



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 impacts stream habitats, leading to 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 habitats and reduce pollution in the Bay and its tributaries.

The objectives of the Stormwater Management program are: protecting natural waterway environments; addressing the impacts of stormwater runoff by enhancing existing best management practices (BMPs) such as ponds, restoring streams previously damaged by excessive erosion and sedimentation, and installing other best management practices (BMPs) to capture runoff and allow for treatment to prevent impaired water quality. The County's Stormwater Management program is watershed-based and focuses on mitigating problems caused by development that was constructed prior to implementation of current stormwater management controls and on proactive planning in the developing portions of the County.

Residential and Commercial property owners pay a Water Quality Protection Charge (WQPC) to fund the Stormwater Management program. The WQPC funds are used to install new treatment facilities and retrofit existing facilities, maintain treatment facilities, monitor the effects of the treatment, ensure an active public education and engagement program, and ensure compliance with the multiple requirements of the permit issued to the County under the Clean Water Act, the National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) permit. The WQPC, financing secured by the WQPC, as well as a State-facilitated long-term loan, are the main funding mechanisms for treatment facility projects.

The County's stormwater control requirements are established in the MS4 Permit, issued by the Maryland Department of the Environment (MDE). A fourth generation permit was issued for Montgomery County in November 2021.

The Stormwater Management capital program includes facility planning studies and the development of Watershed Restoration Action Plans, design and construction of stormwater retrofit projects (including low-impact development and green infrastructure), and stream restoration projects. These projects reduce pollution in streams and manage peak runoff flows to improve stream channel habitat and reduce sedimentation impacts from watershed development and urbanized areas.

Since FY04, the County has performed structural maintenance for qualified private stormwater management facilities such as ponds, sand filters, and underground facilities located on homeowner and condominium association and commercial properties. The WQPC funds the maintenance of these privately-owned structures as well as County-owned facilities. This program improves the long-term operational effectiveness of these facilities and increases 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 Stormwater Management program, which was developed by the Department of Environmental Protection (DEP) to comply with the NPDES MS4 permit, continues to act as a model for jurisdictions throughout Maryland who are required to develop and implement a Stormwater Management program.

The CIP budget represents the resources necessary to complete the requirements of the new MS4 permit and maintain improvements already completed. Additionally, DEP continues to identify program efficiencies to allow for better informed decision making and restoration outcomes at reduced costs. These include the pursuit of lower-cost funding through the Maryland Water Quality Revolving Loan Fund and the increased utilization of Public Private Contracts and Partnerships.

The FY23-28 CIP program for Stormwater Management continues the County's commitment to treat impervious surfaces within the County to the maximum extent practicable. The Department of Transportation (DOT) and the Maryland-National Park and Planning Commission also assist in achieving the County's stormwater management goals, and hold regular meetings with DEP staff looking for additional areas of cooperation.

HIGHLIGHTS

- Use Maryland Water Quality Revolving Loan funds to reduce program costs through lower interest financing.
- Use Water Quality Bonds for projects that are ineligible for low-interest loans.
- Install new stormwater management facilities and retrofit old stormwater controls to prevent property damage, improve water quality, and protect habitat.
- Repair major structures on public and private stormwater facilities accepted into the County's maintenance program.

PROGRAM CONTACTS

Contact Patrice Bubar of the Department of Environmental Protection at 240.777.7786 or Richard H. Harris of the Office of Management and Budget at 240.777.2795 for more information regarding this department's capital budget.

CAPITAL PROGRAM REVIEW

A total of five projects are recommended for FY23-28 and are described in detail in the Project Description Forms. The Recommended FY23-28 Stormwater Management capital program totals \$118.2 million, an increase of \$5.2 million or 4.6 percent from the amended approved FY21-26 program of \$113.0 million.

The Stormwater Management Capital Program will be funded primarily by long-term debt financing through the Maryland Water Quality Revolving Loan Fund, WQPC-backed bonds, and Current Revenue: WQPC. The Stormwater Management Program assumes multiple awards of Maryland Water Quality Revolving Loan Funds over the six-year period, which replace WQPC Bonds as the primary source of funding for new installations and water quality improvements. Maryland Water Quality Revolving Loan Funds are a low-interest form of borrowing that reduces the overall cost of the program. The loans and bonds will cover expenditures incurred for the design and construction of additional stormwater facilities needed to comply with the requirements of the County's MS4 permit. Cost containment efforts have been aggressively pursued to avoid large increases in the WQPC.

Also included in the funding of the stormwater management projects is an assumption of \$12.1 million in State Aid based on the State's interest in supporting stormwater management efforts throughout the state.



Facility Planning: Stormwater Management (P809319)

Category	Conservation of Natural Resources	Date Last Modified	01/07/22
SubCategory	Stormwater Management	Administering Agency	Environmental Protection
Planning Area	Countywide	Status	Ongoing

EXPENDITURE SCHEDULE (\$000s)

Cost Elements	Total	Thru FY21	Est FY22	Total 6 Years	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Beyond 6 Years
Planning, Design and Supervision	21,895	14,507	981	6,407	1,018	1,037	1,057	1,077	1,098	1,120	-
Other	448	448	-	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	22,343	14,955	981	6,407	1,018	1,037	1,057	1,077	1,098	1,120	-

FUNDING SCHEDULE (\$000s)

Funding Source	Total	Thru FY21	Est FY22	Total 6 Years	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Beyond 6 Years
Current Revenue: General	5,000	5,000	-	-	-	-	-	-	-	-	-
Current Revenue: Water Quality Protection	14,413	9,018	638	4,757	743	762	782	802	823	845	-
Intergovernmental	68	-	68	-	-	-	-	-	-	-	-
State Aid	140	140	-	-	-	-	-	-	-	-	-
Stormwater Management Waiver Fees	2,222	797	225	1,200	200	200	200	200	200	200	-
Water Quality Protection Bonds	500	-	50	450	75	75	75	75	75	75	-
TOTAL FUNDING SOURCES	22,343	14,955	981	6,407	1,018	1,037	1,057	1,077	1,098	1,120	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 23 Request	699	Year First Appropriation	FY93
Appropriation FY 24 Request	1,037	Last FY's Cost Estimate	20,092
Cumulative Appropriation	16,255		
Expenditure / Encumbrances	14,975		
Unencumbered Balance	1,280		

PROJECT DESCRIPTION

This project provides for facility planning and feasibility studies to evaluate watershed conservation needs and to identify remedial projects 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 ESD/LID 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 the Stormwater Management Retrofit Countywide project (No. 808726). 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

Costs increase due to enhanced requirements of the MS4 permit, and as FY27 and FY28 enter the six-year period.

PROJECT JUSTIFICATION

The facility planning products support the requirements outlined in the County's MS4 Permit. 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 reflect reduced planning and design costs.

FISCAL NOTE

Funding sources updated in FY23 to include Water Quality Protection Charge-backed revenue bonds. FY21 supplemental in Intergovernmental for the amount of \$67,509. Expenditures in the outyears include expected costs to meet the requirements of the County's next MS4 permit. The scope of the next MS4 permit is subject to negotiation with the Maryland Department of Environment.

DISCLOSURES

Expenditures will continue indefinitely. The County Executive asserts that this project conforms to the requirement 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, Stormwater Management Retrofit Countywide (No. 808726), Misc. Stream Valley Improvements.



Misc Stream Valley Improvements (P807359)

Category	Conservation of Natural Resources	Date Last Modified	01/08/22
SubCategory	Stormwater Management	Administering Agency	Environmental Protection
Planning Area	Countywide	Status	Ongoing

EXPENDITURE SCHEDULE (\$000s)

Cost Elements	Total	Thru FY21	Est FY22	Total 6 Years	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Beyond 6 Years
Planning, Design and Supervision	6,002	5,880	122	-	-	-	-	-	-	-	-
Land	2	2	-	-	-	-	-	-	-	-	-
Site Improvements and Utilities	1	1	-	-	-	-	-	-	-	-	-
Construction	10,877	9,297	1,580	-	-	-	-	-	-	-	-
Other	7,978	7,978	-	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	24,860	23,158	1,702	-	-	-	-	-	-	-	-

FUNDING SCHEDULE (\$000s)

Funding Source	Total	Thru FY21	Est FY22	Total 6 Years	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Beyond 6 Years
Current Revenue: Water Quality Protection	3,917	2,415	1,502	-	-	-	-	-	-	-	-
Long-Term Financing	9,329	9,329	-	-	-	-	-	-	-	-	-
State Aid	4,106	4,106	-	-	-	-	-	-	-	-	-
Stormwater Management Waiver Fees	1,490	1,290	200	-	-	-	-	-	-	-	-
Water Quality Protection Bonds	6,018	6,018	-	-	-	-	-	-	-	-	-
TOTAL FUNDING SOURCES	24,860	23,158	1,702	-	-	-	-	-	-	-	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 23 Request	(651)	Year First Appropriation	FY73
Appropriation FY 24 Request	-	Last FY's Cost Estimate	25,511
Cumulative Appropriation	25,511		
Expenditure / Encumbrances	24,765		
Unencumbered Balance	746		

PROJECT DESCRIPTION

This project provides for design and construction of habitat restoration or stabilization measures for stream reaches having significant channel erosion, sedimentation, and habitat degradation. Developed areas constructed without current stormwater controls contribute uncontrolled runoff which results in 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 - funded from the Outfall

Repairs project (No. 509948).

COST CHANGE

Reduction in costs reflects conclusion of project.

PROJECT JUSTIFICATION

The project supports the requirements of the County's MS4 permit and addresses the goals of the Chesapeake Bay Watershed Agreement, 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.

OTHER

Projects planned for design and construction include Booze Creek Repairs. The Montgomery Parks Department of the Maryland-National Capital Park and Planning Commission (M-NCPPC) and the Montgomery Department of Environmental Protection (DEP) have agreed that M-NCPPC will serve as the lead agency for implementing stream restoration projects including long-term monitoring and maintenance that are located wholly or mostly on parks property in support of the County's MS4 permit. Previously, DEP had begun design work on the following stream restoration projects which meet these criteria: Clearspring Manor, Glenallan, Stoneybrook (Beach Drive to Montrose Avenue), and Grosvenor (Beach Drive to Rockville Pike). DEP has provided all design work for these projects to M-NCPPC for design completion, permitting, and construction under M-MNCPPC's Stream Protection: SVP (P818571) project. M-NCPPC has agreed that all MS4 credits generated from these projects will be credited towards the County's future MS4 permit with delivery of the restored impervious acres no later than Dec. 31, 2023. M-NCPPC will provide appropriate updates at key project milestones to ensure that MS4 credits are achieved in the timeframe required, in addition to providing the long-term monitoring and maintenance required for the County to maintain the impervious acreage credit. These projects are currently estimated to have a combined cost of \$2.4M and will provide approximately 44 acres of credit; funding was provided under M-MNCPPC's Stream Protection: SVP (P818571) project. Parks will provide updated schedule and cost information on all projects for construction allocation funding beginning in FY 20, based on MDE's Water Quality Revolving Loan Fund cycle timeframes. M-NCPPC and DEP developed a Memorandum of Understanding that details how projects completed by M-NCPPC, funded with WQPC dollars, with MS4 credits going to DEP, will be handled. M-NCPPC will document all MS4 credits created through these projects in accordance with MDE requirements to obtain State approval for the permit credits. M-NCPPC recognizes that stream restoration projects with relatively small segments located on Parks property may be selected by the County's DBM contractor. If selected by the County's contractor and approved by DEP with concurrence by M-NCPPC, the contractor will need to obtain a Park Permit and comply with all M-NCPPC requirements.

FISCAL NOTE

This CIP Project will be closed after the completion of the Booze Creek Repair project, expected in FY22. Any future stream restoration work will be performed under CIP Project # 808726 - Stormwater Management Retrofit: Countywide.

DISCLOSURES

The County Executive asserts that this project conforms to the requirement 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, and Maryland Department of Natural Resources.



Stormwater Management Facility Major Structural Repair

(P800700)

Category	Conservation of Natural Resources	Date Last Modified	01/09/22
SubCategory	Stormwater Management	Administering Agency	Environmental Protection
Planning Area	Countywide	Status	Ongoing

EXPENDITURE SCHEDULE (\$000s)

Cost Elements	Total	Thru FY21	Est FY22	Total 6 Years	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Beyond 6 Years
Planning, Design and Supervision	16,729	6,825	1,597	8,307	1,417	1,250	1,325	1,435	1,445	1,435	-
Construction	35,424	14,097	4,707	16,620	7,160	3,110	1,750	1,700	1,350	1,550	-
Other	1	1	-	-	-	-	-	-	-	-	-
TOTAL EXPENDITURES	52,154	20,923	6,304	24,927	8,577	4,360	3,075	3,135	2,795	2,985	-

FUNDING SCHEDULE (\$000s)

Funding Source	Total	Thru FY21	Est FY22	Total 6 Years	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Beyond 6 Years
Contributions	600	-	600	-	-	-	-	-	-	-	-
Current Revenue: Water Quality Protection	10,748	10,748	-	-	-	-	-	-	-	-	-
Long-Term Financing	13,656	2,703	5,704	5,249	4,989	260	-	-	-	-	-
State Aid	529	399	-	130	130	-	-	-	-	-	-
Water Quality Protection Bonds	26,621	7,073	-	19,548	3,458	4,100	3,075	3,135	2,795	2,985	-
TOTAL FUNDING SOURCES	52,154	20,923	6,304	24,927	8,577	4,360	3,075	3,135	2,795	2,985	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 23 Request	3,183	Year First Appropriation	FY07
Appropriation FY 24 Request	4,100	Last FY's Cost Estimate	43,999
Cumulative Appropriation	32,881		
Expenditure / Encumbrances	24,334		
Unencumbered Balance	8,547		

PROJECT 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 6,800 stormwater management facilities. Major structural repairs can include dredging and removing sediment, removal and replacement or relining of failing pipes and principal spillways, replacing failing riser structures, and repairing failing dam embankments. The repair work under this project is more significant than routine maintenance and requires engineering analysis and design and application for Federal, State, and/or local permitting.

COST CHANGE

Costs increase due to growth in subproject costs and as FY27 and FY28 enters the six-year period.

PROJECT JUSTIFICATION

This project provides for major structural repairs in order to comply with the County's municipal separate storm sewer system (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.

Current projects include: Wheaton Branch overtopping protection, Railroad Branch Dam, Lake Hallowell dredging project, Lake Whetstone Toe Drain repair, Clearspring Manor Road, Norbeck Manor Pond, Quail Valley Pond, Rossmoor Leisure World Pond, and Gunners Lake Erosion Repair.

FISCAL NOTE

Funding sources updated in FY23 to include Water Quality Protection Fund bonds in FY23-FY28. The County intends for a portion of Long-Term Financing in FY22 to also be paid for with Water Quality Protection Fund bonds. FY21 supplemental in Contributions for the amount of \$600,000. This project assumes the award of Maryland Water Quality Revolving Loan Funds (long-term financing) over the six-year period.

DISCLOSURES

Expenditures will continue indefinitely. The County Executive asserts that this project conforms to the requirement 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, Stormwater Management Retrofit: Countywide (No. 808726), and Maryland Department of Natural Resources.



Stormwater Management Retrofit: Countywide

(P808726)

Category	Conservation of Natural Resources	Date Last Modified	01/08/22
SubCategory	Stormwater Management	Administering Agency	Environmental Protection
Planning Area	Countywide	Status	Ongoing

EXPENDITURE SCHEDULE (\$000s)

Cost Elements	Total	Thru FY21	Est FY22	Total 6 Years	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Beyond 6 Years
Planning, Design and Supervision	51,680	24,074	3,294	24,312	3,990	4,536	3,211	4,248	4,158	4,169	-
Land	3	3	-	-	-	-	-	-	-	-	-
Site Improvements and Utilities	10	10	-	-	-	-	-	-	-	-	-
Construction	87,916	26,398	3,168	58,350	6,871	5,781	20,684	9,914	8,050	7,050	-
Other	7,522	6,982	124	416	68	168	-	80	-	100	-
TOTAL EXPENDITURES	147,131	57,467	6,586	83,078	10,929	10,485	23,895	14,242	12,208	11,319	-

FUNDING SCHEDULE (\$000s)

Funding Source	Total	Thru FY21	Est FY22	Total 6 Years	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Beyond 6 Years
Contributions	60	-	60	-	-	-	-	-	-	-	-
Current Revenue: Water Quality Protection	26,372	14,193	1,975	10,204	1,657	1,691	1,551	1,728	1,708	1,869	-
Federal Aid	201	-	201	-	-	-	-	-	-	-	-
Intergovernmental	1,094	1,000	94	-	-	-	-	-	-	-	-
Long-Term Financing	65,620	8,490	4,256	52,874	6,692	5,724	19,594	8,864	6,000	6,000	-
State Aid	15,699	3,699	-	12,000	2,000	2,000	2,000	2,000	2,000	2,000	-
Stormwater Management Waiver Fees	1,160	-	-	1,160	180	180	200	200	200	200	-
Water Quality Protection Bonds	36,925	30,085	-	6,840	400	890	550	1,450	2,300	1,250	-
TOTAL FUNDING SOURCES	147,131	57,467	6,586	83,078	10,929	10,485	23,895	14,242	12,208	11,319	-

OPERATING BUDGET IMPACT (\$000s)

Impact Type	Total 6 Years	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28
Maintenance	540	90	90	90	90	90	90
NET IMPACT	540	90	90	90	90	90	90

APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 23 Request	865	Year First Appropriation	FY87
Appropriation FY 24 Request	2,761	Last FY's Cost Estimate	133,856
Cumulative Appropriation	99,334		

APPROPRIATION AND EXPENDITURE DATA (\$000s)

Expenditure / Encumbrances	62,598
Unencumbered Balance	36,736

PROJECT DESCRIPTION

This project provides for the design and construction of new and upgraded stormwater management facilities throughout the County under the County's Municipal Separate Storm Sewer System (MS4) Permit. Facilities include but are not limited to new or upgraded stormwater management ponds, Environmental Site Design (ESD) / Low-Impact Development (LID) facilities, and stream restorations.

COST CHANGE

Costs increase due to enhanced requirements under the new MS4 permit and as FY27 and FY28 enter the six-year period, partially offset by slippage of prior-year appropriations while the County waited for the new permit to be issued.

PROJECT JUSTIFICATION

This project is needed to comply with the County's MS4 permitting requirements and to implement the County's adopted water quality goals (COMCOR Chapter 19, Article IV) and protect habitat conditions in local streams. In addition, the project supports the goals of the Anacostia Watershed Restoration Agreement.

OTHER

This project utilizes Maryland Water Quality Revolving Loan Funds (long-term financing). Expenditures in the out-years include expected costs to meet the requirements of the County's next MS4 permit. The scope of the next permit is subject to negotiation with the Maryland Department of Environment.

FISCAL NOTE

Funding Sources updated in FY23 to include Water Quality Protection Fund bonds in FY23-28. The County intends for a portion of Long Term Financing in FY22 to also be paid for with Water Quality Protection Fund bonds. FY21 supplemental in Intergovernmental for the amount of \$93,773, and FY21 fund switch of \$200,748 to remove State Aid and add Federal Aid for the Chesapeake Bay Trust Green Streets, Green Jobs, Green Towns grant program.

This project utilizes Maryland Water Quality Revolving Loan Funds (long-term financing) over the six-year period.

The work Program will be based on permit requirements, an assessment of priority needs and community input including feedback from stormwater partners.

DISCLOSURES

Expenditures will continue indefinitely. The County Executive asserts that this project conforms to the requirement 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, Maryland Department of the Environment, Natural Resources Conservation Service, U.S. Army Corps of Engineers, Facility



Wheaton Regional Dam Flooding Mitigation (P801710)

Category	Conservation of Natural Resources	Date Last Modified	12/29/21
SubCategory	Stormwater Management	Administering Agency	Environmental Protection
Planning Area	Kensington-Wheaton	Status	Planning Stage

EXPENDITURE SCHEDULE (\$000s)

Cost Elements	Total	Thru FY21	Est FY22	Total 6 Years	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Beyond 6 Years
Planning, Design and Supervision	1,276	628	369	279	159	120	-	-	-	-	-
Construction	3,500	-	-	3,500	1,750	1,750	-	-	-	-	-
TOTAL EXPENDITURES	4,776	628	369	3,779	1,909	1,870	-	-	-	-	-

FUNDING SCHEDULE (\$000s)

Funding Source	Total	Thru FY21	Est FY22	Total 6 Years	FY 23	FY 24	FY 25	FY 26	FY 27	FY 28	Beyond 6 Years
Current Revenue: Water Quality Protection	628	628	-	-	-	-	-	-	-	-	-
Long-Term Financing	369	-	369	-	-	-	-	-	-	-	-
Water Quality Protection Bonds	3,779	-	-	3,779	1,909	1,870	-	-	-	-	-
TOTAL FUNDING SOURCES	4,776	628	369	3,779	1,909	1,870	-	-	-	-	-

APPROPRIATION AND EXPENDITURE DATA (\$000s)

Appropriation FY 23 Request	(754)	Year First Appropriation	FY16
Appropriation FY 24 Request	-	Last FY's Cost Estimate	5,530
Cumulative Appropriation	5,530		
Expenditure / Encumbrances	891		
Unencumbered Balance	4,639		

PROJECT DESCRIPTION

This flood mitigation project, located along Glenhaven Drive and Dennis Avenue in Wheaton, will excavate and expand the stream channel upstream of the Wheaton Regional Pond and modify the pond's riser structure. This project will be constructed in parallel with the Department of Transportation's (DOT) Dennis Avenue bridge replacement. The two projects will modify the current 100-year floodplain boundary just upstream of the pond. The post-project 100-year floodplain will not include the residential properties located in the current 100-year floodplain.

ESTIMATED SCHEDULE

The riser modification and channel design began in FY18 with the riser repair construction expected to start in FY23. The excavation of the channel will occur in coordination with DOT's culvert replacement in FY23 and FY24.

COST CHANGE

Project cost adjusted as scope is further refined.

PROJECT JUSTIFICATION

An engineering analysis by the Department of Environmental Protection indicates that the effect of the riser structure associated with the Wheaton Regional Pond, the Dennis Avenue Culvert, and an undersized stream channel along Glenhaven Drive, cumulatively, will cause flooding of roads and private property upstream of the pond during a 100-year storm event. Flooding of adjacent roads and private property has already occurred in 2006 and 2010.

FISCAL NOTE

Funding sources updated in FY23 to include Water Quality Protection Fund bonds in FY23-FY28. The County intends for a portion of Long Term Financing in FY22 to also be paid for with Water Quality Protection Fund bonds. This project will be done in conjunction with the DOT Dennis Avenue bridge replacement project (P501701).

COORDINATION

Department of Transportation, Federal Emergency Management Agency, Maryland Emergency Management Agency, and Dennis Ave Bridge M-0194 Replacement (No. 501701).