

*Mission: To implement a comprehensive stormwater management program that balances the following goals: 1) to reduce the potential for stormwater threats to public health, safety, and property; 2) to reduce the impacts of new and existing urban development on Arlington streams, the Potomac River, and the Chesapeake Bay; and, 3) to comply with State and federal stormwater, water quality, and floodplain management regulations*

#### Stormwater Management

- Integrate traditional stormwater infrastructure needs with watershed management and environmental protection objectives and regulatory compliance requirements, including those of **the County's** new Municipal Separate Storm Sewer System (MS4) permit, issued in June 2013.
- Implement critical infrastructure and environmental quality projects, consistent with the goals and strategies in the *Stormwater Master Plan* that was adopted as an element of the **County's** Comprehensive Plan in September 2014.
- Support both routine and emergency stormwater infrastructure maintenance activities.

#### ACCOMPLISHMENTS

Since the adoption of a dedicated funding source for stormwater management in April 2008, steady progress continues on the design and construction of several significant stormwater projects. Examples of work completed or currently underway include the following:

#### Environmental Quality

- Multiple watershed retrofit projects constructed, including: Trades Center, Patrick Henry Drive medians, North Albemarle Street, Pentagon City, and 8<sup>th</sup> Street South.
- Construction of major watershed retrofit and stream restoration projects expected from FY 2017 through FY 2019, including:
  - Four Mile Run Tidal Restoration Project
  - Williamsburg Boulevard median I and II watershed retrofit
  - Ballston Pond retrofit project
  - Windy Run stream restoration project
  - Donaldson Run Tributary B stream restoration project
  - John Marshall Drive median/North Kensington Street watershed retrofit

#### Stormwater Infrastructure

- Sycamore at 24th Street North (final design complete, awaiting relocation of gas mains by Washington Gas, construction anticipated Summer 2016).
- West Little Pimmit Run (Phase I & II final design complete, awaiting relocation of gas mains by Washington Gas, construction anticipated Summer 2017).
- Lower Long Branch at Columbia Pike culvert extension (construction completed Spring 2015 as part of VDOT project).
- Lower Long Branch Flood Risk Reduction Project (project scope to be developed, with design to be started Summer 2016).
- 9<sup>th</sup> Street North between North Liberty Street and North Livingston Street (final design completed, awaiting relocation of gas mains by Washington Gas, construction anticipated Spring 2016).

- Woodmont Swale (between the 2400 block of North Kenmore Street and the 2900 block of 24th Road North) under design, construction anticipated FY 2017.
- Donaldson Run Outfall & Channel Repair at 24<sup>th</sup> Road North – under design, construction anticipated FY 2018.

#### Stormwater Infrastructure Maintenance

- Six projects to replace 1900 linear feet of corrugated metal pipe with reinforced concrete pipe were completed in FY 2015; similar levels expected in FY 2016.
- Five projects to install 640 feet of storm sewer in the public right of way or public easements to address local drainage issues were completed in FY 2015. Five projects to install approximately 940 linear feet of storm sewers to be constructed in FY 2016.
- Six projects to install 2,394 linear feet of underdrains to address drainage issues associated with groundwater and sump pump water in the public right of way were constructed in FY 2015. Seven projects to install approximately 1,600 linear feet to address drainage issues associated with groundwater and sump pump water in the public right of way to be constructed in FY 2016.
- Similar levels of storm sewer and underdrain construction are anticipated in FY 2017.
- A major storm sewer collapse at 32<sup>nd</sup> Street South and South Utah Street was repaired.
- Ongoing modeling analyses are continuing for the following basins: Torreyson Run, Lower Long Branch, Arlington Branch, Gulf Branch, Little Pimmit Run, and Donaldson Run.

### SIGNIFICANT BUDGET CHANGES

The FY 2017 adopted expenditure budget for the Stormwater Management Fund is \$9,801,470, a six percent increase from the FY 2016 adopted budget. The FY 2017 adopted budget reflects:

- ↑ Personnel increases primarily due to the addition of five FTEs. The positions added are: Environmental Management Specialist to manage the comprehensive stormwater maintenance facility maintenance contract (\$122,982, 1.0 FTE), a Design Engineering Supervisor and a Design Engineer to support watershed retrofit and stream restoration projects (\$306,538, less charges to capital projects, 2.0 FTEs), an Inspector for construction site compliance inspections (\$105,980, 1.0 FTE), and a Management Specialist in the Department of Parks & Recreation to manage compliance with mandated stormwater treatment requirements (\$93,483, 1.0 FTE). **Additional increases reflect employee salary increases and an increase in the County's cost for employee health insurance, partially offset by adjustments to retirement contributions based on current actuarial projections.**
- ↑ Non-personnel increases due to a new contract for maintenance of stormwater facilities and other contractual increases (\$183,585), funding for safety supplies (\$13,545), inter-departmental charges for overhead (\$29,168), planting of new trees, which was formerly included in the DPR budget (\$205,000), miscellaneous items in support of the new positions including computers, furniture and training (\$44,014), and the purchase of a new vehicle for the new inspector position (\$24,100). The increases are partially offset by a decrease to the annual expense for maintenance and replacement of County vehicles (\$18,206).
- ↓ Capital cost decreases due to an increase in the operating budget for personnel and non-personnel expenses (\$493,926).
- ↑ Revenue increases due to the increase in the CY 2016 real estate assessment tax base (\$329,520) and fees from sediment/erosion control plan review (\$200,000).
- Due to the impact of the new MS4 permit, new state stormwater regulations and capital related requirements, an increase in the stormwater tax rate will likely be required in the next two to four years.

PROGRAM FINANCIAL SUMMARY

	FY 2015 Actual	FY 2016 Adopted	FY 2017 Adopted	% Change '16 to '17
Personnel	\$3,674,308	\$3,988,425	\$4,530,665	14%
Non-Personnel	2,518,967	2,389,599	2,870,805	20%
Capital	1,364,147	2,893,926	2,400,000	-17%
<b>Total Expenditures</b>	<b>7,557,422</b>	<b>9,271,950</b>	<b>9,801,470</b>	<b>6%</b>
<b>Total Revenues</b>	<b>8,833,019</b>	<b>\$9,271,950</b>	<b>\$9,801,470</b>	<b>6%</b>
<b>Change in Fund Balance</b>	<b>\$1,275,597</b>	<b>-</b>	<b>-</b>	<b>-</b>
Permanent FTEs	37.00	37.00	42.00	
Temporary FTEs	-	-	-	
<b>Total Authorized FTEs</b>	<b>37.00</b>	<b>37.00</b>	<b>42.00</b>	

CAPITAL PROJECTS SUMMARY

Stormwater Management - FY 2017	
Environmental Quality Projects *	
1. Williamsburg Blvd median I retrofit	\$163,607
2. Williamsburg Blvd median II retrofit	61,353
3. South Walter Reed Drive watershed retrofit	38,345
4. Patrick Henry Drive/20th St N watershed retrofit	23,519
5. 11th Street Park watershed retrofit	19,428
6. Northside Leaf Storage watershed retrofit	21,729
7. N Sycamore Street median retrofit	89,473
8. Four Mile Run Tidal Restoration Project	1,022,546
Environmental Quality Projects subtotal =	\$1,440,000
Infrastructure Projects	
1. Lower Long Branch flood risk reduction project	\$252,631
2. Sycamore at 24 <sup>th</sup> Street North	454,737
3. Maintenance Capital: Storm Sewer rehabilitation/replacement	252,632
Infrastructure Projects subtotal =	\$960,000
TOTAL =	\$2,400,000
Revenue	
Sanitary District Tax**	2,400,000
Total Estimated Revenue	\$2,400,000
Net with Revenues	-

\* The Virginia Department of Environmental Quality issued the County's new MS4 permit in June 2013. This permit is significantly more stringent than the previous permit and includes quantitative pollution reduction requirements for the Chesapeake Bay Total Maximum Daily Load (TMDL) — a pollution budget for the Bay. The 'Environmental Quality' projects in the Capital Improvement Program (CIP) are key components of the County's strategy to comply with the pollution reduction requirements for the Chesapeake Bay TMDL.

\*\* The current Sanitary District Tax of \$0.013 per \$100 of assessed real property value is not increasing. For CY 2016, it is estimated to generate a total of \$9,351,470 in revenue, of which \$2,400,000 represents the portion of the annual revenue directed towards capital projects in the budget.

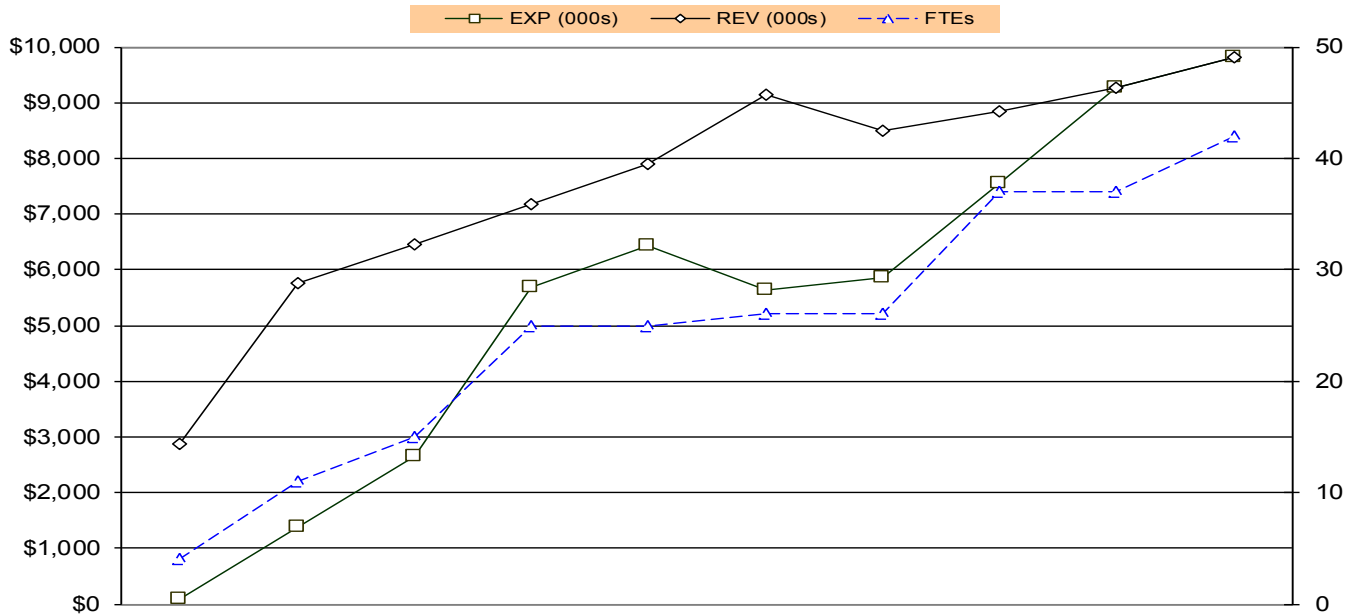
**STORMWATER MANAGEMENT FUND  
FUND STATEMENT**

	FY 2015 ACTUAL	FY 2016 ADOPTED	FY 2016 RE-ESTIMATE	FY 2017 ADOPTED
<b>ADJUSTED BALANCE, JULY 1</b>				
Reserve	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000
Capital Reserve	18,574,165	-	19,849,762	18,817,018
<b>TOTAL BALANCE</b>	<b>20,074,165</b>	<b>1,500,000</b>	<b>21,349,762</b>	<b>20,317,018</b>
<b>REVENUE</b>				
Sanitary District Tax (\$0.013 real estate tax)	8,631,383	9,021,950	9,095,280	9,351,470
Grants	63,044	-	-	-
Fines & Fees	138,592	250,000	250,000	450,000
<b>TOTAL REVENUE</b>	<b>8,833,019</b>	<b>9,271,950</b>	<b>9,345,280</b>	<b>9,801,470</b>
<b>TOTAL REVENUE &amp; BALANCE</b>	<b>28,907,184</b>	<b>10,771,950</b>	<b>30,695,042</b>	<b>30,118,488</b>
<b>EXPENSES</b>				
Operating and Maintenance	6,193,275	6,378,024	6,378,024	7,377,370
Capital Projects	1,364,147	2,893,926	4,000,000	2,400,000
Transfer to Other Funds	-	-	-	24,100
<b>TOTAL EXPENSES</b>	<b>7,557,422</b>	<b>9,271,950</b>	<b>10,378,024</b>	<b>9,801,470</b>
<b>BALANCE, JUNE 30</b>	<b>21,349,762</b>	<b>1,500,000</b>	<b>20,317,018</b>	<b>20,317,018</b>
Reserve	1,500,000	1,500,000	1,500,000	1,500,000
Capital Reserve	19,849,762	-	18,817,018	18,817,018
<b>TOTAL BALANCE</b>	<b>\$21,349,762</b>	<b>\$1,500,000</b>	<b>\$20,317,018</b>	<b>\$20,317,018</b>

**Notes:**

- (1) The FY 2016 re-estimate is the current projection of expenses and revenues.
- (2) The change in Fund Balance from FY 2015 to FY 2016 re-estimate is due to anticipated expenditures and/or encumbrances of funds for ongoing capital projects.
- (3) FY 2016 re-estimated expenses budget includes amounts set aside for stormwater master planning evaluation, inspection, monitoring, and capital projects that were carried over from FY 2015 ending balances.

EXPENDITURE, REVENUE, AND FULL-TIME EQUIVALENT TRENDS



	FY 2008 Actual	FY 2009 Actual	FY 2010 Actual	FY 2011 Actual	FY 2012 Actual	FY 2013 Actual	FY 2014 Actual	FY 2015 Actual	FY 2016 Adopted Budget	FY 2017 Adopted Budget
<b>EXP (000s)</b>	\$81	\$1,378	\$2,661	\$5,685	\$6,427	\$5,627	\$5,868	\$7,557	\$9,272	\$9,801
<b>REV (000s)</b>	\$2,882	\$5,764	\$6,458	\$7,173	\$7,896	\$9,136	\$8,492	\$8,833	\$9,272	\$9,801
<b>FTEs</b>	4.00	11.00	15.00	25.00	25.00	26.00	26.00	37.00	37.00	42.00

- The Stormwater Management Fund was established by the County Board in CY 2008 by adopting a Sanitary District Tax of \$0.01 per \$100 of assessed real property value. In CY 2010 the Sanitary District tax rate was increased to \$0.013 per \$100 of assessed real property value.

Fiscal Year	Description	FTEs
FY 2009	<ul style="list-style-type: none"> <li>▪ Stormwater Fund was established for the FY 2009 budget by increasing the real estate tax by \$0.01 in CY 2008, generating \$5,764,396 in FY 2009. Since the ad valorem tax applied to the June 2008 real estate payment, an additional \$2,881,938 in revenue was generated in FY 2008 for the Stormwater Management Fund. Any unspent balances in FY 2008 were carried over to FY 2009 in the form of fund balance.</li> <li>▪ Seven new positions were added to the Stormwater Fund in FY 2009, in addition to the 4.0 FTE added in FY 2008 as part of a supplemental appropriation.</li> <li>▪ Non-personnel expenditures increased to reflect increased operating expenses to support the seven new FTEs (\$1,253,606), and proposed capital expenses (\$3,674,000) increased in accordance with the County Board approved Stormwater Management Plan.</li> </ul>	7.0
FY 2010	<ul style="list-style-type: none"> <li>▪ Personnel budget includes the addition of 3.0 FTEs – a Planner, a Program Coordinator and a Construction Management Specialist. In addition, a Planner position (1.0 FTE) was transferred from the General Fund to the Stormwater Management Fund.</li> <li>▪ Non-personnel operating decreases (\$414,883) due to the elimination of one-time costs that were included in the FY 2009 budget.</li> </ul>	4.0
FY 2011	<ul style="list-style-type: none"> <li>▪ The County Board adopted a \$0.003 tax increase (\$1,643,114) to the Stormwater Fund to cover the transfer of Stormwater costs in the General Fund to the Stormwater Fund. The increase in expenditures covers the General Fund related personnel and operating costs (10.0 FTEs, \$1,346,963) with the balance of expenditures being allocated to Stormwater Capital expenses and reserves (\$296,151).</li> </ul>	10.0
FY 2012	<ul style="list-style-type: none"> <li>▪ Non-personnel expenses increase to cover maintenance of stormwater quality retrofits (\$203,886).</li> <li>▪ Funding for capital projects increases (\$335,837) in FY 2012 as a result of a projected increase in revenue due to higher real estate assessments.</li> <li>▪ Revenue increases due to higher real estate assessments (\$541,764).</li> </ul>	
FY 2013	<ul style="list-style-type: none"> <li>▪ Added an Environmental Planner to address the increased stormwater site <b>plan reviews and workload related to the County's MS4 stormwater permit</b> (1.0 FTE; \$107,537).</li> <li>▪ Non-personnel expenses increase to cover maintenance for stream restoration projects (\$20,000), creation of a stream and storm sewer monitoring network (\$100,000), and an increase in the operating contingent (\$107,615).</li> <li>▪ Funding for capital projects increases (\$45,556) as a result of a projected increase in revenue due to higher real estate assessments.</li> </ul>	1.0

Fiscal Year	Description	FTEs
	<ul style="list-style-type: none"> <li>▪ Revenue increases due to higher real estate assessments (\$456,488).</li> </ul>	
FY 2014	<ul style="list-style-type: none"> <li>▪ Non-personnel expenses increase based on higher contract costs anticipated with the new MS4 permit (\$89,726), an adjustment to the annual expense for the maintenance and replacement of County vehicles <b>(\$6,019), funding the County's share of the Northern Virginia Regional Commission's work on Four Mile Run (\$60,156) which was previously funded by the General Fund, higher administrative overhead contributions to the General Fund based on prior years' actual (\$100,000), and other changes itemized below. This is partially offset by a reduction in operating contingency (\$130,824).</b></li> <li>▪ Funding for capital projects decrease (\$461,035) in FY 2014 as a result of higher operating expenses and transfer of projects previously supported in the General Fund.</li> <li>▪ Revenues increase (\$2,000) due to a slight increase in the projected real estate assessments.</li> <li>▪ Increase Inter-Department Charges for the reimbursement to the General Fund for a portion of the street sweeping program costs (\$240,000).</li> <li>▪ Transfer of the contribution to Arlingtonians for a Clean Environment (ACE) from the General Fund (\$69,705).</li> </ul>	
FY 2015	<ul style="list-style-type: none"> <li>▪ Added personnel for stormwater management regulations. The 11 positions are a critical foundational step for stormwater program delivery and compliance.</li> <li>▪ Non-personnel increases primarily due to an increase in inter-departmental charges for overhead (\$60,364), operating expenses related to the new FTEs (\$67,643), and reimbursement of a portion of the street sweeping program costs (\$50,896), which is partially offset by an adjustment to the annual expense for maintenance and replacement of County vehicles (\$64,059).</li> <li>▪ Funding for capital projects decrease (\$1,022,970) in FY 2015 as a result of adding 11.0 FTEs and other personnel expense increases.</li> <li>▪ Revenues increase due to a projected increase in real estate assessment values (\$569,200).</li> </ul>	11.0
FY 2016	<ul style="list-style-type: none"> <li>▪ Non-personnel increases primarily due to an increase in inter-departmental charges for overhead (\$20,714) and an adjustment to the annual expense for maintenance and replacement of County vehicles (\$89,070).</li> <li>▪ Revenues increase due to a projected increase in real estate assessment values (\$450,750) and fees from site plan review (\$250,000).</li> </ul>	
FY 2017	<ul style="list-style-type: none"> <li>▪ Added personnel for stormwater management regulations. The five positions (\$628,983) are a critical foundational step for stormwater program delivery and compliance.</li> <li>▪ Non-personnel increases due to the transfer of the responsibility of new tree planting from DRP to the Stormwater Management Fund (\$205,000).</li> </ul>	5.0

Fiscal Year	Description	FTEs
	<ul style="list-style-type: none"><li>▪ Revenues increase due to a projected increase in real estate assessment values (\$329,520) and fees from sediment/erosion control plan review (\$200,000).</li></ul>	