

Agricultural Land Preservation Program

PROGRAM DESCRIPTION AND OBJECTIVES

The County's Agricultural Land Preservation Capital Program is administered by the Montgomery County Department of Economic Development (DED). The program includes one ongoing capital project, Agricultural Land Preservation Easements, with the objective to protect and preserve agricultural land from development and the goal of retaining a significant farming sector throughout Montgomery County.

During FY2009, the County achieved the goal of protecting 70,000 acres of agricultural land through easements. As of June 30, 2013, the County has permanently preserved 72,479 acres for agricultural use. Montgomery County leads the State of Maryland in the number of acres preserved and has the highest percentage of farmland under agricultural land preservation easements of any county in the nation. Within this total, 52,052 acres are protected by Transferable Development Rights (TDR) easements which allow for densities as high as one unit per twenty-five acres. It will be important for the County to continue to pursue higher levels of protection for these properties to reduce the potential for future development in the Agricultural Reserve. The implementation of the Building Lot Termination (BLT) Program will be integral to this effort.

Currently, preservation of agricultural land is accomplished under six separate agricultural land preservation programs: the Montgomery County Agricultural Easement Program (AEP); the Maryland Agricultural Land Preservation Foundation (MALPF); Montgomery County's local Transferable Development Rights (TDR); the Maryland Environmental Trust (MET); the Montgomery County Rural Legacy Program (RLP) and the Building Lot Termination Program (BLT). The acres preserved under each program are displayed in the chart below, and each program is described in the narrative that follows.

	MALPF	AEP	MET	BLT	RLP	TDR	Total
Protected thru Jun FY13	4,675	8,382	2,086	409	4,875	52,052	72,479

Through AEP, the County purchases easements on farmland using Agricultural Transfer Tax collections to meet acreage acquisition targets. Agricultural easements acquired through the AEP may range in value from \$1,700 to \$9,000 per acre, depending on location, land quality, and amount of road frontage. The County has protected 8,382 acres through the AEP.

Through MALPF, the State purchases development rights easements directly from landowners to protect agricultural

land from development. Since 1980, 4,675 acres have been protected.

Montgomery County's local TDR program, established by the functional Master Plan for the Preservation of Agriculture and Rural Open Space, accounts for the major portion of the County's preserved land – 52,052 acres. The program, administered by the Maryland-National Capital Park and Planning Commission (M-NCPPC), allows Upcounty landowners to transfer development rights from the 93,000-acre Agricultural Reserve, in the western and northern portions of the County, at the rate of one TDR per five acres, to developers with projects in areas that can accept the higher development density, designated as "TDR receiving areas." Lands protected by TDR easements also represent additional opportunities for DED to further protect agricultural lands through easements by reducing the allowable housing density that is reserved on those lands.

The MET program encourages landowners to donate an easement on their property to protect scenic open areas, including farm and forest land, wildlife habitats, waterfront, unique or rare areas, and historic sites. This program is associated with the Maryland Department of Natural Resources and requires no monetary participation by the County. Montgomery County has protected 2,086 acres through the MET program.

The RLP was enacted in 1997 as part of the Governor's Smart Growth and Neighborhood Conservation initiative to protect natural resources. The program is designed to protect areas rich in multiple agricultural, forestry, natural and cultural resources in order to protect resource-based economic development, protect green areas, and maintain rural life. Montgomery County acts as a conduit for these funds, and no monetary participation is required of the County. The County has protected 4,875 acres through the RLP program.

The BLT program was approved by the County Council through Council Bill 39-07 in December of 2008. This program provides another tool to permanently protect agricultural lands, especially where development potential is achievable through the approval of on-site waste disposal systems. On November 10, 2009, five million dollars was approved by the County Council through a supplemental appropriation to this project to fund the BLT. The County has conducted two BLT purchase periods. Currently, four BLT easements have been settled; covering 409 acres and nine BLTs. DED is in the process of settling three additional easement acquisitions; covering 308.5 acres and eight BLTs. DED will hold its next purchase period beginning in January 2014.

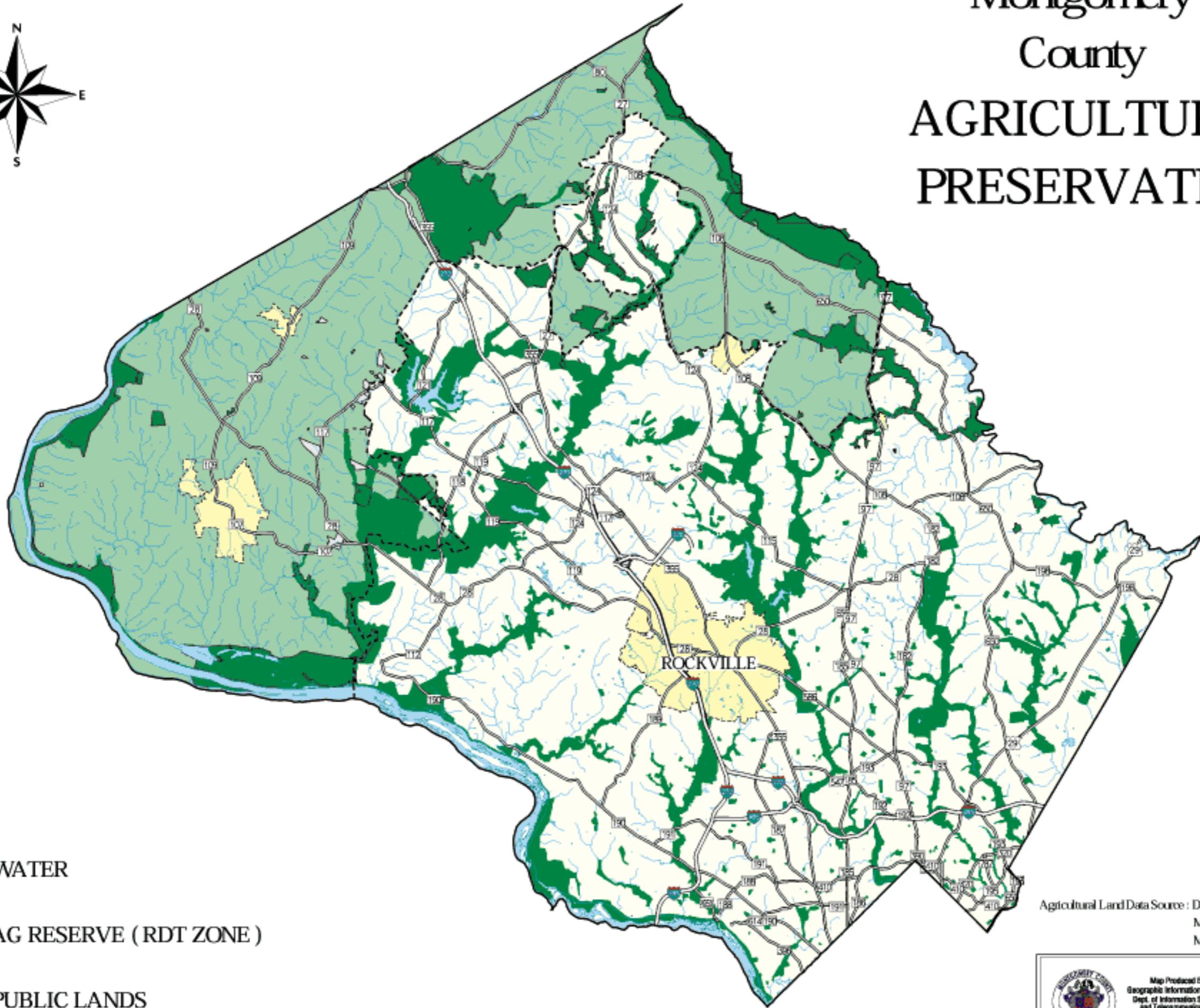
PROGRAM CONTACTS

Contact Jeremy Criss of the Department of Economic Development at 301.590.2823 or Jahantab Siddiqui of the Office of Management and Budget at 240.777.2795 for more information regarding this capital budget.

CAPITAL PROGRAM REVIEW

The Executive's recommended FY15-20 program expenditure total is \$5.609 million. Total six year program funding includes Agricultural Transfer Tax contributions, State Aid, M-NCPPC contributions and investment income.

Montgomery County AGRICULTURAL PRESERVATION



-  WATER
-  AG RESERVE (RDT ZONE)
-  PUBLIC LANDS

Agricultural Land Data Source : DED Agricultural Services
MNC& PC
MD Office of Planning

Map Produced by:
Geographic Information Systems
Dept. of Information Systems
and Telecommunications
Montgomery County, Maryland
Date: December 21, 2000



Ag Land Pres Easements (P788911)

Category Conservation of Natural Resources
 Sub Category Ag Land Preservation
 Administering Agency Economic Development (AAGE06)
 Planning Area 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
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EXPENDITURE SCHEDULE (\$000s)

	Total	Thru FY13	Est FY14	Total 6 Years	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	Beyond 6 Yrs
Planning, Design and Supervision	5,068	509	629	3,930	630	640	650	660	670	680	0
Land	8,061	1,796	4,586	1,679	241	253	266	284	304	331	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	30	30	0	0	0	0	0	0	0	0	0
Total	13,159	2,335	5,215	5,609	871	893	916	944	974	1,011	0

FUNDING SCHEDULE (\$000s)

	Total	Thru FY13	Est FY14	Total 6 Years	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	Beyond 6 Yrs
Agricultural Transfer Tax	4,008	628	1,701	1,679	241	253	266	284	304	331	0
Contributions	1,706	51	51	1,604	30	30	30	464	520	530	0
Federal Aid	522	522	0	0	0	0	0	0	0	0	0
G.O. Bonds	2,000	1,118	882	0	0	0	0	0	0	0	0
Investment Income	815	16	0	799	0	283	470	46	0	0	0
M-NCPPC Contributions	3,050	0	2,150	900	150	150	150	150	150	150	0
State Aid	1,058	0	431	627	450	177	0	0	0	0	0
Total	13,159	2,335	5,215	5,609	871	893	916	944	974	1,011	0

APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request	FY 15	0
Appropriation Request Est.	FY 16	0
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		17,058
Expenditure / Encumbrances		3,698
Unencumbered Balance		13,360

Date First Appropriation	FY 89
First Cost Estimate	
Current Scope	FY 15 13,159
Last FY's Cost Estimate	21,961

Description

This project provides funds for the purchase of agricultural and conservation easements under the County Agricultural Land Preservation legislation, effective November 25, 2008, for local participation in Maryland's agricultural and conservation programs and through Executive Regulation 3-09 AM, adopted July 27, 2010. The County Agricultural Easement Program (AEP) enables the County to purchase preservation easements on farmland in the agricultural zones and in other zones approved by the County Council to preserve farmland not entirely protected by Transferable Development Rights (TDR) easements or State agricultural land preservation easements. The Maryland Agricultural Land Preservation Foundation (MALPF) enables the State to purchase preservation easements on farmland jointly by the County and State. The Rural Legacy Program (RLP) enables the State to purchase conservation easements to preserve large contiguous tracts of agricultural land. The sale of development rights easements are proffered voluntarily by the farmland owner. The project receives funding from the Agricultural Land Transfer Tax, which is levied when farmland is sold and removed from agricultural status. Montgomery County is a State-certified county under the provisions of State legislation, which enables the County to retain 75 percent of the taxes for local use. The County uses a portion of its share of the tax to provide matching funds for State easements. In FY10, the Building Lot Termination (BLT) program was initiated. This program represents an enhanced farmland preservation program tool to further protect land where development rights have been retained in the Rural Density Transfer Zone (RDT). This program utilizes a variety of revenue sources that include: Agricultural Transfer Tax revenues, MNCPPC Contributions, Developer Contributions, and G.O. Bonds to purchase the development rights and the corresponding TDRs retained on these properties. The Department of Economic Development is developing a strategic plan for Phase II of the preservation program and preservation opportunities will be considered as they become available.

Cost Change

Programming of \$150,000 of MNCPPC/Developer Contributions for BLT Program Administration (FY14-20) to offset BLT administrative charges to investment income. Programming of Private Contributions for FY18-FY20 to replace depleted Investment Income for Planning, Design and Supervision project expenses and the addition of FY19 and FY20 project costs. The budget also reflects revised estimates for Agricultural Transfer Tax revenue.

Justification

Annotated Code of Maryland 2-501 to 2-515, Maryland Agricultural Land Preservation Foundation; Annotated Code of Maryland 13-301 to 13-308, Agricultural Land Transfer Tax; and Montgomery County Code, Chapter 2B, Agricultural Land Preservation, and Executive Regulation 3-09 AM.

Other

Ag Land Pres Easements (P788911)

FY15 estimated Planning, Design and Supervision expenditures are \$630,000: 1.0 FTE Sr. Business Development Specialist, 1.0 FTE Business Development Specialist I, 1.0 FTE MLS Manager II, 1.5 FTE Principal Administrative Aides, 0.10 FTE Resource Conservationist; 0.10 FTE Sr. Business Development Specialist; \$20,000 - Deer Donation Program; \$10,000 - Montgomery Weed Control Program; and \$50,000 for the Cooperative Extension Partnership. Appropriations are based upon a projection of Montgomery County's portion of the total amount of Agricultural Transfer Tax which has become available since the last appropriation and State Rural Legacy Program grant funding. Appropriations to this project represent a commitment of Agricultural Land Transfer Tax funds and State Aid to purchase agricultural easements. The Agricultural Transfer Taxes are deposited into an investment income fund, the interest from which is used to fund direct administrative expenses, the purchase of easements, and other agricultural initiatives carried out by the Agricultural Services Division. The program permits the County to take title to the TDRs. These TDRs are an asset that the County may sell in the future, generating revenues for the Agricultural Land Preservation Fund. The County can use unexpended appropriations for this project to pay its share (40 percent) of the cost of easements purchased by the State. Since FY99, the County has received State RLP grant funds to purchase easements for the State through the County. The State allows County reimbursement of three percent for direct administrative costs such as appraisals, title searches, surveys, and legal fees. Given changes to the Federal Program, new Federal Aid funds are no longer programmed in this project.

Fiscal Note

Expenditures do not reflect additional authorized payments made from the Agricultural Land Preservation Fund balance to increase financial incentives for landowners. Terms and conditions regarding contributions from the Montgomery Soil Conservation District (MSCD) will be specified within the Memorandum of Understanding (MOU) between the County and MSCD.

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

State of Maryland Agricultural Land Preservation Foundation, State of Maryland Department of Natural Resources, Maryland-National Capital Park and Planning Commission, Landowners

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 Conservation of Natural Resources
 Sub Category Storm Drains
 Administering Agency Transportation (AAGE30)
 Planning Area Countywide

Date Last Modified 12/23/13
 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
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EXPENDITURE SCHEDULE (\$000s)

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

FUNDING SCHEDULE (\$000s)

G.O. Bonds	5,357	4,451	906	0	0	0	0	0	0	0	0
Water Quality Protection Bonds	1,848	0	0	1,848	0	0	462	462	462	462	0
Water Quality Protection Charge	852	0	0	852	426	426	0	0	0	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 Request		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 in-kind 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 Conservation of Natural Resources
 Sub Category Storm Drains
 Administering Agency Transportation (AAGE30)
 Planning Area Countywide

Date Last Modified 12/23/13
 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
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EXPENDITURE SCHEDULE (\$000s)

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

FUNDING SCHEDULE (\$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	277	1,660	250	250	290	290	290	290	0
Total	6,364	4,427	277	1,660	250	250	290	290	290	290	0

APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request	FY 15	250
Appropriation Request Est.	FY 16	250
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		4,704
Expenditure / Encumbrances		4,443
Unencumbered Balance		261

Date First Appropriation	FY 81	
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 Conservation of Natural Resources
 Sub Category Storm Drains
 Administering Agency Transportation (AAGE30)
 Planning Area Countywide

Date Last Modified 12/23/13
 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
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EXPENDITURE SCHEDULE (\$000s)

	Total	Thru FY13	Est FY14	Total 6 Years	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	Beyond 6 Yrs
Planning, Design and Supervision	1,305	0	225	1,080	180	180	180	180	180	180	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	7,395	0	1,275	6,120	1,020	1,020	1,020	1,020	1,020	1,020	0
Other	0	0	0	0	0	0	0	0	0	0	0
Total	8,700	0	1,500	7,200	1,200	1,200	1,200	1,200	1,200	1,200	0

FUNDING SCHEDULE (\$000s)

	Total	Thru FY13	Est FY14	Total 6 Years	FY 15	FY 16	FY 17	FY 18	FY 19	FY 20	Beyond 6 Yrs
G.O. Bonds	1,500	0	1,500	0	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	0
Water Quality Protection Charge	2,400	0	0	2,400	1,200	1,200	0	0	0	0	0
Total	8,700	0	1,500	7,200	1,200	1,200	1,200	1,200	1,200	1,200	0

APPROPRIATION AND EXPENDITURE DATA (000s)

Appropriation Request	FY 15	1,200
Appropriation Request Est.	FY 16	1,200
Supplemental Appropriation Request		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.

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

Expenditures will continue indefinitely.

Coordination

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 Conservation of Natural Resources
 Sub Category Storm Drains
 Administering Agency Transportation (AAGE30)
 Planning Area 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
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EXPENDITURE SCHEDULE (\$000s)

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

FUNDING SCHEDULE (\$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 Request		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

Other

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, Easley 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

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 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

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 watershed-based 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 Quality Protection Charge (WQPC). 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 Conservation of Natural Resources
 Sub Category Stormwater Management
 Administering Agency Environmental Protection (AAGE07)
 Planning Area Colesville-White Oak

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
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EXPENDITURE SCHEDULE (\$000s)

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

FUNDING SCHEDULE (\$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	0	0	0
Total	6,972	4,774	138	2,060	310	350	350	350	350	350	0

OPERATING BUDGET IMPACT (\$000s)

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 Request		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 Transportation, Maryland Department of the Environment, Facility Planning: SM (No. 809319), Maryland Department of Natural Resources.

Facility Planning: SM (P809319)

Category Conservation of Natural Resources
 Sub Category Stormwater Management
 Administering Agency Environmental Protection (AAGE07)
 Planning Area 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
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EXPENDITURE SCHEDULE (\$000s)

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

FUNDING SCHEDULE (\$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	0
Water Quality Protection Charge	11,560	2,223	937	8,400	1,150	1,250	1,350	1,450	1,550	1,650	0
Total	17,497	8,160	937	8,400	1,150	1,250	1,350	1,450	1,550	1,650	0

APPROPRIATION AND EXPENDITURE DATA (000s)

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

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

Description

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.

Justification

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.

Coordination

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 Conservation of Natural Resources
 Sub Category Stormwater Management
 Administering Agency Environmental Protection (AAGE07)
 Planning Area 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
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EXPENDITURE SCHEDULE (\$000s)

Planning, Design and Supervision	79,325	2,189	10,270	66,866	10,510	9,276	10,760	11,280	12,300	12,740	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	87,358	1,850	5,904	79,604	8,216	13,692	12,648	12,452	15,396	17,200	0
Other	7	7	0	0	0	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)

Federal Aid	299	0	299	0	0	0	0	0	0	0	0
State Aid	25,490	0	4,490	21,000	3,500	3,500	3,500	3,500	3,500	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)

Maintenance				90	0	6	12	18	24	30
Net Impact				90	0	6	12	18	24	30

APPROPRIATION AND EXPENDITURE DATA (000s)

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

Date First Appropriation	FY 87
First Cost Estimate	
Current Scope	FY 15 166,690
Last FY's Cost Estimate	159,855
Partial Closeout Thru	19,239
New Partial Closeout	4,046
Total Partial Closeout	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.

Justification

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.

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.

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 Conservation of Natural Resources
 Sub Category Stormwater Management
 Administering Agency Environmental Protection (AAGE07)
 Planning Area 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
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EXPENDITURE SCHEDULE (\$000s)

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

FUNDING SCHEDULE (\$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

OPERATING BUDGET IMPACT (\$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 Conservation of Natural Resources
 Sub Category Stormwater Management
 Administering Agency Environmental Protection (AAGE07)
 Planning Area 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
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EXPENDITURE SCHEDULE (\$000s)

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

FUNDING SCHEDULE (\$000s)

Water Quality Protection Bonds	26,455	168	1,357	24,930	3,470	6,280	3,480	3,900	3,900	3,900	0
Total	26,455	168	1,357	24,930	3,470	6,280	3,480	3,900	3,900	3,900	0

OPERATING BUDGET IMPACT (\$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 Request Est.	FY 16	3,440
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		2,280
Expenditure / Encumbrances		1,048
Unencumbered Balance		1,232

Date First Appropriation	FY 13
First Cost Estimate	
Current Scope	FY 15 26,455
Last FY's Cost Estimate	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.

Justification

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.

Other

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.

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

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 Conservation of Natural Resources
 Sub Category Stormwater Management
 Administering Agency Environmental Protection (AAGE07)
 Planning Area 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
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EXPENDITURE SCHEDULE (\$000s)

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

FUNDING SCHEDULE (\$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	550	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.

Justification

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.

Other

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 in-construction 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.

Fiscal Note

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.

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, 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 Conservation of Natural Resources
 Sub Category Stormwater Management
 Administering Agency Environmental Protection (AAGE07)
 Planning Area 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
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EXPENDITURE SCHEDULE (\$000s)

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

FUNDING SCHEDULE (\$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 Request		0
Transfer		0
Cumulative Appropriation		12,582
Expenditure / Encumbrances		9,587
Unencumbered Balance		2,995

Date First Appropriation	FY 09
First Cost Estimate	
Current Scope	FY 15 27,819
Last FY's Cost Estimate	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 Conservation of Natural Resources
 Sub Category Stormwater Management
 Administering Agency Environmental Protection (AAGE07)
 Planning Area 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
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EXPENDITURE SCHEDULE (\$000s)

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 SCHEDULE (\$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 Request		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.

Justification

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.

Other

Projects include: Quince Orchard Manor (Quince Orchard Valley Neighborhood Park), Lake Whetstone, Chadswold, 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.