

*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**

- 8<sup>th</sup> Street South (construction completed FY 2015)
- Windy Run stream restoration project (construction expected to begin FY 2016)
- Donaldson Run Tributary B stream restoration project (construction expected to begin FY 2017)
- Four Mile Run Tidal Restoration Project (construction expected to begin FY 2016)
- Williamsburg Boulevard median I watershed retrofit (construction expected to begin FY 2016)
- Williamsburg Boulevard median II watershed retrofit (construction expected to begin FY 2017)
- Ballston Pond retrofit project (construction expected to begin FY 2016)
- Additional watershed retrofit projects in design include: John Marshall Drive, North Kensington Street, 11<sup>th</sup> Street North, Walter Reed Drive near Columbia Pike, North Sycamore Street, Patrick Henry Drive at 20<sup>th</sup> Street, and the northside leaf storage site

### **Stormwater Infrastructure**

- Sycamore at 24<sup>th</sup> Street North (final design underway, construction anticipated Winter 2015-2016)
- West Little Pimmit Run (Phase I & II final design underway, construction anticipated Winter 2015-2016)
- North Harrison Street at Williamsburg Boulevard storm sewer project (rerouted drainage from Williamsburg Middle School completed Fall 2014)
- Lower Long Branch at Columbia Pike culvert extension (construction underway as part of VDOT project)
- Spout Run – 18<sup>th</sup> Street North between North Utah and North Upton and 16<sup>th</sup> Street North and North Taylor Street to 19<sup>th</sup> Road North (preliminary design underway)

- 9<sup>th</sup> Street North between North Liberty Street and North Livingston Street (final design completed, construction anticipated Spring 2015)

#### **Stormwater Infrastructure Maintenance**

- Seven projects to replace 522 linear feet of corrugated metal pipe with reinforced concrete pipe or high density polyethylene pipe completed FY 2015. Six projects to replace 243 linear feet of corrugated metal pipe with reinforced concrete pipe underway in FY 2016.
- Two projects to install 213 feet of storm sewer in the public right of way or public easements to address local drainage issues completed FY 2015. Four projects to install approximately 1500 linear feet of storm sewers to be constructed in FY 2016.
- Three projects to install 625 linear feet of underdrains to address drainage issues associated with groundwater and sump pump water in the public right of way constructed in FY 2015. Two projects to install approximately 670 linear feet to address drainage issues associated with groundwater and sump pump water in the public right of way constructed in FY 2016, with four more projects anticipated.

The following technical studies are also underway as called for in the adopted Stormwater Master Plan update:

- 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 2016 adopted expenditure budget for the Stormwater Management Fund is \$9,271,950, an eight percent increase from the FY 2015 adopted budget. The FY 2016 adopted budget reflects:

- ↓ Personnel decreases due to staff turnover and the lower cost of salaries and benefits than anticipated for new positions added in FY 2015, as well as adjustments to retirement contributions based on current actuarial projections; partially offset by employee step increases and an increase in the County's cost for employee health insurance.
- ↑ Non-personnel increases 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).
- ↑ Capital cost increases due to an increase in revenue as a result of the increase in the CY 2015 real estate assessment tax base. These additional funds will be allocated to projects consistent with the CIP and Stormwater Master Plan.
- ↑ Revenue increases due to the increase in the CY 2015 real estate assessment tax base (\$450,750).
- ↑ Revenue increases due to fees from sine plan review (\$250,000).
- 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 2014 Actual	FY 2015 Adopted	FY 2016 Adopted	% Change '15 to '16
Personnel	\$2,842,722	\$4,032,284	\$3,988,425	-1%
Non-Personnel	2,151,041	2,279,815	2,389,599	5%
Capital	874,067	2,259,101	2,893,926	28%
<b>Total Expenditures</b>	<b>5,867,830</b>	<b>8,571,200</b>	<b>9,271,950</b>	<b>8%</b>
<b>Total Revenues</b>	<b>8,491,931</b>	<b>8,571,200</b>	<b>9,271,950</b>	<b>8%</b>
<b>Change in Fund Balance</b>	<b>\$2,624,101</b>	<b>-</b>	<b>-</b>	<b>-</b>
Permanent FTEs	26.00	37.00	37.00	
Temporary FTEs	-	-	-	
<b>Total Authorized FTEs</b>	<b>26.00</b>	<b>37.00</b>	<b>37.00</b>	

**CAPITAL PROJECTS SUMMARY**

<b>Stormwater Management - FY 2016</b>	
<b>Environmental Quality Projects *</b>	
1. Williamsburg Blvd median II retrofit	\$78,617
2. South Walter Reed Drive watershed retrofit	\$38,040
3. Windy Run stream restoration	\$101,441
4. Ballston Pond watershed retrofit	\$557,926
5. North Kensington Street retrofit	\$44,380
6. John Marshall Drive median retrofit	\$50,721
7. N Sycamore Street median retrofit	\$55,793
8. Four Mile Run Tidal Restoration Project	\$469,165
Environmental Quality Projects subtotal =	\$1,396,083
<b>Infrastructure Projects</b>	
1. Lower Long Branch flood risk reduction project	\$1,290,000
2. Sycamore at 24 <sup>th</sup> Street North	\$56,083
3. West Little Pimmit Run Phases I & II	\$50,000
6. Maintenance Capital: Storm Sewer rehabilitation/replacement	\$101,760
Infrastructure Projects subtotal =	\$1,497,843
<b>TOTAL =</b>	<b>\$2,893,926</b>
<b>Revenue</b>	
Sanitary District Tax**	\$2,893,926
<b>Total Estimated Revenue</b>	<b>\$2,893,926</b>
<b>Net with Revenues</b>	<b>-</b>

\* 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.

**STORMWATER MANAGEMENT FUND**  
**FUND SUMMARY**

\*\* The current Sanitary District Tax of \$0.013 per \$100 of assessed real property value is not proposed to increase. For CY 2015, it is estimated to generate a total of \$9,021,950 in revenue, of which \$2,893,926 represents the portion of the annual revenue directed towards capital projects in the budget.

	FY 2014 ACTUAL	FY 2015 ADOPTED	FY 2015 RE-ESTIMATE	FY 2016 ADOPTED
<b>ADJUSTED BALANCE, JULY 1</b>				
Reserve	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000
Capital Reserve	15,950,064	-	18,574,165	-
<b>TOTAL BALANCE</b>	<b>17,450,064</b>	<b>1,500,000</b>	<b>20,074,165</b>	<b>1,500,000</b>
<b>REVENUE</b>				
Sanitary District Tax (\$0.013 real estate tax)	8,331,275	8,571,200	8,571,200	9,021,950
Grants	149,606	-	-	-
Fines & Fees	11,050	-	250,000	250,000
<b>TOTAL REVENUE</b>	<b>8,491,931</b>	<b>8,571,200</b>	<b>8,821,200</b>	<b>9,271,950</b>
<b>TOTAL REVENUE &amp; BALANCE</b>	<b>25,941,995</b>	<b>10,071,200</b>	<b>28,895,365</b>	<b>10,771,950</b>
<b>EXPENSES</b>				
Operating and Maintenance	4,993,763	6,312,099	6,674,140	6,378,024
Capital Projects	874,067	2,259,101	20,721,225	2,893,926
<b>TOTAL EXPENSES</b>	<b>5,867,830</b>	<b>8,571,200</b>	<b>27,395,365</b>	<b>9,271,950</b>
<b>BALANCE, JUNE 30</b>	<b>20,074,165</b>	<b>1,500,000</b>	<b>1,500,000</b>	<b>1,500,000</b>
Reserve	1,500,000	1,500,000	1,500,000	1,500,000
Capital Reserve	18,574,165	-	-	-
<b>TOTAL BALANCE</b>	<b>\$20,074,165</b>	<b>\$1,500,000</b>	<b>\$1,500,000</b>	<b>\$1,500,000</b>

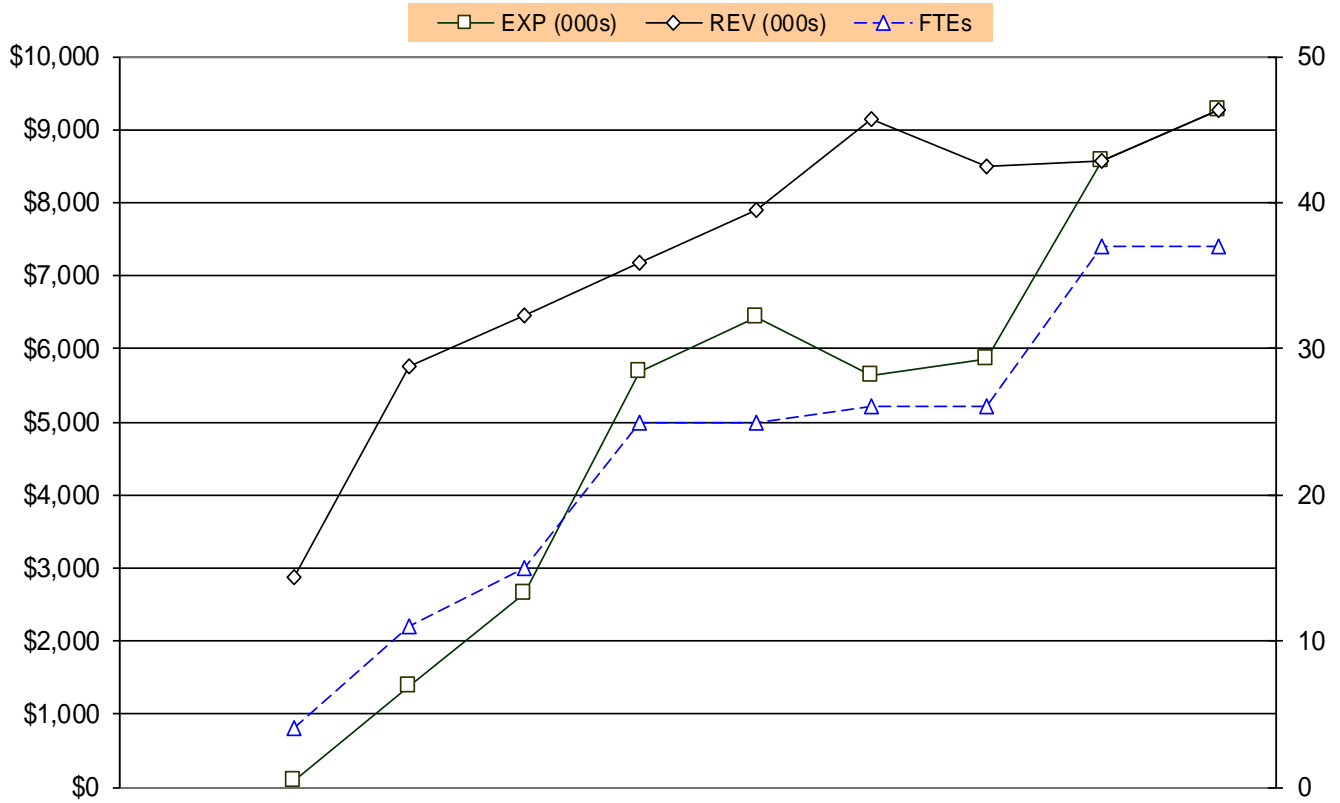
Notes:

(1) The FY 2015 re-estimate is the current projection of expenses and revenues.

(2) The change in Fund Balance from FY 2014 to FY 2015 re-estimate is due to anticipated expenditures and/or encumbrances of funds for ongoing capital projects.

(3) FY 2015 re-estimated expenses budget includes amounts set aside for stormwater master planning evaluation, inspection, monitoring, and capital projects that were carried over from FY 2014 ending balances.

**EXPENDITURE, REVENUE, AND FULL-TIME EQUIVALENT TRENDS**



	FY 2007 Actual	FY 2008 Actual	FY 2009 Actual	FY 2010 Actual	FY 2011 Actual	FY 2012 Actual	FY 2013 Actual	FY 2014 Actual	FY 2015 Adopted Budget	FY 2016 Adopted Budget
<b>EXP (000s)</b>		\$81	\$1,378	\$2,661	\$5,685	\$6,427	\$5,627	\$5,868	\$8,571	\$9,272
<b>REV (000s)</b>		\$2,882	\$5,764	\$6,458	\$7,173	\$7,896	\$9,136	\$8,492	\$8,571	\$9,272
<b>FTEs</b>		4.00	11.00	15.00	25.00	25.00	26.00	26.00	37.00	37.00

- 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 plan reviews and workload related to the County's MS4 stormwater permit (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> </ul>	1.0

Fiscal Year	Description	FTEs
	<ul style="list-style-type: none"> <li>▪ Funding for capital projects increases (\$45,556) 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 (\$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 (\$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).</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>	