

*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 implementation of the County's Municipal Separate Storm Sewer System (MS4) permit.
- Develop a comprehensive update of the County's Stormwater Master Plan, with County Board adoption expected in 2013.
- Implement critical infrastructure and environmental quality projects.
- 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 has been made on the design and construction of several important stormwater projects. Examples of work completed or currently underway include the following:

#### **Environmental Quality**

- Patrick Henry Drive - first 'green streets' watershed retrofit project in County (constructed, 3rd Quarter 2011)
- Arlington County Trades Center comprehensive water quality retrofits (constructed 2011)
- Windy Run stream restoration project (construction expected to begin 2013)
- Donaldson Run Tributary B stream restoration project (95% design completed, 2nd Quarter 2012; construction expected to begin 2013)
- Williamsburg Boulevard median watershed retrofit (100% design completed, 1st Quarter 2012; construction expected to begin 2013)
- Ballston Pond retrofit project, providing wetland restoration and enhanced water quality treatment for over 300 acres that drain to Four Mile Run, as well as improved aesthetics, interpretation, and wildlife habitat. (100% design completed, 3rd Quarter 2012; invasive plant management work initiated, 4<sup>th</sup> Quarter 2012, construction 2013)
- Final designs for Williamsburg Medians (Phase II) and 8<sup>th</sup> Street S anticipated, 1<sup>st</sup> Quarter 2013; construction 2013.
- Additional watershed retrofit projects in design include John Marshall Drive, Kensington St N, 16<sup>th</sup> Street S street bioretention projects and 11<sup>th</sup> St Park bioretention.

#### **Stormwater Infrastructure**

- 23rd Street North drainage improvements (construction completed, 2011)
- Sycamore at 24th Street North (design underway, construction anticipated 2013)
- West Little Pimmit Run (Phase I & II design underway)
- 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 (design underway)
- 9<sup>th</sup> Street North between North Liberty Street and North Livingston Street (design underway)

- John Marshall Drive at Lee Highway (construction started)

#### Stormwater Infrastructure Maintenance

- 85 linear foot stone wall along Four Mile Run at North Wyoming Street to address stream erosion
- 135 linear feet of relined storm sewer in the 3100 block of Military Road

The following technical studies are also underway in support of the Stormwater Master Plan update:

- Storm sewer capacity analysis to prioritize system capacity and drainage improvements (Priority drainage basin modeling and analysis complete.)

#### SIGNIFICANT BUDGET CHANGES

The FY 2014 proposed expenditure budget for the Stormwater Fund is \$8,002,000, a less than one percent increase from the FY 2013 adopted budget. The FY 2014 proposed budget reflects:

- ↑ Personnel increases due to employee step increases, a three percent increase in the County's cost for employee health insurance, and adjustments to retirement contributions based on current actuarial projections.
- ↑ 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).
- ↓ 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.
- ↑ Revenues increase (\$2,000) due to a slight increase in the projected real estate assessments.
  
- ↑ Transfer of the regional contribution to Arlingtonians for a Clean Environment (ACE) from the General Fund (\$69,705).  
IMPACT: Less funding will be available for stormwater capital and maintenance projects. There is no impact to ACE services as this is just a transfer of the funding source. The Stormwater Fund will now fund this contribution since ACE's tasks align more closely with the County's stormwater and watershed management program goals and objectives.
- ↑ Increase Inter-Department Charges for the reimbursement to the General Fund for a portion of the street sweeping program costs (\$240,000).  
IMPACT: The street sweeping program will continue to operate as normal. Street sweeping supports the County's Municipal Separate Storm Sewer System (MS4) permit through removal of sediments and associated pollutants that accumulate on streets before they wash into streams. Less funding will be available for stormwater capital and maintenance projects.

**PROGRAM FINANCIAL SUMMARY**

	FY 2012 Actual	FY 2013 Adopted	FY 2014 Proposed	% Change '13 to '14
Personnel	\$2,609,140	\$2,526,705	\$2,554,958	1%
Non-Personnel	2,671,058	1,730,189	2,164,971	25%
Capital	1,146,934	3,743,106	3,282,071	-12%
<b>Total Expenditures</b>	<b>6,427,132</b>	<b>8,000,000</b>	<b>8,002,000</b>	<b>-</b>
<b>Total Revenues</b>	<b>7,895,616</b>	<b>8,000,000</b>	<b>8,002,000</b>	<b>-</b>
<b>Change in Fund Balance</b>	<b>\$1,468,484</b>	<b>-</b>	<b>-</b>	<b>-</b>
Permanent FTEs	25.00	26.00	26.00	
Temporary FTEs	-	-	-	
<b>Total Authorized FTEs</b>	<b>25.00</b>	<b>26.00</b>	<b>26.00</b>	

**CAPITAL PROJECTS SUMMARY**

<b>Stormwater Management - FY 2014</b>		
<b>Environmental Quality Projects *</b>		
1. Ballston Pond watershed retrofit		\$1,215,000
2. Donaldson Run Tributary B stream restoration		452,000
3. Windy Run stream restoration		170,000
4. Williamsburg medians II watershed retrofit		121,000
5. John Marshall Drive median watershed retrofit		102,000
6. N. Kensington St. watershed retrofit		87,000
7. 16 <sup>th</sup> St. S watershed retrofit		51,000
8. N. Patrick Henry Dr. & 20th St. N. watershed retrofit (design)		11,000
Environmental Quality Projects subtotal =		\$2,209,000
<b>Infrastructure Projects</b>		
1. Spout Run – 18 <sup>th</sup> St. N. between N. Utah & N. Upton (design)		\$678,071
2. Spout Run – 16 <sup>th</sup> St. N. & N. Taylor St. to 19 <sup>th</sup> Rd N. (design)		170,000
3. Maintenance Capital: Four Mile Run flood wall repair		170,000
4. Maintenance Capital: Storm Sewer rehabilitation/replacement		14,000
5. Maintenance Capital: Stormwater Master Plan – outfall structure repairs		41,000
Infrastructure Projects subtotal =		\$ 1,073,071
<b>TOTAL =</b>		<b>\$3,282,071</b>
<b>Revenue **</b>		
Sanitary District Tax		\$3,282,071
<b>Total Estimated Revenue</b>		<b>\$3,282,071</b>
<b>Net with Revenues</b>		<b>-</b>

\* The County's MS4 permit has been under an administrative extension since its expiration in August 2007 as the State, Environment Protection Agency (EPA), and Virginia local governments work to come to agreement on the regulatory requirements of the next round of MS4 permits in the State and the specific requirements of the Chesapeake Bay Total Maximum Daily Load (TMDL). The Bay TMDL establishes a pollution budget that was issued by EPA in December 2010, including pollutant reduction allocations for each State. Pollutant reduction allocations for local governments

will be enforced through MS4 permits. The 'Environmental Quality' projects in the Capital Improvement Program (CIP) are intended to support the County's existing MS4 permit requirements but also anticipate the more stringent and aggressive requirements of the Bay TMDL. Intensive permit negotiations over Arlington's permit occurred during 2012. It is expected that the permit will be issued in early to mid-2013, depending upon whether EPA and the environmental advocacy community are satisfied with the permit provisions.

\*\* The Sanitary District Tax of \$0.013 per \$100 of assessed real property value for FY 2014 is estimated to generate \$8.0 million. Of this amount, approximately \$4.7 million is budgeted for operating expenses and \$3.3 million is budgeted for capital. The Watershed Management Fund is currently in a separate fund and any U.S. Army Corps of Engineers cost share funding related to the Four Mile Run project will be a direct payment from them to the third party. As such, the operating statement does not include these revenue sources as part of the Stormwater Management Fund.

**PERFORMANCE MEASURES**

**Stormwater Management**

Critical Measures	FY 2009 Actual	FY 2010 Actual	FY 2011 Actual	FY 2012 Actual	FY 2013 Estimate	FY 2014 Estimate
Number of environmental education and outreach campaigns conducted	6	6	9	6	7	7
Site plans and building permit applications reviewed for CBPO compliance and sustainable environmental practices	94	97	199	183	265	265
Stormwater facility inspections and illicit discharge investigations completed, as required by MS4 Permit	103	87	87	137	170	170

Supporting Measures	FY 2009 Actual	FY 2010 Actual	FY 2011 Actual	FY 2012 Actual	FY 2013 Estimate	FY 2014 Estimate
Catch basins cleaned	401	684	1,389	1,297	500	500
Storm sewer linear feet inspected	256,039	416,017	345,788	316,385	400,000	400,000

- The volume of site plans and building permit applications reviewed increased beginning in FY 2011 due to many buildings going through their green building certifications and inspections, as well as increased building permit activity. Site plan and building permit review figures reflect both Green Building and Chesapeake Bay Preservation Ordinance (CBPO) requirements. The more stringent compliance requirements for the CBPO implemented during FY 2012 will result in increased plan reviews and stormwater management facility inspections beginning in FY 2013.
- The number of reported illicit discharge incidents increased in FY 2012 (85 incidents). With greater community awareness and more stringent inspection requirements under Arlington's MS4 permit, it is expected that this workload will continue to rise.

- Fluctuations in the number of catch basins cleaned and the number of storm sewer linear feet inspected is due to the impact of weather events on the Water, Sewer and Streets crews as well as the amount of capital projects funded in a given year, as that will impact the workload and availability of the crews.

**STORMWATER MANAGEMENT FUND**  
**FUND STATEMENT**

	FY 2012 ACTUAL	FY 2013 ADOPTED	FY 2013 RE-ESTIMATE	FY 2014 PROPOSED
<b>ADJUSTED BALANCE, JULY 1</b>				
Reserve	\$1,358,000	\$1,500,000	\$1,358,000	\$1,500,000
Capital Reserve	11,114,847	-	12,583,331	-
<b>TOTAL BALANCE</b>	<b>12,472,847</b>	<b>1,500,000</b>	<b>13,941,331</b>	<b>1,500,000</b>
<b>REVENUE</b>				
Sanitary District Tax (\$0.013 real estate tax)	7,853,960	8,000,000	7,953,700	8,002,000
Grants	41,656	-	1,227,686	-
<b>TOTAL REVENUE</b>	<b>7,895,616</b>	<b>8,000,000</b>	<b>9,181,386</b>	<b>8,002,000</b>
<b>TOTAL REVENUE &amp; BALANCE</b>	<b>20,368,463</b>	<b>9,500,000</b>	<b>23,122,717</b>	<b>9,502,000</b>
<b>EXPENSES</b>				
Operating and Maintenance	4,980,198	4,256,894	5,675,709	4,719,929
Capital Projects	1,146,934	3,743,106	15,947,008	3,282,071
<b>TOTAL EXPENSES</b>	<b>6,127,132</b>	<b>8,000,000</b>	<b>21,622,717</b>	<b>8,002,000</b>
<b>TRANSFERS</b>				
Transfer to Pay-As-You-Go-Capital Fund	300,000	-	-	-
<b>TOTAL TRANSFERS</b>	<b>300,000</b>	<b>-</b>	<b>-</b>	<b>-</b>
<b>TOTAL EXPENSES AND TRANSFERS</b>	<b>6,427,132</b>	<b>8,000,000</b>	<b>21,622,717</b>	<b>8,002,000</b>
<b>BALANCE, JUNE 30</b>	<b>13,941,331</b>	<b>1,500,000</b>	<b>1,500,000</b>	<b>1,500,000</b>
Reserve	1,358,000	1,500,000	1,500,000	1,500,000
Capital Reserve	12,583,331	-	-	-
<b>TOTAL BALANCE</b>	<b>\$13,941,331</b>	<b>\$1,500,000</b>	<b>\$1,500,000</b>	<b>\$1,500,000</b>

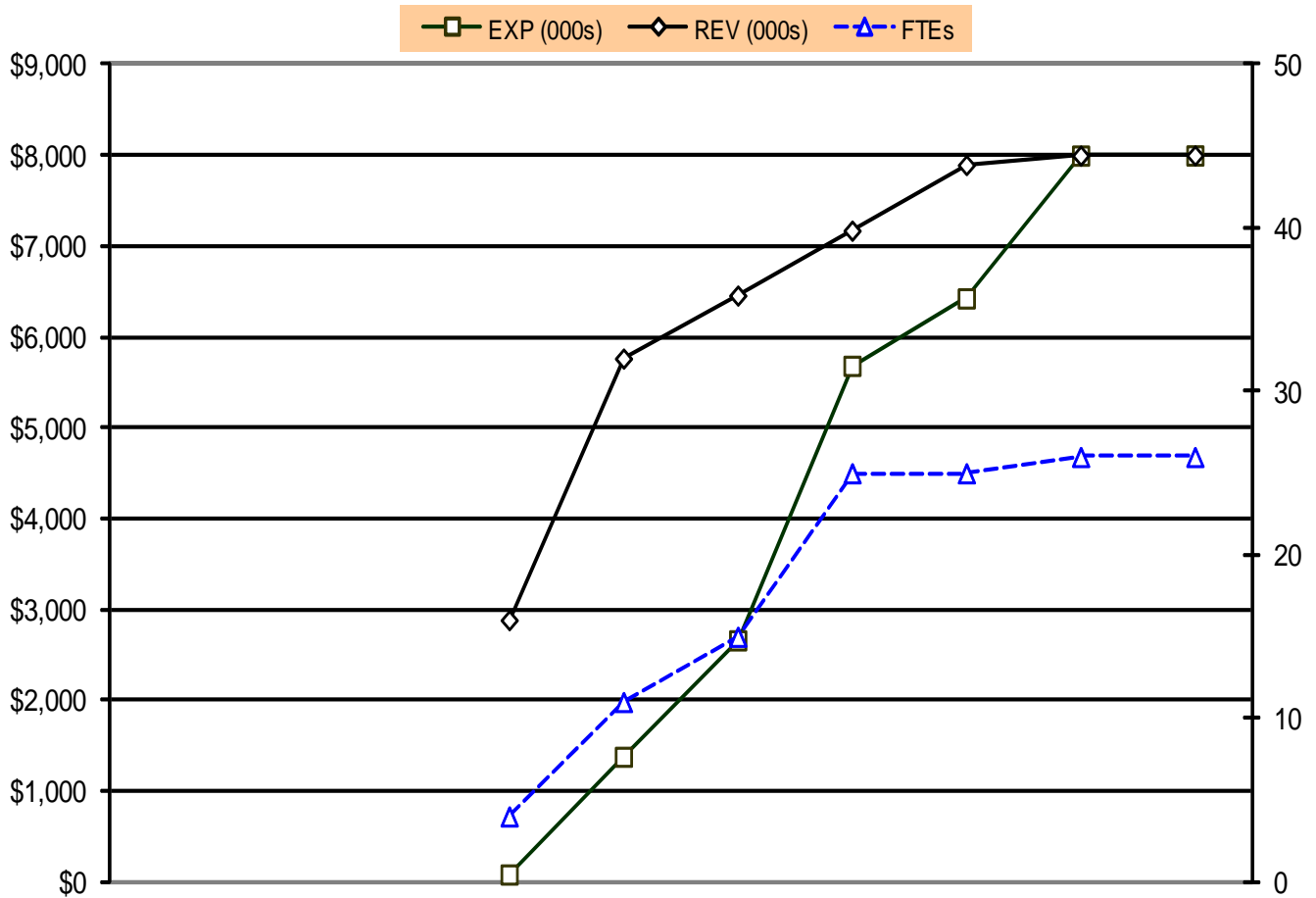
Notes:

(1) The FY 2013 Re-estimate is the current projection of expenses and revenues.

(2) The change in Fund Balance from FY 2012 to FY 2013 Re-estimate is due to anticipated expenditures and/or encumbrances of funds for ongoing capital projects.

(3) FY 2013 re-estimated expenses budget includes amounts set aside for stormwater master planning evaluation, inspection, monitoring and capital projects that were carried over from FY 2012 ending balances.

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



	FY 2005 Actual	FY 2006 Actual	FY 2007 Actual	FY 2008 Actual	FY 2009 Actual	FY 2010 Actual	FY 2011 Actual	FY 2012 Actual	FY 2013 Adopted Budget	FY 2014 Proposed Budget
<b>EXP (000s)</b>				\$81	\$1,378	\$2,661	\$5,685	\$6,427	\$8,000	\$8,002
<b>REV (000s)</b>				\$2,882	\$5,764	\$6,458	\$7,173	\$7,896	\$8,000	\$8,002
<b>FTEs</b>				4.00	11.00	15.00	25.00	25.00	26.00	26.00

- 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.

**STORMWATER MANAGEMENT FUND**  
TEN-YEAR HISTORY

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> <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

**STORMWATER MANAGEMENT FUND**  
TEN-YEAR HISTORY

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<b>Fiscal Year</b>	<b>Description</b>	<b>FTEs</b>
	▪ Revenue increases due to higher real estate assessments (\$456,488).	