day referre in the late of the	1800
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	FY17 Tasks		The second	900		*** August	360	270	180	90	900
e de la compresión de la production de l	FY17 Tasks	eral complete service sympologically	gan printer of the new contract of	1800	are taken	A Section of the Sect	Spirit and Street Spirits		600	1200	1800
19 11/10	FY18 Tasks	Maria de la Maria.	e de la companya de La companya de la co	810				360	270	180	810
همانهها در و در درون	FY18 Tasks	The state of the s	rammer mindy for model observer, less many	600	Methylane ne ceta postone y St. St.	an an produce and the second second			भ राज्यसम्बद्धाः स्थापः भ राज्यसम्बद्धाः स्थापः	600	600
	FY19 Tasks	e et tiere to	ure .	630	and the second of the	The state of the s	5 1 11 6 25 6 27	1 1 1	360	270	630
	FY19 Tasks	r gesain ar a rain 's special ar a rain	and the second of the second o	0	THE REPORT OF SECURITY	The Mark is the second control to the second control of the second	giring and the second of the s	The state of the s	And A Section of the	And the second s	0
	FY20 Tasks			360		ing to the state of	The second secon	erranga, astronomia Tanggan		360	360
ray see ay rings	FY20 Tasks		en contract of the first	0	and the contract	, and the contract of the cont	- grand desiration of the state	er sagety er plot in	and the second second second	responsible to the contract of	0
			-				e Zinaw		in a second		
											20,437
	TOTAL		2,705	1 7 ,732	3,026	2,816	2,820	3,270	2,900	2,900	20,437
	PDS TOTAL		2,145	6,822	2,246	826	1,000	950	900	900	•
	CONSTRUCTION TOTAL		560	10,910	780	1,990	1,820	2,320	2,000	2,000	
				,		•••	•	•	•		
		THRU		TOTAL 6							
WATERSHED	PROJECT NAME	FY13	EST. FY14	YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL

807359 - STREAM VALLEY IMPROVEMENTS 8.7.13

	THRU		TOTAL 6							
WATERSHED PROJECT NAME	FY13	EST. FY14	YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTALS
TO 08-01: Hollywood Branch			142	142						. 213
TO 08-01: Hollywood Branch	empered tweether	71 600	1200	1200	ومنارعها والمعاورة		And the second second		e designed september to the control of the control	1800
TGI08-05: Stiream: Monitoriting:		40°	600	AND SOUTH THE PARTY OF THE PART	and the second	A TON	100	666		640
TO 08-06: Donnybrook Stream	Transaction To	114	108	108				*****	Market Fig.	222
TO 08-06: Donnybrook Stream	فعيدة وويم أجمعوا منهمة	760	380	380	paragraphic in the first	r ang saksar nagadagan Kanggalaga		magali specie man m	engagi dadah se element	1140
TO 08-08: Fallsreach & Bedfordshire		170	170	170						340
TO 08-08: Fallsreach & Bedfordshire	anda i sanaa	320	920 [†]	920	ong =paggaran no no no an isan Salah	the second commence with a	antida dasa penjajah sebangan seria	na iya kirdaginiy maganliyadaniya K	general species of the second	1240
TO 08-14: Breewood Stream Restoration	1 Viv. 1 1	59	59	59		is take on the North Control				118
TO 08-14: Breewood Stream Restoration	19 min - 19	344	344	344	min while and the layers	n, a r fraktivered	e de grapa estas campa apropriama de	الله و المستريد الم المستريد المستريد ال	ede Autoritorios aprilios por	688
TO 08-20: Muddy Branch (Flints Grove) Stre	am	70	70	70		the state of	Makaya Milyenia.	egajesi kilo eges Gaje	Sets on	140
TO 08-20: Muddy Branch (Flints Grove) Stre	Charles a contract of the first	ana sa sa sa sa sa Sa Ta	1000	850	150		And the second	The transferred	getalower in	1000
TO 12-07: Cinnamon Woods Stream		90	90	60	30	e Karamatan Terleta Terleta	egeric de receptor de la companya d La companya de la co		**	180
TO 12-07: Cinnamon Woods Stream	Andreas a registration	ring spring were.	400	320	80	and the second s	The first of the same	er e gran joer reggestering.		400
TO 12-09: Lower Snowdens & Falling Creek		470	460	180	180	100	A CONTRACTOR OF THE STATE OF TH		2 * " *	930
TO 12-09; Lower Snowdens & Falling Creek	,	A S I TO B IN MANY	3000	in a second of the second of t	1500	1500	and the state of t	and the second of the second o	raggina, site cathering	3000
TO 12-10: Stonybrook Tributary		290	290	100	110	80				580
TO 12-10: Stonybrook Tributary		er dange dan	1200	ar ayaard ayaa ee ee ee ee ee ee	760	440	- gradient fild fan Heimsternmen fan Frans	ne no fil the trade of a gregorial	All Contractions	1200
TO 12-11: Great Seneca - Gunners Branch G	SGN 205)	310	300	130	90	80	25.00		* *.	610
TO 12-11: Great Seneca - Gunners Branch G	SGN 205		1440	The second	790	650				1440
FY14: Grosvenor Tributary		300	740	260	240	180	60	10 10 10 10 10 10 10 10 10 10 10 10 10 1		1040
FY14: Grosvenor Tributary	- m, qua ran 11985	The second second second second	3000		Ser Ser Ser Ser	2770	230		And the second of the second o	3000
FY14: Cold Spring		100	230	100	70	60	1. A. M. 1. 3			330
FY14: Cold Spring	and a supply of the engineer	a seemental and a second at	940	and the second second	a care de la care de l	940	Antonia paramenta di ambieni yan	and the second		940
FY14: Bel Pre Creek I		120	270	140	80	50				390
FY14: Bel Pre Creek I			1130			1130				1130
FY 15: Old Farm 6 (Neilwood Drive)	and the second second second	ment to the art the late of th	260	110	50	50	50	ene administration and decades at water the	in a series of the series of t	260
FY 15: Old Farm 6 (Neilwood Drive)			760				760	yeny i san		760
FY 15: Snakeden I & III	angana" s system town		400	200	70	70	60	Shipper of the Commission	n describe and an experience	400
FY 15; Snakeden I & III			1140				1140			1140
FY15: Muddy Branch	بالمعنى يعددون	i Angle state of the second process of the second	390	150	80-		garantena i jara ta Africata ana	nggangan serbagian kecaman		390
FY15: Muddy Branch			1120				1120			1120
FY15: Lower Potomac	والمادة	erije pravaja ilije poper	390	150	80	80	فالمحمومة المواهد والإرابيات	again in great years will	age as were a segurior	390
FY15: Lower Potomac			1120				1120			1120
FY15: Great Seneca (GSGN xxx)			390	150	80	80	. 80			390



	FY15: Great Seneca (GSGN xxx)	a distribution de seguina de segui De la compansión de seguina de se De la compansión de seguina de s		1120		and the second of the second o		1120		engage magage is	1120
	FY16 Projects			1800	and the second control of the second	900	300	300	300	erica de la companya	1800
- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	FY16 Projects	The state of the s		4200				1400	2800		4200
arm of Trebredteset period	FY17 Projects			1800	terior con pare	and the same and a second	900	300	300	300	1800
27 T T T T T T T T T T T T T T T T T T T	FY17 Projects			4200					1400	2800	4200
	FY18 Projects			1500	e de la company de la comp			900	300	300	1500
	FY18 Projects			1400						1400	1400
	FY19 Projects			1200					900	300	1200
	FY19 Projects			0							0
	FY20 Projects			900	4					900	900
											46,801
	TOTAL		4,228	42,573	6, 3 93	5,440	9,640	8,900	6,100	6,100	46,801
	PDS TOTAL		2,204	12,559	2,379	2,160	2,210	2,010	1,900	1,900	14,763
	CONSTRUCTION TOTAL		2,024	30,014	4,014	3,280	7,430	6,890	4,200	4,200	32,038
		THRU		TOTAL 6							
WATERSHED	PROJECT NAME	FY13	EST. FY14	YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTALS

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808726 - SM RETROFIT COUNTYWIDE 8.7.13

		THRU		TOTAL 6							
WATERSHED	PROJECT NAME	FY13	EST. FY14	YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL
	e de la companya de						*** *	#1 1200 t * \$40	ra com o		
. well a second	TO 08-04: Brookville (50%)	به و چاره چارهه د	66	0,	, e e sua padenada	المناوية ويعرف والمناوية	and the second second	and the state of t	ali Mariel graditati di San	Applied States	66
8 C 2 8	TO 08-04: Brookville (60%)		795	0					la vie		795
į.	TO 08-05: Monitoring		20	330	30	40	50	60	70	80	350
. * *	TO 08-08: Fallsreach, Fallsberry, Claggett Farm &					1000	1, 1,04		er Status for Kas		
e e e e e e e e e	Bedfordshire	ener, engles and an	302	156	156	Mary a Mila Dilah Tang	ور فردوسال معرف درستان و معرف در فردوسال معرف درستان و معرف	general and	Sales of the sales	Spire Countries of militar	458
	TO 08-08: Fallsreach, Fallsberry, Claggett Farm & Bedfordshire		4 1774	204	204						1000
<u> </u>	그는 사람들이 가는 사람들이 가장 하는 것이 되었다. 그는 사람들이 되었다면 하는 것이 없는 것이 없는 것이 없었다. 그 없는 것이 없는 것이 없는 것이 없는 것이다.	a fra also	1574	394 47	394	H. Galaka					1968 347
	TO 08-10: Oxford, Naples & Georgian	तमस्य पुरुष्ट गृज्यम् राज्यम् ।	300		47	ermen meneral process	কৈল প্ৰায়মূহত কুটা কেল প্ৰায়মূহত কুটা	a and a second report of the second	election of the processes	Cartella deserva	
1 A	TO 08-10: Oxford, Naples & Georgian TO 08-11: Metro Park, Montgomery Manor	1000	1100 238	142 68	142 68		기 교육	表加斯州			1242 306
994 - 1 AN 21 5	TO 08-11: Metro Park, Montgomery Manor TO 08-11: Metro Park, Montgomery Manor	rene i viniginji ji v	·데데워티바보다란드쇼, 다란바보다하는		with a growth is not also	ggi wasing ng ng	A company	gapines e e e e de d	يوا څاريولوميون ور پارده يو. پ	ing the state of the second se	506 506
e Maria de la	10 00-11. Metro Park, Montgomery Manor	fatte in	394	112	112	rive Waling		er om be		N. Halland	200
Great Seneca	TO 08-15: Meadowvale and Montgomery Village		13	50	50						63
UI Eat Selleta	A COLOR OF METAL AND	a conservation,	The state of the s	30		and the supplemental the supplemental the supplemental the supplemental the supplemental terms of the supplemental terms o	in you seems the same of the	- lips or Arthy of the last	e i de e di sidennelen di r	the property of with	03
Great Seneca	TO 08-15: Meadowvale and Montgomery Village	ta the	660	1320	1320						1980
Great Serieta	TO 08-16: Quail Valley, Hunters Woods and Goshen	eration not be		1320	1320	والمتأولة فتأوي	i na salah dari katan d Katan dari katan dari k		a Million gor same o	Reserved to the second	1300
Cabin John	Estates		438	300	300	restance of the second				•	738
COUNTY OF THE	TO 08-16: Quali Valley, Hunters Woods and Goshen	Commission and the second		300	eranos antigo	والراز والمستواط	edans on a parameter	The second second	ostojenomija opnovenina. S	eafina morros e e e	750
	Estates			1000	1000						1000
and and an English	TO 08-17: Magruder Branch Regional Pond	17 197 No. 1	90	101	101	S 20 4 4 4 6 9 4 10	and the Salara	and the college of the first	endali descripti diplo Lor	***	191
إفعاد إيماد والمعاف	TO 08-17: Magruder Branch Regional Pond	ringid gayar separa cacan	a conservation of the second s	1036	1036	untain né sint draumin	M. mandarati	Age of the seather and term	ومالومين يهضضني معاجمتها و	ergeneration.	1036
	TO 08-18: Seneca Whetstone, Seneca Park, Plumgar & M.					· · · · · · · · · · · · · · · · · · ·	telja i ser i odrađenostaja t		ng washing transfer Tangkan		
4	Village PEPCO		477	477	397	80					954
	TO 08-18: Seneca Whetstone, Seneca Park, Plumgar & M.	اليام المع والراق المجلوط الطالط المجاولات المام المام المام المجاولات المام المجاولات	and the second s		. n n. m. 175 per galategia A	angermalika kuma (m. 1967)	and the second s		Alter Same St. Mile Comment	Substitute of the substitute o	
	Village PEPCO	1	3	1500	1200	300					1500
क क्षा क्षा करता का स्ट्रा	TO 08-19: The Plantations, Airpark Regional	5-, 5" (1)	200	386	350	36	e personal de la persona de la companya de la comp La companya de la co	n i Maragan a Nasa at at at at at a	State of the Miles	g of the control	586
The second second	TO 08-19: The Plantations, Airpark Regional	erican property of a	e a ring a little compact today	1100	1000	100	a yan da wakani Tanan ing katani	The state of the second section of the second second is a second second in the second second second in the second second is a second second in the second second second in the second se	i akan maghanemenin	e y a service a service of the service of	1100
	TO 08-20: Shady Grove Dev. Park, Potomac Chase, Mills					or the second	and the same of the same of	And the Control of th	and the second		
F 4	Farm, Fox Hills & Flints Grove		220	400	280	120			***		620
4 12 - 12 - 12 - 12 - 12 - 12 - 12	TO 08-20: Shady Grove Dev. Park, Potomac Chase, Mills	framework at the experience	and the second second		The state of the s		ordina subsequente la contra cara de la contra cara del contra cara de la contra cara de la contra cara de la contra cara de la contra cara del contra cara de la contra cara del contra car		ar diselektiyayet da Arabidiya gaba yak Arabidiya gaba	Ampad to the control of the control	
	Farm, Fox Hills & Flints Grove			1685	1167	518					1685
475.545	TO 08-21: Greencastle Lakes		430	170	110	60					600
and the second second	and the second s	- mikanaki ke casin	Company and Some		the Cart						
	TO 08-21: Greencastle Lakes			440	290	150					440
	TO 12-01: Potomac Ridge (4)		310	550	240	190	120)			860
, (4)	TO 12-01: Potomac Ridge (4)			1720		1400	320	D W.		.*	1720



	TO 12-D2: Cinnamon Woods (4)	300	540	240	180	120	and the second s	840
	TO 12-02; Cinnamon Woods (4)		1680		1370	310		1680
	TO 12-03: Watkins Meadow, Northlake Apts, Gunners			S 1 1 1				
	Lake Village & Germantown View	320	560	250	190	120		880
a to be ready market in 18	TO 12-03: Watkins Meadow, Northlake Apts, Gunners	and the state of t	[*************************************	, , , , , , , , , , , , , , , , , , , ,			The second of th	
	Lake Village & Germantown View		1760		1440	320		1760
	TO 12-04: Woodrock, Pine Knoll & Fox Hills	310	550	240	160	150		860
	TO 12-04; Woodrock, Pine Knoll & Fox Hills		1720	and different	1250	470		1720
	TO 12-05: Longmeade, Gaywoods & Bel Pre Manor	260	390	200	110	80		650
and the second of the second	TO 12-05: Longmeade, Gaywoods & Bel Pre Manor	an into a state of the second	1300	er - Marie en Steffer, Massey vogset	950	350	A Company of the Comp	1300
	TO 12-06: Stonehedge, Kemp Mill, Dumont Oaks &	and the second	*		The second second		200 C 100 C	
4	Columbia Towers	310	450	190	160	100		760
n ye was as	TO 12-06: Stonehedge, Kemp Mill, Dumont Oaks &		£ 15 mm		programmer The Control of the Control		Company of the second of the s	
	Columbia Towers		1700		1240	460		1700
and the second	TO 12-07: Cinnamon Woods, Germantown Park	370	600	270	190	140	a tenne salah di kerabah kendaran di digilan di dilanggar kendaran di dilanggar berasa di dilanggar berasa di Biranggar berasa di dilanggar	970
The second secon	TO 12-07: Cinnamon Woods, Germantown Park	edwarderich wer in ein	1940	. In hope we so I wanted go	1410	530	and the same of th	1940
The same of the sa	TO 12-08: Wash Sci Cntr, Tuckerman Lane Regional, Old	Programme and the second		in the state of th	india in produc		enting of the property of the contract of the	
,	Georgetown Village & Mill Creek South	310	550	250	160	140	ang Maria Barangan B Barangan Barangan Ba	860
a aga is no no	TO 12-08: Wash Sci Critr, Tuckerman Lane Regional, Old	with the company of the control of t	. 44	a transfer a garage	p., mark services, grane		Authorities by the committee and a few properties of the committee of the	
	Georgetown Village & Mill Creek South		1720		1250	470		1720
4 41	Georgetown vinage & will creek South		1/20	- S - Will	1230	4/0		1720
Great Seneca	FY14: The Plantations, Chadsworth & Stewartown Homes	220	440	170	160	110	entergents of the content of the con	660
Great Seneca	FY14: The Plantations, Chadsworth & Stewartown Homes		1320		360	960		1320
Great Seneca	FY14: Quail Valley 2 & Goshen Estates	160	280	130	90	60		440
Great Seneca	FY14: Quail Valley 2 & Goshen Estates	100	880		290	590	Andrew Commence of the Commenc	880
Cabin John	FY14: Executive Blvd & Cabin John Shopping Center	80	180	80	50	50	mark all the second and the	260
er er i verste geren der William Ber	에 사고 그는 1000년 생생님은 영국 소리에 아무를 받아 있다는 것이 없는 것이 없는 그 아무리는 사람이 하는 것이 하는 것이 되었다는 것이다는 것이다. 그는 그 그 그 그래요 그 사람이 되었다.	g March Land	** * * *	0 U	garage and the second	Carlo alcare a Sandi Stationarities	Company of the Compan	
Cabin John	FY14: Executive Blvd & Cabin John Shopping Center		500		170	330		500
	FY14: Rossmor Leisure World, Tivoti Pond, Briggs Chaney							
Anacostia	Shopping Center, Verizon SWM & Rolling Acres	420	680	340	220	120	Character to a contract	1100
to the same of the		and the second s		0.87				
	FY14: Rossmor Leisure World, Tivoti Pond, Briggs Chaney							
Anacostia	Shopping Center, Verizon SWM & Rolling Acres		2200		500	1700		2200
Great Seneca	FY14: Williamsburg Square (7 facilities)	600	940	460	310	170		1540
Great Seneca	FY14: Williamsburg Square (7 facilities)		3080	ge e segendensk e jos og aleigjere Til gjallig	470	2610	And the second of the second o	3080
Great Seneca	FY14: Stoneridge (Community Council Corp.)	70	150	70	40	40	ALL BOOKS CONTRACTOR OF THE STATE OF THE STA	220
Great Seneca	FY14: Stoneridge (Community Council Corp.)	il de la marco de l'abbança	440	The second second second	100	340	Control of the Contro	440
	FY14: Tamarack Park (Valley Mill Pond)	60	0	en Agreemen St.		in the second second		60
	FY14: Rossmoor Leisure World (Leisure World Comm		- .		. 3	10000000000000000000000000000000000000		
	Corp TR)	- 60	0					60



* * *	FY14: Greencastle Lakes (CA) 60	0				received the second	60
	FY14: Oak Spring I (Upper Pond) 60	0					60
	FY14: MLK Recreation Park and Pond 60	0			1 1 50		60
Patuxent	FY14: Hallowell (HOA) 60	ő					60
	FY14: Good Hope Estates 60	0					60
Anacostia	FY14: George Meany Center for Labor (3) 180	0			4 4		180
A	FY14: Edgewood Pond (SS Country Club) 60	Ō				· · · · · · · · · · · · · · · · · · ·	60
	FY14: Colesville Depot 60	ō		5.			60
	FY14: Aspen Hill Racquetball Club (2) 120	Ö		100	· Single	e de la companya de l	120
	FY14: Argyle Village HOA 60	0					60
	FY14: Westleigh (Muddy Branch SVU) 70	150	70	50	30		220
	FY14: Westleigh (Muddy Branch SVU)	440	the residence of the second	100	340	e ingel e je en reksiste gagaran andere skille. Di kalendar e in de la Salandar e in de la Salanda	440
	FY14: Dufief Home Association 70	150	70	50	30	indigraphy of provide the state of the state	220
* ** ** ** **	FY14: Dufief Home Association	440	e ere eren gageren.	100	340	Control of the control of the second	440
	FY14: Thomas Choice Retrofit 60	100	40	30	30		160
	FY14: Thomas Choice Retrofit	320	in the space of	40	280	epartition of the partition miles of the partition of the	320
	FY14: Pueblo (60%)	0	* **	*	* * * * * * * * * * * * * * * * * * *		0
	FY14: Pueblo (60%) 375	375	375			And the first statement of the second statement of the	750
•	FY15: Clearspring Manor	260	80	80	50	50	260
	FY15: Clearspring Manor	520	A CONTRACT OF THE PARTY OF THE	Selection of the selection of	170	350	520
	FY15: Chesney	260	80	80	50	50	260
	FY15: Chesney	520	Commence of the second	Salar Salar	170	350	520
	FY15: Greenhills (Magruder Branch SVU) (2)	520	160	160	100	100	520
****	FY15: Greenhills (Magruder Branch SVU) (2)	1040	1 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		280	760	1040
	FY15: County View (Duvall Manor) (2)	520	160	160	100	100	520
	FY15: County View (Duvall Manor) (2)	1040	arrang regeries	en omen er være Villager	280	760	1040
	FY15: Garfield Manor	260	80	80	50	50	260
	FY15: Garfield Manor	520		Control of the Control	120	400	520
11.45	FY15: Churchill Town Sector (Waters Landing Assoc)	260	80	80	50	50	260
*,		**	A STATE OF THE STA			Some partial processing of the State of the	
	FY15: Churchill Town Sector (Waters Landing Assoc)	520			120	400	520
·	FY15: Willow Ridge (Orchard Neighborhood Park)	260	80	80	50	50	260
	FY15: Willow Ridge (Orchard Neighborhood Park)	520			120	400	520
	FY15: Quince Orchard Valley (Quince Valley HOA)	260	80	80	50	50	260
	FY15: Quince Orchard Valley (Quince Valley HOA)	520			120	400	520
	FY15: Quail Ridge Townhouse Assoc.	260	80	80 .	50	50	260
	FY15: Quail Ridge Townhouse Assoc.	520			120	400	520
	FY15: Beech Tree Place (Landmark Station HOA)	260	80	80	50	50	260
	FY15: Beech Tree Place (Landmark Station HOA)	520	A STATE OF THE STA		120	400	520
general and a service of the service of	FY15: Germantown Park (Gunners Branch Local Park) (3)	780	240	240	150	150	780
			1 4 4 4 A				- 41
•	FY15: Germantown Park (Gunners Branch Local Park) (3)	1560			120	1440	1560



FY15: Walnut	Creek Townhouse Association	And the second s	60	60						60
FY15: Watkins	Mill HOA (2)		120	120						120
					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
FY15: M/A Cor	nm DCC (Hughes Network Systems, Inc.)		60	60	" "		2.5	* 1. ·		60
FY 15: Hunting	Hills Woods		60	60				200		60
FY 15: Arbor La	andscapers		60	60						60
FY 15: Ashton	Village		60	60	4.			174	**	60
FY 15: Olney To	own Center Regional		60	60						60
FY 15: Avenel	Golf Course (TPC at Avenel) (5)		300	300						300
FY15: Bedforsh			60	60						60
FY 15: Potoma	c Oaks		60	60						60
FY15: Palatine	Oak (HOA)		60	60						60
FY15: Stonebri	idge Regional		60	60		,				60
FY15: Pond Ric			60	60		17.				60
FY15: Kensingt			60	60					٠.	60
	ore Court at White Flint (HOC)		60	60		4				60
	Branch Regional		60	60	•					60
	ood Estates (Crabbs Branch SVP)		60	60						60
	ive North Regional		60	60						60
	Farms (B'nai B'rith Homecrest House)		60	60			•			60
FY15: Rockville			60	60						60
	Estates (Norbeck Meadows Neighborhoo	d .								•
Park)			60	60	***			*	·	60
	t Roberts Oxygen		60	60						60
FY15: Hoover I			60	60						60
FY15: Sequoya	h Elementary School(Bowle Mill Park)		60	60		*				60
	Center of Maryland		60	60						60
FY15: Potomac			60	60						60
	sional Country Club		60	60	*		,			60
	(Wexford HOA)	•	60	60	6.4					60
FY15: Kings Lo			60	60		4				60
	Pond, Montgomery Village	•	60	60						60
					1.		1			
FY15: Montgo	mery Village (East Villiage Homes Corp)		60	60						60
	mery Village Golf Course (2)		120	120	,					120
FY15: Partridge			60	60	y in the second		100			60
	mery County Airpark		60	60			(37) < 30)			60
	anor Recreation Park		60	60						60
e de la	dan karangan 1996 dan 1996 separah 1996 sebagai beranggan penggan penggan kebagai penggan sebagai penggan seba Penggan penggan sebaga	and the second of the second o		e desertation du residential				and the second	y * 10	
FY16 Tasks			8400	1 1 2 1 1 1 m	3780	2310	1150	1160		8,400
FY16 Tasks	us and the program of models of graphy and a second models of models and models are considered to a second source of the second	e proprieta de la companya de la	14600	The second of the second of	,	gar Tahi, Tipo Saari agkara	6200	8400		14,600
FY17 Tasks	ersen er kanne en kontroller og er en kanne som en eller er som er er er er er. En	e englis de la companya de la compan	9600		(,1)	4320	2640	1320	1320	9,600
										-,



FY17 Tasks		16400	na manajeny	A COMPANY OF A COMPANY	د پېښون وې ده پخه نه مرد د و د د د د د د د د د د د د د د	repare of agent magnetic	6800	9600	16,400
FY18 Tasks		9320		* *		4860	2970	1490	9,320
FY18 Tasks	a ne e regita. S	7400						7400	7,400
FY19 Tasks	. *	7830				1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4860	2970	7,830
FY19 Tasks	en a la company	0 ~	The Landau Control of the Control of	terdari bara di Katala ana	A particular service and desired	armany years	Salara Salara da Salara	The second second	0
FY20 Tasks		4860	1		2 Feb. (1. 8. s. 24 at 1. 2. 3827)	5 81 - 1 42 4 1 1 1 1 1 1 1	d south man known	4860	4,860
FY20 Tasks	er and	0							0
		10500	1500	1600	1700	1800	1900	2000	11,900
	176	1140	180	184	188	192	196	200	1,316
	450	131	131	41.4%		3. 1		Table N	581
Monitoring	20	120	20	20	20	20	20	20	140
									161,408
TOTAL 14,	.938 14	6,470	18,726	22,968	23,408	23,732	27,696	29,940	161,408
PDS TOTAL 9,	,864 6	66,866	10,510	9,276	10,760	11,280	12,300	12,740	76,730
CONSTRUCTION TOTAL 5,	,074 7	79,604	8,216	13,692	12,648	12,452	15,396	17,200	84,678
THRU	TO ⁻	TAL 6							
FY13 EST. F	Y14 YE	ARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTAL



800700 - MAJOR STRUCTURAL REPAIR 8.7.13

WATERSHED	PROJECT NAME	THRU FY13 EST. FY14	TOTAL 6 YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTALS
	TO 08-04: Brookville Depot (50%)	98	0		ing a garagear			#	***	98
e in a stolen with a rise	TO 08-04: Brookville Depot (40%)	530	0	of an armore of the second second second	own regions, resident at the resident	en signi ar aminga ar san cregor gang			en te comme the theory	530
	Auto Park Dam	163	0							163
and the permitting between the pro-	Auto Park Dam	1628	0	and condition with the straining and and straining the straining of the st	and have the following on the same filter	By the second of the house of the second of	And the second of the second	Andreas and the second second	A CONTRACTOR OF THE PROPERTY O	1628
	Pueblo (Quince Orchard Manor)	50	0							50
	Pueblo (Quince Orchard Manor) (40%)	375	375	375	man description for the state of the	The second secon	Annual Manager	and a contract of a law are		750
1	Thomas Choice SWM Facility Repair		0							0
	Thomas Choice SWM Facility Repair	156	. 0	A service of the serv	Section 2007	a was a sawan a sawar a	and the state of t	a series and the series of the series		156
	JV TO 10 - Anchor	137	40	20	20					177
	Gunners Lake	226	150	75	75					376
	Gunners Lake		3000	3000				A see self-rest and and an	en e	3000
	Whetstone	150	150	150						300
A STATE OF THE STA	Whetstone	250	3000	3000	The state of the s		Land Satisfaction		19.	3250
	ICC Filter Dia	30	0							30
	Chadsworth Sliplining	65	0							65
	Chadsworth Sliplining	in the Author Company of the Author Street Co	425	and the second s	425	and the second of the second		De se la casta destitat e sur en		425
	Hunters Woods (Blue Smoke Ct)		260		160	100				260
The second secon	Hunters Woods (Blue Smoke Ct)	21 NO. 2	625			19.	625	and the second state of the	100	625
	B'Nai Israel		260	160	100				,	260
	B'Nai Israel		750			750	The Four Los of			750
	Brandermill		260	160	100					260
	Brandermill		625	the second se		625				625
	Persimmon Tree	160	100	100						260
for the second on the second	Persimmon Tree	Application of the second of t	820		820		Aller Co. A. S.	to the second se		820
	Colony Pond	160	100	100						260
	Colony Pond	manager and analysis of the second	625		625					625
	Wheaton Branch		0			11, 1% 				0
y i was a wastely laughters	Wheaton Branch	and the control of the said Character of the control of the character.	425	account of the same of the sam	425			The second of the second secon	to the control of the	425
	ICC - PB48 Rework	60	0					1		60
and the second second	ICC - PB48 Rework	and the state of t	520	140	380	a rim ja samtar sanaga sahari		of core of 1 frage the and and 1 mod		520
	Oaks Landfill Ponds		260		160	100				260
e e e e e e e e e e e e e e e e e e e	Oaks Landfill Ponds	and a compared employed statement of the	500	enge group gelenne i game i la physi	The second second second	and standard to supplicate	500	green and an area. He have the h		500
	Railroad Branch		260			160	100	The second second		260
	Railroad Branch		1250					1250		1250



	Home Depot (Aspen Hill)		260		à (a. % a.)	160	100			260
	Home Depot (Aspen Hill)		1250			Buch		1250		1250
	Retrofit Sliplining	25	600	100	100	100	100	* 100	100	625
-	Dredging Projects	50	900	150	150	150	150	150	150	950
	Other Projects		1885			285	470	80	1050	1885
, ,	Other Projects	American Control of Commence of State Control of Contro	3395	rent received a rent received a c	of the desired and the second and an analysis of	570	955	170	1700	3395
		•								
										27,383
	TOTAL	4,313	23,070	7,530	3,540	3,000	3,000	3,000	3,000	27,383
	PDS TOTAL	1,269	3,985	765	615	805	670	80	1,050	5,254
	CONSTRUCTION TOTAL	3,044	19,085	6,765	2,925	2,195	2,330	2,920	1,950	22,129
			TOTAL 6							
WATERSHED	PROJECT NAME	THRU FY13 EST. FY14	YEARS	FY15	FY16	FY17	FY18	FY19	FY20	TOTALS

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