

FAIRFAX COUNTY, VIRGINIA
Environmental Improvement Program (EIP)
Section B: Summary of Actions
Fiscal Year 2013

Prepared September 2011

NOTE: EACH EIP ACTION IS ASSIGNED A UNIQUE IDENTIFICATION NUMBER, BEGINNING WITH “EIP13” TO REFLECT THE FISCAL YEAR 2013 ORIENTATION OF THIS DOCUMENT. THE “EIP13” IS FOLLOWED BY A TWO-LETTER ABBREVIATION FOR THE THEME AREA UNDER WHICH THE ACTION IS LISTED (E.G., “GL” FOR “GROWTH AND LAND USE”). THE THEME DESIGNATION “GL” IS FOLLOWED BY A UNIQUE FISCAL YEAR IDENTIFICATION NUMBER BEGINNING WITH “07” TO INDICATE THE YEAR IN WHICH THE ACTION WAS FIRST INTRODUCED. THE FISCAL YEAR IDENTIFICATION NUMBER IS THEN FOLLOWED BY A UNIQUE ACTION NUMBER TO IDENTIFY THE ACTION IN THAT FISCAL YEAR. FINALLY, FOR EACH THEME, ACTIONS ARE IDENTIFIED AS BEING EITHER COMPLETED (CATEGORY A), UNDER WAY (CATEGORY B), OR NEW (CATEGORY C). ACTIONS THAT WERE COMPLETED IN THE PREVIOUS FISCAL YEAR EIP ARE SHOWN IN APPENDIX 3.

TWO EXAMPLES SHOWN BELOW ARE USED TO ILLUSTRATE THE NUMBERING SYSTEM. THE FIRST EXAMPLE SHOWS AN ONGOING AIR QUALITY AND TRANSPORTATION ACTION THAT WAS FIRST INTRODUCED IN THE FISCAL YEAR 2007 EIP (EIP07) AND CONTINUES TO BE ONGOING IN EIP13:

EIP13-AQ07-03(B): Ridesources Program

THE SECOND EXAMPLE SHOWS AN ENVIRONMENTAL STEWARDSHIP ACTION THAT WAS FIRST INTRODUCED IN EIP09 AND HAS NOT YET BEEN STARTED:

EIP13-ES09-15(C): Government Center Energy Project

I. GROWTH AND LAND USE (GL)

Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
GL-A. Completed Actions				
GL07-02(A): PRM Zoning District	District established in 2001; there are now 20 PRM Districts in the county. Consider adding vehicle sales in the PRM District as a special exception use. —Currently on the Priority 2 Zoning Ordinance Amendment Work Program	Existing staff resources	N/A	N/A
GL08-11(A): Urban Forestry Roundtable	Roundtable has been established and continues to meet. The Urban Forest Management Division is actively participating in this interjurisdictional forum supporting regional communication and support for tree preservation and management efforts.	Existing staff resources	N/A	N/A

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GL08-02(A): Development of the Integrated Parcel Lifecycle System (IPLS)	The IPLS data warehouse is now available to all county staff using GIS or Oracle tools. The IPLS data warehouse contains parcel-level information from a variety of land use-related databases. DPZ is building a module to summarize the nonresidential development pipeline, and DIT has been tasked with identifying an enterprise solution for meeting additional analysis and reporting needs.	The the planned database development is complete.	Initial funding has been provided for ancillary actions described in the “status” column.	N/A
GL-B. Actions Underway				
GL07-03(B): Area Plan Amendments and Subsequent Rezoning Supporting Transit-Oriented Development and the Provision of Housing in Employment Centers	Ongoing implementation—e.g., Area Plans Review process; Springfield Connectivity Study; Tysons Corner Transportation and Urban Design Study; Annandale study; Baileys Crossroads study; rezoning approvals	Annual cost for implementation represents a considerable portion of DPZ’s annual budget. Grant funds are being used for BRAC coordination efforts	No additional funds needed	N/A

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GL07-04(B): Planned Development District Zoning Ordinance Amendment (tree preservation and open space issues)	Draft proposals have been coordinated with a Planning Commission committee, ESI, NVBIA and various citizens groups. On Priority 1 list of the 2011 Zoning Ordinance Amendment Work Program	Existing staff resources	N/A	N/A
GL07-06(B): Pedestrian-Oriented Neighborhood Commerce: Plan Implementation	Continued efforts to implement and refine the Plan are anticipated	Part of the broader funding per GL07-03(B).	See GL07-03(B)	N/A
GL07-07(B): Adequate Infrastructure Legislation	County support for legislation in the past; efforts anticipated to continue	Existing staff resources	N/A	N/A
GL07-08(B): Review of Federal NEPA Reports and State Environmental Impact Reports	Ongoing	Existing staff resources, but reviews are sometimes extensive	N/A	N/A

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<p>GL07-09(B): Future Planned Development District Zoning Ordinance Amendment (expand number of uses allowed, as well as densities/intensities)</p>	<p>Split into two amendments: An amendment establishing a new Planned Tysons Corner Urban District was adopted by the Board on June 22, 2010. The new zoning district and the concurrently adopted amendments to the Comprehensive Plan allow for higher densities and intensities and implement the Tysons Comprehensive Plan recommendations. A second amendment, expected to be brought forward for consideration by the Board in the fall of 2011, will have a broader focus (PDC and PRM Districts).</p>	<p>Existing staff resources</p>	<p>N/A</p>	<p>N/A</p>
<p>GL07-10(B): Maintaining Neighborhood Character Zoning Ordinance Amendment (formerly Residential Compatibility Zoning Ordinance Amendment)</p>	<p>Amendment on Priority 1 list of the 2011 ZO Amendment Work Program. Amendment requiring that the grade used for the purposes of determining single family detached dwelling building height be the lower of the pre-existing or post development ground level adjacent to the building, whichever is lower, was adopted by the Board in September 2009. Staff reported on effectiveness of this amendment in January 2011.</p>	<p>Existing staff resources</p>	<p>N/A</p>	<p>N/A</p>

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GL08-01(B): Review Zoning Ordinance Parking Requirements in Transit-Oriented Developments	Study of alternative parking standards in TOD areas is being considered as part of a broader Transportation Demand Management program effort. Study completion anticipated in the near future, followed by Plan and/or Zoning Ordinance amendments. Preliminary study results helped inform parking decisions for the Plan and Zoning Ordinance amendments for Tysons Corner that were adopted on June 22, 2010. These amendments included the incorporation of parking maximums.	Consultant funding provided	N/A	N/A
GL08-05(B): Update the County's Planimetric Data Layer	Funding to update 25% annually for two years was allocated. The first quadrant (SE) has been completed and is now available in the GIS. The second quadrant (NE) commenced in November 2010; work should be completed in September 2011. Funding for the third quadrant has been provided; work on this quadrant should start in September 2011. Funding for the fourth quadrant remains uncertain.	Funds for the first three years (quadrants) have been approved.	An estimated \$350,000 per year is needed for a continual update of the county on a 4-year cycle (including the fourth quadrant for the first 4-year cycle).	N/A

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GL08-06(B): Mapping of Fairfax County’s Vegetation Resources	Mapping using 4-band imagery was not successful. Enhanced, 8-band imagery has been acquired. Success in the ability to use this imagery to delineate individual species will be evaluated; if this effort succeeds, community-level mapping using this imagery can be considered.	Enhanced imagery has been acquired.	TBD based on results of species delineation using 8-band imagery.	N/A
GL08-12(B): Consider Amending Article 13 of the Zoning Ordinance (Landscaping and Screening)	The Tree Conservation Ordinance and associated amendments (adopted in October 2008) partially address this recommendation. A comprehensive review of landscaping and screening provisions of the Zoning Ordinance is on the Priority 2 list of the 2011 Zoning Ordinance Amendment Work Program.	Existing staff resources	N/A	N/A
GL08-13(B): Support for Regional Land Use and Related Transportation Planning Initiatives	Ongoing – County staff provides support for a number of regional land use planning initiatives.	Existing staff resources	N/A	N/A

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<p>GL09-01(B): Consideration of Green Building Incentives for Private Sector Development</p>	<p>A Va. Constitutional amendment setting the stage for enabling legislation allowing property tax exemptions for green buildings was continued to 2011 in a House of Delegates committee, effectively starting the constitutional amendment process over again. Local consideration of this idea can be considered further if this effort is eventually successful and if enabling legislation is enacted.</p> <p>Property owners can qualify for a property tax exemption for the installation of solar energy equipment pursuant to §58.1-3661 of the Code of Virginia.</p> <p>The county’s site plan and building plan review processes provide for preferential timing of review for “green” plans. In addition, permitting fees are waived for the installation of solar energy equipment.</p>	<p>Existing staff resources, but tax incentives would have revenue implications</p>	<p>N/A</p>	<p>N/A</p>

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GL09-04(B): Tree Preservation and Canopy Replacement During the Development of County Facilities	Discussed in 2010 by a county staff workgroup, with recommendations presented to the BOS Environmental Committee in March 2011. Implementation of recommended practices and policies anticipated by the end of CY 2013.	Existing staff resources used in the review	None, but additional costs may be associated with new facilities	N/A
GL-C. New Actions				
GL09-02(C): Review Effectiveness of Agricultural and Forestal District Program in Preserving and Managing Sensitive Lands	Interagency coordination would be needed to identify possible changes to the A&F District process; follow-up with A&F District Advisory Committee would be anticipated.	Existing staff resources for initial coordination. Follow-up TBD	N/A	N/A
GL09-03(C): Strengthened Zoning Case Submission Requirements: Preliminary Utility Plan	On the Priority 2 list of the 2011 Zoning Ordinance Amendment Work Program.	Existing staff resources	N/A	N/A
GL09-05(C): Development of a County Green Building Program Through the Establishment of a Green Building Coordinator Position	It is recommended that the Green Building Coordinator position be housed within the County Executive's Office in order to ensure an appropriate level of oversight and authority for interagency coordination. Recommended grade is S-31.	Not funded	A total first-year cost of \$114,997 is needed to fund position at mid-point of grade.	I

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GL12-01(C): Evaluation of Implications of Plan Amendments	Staff evaluation is under way; a preliminary report is expected to be drafted by fall 2011.	Existing staff resources	N/A	N/A

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II. AIR QUALITY AND TRANSPORTATION (AQ)

Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
AQ-A. Completed Actions				
NONE				
AQ-B. Actions Underway				
AQ07-02(B): Employer Services Program	Initiated in 1997 to assist employers within Fairfax County to establish on-site Employee Transportation Projects to reduce single occupancy vehicle travel. A component of the regional Transportation Emissions Reduction Measures.	\$2,404,250	\$196,530 from VDOT and DOT staff support	I
AQ07-03(B): Ridesources Program	This program will continue at its current level, funded annually through a Virginia Department of Rail and Public Transportation (VDRPT) grant, local matching funds and supported by DOT Staff.	\$2,300,000	\$700,000 annually (\$560K VDRPT grant; \$140K in county sources)	I
AQ07-04(B): Transportation Benefits	This program received funding in FY 2009 to expand countywide for all County employees and increased the monthly allocation to \$115.00. Since FY 2010 the monthly allocation has been a maximum of \$120.00 to each participant. Funding level reflects the amount required for the average number of participants.	\$740,000	Up to \$300,000 annually in DOT budget, and DOT staff support	I
AQ07-05(B): Residential Traffic Administration Program	Through FY 11, Board of Supervisors approved 92 traffic calming actions on residential roads. * Update: FY 2011 Carryover funds of \$250,000 approved by the BOS.	\$1.2 million	\$300,000 annually (state funded) and DOT staff support	N/A

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AQ07-07(B): Priority Bus Stop Improvement Program (Title changed from: Bus Stop Inventory and Safety Recommendations Implementation)	The Bus Stop Inventory and Safety Study identified 344 priority bus stops that require safety and accessibility improvements. There are 156 bus stop improvements in various phases. 113 improvements are completed.	\$10.25 million	\$16.65 million	I
AQ07-08(B): Richmond Highway Public Transportation Initiative	Establishing major and minor transit centers; improving bus stops; establishing additional park-and-ride facilities; and significantly improving pedestrian safety and access to the transit facilities. Implementation of improvements identified in Phase II of the project is scheduled to continue in 2011 with a construction completion date of 2012.	Over \$30.0 million. Funding is derived from a variety of sources	\$25 million is projected to complete the initiative and DOT Staff Support.	I
AQ07-09(B): Air Quality Outreach	Continue to expand outreach efforts to educate residents and workers in the county to take voluntary actions that will improve the air quality in the region.	\$25,000 FY 2011 and 2012.	\$25,000 annually	I
AQ07-10(B): Dulles Corridor Metrorail	Extend Metrorail from the vicinity of West Falls Church Metrorail Station to Tysons Corner, Dulles Airport and Loudoun County. Phase I (to Wiehle Avenue) construction began March 2009; opening scheduled for late 2013. Phase II projected opening to Dulles is in early 2017.	\$2.64 billion for Phase I. Funding is derived from FTA Grants, Tax District revenue and Toll Road fees	Remaining capital cost for Phase II is \$2.66 billion; provided from a special tax district in the Dulles Corridor and Toll Revenue	N/A

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AQ07-11(B): Fleet User Forums	Virginia Clean Cities; MWCOG Electric Vehicle Forum; Technology and Maintenance Council; National Truck Equipment Association; three work groups of the Mid-Atlantic Diesel Collaborative	None	Existing Staff Resources	N/A
AQ07-14(B): Participation on the Metropolitan Washington Air Quality Committee (MWAQC)	Active participation by Board of Supervisors serving on Committee and county staff	None	Existing Staff Resources	N/A
AQ07-15(B): Evaluation and Purchase of Hybrid Drive and Electric Drive Vehicles	<p>Title updated to reflect inclusion of plug-in hybrid and pure electric drive vehicles. Purchasing production hybrids as scheduled replacements for conventional vehicles where mission and budget permit. Continuing evaluation of one PHEV (Prius conversion). Grant funding received for plug-in hybrid electric school bus, hybrid hydraulic refuse truck, five PHEV sedans and ten hybrid sedans. Seeking grant funding for further hybrid and electric vehicle and infrastructure exploration.</p> <p>* Supplemental funds of \$103,000 was for School bus, \$35,000 was for trash truck and \$238,540 is for electric vehicles through ARRA grant.</p>	\$238,540 grant funding for hybrid school bus, hybrid trash truck, 5 PHEV and 10 hybrid sedans from Energy Efficiency and Conservation Block Grant.	Seeking further grant funding for electric and hybrid exploration. Cost increment of \$11-24K each for PHEV and hybrid sedans. Incremental cost is \$103K for school bus; \$35K for trash truck. All are EECEBG funded.	N/A
AQ07-16(B): Support for Reductions in Ozone Transport	Coordination with MWAQC	N/A	Existing Staff Resources	N/A

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AQ07-18(B): Board of Supervisors Four-Year Transportation Plan	The Plan is multi-modal and includes projects for major roadways, pedestrian and spot improvements, and transit. In addition to the 2007 Transportation Bond Projects, this plan also includes a number of projects funded through partnerships with state, federal, and regional agencies. Burke Centre VRE Station parking garage opened in the summer of 2008. Over sixty projects have been completed including the West Ox Bus Operation Center.	\$165 million in county general obligation (G.O.) and DOT staff support.	\$32 million in federal (RSTP and CMAQ) funds. DOT staff support. The total funding is \$197 million.	I
AQ07-20(B): Fairfax County Transit Program	Service enhancements through implementation of new technologies, customer care initiatives and implementation of bus service such as “Richmond Highway. Express” (REX), as well as funding support for Metro and VRE system improvements and CUE bus service.	Ongoing	\$74 million for Fairfax Connector, \$98.3 million for Metrobus and Metrorail service, and \$5 million for VRE commuter rail service. All annual costs.	I
AQ07-22(C): Fuel Economy and Emissions Standards	Draft plan completed	N/A	N/A	N/A
AQ07-23(A): Periodic Assessment of Alternative Fuel Vehicle Technology	First edition completed summer of 2006.	None	No new staff required.	N/A

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AQ08-01(A): Regional Urban Forestry SIP Working Group	This group of state and local urban forestry officials from Virginia, Maryland and D.C. has been organized by MWCOG and has been tasked to identify a set of specific urban forestry practices that can be included as a credited measure in future Metropolitan Washington Air Quality Plans.	None	Existing staff resources now, may need future funding.	N/A
AQ08-04(B): Fire Equipment Diesel Exhaust Retrofit	Continuation of Diesel Retrofit Program. On hold pending identification of more cost effective measures than are currently available.	None	Estimated \$300,000	II
AQ08-05(B): Tree Planting at Governmental Building and Parking Facilities	This project shows several ways canopy shade can reduce ozone formation and energy usage. It provides educational signs to encourage adoption at private facilities. Adds about 500 trees and 20 signs to governmental buildings and parking lots. As of spring 2009, 384 trees have been planted on Fairfax County Government property toward this goal.	\$170,000	\$220,000	I
AQ08-06(B): Telework Initiative	The Board of Supervisors and the County Executive continue to champion telework. The goal is to continue to increase the number of Fairfax County employees who telework with a focus on Continuity of Operations.	Funds are contained in the departmental budgets of DIT, DHR, and DOT	Incorporated in departmental budgets	N/A

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AQ09-01(B): Transportation Funding Bill	The Northern Virginia transportation network is multi-modal, consisting of roads, transit, bicycle, pedestrian networks and two major airports. Within the next twenty five years funding from fees and taxes will provide increased road and transit capacity and better connections between activity centers, use technology for more efficient system operations, maintain the existing system for maximum performance and provide a multi-modal solution.	\$50 million per year through local fees and taxes. \$600 million from HB 2527 over 3 years	\$50 million annually (from newly implemented commercial real estate tax)	I
AQ09-02(B): Comprehensive Bicycle Initiative	Enhances bicycling as a commuter option. Addresses bike lanes and route maps, bike racks and lockers serving Fairfax Connector users, other bike-related facilities and outreach.	\$1,281,000 is available from various sources.	None	N/A
AQ10-01(B): Columbia Pike Rail Initiative	Advanced streetcar transit system connecting the Pentagon/Pentagon City/Crystal City area with Bailey's Crossroads.	\$18 million	Fairfax County's obligation is expected to be \$32M of the \$160M total capital cost and \$1M of the \$5M annual operating cost	I
AQ10-02(B): Reduce fuel consumption in heavy duty vehicles	Explore a series of measures to reduce idling and improve mechanical efficiencies in areas such as rolling and aerodynamic resistance and transmission shift scheduling.	\$27,500	Exploration with existing staff time. Cost to implement measures will be among the selection criteria.	N/A

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AQ11-01(B): Piezo Electric Generator Pilot Program	Parasitic energy harvesting demonstration to be installed in a walkway near a Tysons Corner Metro station.	None	None	N/A
AQ11-02(B): School Bus SCR Retrofit	All 32 retrofits are installed. Analysis of program to begin August 2011.	\$1.3M EPA grant and partner leveraged resources	None. Funded by federal grant.	N/A
<u>AQ12-01(B): Local and Regional Preparation for Commercially Available Plug-in Vehicles</u>	This action prepares county staff for introduction of plug-in vehicles (electric and plug-in hybrid electric) in the private sector in Fairfax County. Develops and implements a program for updating and establishing proposed county policies regarding charging infrastructure and public information.	None	None	N/A

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
AQ12-02(B): <u>Fleet Infrastructure Preparation for Plug-in Vehicles</u>	This action expedites introduction of plug-in vehicles (electric and plug-in hybrid electric) in the Fairfax County and Fairfax County Public Schools vehicle fleets.	None	\$100K. May be funded by EECBG	I
AQ-C. New Actions				
AQ07-22(C): Fuel Economy and Emissions Standards	Not under way. Develop a federal advocacy strategy, within the context of MWAQC, to increase fuel economy and emission standards for cars and light trucks.	None	Existing staff resources	N/A
AQ10-03(C): Purchase of Wind Power (Title changed from: Continuing Purchase of Wind Power – Action no longer continued)	3-year contract to purchase at least 10% of county’s electricity	0	\$783,000	II

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III. WATER QUALITY (WQ)

Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
WQ-A. Completed Actions				
WQ07-01(A): Watershed Management Planning (Development of comprehensive watershed management plans for all watersheds.)	The watershed management plans for all 30 watersheds have been completed and adopted by the Fairfax County Board of Supervisors (BOS).	\$15.2M, (Comprised of \$8.2M from the General Fund plus \$7M in Pro Rata Share Funds)	None identified, project as funded is completed.	N/A
WQ07-11(A): SWM reviews during the Plan Amendment Process	All Area Plan Review nominations are currently referred to the Stormwater Planning Division (SWPD), DPWES for review and comment. The SWPD has provided critical guidance and assistance on a number of special planning studies in redeveloping areas, including Tysons Corner, Baileys Crossroads and Annandale. The informal coordination process between DPZ and DPWES is working well and should be continued.	Funding is included under the stormwater program operations budget	Current funding levels are adequate to support this initiative	N/A

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
WQ-B. Actions Underway				
WQ07-02(B): Stormwater Management Implementation Plan (Ongoing implementation of the stormwater program.)	The county continued its capital improvement and infrastructure reinvestment strategies in operations, dam safety, regulatory, project implementation, infrastructure reinvestment, and watershed planning. In FY 2010, 27 stormwater management projects were completed. In FY 2010, a Stormwater Service District was established by the BOS. The service district rate increased from one penny to one penny and one half effective July 1, 2010.	\$20M(FY 2010 adopted budget)	The total funding that ultimately will be needed for this action is too great to accomplish in a single budget year. A multi-year approach is needed to meet regulatory requirements, public safety, infrastructure needs, and resident concerns.	I
WQ07-03(B): Stormwater Retrofits (Identification and implementation of retrofits to existing stormwater facilities)	In calendar year 2010, the county retrofitted 17 stormwater management projects to provide enhanced water quality and/or reduce storm drainage impacts. The projects included water quality retrofits, flood mitigations, detention pond retrofits, outfall restoration/stabilization projects, and the installation of BMP plates and trash racks at multiple locations.	Funding is included in the Capital Improvement Work Plan	The total funding that ultimately will be needed for this action is too great to accomplish in a single budget year. A multi-year approach should be considered to meet regulatory requirements, public safety, infrastructure needs, and resident concerns.	I

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
<p>WQ07-05(B): Stream Stabilization and Restoration Projects (Implementation of projects to restore and/or stabilize stream conditions that improve the overall health of the natural system.)</p>	<p>In 2010, the county completed three stream stabilization and restoration projects with the assistance of a number of non-profit organizations and volunteers. Environmental consulting firms have been engaged through a multi-year contract to assist with the design of these types of projects. In addition, construction contracts with qualified contractors are in place and restoration work in progress in various locations throughout the county.</p>	<p>Funding is included in the Capital Improvement Spending Plan</p>	<p>The total funding that ultimately will be needed for this action is too great to accomplish in a single budget year. A multi-year approach should be considered to meet regulatory requirements, public safety, infrastructure needs, and resident concerns.</p>	<p>I</p>
<p>WQ07-08(B): Soil Survey</p>	<p>The mapping and data collection for the soil survey update have been completed and have undergone quality control and assurance processes, as well as scanning and digitization by the USDA-NRCS. The new survey is available on NRCS and county website. Changes to the county's PFM and County Code have been completed. The BOS officially accepted and adopted the new soil survey in June 2011. The expertise of a soil scientist, familiar with the county's soils and the new soil survey continues to be needed.</p>	<p>\$755K for the 5-year soil survey update project. Since FY 2008, continuing funding for a soil scientist to provide ongoing soils expertise.</p>	<p>Current annual funding for NVSWCD includes support for one soil scientist</p>	<p>N/A</p>

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
WQ07-09(B): Soil and Water Quality Conservation Planning for Horse Operations and Other Land in Agriculture	In 2010, NVSWCD prepared Soil and Water Quality Conservation Plans for 13 parcels, comprising 275 acres of land, which included 6,310 linear feet of vegetated buffers for Chesapeake Bay Resource Protection Areas (RPA). Technical assistance was provided to the County's Code Enforcement Division and three landowners by preparing conservation plans for properties cited for county code violations.	Resources are budgeted in the NCSWCD annual work plan.	Current funding levels are adequate to support this initiative	N/A
<u>WQ08-02(B): 2009 Radio Ad Campaign</u>	<i>This fact sheet has moved to Environmental Stewardship and is incorporated into EIP13-ES08(B) Education and Outreach Programs and Activities</i>			
<u>WQ08-03(B): Stormwater Management Review Process</u>	DPWES has increased its involvement in the review of stormwater management information submitted during the zoning process, resulting from the 2004 BOS amendment requiring additional stormwater details for rezoning, special exception (SE), and special permit (SP) applications. NVSWCD reviews have also facilitated improved stormwater management approaches.	Performed by existing staff	None	N/A
WQ08-04(B): Low Impact Development Initiatives	In 2010, DPWES, FCPA, nonprofit organizations and individual volunteers contributed to the design and implementation of 10 projects that incorporate one or more LID practices	FCPA LIDs:\$150K Other LIDs: Funded in Stormwater Management Implementation Plan.	This effort is funded by existing Stormwater Management Implementation Plan funding	N/A

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
WQ08-05(B): Benchmarking Watershed Tree Cover Levels	This effort has been funded and tree cover analysis using high resolution satellite imagery is underway, with completion of all watersheds scheduled for June 2012.	Funding is included in the UFM operating budget	Current funding levels are adequate to complete the project as planned.	N/A
WQ08-06(B): Stream Flow Gauge Monitoring	In 2007, the county partnered with the US Geological Survey (USGS) to install a water resources monitoring network. Both dry and wet weather (storm event) nutrient data are being collected at 4 automated, continuous USGS water gauging stations and ten less intensely (manually) monitored sites throughout the county. The continuous gauge data is posted to a USGS web page, typically within 15 minutes after collection. Lab analyzed data (sediment and nutrients) is also available on the web for all 14 sites.	\$886K	Current funding levels are adequate to support this initiative	N/A
WQ08-07(B): MS4 Permit Application	The county is operating under the five-year MS4 permit issued in 2002, which has been administratively continued by DCR. DCR submitted a fifth preliminary draft of a revised permit to the county in February 2011. The FCPS MS4 responsibilities are being incorporated into the county's MS4 Permit.	\$340K	Funding levels are contingent upon final permit and regulatory requirements.	I
WQ08-08(B): Outreach and Education Program	<i>This fact sheet has moved to Environmental Stewardship and is incorporated into <u>EIP13-ES08-01(B) Education and Outreach Programs and Activities.</u></i>			

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
WQ08-09(B): Establishing Tree Cover Goals for Watersheds	Benchmarking is underway to quantify tree cover within the county's 30 watersheds, with tree cover goals expected to be established by CY 2013.	Funding is included in the UFM operating budget	None	N/A
WQ-C. New Actions				
WQ07-10(C): Development of a Stormwater Ordinance and Comprehensive Review of the County's Code and Zoning Requirements (Identify regulatory impediments and policy conflicts regarding better site design principles)	Development of a stormwater ordinance will be initiated in FY 2012. The comprehensive review for better site design principles has not been initiated; various approaches could be pursued.	Funding for stormwater ordinance development is included in DPZ, DPWES and DOT operating budgets	For the better site design review \$100,000 to \$250,000 depending on approach chosen	I Development of stormwater ordinance III Review for better site design principles
WQ07-12(C): Review of Standards and Guidelines for SP, SE, and Public Uses in the R-C District	This item is included on the Priority 1 Zoning Ordinance Amendment Work Program for 2011	-0-	TBD, but substantial staff resources (significant commitment of two to four planner positions) will be needed	I

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
WQ10-01(C): Riparian Buffer Maintenance	This new project is to maintain and supplement 35 riparian buffer restoration projects on parkland throughout the county. Maintenance activities may include watering, invasive species removal, amendment of plantings with additional shrub, herbaceous and trees as needed, expansion of buffer projects to adjacent areas and monitoring of restoration projects.	-0-	\$55,000 for first year	I

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IV. SOLID WASTE (SW)

Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
SW-A. Completed Actions				
SW07-07(A): Develop A Toxics Reduction Campaign	No change in status. The “Know Toxics” Program has been established as a regional effort to address management of fluorescent bulbs, rechargeable batteries, and obsolete electronics. The main feature of the program is a website entitled “KnowToxics.com” and selected radio and print advertising.	Basic Program established, but funding source for ongoing operation not yet identified.	\$10,000 per year.	N/A
SW10-02(A): Single-Stream Recycling Toters for County Customers	Bigger toters will reduce collection costs, air pollutant/GHG emissions, and otherwise reduce the environmental footprint of the county’s recycling operations. The pilot program began in November 2009 and has been well received. Approximately 20,000 carts were purchased in FY 2011 and distributed in the beginning of the calendar year.	N/A	N/A	N/A

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
SW-B. Actions Under Way				
SW07-03(B): Purchase Environmentally Preferable Products and Services. Dispose of Surplus Property in an Environmentally Responsible Manner.	This action was combined with SW07-04(B): Increase County Use of Recycled Products due to the considerable overlap in general intent. County Procedural Memoranda (PM) 143 updated - SWMP provided technical support to DPSM toward development of such a program. County Procedural Memoranda (PM) 144 also updated. PM 12-21, implementing the EPP, went into effect and the program is managed by DPSM.	Funding source not identified.	\$15,000 for program needs to include marketing of excess and surplus property program.	I
SW07-05(B): Remote HHW Collection Events	No new funding since July 1, 2009. Previously funded five events in FY2008, two events in 2009, none in 2010 and three events in 2011. Participation in these events continued to grow, with costs directly linked to the number of residents using the program.	Funding source not identified	Future events anticipated to cost \$125,000 per year for five events.	I

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
SW07-06(B): Develop Long-Term Plans to Manage Electronic Waste within Fairfax County and Disposal of County (and FCPS) Electronic Waste	Revised plan to include monthly “Electric Sundays” at the I-66 Transfer Station and the I-95 disposal complex. The third year of I-66 events is in progress, with participation exceeding anticipated levels. Costs of the program are directly linked to the number of residents using the service.	Funding source not identified	\$100,000 annually for Electric Sundays	I
SW08-01(B): Maximize Energy Recovery from LFG Resources	Construction of the necessary infrastructure to use landfill gas from the I-66 Complex (closed landfill) as a source of renewable energy at the Transfer Station is complete. A total of \$300,000 was funded to complete the DVS West Ox garage project in two separate increments of \$150,000 each. That project was completed in Oct. 2008. Work on investigating feasibility for heating use at the new West Ox Bus Operations Center continues.	An additional \$150k was requested and approved in the FY2010 budget to investigate the feasibility to expand the project to the new West Ox Bus Operations Center.	Additional 50k needed to complete the Bus Operations Center expansion project.	I

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SW08-02(B): WWTP Effluent Reuse at Covanta E/RRF from Noman Cole WWTP	Project design is underway and construction contracts have been bid. Project scheduled to commence operation in 2012.	\$124,000 for initial study.	Project will be funded through water user fees, while still saving E/RRF at least 25% over potable water costs.	II
SW09-01(B): Support Trash-Free Potomac Watershed Initiative	This Program, managed by the Alice Ferguson Foundation, is a regional program to reduce litter and increase recycling, education and awareness of solid waste issues in the Watershed. The Program commitments are summarized in the Potomac Watershed Trash Treaty to which the Board is a signatory. Support to consist of a donation.	\$25K from Virginia Litter Grant	\$50,000	I

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
<p>SW09-02(B): Renewable Energy Demonstration Park</p>	<p>Initial feasibility study to identify a suite of modest renewable energy projects that can be demonstrated as technically and economically feasible. Projects to be installed at the I-95 Landfill Complex as part of the continued productive use of the property. Efforts will initially focus on identifying technologies and scope for one or two simple projects that can be constructed at the landfill within the next 6-12 months. Existing/completed renewable energy projects at the facility will be considered Phase I of the Demonstration. The first new project, Phase II, is underway with the installation a solar water heater at the truck driver’s restroom at I-95. Future projects will likely include a windmill to extract groundwater, and a solar panel array.</p>	<p>Approximately \$50,000 in equipment and staff time to install the solar-powered pond aerator. Note that Covanta paid for the water heater.</p>	<p>\$50,000 to complete a detailed feasibility study and overall Park concept/ design. Further start-up funding may be necessary to complete specific projects in later Phases.</p>	<p>I</p>

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
SW-C. New Actions				
SW10-01(C): Litter Management System Efficiency Enhancements	A small project intended to enhance existing solid waste management system efficiency. It is anticipated that this enhancement will reduce costs, air pollutant/GHG emissions, and otherwise reduce the environmental footprint of the county's waste management operation. Specific technology to be deployed is a battery of solar-powered self-compacting litter bins to be deployed at one or more county facilities still TBD.	N/A	\$5,000 each	I

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V. PARKS, TRAILS, AND OPEN SPACE (PT)

Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
PT-A. Completed Actions				
PT07-08(A): Interpretive Signs Along FCPA Trail System	Subsumed by ES08-01(B): Education Outreach Programs and Activities.	\$28,000	N/A	N/A
PT-B. Actions Underway				
PT07-03(B): Pedestrian Improvements in the Four Year Transportation Plan	Underway	\$15,000,000	N/A	N/A
PT07-06(B): Upgrades for the Cross County Trail	After six years of work the Cross County Trail was completed in December 2005. Trail improvements have been made each year since, including re-routed sections, additional and improved stream crossings, improved and relocated road crossings, additional signs and upgrades to trail surfacing.	See EIP10-PT07-07	In future years, additional funding in the amount of \$2,950,000 will be needed for improvements to the existing trail.	I

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
<p>PT07-07(B): Park Authority Trail System The Park Authority trail system continues to be developed through the park bond program and through volunteer efforts.</p>	Current and future efforts include evaluating missing links and providing needed trail network connections.	\$8,190,000	\$48,000,000	I
<p>PT07-09(B): FCPA Urban Parks</p>	Urban Parks are a subset of local-serving parkland of which there is a deficiency across the county, in particular in many of the urbanizing areas.	\$1,000,000 (approximate)	\$10,000,000 plus or \$24,000,000	II
<p>PT07-10(B): Parks and Recreation Needs Assessment Process Implementation of the Needs Assessment is ongoing through the Capital Improvement Program, Comprehensive Plan Amendments, and Long Range Park Planning.</p>	The Needs Assessment process should be updated every 5-7 years in order to capitalize on changes in the county demographics as well as coincide with funding cycles. Update to the Needs Assessment is planned in FY 2012/2013.		TBD/\$300,000+	N/A

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
<p>PT07-11(B): Parks and Recreation Needs Assessment Implementation The final product of the Park Authority Needs Assessment Project was the development of a 10-Year Needs-Based Capital Improvement Plan. This Plan outlines the cost of meeting the county's park and recreation deficiencies presently and projected through 2013.</p>	A portion of the needs will be satisfied through the acquisition and build out of the current and upcoming Capital Improvement Plans. An update to the Needs Assessment is anticipated to begin in late 2011.	\$155,000,000 (includes land acquisition)	\$93,258,403 (not including land acquisition)	I
<p>PT07-12(B): Parkland Acquisition The Park Authority has an ongoing program for acquisition of property for open space.</p>	In 2005 the Board of Supervisors (BOS) challenged the Park Authority to acquire 10% of the land in the county. Current land holdings account for 9.0% of the county.	\$37,200,000	\$57,200,000	I
<p>PT07-13(B): Open Space Easements/NVCT Partnership</p>	Ongoing	\$227,753	Future Cost: \$227,753 + CPI (annual cost)	N/A
<p>PT07-14(B): Park Authority Conservation Easement Initiatives</p>	Ongoing \$10,000,000 would help establish a more aggressive Park Authority conservation easement program.	\$5,400,000 (remaining in 2008 bond for all land acquisition)	\$10,000,000	II

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
PT07-17(B): Park Authority Natural Resource Management Plan Implementation--Encroachment Enforcement	This enhanced program will focus on encroachment detection, enforcement and elimination on parkland. A dedicated encroachment team will not only mitigate impacts from current encroachments, but also educate residents on how to be good park neighbors.	N/A	\$250,000 needed annually	I
<p>PT08-01(B): Park Natural Resource Management</p> <p>The Park Authority has developed an agency-wide Natural Resource Management Plan (NRMP), which was approved by the Park Authority Board in January 2004. The plan outlines strategies, actions and policy changes needed to appropriately plan, develop and manage parkland.</p> <p>The Park Authority is now at a critical stage in which we can not continue to make significant progress without additional staff and funding.</p>	Eight years into implementation, the Park Authority is doing what they can with existing resources - making changes to policy and practices, educating staff and residents and asking all Fairfax County Park Authority staff to help where they can. The county's natural areas are rapidly degrading and need management. The intent of the Natural Resource Management Plan – to manage natural resources can not occur without additional funding and staff.	Existing Resources	<p>Phase 1: \$650,000 per year including six new staff positions. \$200,000 to \$2,000,000 needed for forest demonstration projects.</p> <p>Full program needs \$8,000,000+ per year needed including. \$4,500,000 per year for an invasive plant program.</p>	I

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
<p>PT08-03(B): Park Information Systems This project will expand the use of Geographic Information Systems (GIS) for Park Authority natural resource management.</p>	<p>The project is an ecological modeling proof of concept to show what modeling options are available, how well they work and how much they would cost. If implemented, the model could help both the Park Authority and the county make more informed land use decisions.</p>		<p>~\$2,000,000 to test and implement the model.</p>	<p>I</p>
<p>PT09-01(B). Great Parks, Great Communities</p>	<p>This effort addresses the need for a comprehensive and integrated approach to planning for parkland acquisition, resource protection and development activities over a ten year period. The comprehensive Great Parks, Great Communities Plan is currently under public review, awaiting revision and adoption by the Park Authority Board.</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>
<p>PT09-03(B). Synthetic Turf Athletic Fields</p>	<p>The Park Authority has begun developing synthetic turf fields to increase usability and to reduce maintenance and environmental impacts.</p>	<p>\$16,700,000+</p>	<p>TBD</p>	<p>I</p>

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
PT-C. New Actions				
<p>PT07-21(C): Park Authority Natural Resource Management Plan Implementation--Boundary Survey and Marking</p>	<p>This program would survey and permanently mark park boundaries. This would make park property lines clear and help to prevent misunderstandings about property lines and discourage encroachments and their negative impacts.</p>	<p>N/A</p>	<p>\$250,000 needed annually</p>	<p>I</p>
<p>PT08-05(C): Sully Woodlands Interpretive Center and Resource Management The Park Authority has developed a regional master plan for all parks within the boundaries of the Cub Run and Bull Run watersheds. An interpretive center and resource management activities are recommended in the plan.</p>	<p>Natural resource management research, plans and activities will need to occur to maintain the integrity of the natural resources and to continue to protect the Cub Run and Bull Run watersheds.</p>	<p>\$290,000 for a conceptual plan is included in the 2008 park bond.</p>	<p>TBD</p>	<p>I</p>
<p>PT08-06(C): Implementing Natural Landscaping Practices on County Properties Multi-agency effort to implement natural landscaping practices on county properties.</p>	<p>Funding related to 2004/2005 BOS directive to implement a five-year natural landscaping plan to implement techniques that reduce current maintenance practices that can cause harmful environmental impacts and reduce the need and expense of mowing, pruning, edging, and using fertilizers, pesticides, and herbicides</p>	<p>N/A</p>	<p>\$100,000</p>	<p>I</p>

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PT10-01(C): Weather Stations for Efficient Water Use at Golf Courses	This project would allow the installation of a weather station at both Twin Lakes and the Laurel Hill Golf Club. Providing irrigation water in an efficient manner would reduce impacts to the environment by using less water	N/A	\$10,000	I

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VI. ENVIRONMENTAL STEWARDSHIP (ES)

Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
ES-A. Completed Actions				
ES11-06 (A) Window Replacement Noman M. Cole Jr. Pollution Control Plant	This project was completed in November 2010. Energy efficiency is expected to yield \$4,680 per year in savings.			
ES-B. Actions Underway				
ES07-02 (B) Volunteer Stream Monitoring Quality assured citizen-based biological and observational monitoring complements DPWES monitoring, provides trend data and flags emerging problems.	NVSWCD provides program management and coordination of volunteers, training, quality assurance, and data management; efforts are multiplied through 'hub' in Reston. Program has associated education programs, connects residents to their watershed, and provides links to other programs and activities. Coordination with DPWES on county stream data reporting. FCPA staff conduct monitoring and support volunteer efforts.	Staff support is budgeted as part of NVSWCD work plan; assistance from interns and volunteers; supplies through grants. Value of volunteer contributions is \$36,514).	None	N/A

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
<p>ES07-10 (B) Storm Drain Marking – Pollution Prevention Program</p> <p>Adult and youth volunteers carry out neighborhood education programs and place markers on storm drain inlets, to inform community that pollutants dumped in storm drains pollute local waterways.</p>	<p>NVSWCD provides program management, coordinates with VDOT for permits, and guides volunteers as they implement community education program and apply labels on storm drain inlets. DPWES-stormwater funds markers and glue and assists with program promotion. Annually, volunteers educate an average of 18,000 households and place markers on 3,000 storm drains to remind residents not to dump anything into storm drains.</p>	<p>Staff support is part of NVSWCD work plan. DPWES provides \$12-15,000 annually for supplies</p>	<p>None at current level.</p>	<p>N/A</p>
<p>ES08-01 (B) Education and Outreach Programs and Activities</p> <p>A broad array of programs and activities inform the public about watershed issues and promote environmentally responsible behaviors and stewardship.</p>	<p>Initiatives include: newsletters, brochures, handbooks and other resource materials; seminars, workshops, watershed walks, and park programs; exhibits, demonstrations, and events; rain barrel programs; websites and email lists; watershed advisory committees; seed collections and seedling programs; technical advice and technical assistance. Many programs involve partnerships.</p>	<p>Budgeted as part of FCPA, NVSWCD and DPWES annual work plans.</p>	<p>None.</p>	<p>N/A</p>

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<p>ES08-02 (B) Environmental Education Programs Involving Youth</p> <p>Programs, many in partnership with schools, build understanding and respect for natural resources and further environmental knowledge and stewardship among youth.</p>	<p>Hands-on activities take place in schools and parks. Elementary science programs taught in parks promote stewardship and support the school curriculum. Teacher training and coordination with Middle School programs help meet Chesapeake Bay goals. High School students monitor streams, recycle, compete in the Envirothon competition, and participate in environmental clubs, community outreach programs and volunteer opportunities. The majority of Storm Drain Marking projects are carried out by Eagle scout candidates. FCPA mentors dozens of Eagle and Golden Circle candidates in a wide range of environmental projects</p>	<p>Budgeted as part of FCPA, NVSWCD and DPWES annual work plans.</p>	<p>None</p>	<p>N/A</p>
<p>ES08-03 (B) Stream and Watershed Cleanup Efforts</p> <p>Volunteer efforts include participation in larger, regional efforts and in local community/ watershed sponsored projects</p>	<p>Volunteer stream and watershed cleanups are conducted in conjunction with the International Coastal Clean Up in the fall, the Alice Ferguson Foundation Potomac River Clean Up in the spring, and throughout the year by 'Friends of' groups, Adopt-A-Stream groups and others. Agencies support these efforts by coordinating, publicizing, identifying sites, delivering supplies, participating , and facilitating disposal.</p>	<p>Budgeted as part of NVSWCD, FCPA and DPWES annual work plans. Supplies are provided by sponsoring organizations</p>	<p>None</p>	<p>N/A</p>

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<p>ES08-04 (B) Support of Citizen-Based Environmental Stewardship Programs and Activities</p> <p>Information and technical advice are provided. Appropriate county services are identified and made available</p>	<p>Friends of groups, civic, community and environmental groups engage in education programs and planting projects, improve habitats, conduct cleanups, plant buffers, monitor streams, and alert county staff to potential environmental problems. These groups receive information, technical advice and problem solving assistance. Training is provided to organizations, such as the Fairfax Chapter of the Virginia Master Naturalist Program. The FCPA and partners are engaged in an effort to achieve a county-wide <i>Community Backyard Habitat</i> designation. The Fairfax County Restoration Project, a public-private partnership sparked by concern about the Beltway HOT lanes project in 2009, is dedicated to connecting people and nature through community action.</p>	<p>Staff resources to support these efforts are budgeted as part of the DPWES, NVSWCD and FCPA annual work plans.</p>	<p>None</p>	<p>N/A</p>

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<p>ES08-05 (B) Park Authority Stewardship Education</p> <p>The Park Authority educates both staff and citizens countywide in important stewardship issues, the County’s commitment to stewardship, and to engage them in practicing good stewardship.</p>	<p>The Park Authority is implementing the stewardship education initiative through a series of brochures and products related to natural resource stewardship. Thirteen brochures and seven Highway Cards have been published to date. In 2007, the Park Authority’s Stewardship Education Team developed media for a storm drain marking initiative in staff parks, including a poster, a highway card, buttons for staff to wear and window clings for park entryways. In spring 2008, the Park Authority released a set of non-native invasive plant identification and control cards for 29 of the most commonly found non-native invasive plants in Fairfax County. In 2010, the Park Authority created a series of large, free-standing banners based on themes in the stewardship brochures.</p>	<p>Existing resources used in FY2004-FY2011</p> <p>Also, carryover funding was received in FY2004 and FY2006</p>	<p>None</p>	<p>N/A</p>

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<p>ES08-06 (B) Invasive Management Projects</p> <p>A Park Authority program to remove and control invasive plants on parkland and to involve citizens in this effort.</p>	<p>The Park Authority continues to sponsor the Invasive Management Area (IMA) volunteer program, as well as other initiatives. Currently, trained leaders have committed to four work-days per year at 42 sites. To date, 4,500 volunteers have contributed 18,000 hours of service during 1,000 workdays. In 2007 and 2008, Invasive Conservation Corps (a summer intern program) conducted invasive removals throughout the county. Since then, individual interns complete map and removal projects. In addition, funds are being used to supplement efforts at staffed sites with equipment and contractor services. A report on non-native invasive plants in Fairfax County was developed by a contractor to include assessment, prioritization (species and locations), a control program and cost estimates for a control program. In June 2010, an Early Detection Rapid Response Volunteer program was launched. More than 200 acres of parkland have been surveyed to identify isolated populations of highly aggressive non-native species. IMA coordinates their removal before they become a big issue. The IMA Volunteer Coordinator position has been converted to a merit position in FY2011.</p>	<p>Funding for FY2005-FY2011 came from existing resources, carryover and EIP funding and grants.</p>	<p>\$200,000 needed annually to maintain the program.</p> <p>Program cannot be continued without funding in FY2013.</p> <p>\$4.5 million per year needed for Park Authority-wide program</p>	<p>I</p>

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<p>ES08-10 (B) Partnering with Non-Profit Tree Planting Groups in Establishing a Countywide Tree Planting Program</p> <p>Program to plant more than 25,000 trees in a 5-year period</p>	<p>This action builds upon the success that has resulted from partnerships formed with non-profit tree planting groups. It complements an existing BOS directive to establish a countywide tree planting program for air quality improvement. It will help to meet the Fairfax County 30-Year Tree Canopy Goal, adopted in June 2007. In FY 2008, FY2009 and FY2010, Canopy goal partners and non-profits planted an estimated 9,000 trees in each FY. In FY 2009, 2010 and 2011, funding was provided to three non-profits to build organizational capacity in support of a countywide tree planting program.</p>	<p>\$50,000 funded in FY2008 \$109,000 funded in FY2009 \$93,350 was funded in FY2010 \$88,000 was funded in FY2011 \$88,000 was funded in FY2012.</p>	<p>\$110,000 is needed in 2013</p>	<p>I</p>
<p>ES09-06 (B) Joined Energy Star Challenge</p> <p>The ENERGY STAR Challenge is a national call-to-action to improve the energy efficiency of America’s commercial and industrial buildings by 10 percent or more.</p>	<p>The county tracks energy usage and has a plan for energy improvements, including during capital renewal projects. Programs such as Change a Light Campaign raise awareness with others.</p>	<p>Existing FMD staffing will be used.</p>	<p>None</p>	<p>N/A</p>
<p>ES09-08 (B) 30 Year Tree Canopy Goal</p> <p>In 2007 Fairfax County adopted a tree canopy goal of 45%. To reverse anticipated loss and achieve the goal, an increase of 20,400 acres of trees is needed by 2037. This requires that 21,000 trees be planted annually for 30 years</p>	<p>This action is underway with short-term needs identified in ES08-10 (B) and ES08-11 (C). An analysis has been made to determine potential areas for tree planting. Most will need to be planted on private property, making an educational campaign essential for success. The cost to achieve the goal is more than offset by benefits for air pollution removal, carbon sequestration, energy conservation and stormwater management.</p>	<p>Short-term needs identified in ES08-10 (B) and ES08-11 (C)</p>	<p>\$2.6 million over 30 years</p>	<p>I</p>

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
ES09-09 (B) Development of an Energy Management Program Through the Establishment of a Countywide Energy Coordinator Position	The county's newly formed Energy Efficiency and Conservation Coordinating Committee is currently performing the role and tasks as were envisioned for the Energy Coordinator. The Energy Coordinator position is currently on hold. In the short term, the EECCC has developed a list of projects to be funded using the federal EECBG money.	The U.S. Department of Energy awarded the County \$9.6M in EECBG funding in October 2009. Under the terms of the award, all funds must be spent by October 2012.	TBD	I
ES09-10 (B) Energy Outreach Program	A subcommittee of the county's Energy Efficiency and Conservation Coordinating Committee drafted an RFP for the development and implementation of a residential energy education and outreach program. One or more awards should be issued by September 2011, with the program expected to be operational in early 2012. The Environment Facebook page was launched in 2011. A number of energy-related webpages have been added to the county's website, including those addressing green buildings and energy efficiency and conservation. The county's energy outreach webpage also is being developed.	\$421,297 of the county's EECBG award is allocated to the residential energy education and outreach program	TBD	I
ES09-12 (B) Government Center HVAC Component Replacement	Chillers should be replaced with more efficient and environmentally friendly type. Pumps, cooling towers, kitchen heat recovery equipment, also need replacement. Replace	\$2,200,000 chiller replacement and completed	\$2,200,000 for other items that are not funded	II

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	pneumatic VAV boxes with DDC to take full advantage of building automation system.	in March 2011.		
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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
ES09-13 (B) Install Energy Management Control Systems in Remaining County Facilities *Implementation could begin in 2009, but would be a long term project to incorporate into all remaining facilities.	RFP needs to be developed to manage the installation of this many additional systems and to obtain competitive pricing. In the event that sufficient funding is not adequate for installation in all remaining facilities, installation can be done in phases, or only implemented for select projects with the greatest need and fastest payback. Funding to install EMCS at Gum Springs Community Center, Lillian Carey and Bailey’s Community Center was funded through EECEBG and will be installed in FY 2012.	\$720,000 funded by EECEBG for three facilities.	\$3,280,000 for all remaining facilities.	I/III*
ES09-14 (B) Increase Energy Conservation Code Compliance	The Building Plan Review Division of DPWES Land Development Services has developed and provided training on an Energy Code Compliance Certification/checklist form. A committee has been formed to determine if requirement can be done by plan review or inspections. BPR continues emphasis on insulation and HVAC equipment sizing.	Existing staff will be used	No additional resources are required	N/A
ES10-03 (B) Implement Environmental Management System for Wastewater Management Program	In 2010 Wastewater Management achieved recognition in the Virginia Environmental Excellence Program at the E4 level, the highest level of certification at the state level in the VEEP program.	Existing staff resources and funding	No additional	N/A
ES10-06 (B) Maintain Potable Water Savings and Additional Opportunities for	Reclaimed water is used in many ways, such as for backwashing filters, seal water, wash down,	Existing staff resources	N/A	N/A

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Reduction in Potable Water Use at Noman Cole Pollution Control Plant	foam controls sprays, generator cooling, air scrubber, polymer makeup, chemical carrier water and onsite irrigation. Staff will continue to seek ways to incorporate plant effluent water into plant processes.			
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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
ES10-07 (B) Establish a Rain Garden at Noman Cole Pollution Control Plant	Staff from Wastewater Management and the NVSWCD collaborated to design the rain garden and prepare a cost estimate. Installation is planned for fall of 2011.	Existing resources	N/A	N/A
ES10-09 (B) Park Authority Athletic Fields Lighting Improvement	Initiative relates to energy survey conducted in FCPA facilities. Using appropriate energy efficient technology for athletic field lighting could provide better quality of light, less maintenance costs, and better scheduling by switching lights on and off only when needed, and providing the appropriate light levels for different activities. FCPA has several athletic fields and some of these fields are using old lighting systems, which are not very efficient and don't have appropriate control system. Upgrading these systems will reduce energy consumption and energy bills and will reduce CO2 emissions to the atmosphere.	None	\$700,000	I
ES11-04 (B) Wastewater Treatment Division's Participation in the Energyconnect's Demand Response Program	The WTD staff began active participation in the program for the summer 2009 season and renewed its participation for the summer 2010 and 2011 seasons. Wastewater Collections Division (WCD) joined the program in 2011. The WTD Operation's and Electrical staff, as	Existing resources	N/A	N/A

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	well as the WCD staff, are working to develop appropriate curtailment strategies to meet the requirements of the Energyconnect program.			
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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
ES11-05 (B) Cast-iron and Asphalt Recycling by the Wastewater Collections Division of the Wastewater Management Program	Wastewater Collection Division is recycling 30 tons of asphalt a year which saves approximately \$1,600.	Existing resources	N/A	N/A
ES11-07 (B) Calculate and Validate the Wastewater Collections Division Carbon Footprint	The WCD staff is planning on working with Wastewater Treatment Division (WTD) Plant Operations Branch Manager in order to learn the method for calculating the Carbon Footprint for the WCD per the WRI/WBCSD protocol.	Existing staff resources	N/A	N/A
ES11-08 (B) Establish a Rain Garden at Robert P. McMath Facility	Currently the Wastewater Management Program is in the initial phase of considering the feasibility of the design and installation of a rain garden at the Wastewater Collections Robert P. McMath facility. Staff in the Wastewater Collections Division will work with the Northern Virginia Soil and Water Conservation District to design the structure and prepare a cost estimate for its installation.	Existing staff resources. May require funding if feasible to implement installation of the rain garden	N/A	N/A

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Title of Action	Status	Funding Already Allocated	Additional Funding Needed	Priority
ES11-09 (B) Wastewater Management Program IT Computer Server Virtualization	This project has been proposed for the Noman M. Cole, Jr. Pollution Control Plant and is waiting for funding. The project will be funded by rate-payer funds as they become available.	None	\$837,500 is needed for equipment. WWM IT staff would perform work	I
ES11-10 (B) Site Lighting Upgrades for Monomedia Filters at Noman M. Cole Jr. Pollution Control	This project has been proposed for the Noman M. Cole, Jr. Pollution Control Plant and is waiting for funding. The project will be funded by rate-payer funds as they become available.	None	\$42,791 is project cost. \$25,000 is needed for equipment; plant staff would perform labor	I
ES11-11 (B) Mercury Vapor Lighting Replacement at Noman M. Cole Jr. Pollution Control Plant	This project has been proposed for the Noman M. Cole, Jr. Pollution Control Plant and is waiting for funding. The project will be funded by rate-payer funds as they become available.	None	\$15,000	I

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ES11-13 (B) Installation of Lighting Control Systems at Athletic Fields	The Park Authority has installed programmable lighting control systems at numerous athletic fields to control lighting remotely with a high degree of accuracy. Lighting control systems will be upgraded at 11 more facilities.	\$330,000 EECBG funding	None	I
ES11-14 (B) Outdoor Lighting and Control System Retrofits at Park Facilities	The Park Authority conducted a study of 300 existing outdoor lighting systems and identified systems that would most benefit from energy efficiency improvements. This action will upgrade those systems.	\$220,000 EECBG funding	None	I
ES—New Actions				
ES08-07 (C) Neighborhood Ecological Stewardship Training (NEST) Educates citizens and inspires stewardship through hands-on, multi-discipline experiential activities that connect people to their environment.	Pilot project initiated in spring 2006 by NVSWCD demonstrated significant community interest in adult natural resources programs and tested an effective method to foster environmental stewardship. More than 145 participated in the program and 25 partners were involved. In 2008, 73 partners were engaged with 261 participants. To continue NEST, funding is needed for both staff support and resources. (A staff person assisting with this program could also assist with other environmental stewardship initiatives, e.g. ES10-15 (C)).	Existing funding used in FY2006 and FY2008. Loss of staff and funding in FY2009-FY2011.	\$35,000 For a part-time person and supplies.	I

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<p>ES08-09 (C) Promoting the Use of Natural Landscaping Practices by the Private Sector</p> <p>Public education and engagement to encourage natural landscaping on private property, in conjunction with implementing the Natural Landscaping Plan on county properties.</p>	<p>This program coordinates with implementation of Natural Landscaping Program projects on county-owned properties. It focuses on public education through interpretive signage at county demonstration sites, brochures, PSAs, and workshops, and on public engagement through hands-on experience for individuals and groups interested in planting and maintaining natural landscape gardens and on county property.</p>	<p>None</p>	<p>\$50,000 To produce educational materials, install interpretive signs and host workshops</p>	<p>II</p>
<p>ES08-11 (C) Promoting Stewardship Of Urban Forest Resources</p> <p>Program to build appreciation for trees and urban forests by residents</p>	<p>This action builds on goals from the Tree Action Plan to foster an appreciation for trees and urban forests by the residents of Fairfax County and to compel residents to protect, plant and manage their trees. Addresses BOS Environmental Committee concerns relating to the removal of healthy, mature trees on private properties.</p>	<p>None</p>	<p>\$100,000 Funds will be used to develop an education and outreach plan and to develop and print educational materials.</p>	<p>I</p>
<p>ES09-15 (C) Government Center Energy project</p>	<p>Funding is needed to implement a feasibility study on various Green building technologies and renewable energy technologies that could be implemented at the Government Center. The study should also include ways to use the new technologies to educate citizens, allow research for students, etc.</p>	<p>None</p>	<p>TBD</p>	<p>III</p>
<p>ES09-16 (C) Feasibility study for Renewable Energy Technologies</p>	<p>A study is needed to assess appropriate facilities and payback analysis for implementation of renewable energy technologies such as solar. Capital Facilities Division is reviewing new facility designs and incorporating green roofs where feasible, such as Dolly Madison library.</p>	<p>None</p>	<p>TBD</p>	<p>II</p>

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ES09-17 (C) Perform Energy Audits for county facilities	Physical inspection needs to be conducted of all the county facilities to make suggestions for energy improvements, separate from capital renewal projects. EECBG funding that was awarded was reallocated. Project is now unfunded. \$471,520 in EECBG funding that was awarded was reallocated	None.	TBD	III
ES10-08 (C) Park Authority RECenters Lighting Improvement for Swimming Pools and Racquetball Courts	Initiative relates to energy survey conducted in FCPA facilities. The Park Authority has 9 RECenters with indoor swimming pools, racquetball courts, and other activity rooms. Upgrading these systems will provide an opportunity to significantly reduce energy consumption and reduce energy bills, as well as reduce CO2 emissions to atmosphere.	None	\$400,000	I
ES10-10 (C) Building Envelope Assessment and Improvement for Park Authority Facilities	Initiative relates to energy survey conducted in FCPA facilities. A better building envelope can help make a building energy efficient and environmentally friendly. Some Park Authority facilities have old buildings that need to be evaluated in terms of building envelope and air flow control between indoors and out doors. This action will save energy uses for HVAC systems, will reduce energy bills, and will reduce CO2 emissions to atmosphere.	None	Assessment Cost: \$300,000	I

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<p>ES10-11 (C) Park Authority Facilities Small HVAC Systems</p>	<p>Initiative relates to energy survey and life cycle of equipment that was done in all FCPA facilities. By replacing the older air conditioner or heat pumps, FCPA could be protecting the FCPA from the potentially rising costs of servicing R-22 products and environmentally could contribute in prevention of Ozone layer depletion, which is a critical environmental issue. FCPA currently have 33 small HVAC units that need to be upgraded to be more energy efficient and comply with the federal mandates for the use of HCFC's. Most of these units are more than 10 years old. The plan is to replace the old units with high efficiency units from 8/10 to 14 SEER rating.</p>	<p>None</p>	<p>Retrofit Cost Estimate: \$500,000</p>	<p>I</p>
<p>ES10-13 (C) Master Watershed Stewards Certification Program</p> <p>Training in watershed issues, technology and outreach to prepare county residents to participate in watershed plan implementation and other watershed improvement activities.</p>	<p>This is a partnership project with a non-profit group to provide intensive training during eight 2 ½ hour workshops led by specialists in technical and organizational topics. Additional activities, including 24 hours carrying out watershed activities, are required in order to receive certification as a Master Watershed Steward.</p>	<p>Program coordinator provided by Potomac River Greenways Coalition. Existing NVSWCD and DPWES staff would provide support</p>	<p>\$40,000 to fund an environmental educator and program expenses</p>	<p>I</p>

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<p>ES10-14 (C) Water Conservation Education and Device Distribution Program</p> <p><i>Water: Use it Wisely</i> color brochures in pdf format are available through the Council of Governments. Faucet aerators can be distributed at Schools and major public events.</p>	<p><i>Water: Use it Wisely</i> brochures can be printed, folded and distributed by a county vendor at a rate of approximately 23 cents per household. Faucet aerators can be distributed at a rate of approximately \$1 each. Schools and public events could be the major distribution mechanism for the aerators. This effort would be a joint effort between Fairfax Water and Fairfax County Government.</p>	None	TBD	II
<p>ES10-15 (C) Environmental Stewardship Matching Grants Program for Watershed Protection and Energy Conservation</p> <p>An environmental stewardship grant program for watershed protection and energy conservation actions by residents, HOAs and schools.</p>	<p>Green Living workshops would focus on how to save energy, create sustainable landscapes, protect local water quality and conserve water. Workshop attendees would become eligible for matching grants and technical assistance for specific projects, such as installation of permeable pavers, rain gardens, cisterns, green roofs and tree canopy, riparian buffer or shoreline enhancement, energy efficiency or water conservation measures. Projects would help the county meet the goals of minimizing runoff, reducing pollutants to local waters, increasing biodiversity, habitat and forest resources, counter-acting global warming, conserving water, building community and stimulating environmental stewardship.</p>	None	<p>\$90,000 to fund grants and a full-time program coordinator.</p> <p>\$45,000 for a pilot project with a temporary part-time coordinator.</p>	I

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ES11-12 (C) Establish a Green Roof at Noman M. Cole, Jr. Pollution Control Plant	Currently the Wastewater Management Program's WTD is in the very initial phase of researching the feasibility of the design and installation of a green roof at the Noman M, Cole, Jr. pollution Control Plant.	Existing staff resources.	TBD	N/A
ES12-01 (C) Second Phase of Outdoor Lighting and Control System Retrofits at Park Facilities	This project is a continuation of the EECBG outdoor lighting retrofits project, in order to complete those facilities outdoor lighting retrofits and to include more facilities with good opportunities for savings and outdoor lighting improvement.	\$220,000 EECBG funding	\$300,000 is unfunded	I
ES12-02 (C) Park Authority Solar Thermal Systems for RECenters	Solar thermal systems installed in FCPA RECenters would partially provide hot water in facilities. Projects provide energy savings and use clean, renewable energy, reducing greenhouse gases and providing directions to extend solar energy use in FCPA facilities.	None	\$400,000	I

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