

**FAIRFAX COUNTY, VIRGINIA**  
**Environmental Improvement Program (EIP)**  
**Section D: Summary of Actions**  
**Fiscal Year 2010**

**Prepared October, 2008**

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**NOTE: EACH EIP ACTION IS ASSIGNED A UNIQUE IDENTIFICATION NUMBER, BEGINNING WITH “EIP10” TO REFLECT THE FISCAL YEAR 2010 ORIENTATION OF THIS DOCUMENT. THE “EIP10” 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 EIP10:**

**EIP10-AQ07-01(B): EZ Bus Program**

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

**EIP10-ES09-10(C): Energy Outreach Program**

# I. GROWTH AND LAND USE (GL)

Title of Action	Status	Funded	Funding Needed	Priority
<b>GL-A. Completed Actions</b>				
<b>GL07-02: PRM Zoning District</b>	District established in 2001; there are now 18 such districts in the county.  Consider adding SE uses to the PRM District—Currently on the Priority 1 Zoning Ordinance Amendment Work Program	Existing staff resources	N/A	N/A
<b>GL08-03: Plan Amendment to Strengthen Air Quality Guidance and to Incorporate Support for Green Building Concepts</b>	Amendment adopted on December 3, 2007. Policy to be reviewed within two years of adoption.	Action completed	N/A	N/A
<b>GL07-03: Area Plan Amendments and Subsequent Rezoning Supporting Transit-Oriented Development and the Provision of Housing in Employment Centers</b>	Ongoing implementation—e.g., Area Plans Review process; Springfield Connectivity Study; Tysons Corner Transportation and Urban Design Study; rezoning approvals	Annual cost for implementation represents a considerable portion of DPZ’s annual budget. Significant grant funds being used as well for Springfield Connectivity Study	No additional funds needed	N/A

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<b>GL08-10: Tree Preservation Legislation</b>	Completed. New authority for tree conservation was passed during the 2008 Virginia Legislative Assembly.	Existing staff resources	N/A	N/A
<b>GL-B. Actions Underway</b>				
<b>GL07-04: Planned Development District Zoning Ordinance Amendment</b> (tree preservation and open space issues)	Authorization of public hearings anticipated in late CY 2008. Follow-up educational activities anticipated.	Existing staff resources	N/A	N/A
<b>GL07-05: Tysons Corner Transportation and Urban Design Study</b>	Consultant and task force work is continuing, and several public meetings have been held. Advanced Prototypes were developed, leading to the development of a “Straw Man” alternative. Draft Plan recommendations anticipated from the task force later in 2008. A supplemental neighborhood impact study has been requested and funded by the Board of Supervisors.	Approx. \$2,000,000 allocated for consultant services since 2004.	N/A	I
<b>GL07-06: Pedestrian-Oriented Neighborhood Commerce: Plan Implementation</b>	Continued efforts to implement and refine the Plan are anticipated	Part of the broader funding per GL07-03.	See GL07-03	N/A

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<b>GL07-07: Adequate Infrastructure Legislation</b>	County support for legislation in the past; efforts anticipated to continue	Existing staff resources	N/A	N/A
<b>GL07-08: Review of Federal NEPA Reports and State Environmental Impact Reports</b>	Ongoing	Existing staff resources, but reviews are sometimes extensive	N/A	N/A
<b>GL07-10: Residential Compatibility Zoning Ordinance Amendment</b> (consider measures such as max. lot coverages, residential FARs, Neighborhood Cons. Distr.)	Amendment on Priority 1 list of the 2008 ZO Amendment Work Program. Angle of bulk plane requirement and revision to height requirement being considered, with public hearings anticipated in fall 2008. Review of other ideas (e.g., lot coverage) continuing, but Neighborhood Conservation District approach no longer being considered.	Substantial staff resource needs; but to use existing resources	N/A	N/A
<b>GL08-01: Review Zoning Ordinance Parking Requirements in Transit-Oriented Developments</b>	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 late 2008, followed by Plan and/or Zoning Ordinance amendments in 2009.	Consultant funding provided	N/A	N/A

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<b>GL08-02: Development of the Integrated Parcel Lifecycle System (IPLS)</b>	Phase I (development of data warehouse structure and loading modules) and Phase II (incorporation of Comprehensive Plan information and demographic work) have been completed, and the IPLS data warehouse is now available to all county staff using GIS or Oracle tools. Phase III would involve additional data handling and analyses tools, existing and planned land use analyses and reports and the creation of daytime population estimates.	Remaining funds from Phases I and II being used in support of additional analysis and reporting needs.	Funding for initial stages of remaining efforts has been provided; additional funding for ancillary actions would require additional resources	N/A
<b>GL08-05: Update the County's Planimetric Data Layer</b>	Funding for a four-year update cycle has been provided. The first quadrant will be the SE quadrant. Statements of work have been developed for data capture and quality control, a vendor for the planimetric work has been selected, and a purchase order is being established. Proposals for quality control work are being evaluated.	Funds approved for a four-year cyclical update process.	Additional funding not needed	N/A
<b>GL08-06: Mapping of Fairfax County's Vegetation Ecosystems</b>	Funded and in progress. Countywide dataset based on 2002/3 imagery anticipated in late 2009; update with 2009 imagery already funded.	Effort is funded.	Future updates beyond 2008 would cost approx. \$180,000-\$200,000	N/A

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<b>GL08-11: Urban Forestry Roundtable</b>	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
<b>GL08-12: Consider Amending Article 13 of the Zoning Ordinance (Landscaping and Screening)</b>	On the Priority 2 list of the 2008 Zoning Ordinance Amendment Work Program. Language to reduce the density of transitional screening materials and clarify landscape maintenance responsibilities is included in the proposed tree conservation amendment package that will be considered for adoption by the Board in the fall of 2008.	Existing staff resources	N/A	N/A
<b>GL08-13: Support for Regional Land Use and Related Transportation Planning Initiatives</b>	Ongoing – County staff provides support for a number of regional land use planning initiatives.	Existing staff resources	N/A	N/A
<b>GL09-01: Consideration of Green Building Incentives for Private Sector Development</b>	Continued review by staff and Planning Commission Environment Committee in early 2008, with staff presentation to the Board’s Environmental Committee in June 2008. Discussion of possible legislative initiatives focusing on tax incentives and green fund contributions anticipated later in 2008.	Existing staff resources, but incentives would have revenue implications	N/A	N/A

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<b>GL-C. New Actions</b>				
<b>GL07-09: Future Planned Development District Zoning Ordinance Amendment</b> (expand number of uses allowed, as well as densities/intensities)	Identified as a Priority 1 item on the Zoning Ordinance Amendment Work Program; Zoning Administration staff is awaiting the outcome of the Tysons Corner Transportation and Urban Design Study to determine need for higher FARs and related Zoning Ordinance Amendment needs.	Existing staff resources	N/A	N/A
<b>GL09-02: Review Effectiveness of Agricultural and Forestal District Program in Preserving and Managing Sensitive Lands</b>	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
<b>GL09-03: Strengthened Zoning Case Submission Requirements: Preliminary Utility Plan</b>	Would need to be added to the Zoning Ordinance Amendment Work Program.	Existing staff resources	N/A	N/A
<b>GL09-04: Consideration of No-Net Tree Canopy Loss Policy during the Development of County Facilities</b>	Related to June 2007 Board Matter. Staff is anticipated to convene inter-agency group to examine this matter in 2009.	Existing staff resources to consider policy; TBD for follow-up	N/A	N/A

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<b>GL09-05: Development of a County Green Building Program Through the Establishment of a Green Building Coordinator Position</b>	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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## II. AIR QUALITY AND TRANSPORTATION (AQ)

Title of Action	Status	Funded	Funding Needed	Priority
<b>AQ-A. Completed Actions</b>				
<b>AQ07-06(A): Transit Shelter Program</b>	This action is ongoing, but has been absorbed into AQ07-07(B) for a more comprehensive treatment of both items.			
<b>AQ08-03(A): Commercialization of Hybrid Electric School Bus</b>	This action is ongoing, but has been absorbed into AQ07-15(B).			
<b>AQ-B. Actions Underway</b>				
<b>AQ07-01(B): EZ Bus</b>	EZ Bus is an alternative means of access to the Burke Center VRE Station. The service provides 19,440 passenger trips annually and reduces 526,500 passenger miles per year. To realize the full benefit and value of the service, the entire trip has to be included. Now that the parking garage is open the EZ Bus service will be reevaluated this fall.	\$2,626,195	\$798,740 annually and DOT Staff Support	N/A
<b>AQ07-02(B): Employer Services Program</b>	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.	\$2,230,000	\$170,000 annually (Commuter Connections Program Grant from MWCOG) and DOT Staff Support	I

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<b>AQ07-03(B): Ridesources Program</b>	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.	\$1,600,000	\$700,000 annually (\$560K grant; \$140K matching allocated by the BOS)	I
<b>AQ07-04(B): Transportation Benefits</b>	This program received funding in FY 2007 to expand countywide for all County employees and increased the monthly allocation to \$105.00. FY 2009 monthly allocation will increase to a maximum of \$115.00 to each participant. Funding level reflects the amount required for the average number of participants.	\$440,000	\$140,000 annually and DOT Staff Support	I
<b>AQ07-05(B): Residential Traffic Administration Program</b>	Through FY 08, Board of Supervisors approved 255 traffic calming actions on residential roads. An additional 118 traffic-calming and cut-through restriction projects are in the community planning and approval phases.	\$1 million	\$200,000 annually (state funded, no allocation required from the County) and DOT Staff Support	I
<b>AQ07-07(B): Priority Bus Stop Improvement Program</b> (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 89 bus stop improvements in the design phase, and \$7.5M was included in the FY 2007 Transportation Bond for bus stop improvements.	\$10 million	\$16 million	I

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<b>AQ07-08(B): Richmond Highway Public Transportation Initiative</b>	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. Started in 2002, the program continues planning, funds acquisition and initiative implementation by a team of county staff. Construction of pedestrian improvements is underway.	\$34.5 million Funding is derived from CMAQ/RSTP grants and County Bonds	\$20.5 million is projected to complete the initiative and DOT Staff Support.	I
<b>AQ07-09(B): Air Quality Outreach</b>	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.	\$30,000 was funded as Environmental Agenda Project for FY 2009.	\$30,000 annually	I
<b>AQ07-10(B): Dulles Corridor Metrorail</b>	Extend Metrorail from the vicinity of West Falls Church Metrorail Station to Tysons Corner, Dulles Airport and Loudoun County. Phase I (to Wiehle Avenue) in Preliminary Engineering, opening scheduled for late 2013. Opening year ridership projected to be 63,000. Phase II projected opening to Dulles is in 2015-16.	\$65 million Funding is derived from FTA Grants, Tax District revenue and Toll Road fees	Total Capital Cost is \$5.3 billion; Phase I cost is \$2.64 billion and DOT Staff Support.	II
<b>AQ07-11(B): Fleet User Forums</b>	Alternative Fuels Clean Cities Partnership; Technology and Maintenance Council; National Truck Equipment Association; three work groups of the Mid-Atlantic Diesel Collaborative	None	Existing Staff Resources	N/A
<b>AQ07-13(B): Purchase of Wind Power</b>	3-year contract, April 1, 2007 – March 31, 2010, to purchase up to 10% of county's electricity	\$554,750	None	N/A
<b>AQ07-14(B): Participation on the Metropolitan Washington Air Quality Committee (MWAQC)</b>	Active participation by BOS reps and staff	None	Existing Staff Resources	N/A

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<b>AQ07-15(B): Evaluation and Purchase of Hybrid Drive Vehicles</b>	Purchasing production hybrids as scheduled replacements for conventional vehicles where mission and budget permit. Continuing evaluation of one plug-in (Prius). Could not participate in first stage of consortium school bus purchases due to lack of funding. Seeking grant funding for second phase and for one hybrid delivery truck.	No longer absorbing incremental cost of production hybrids in Vehicle Replacement Fund.	Seeking \$120,000 in grant funding for bus and truck conversion. Cost increment of \$11K each for Escape Hybrids.	I
<b>AQ07-16(B): Support for Reductions in Ozone Transport</b>	Coordination with MWAQC	N/A	Existing Staff Resources	N/A
<b>AQ07-18(B): Board of Supervisors Four-Year Transportation Plan</b>	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 construction will be completed in the summer of 2008. Seventeen projects are complete and twelve are in the bid advertisement process or under construction.	\$162 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 \$194 million.	I

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<b>AQ07-20(B): Fairfax County Transit Program</b>	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	\$59.1 million for Fairfax Connector, \$68.6 million for Metrobus and Metrorail service, and \$5.69 million for VRE commuter rail service. All annual costs.	I
<b>AQ07-23(B): Periodic Assessment of Alternative Fuel Vehicle Technology</b>	First edition completed summer of 2006.	None	No new staff required.	N/A
<b>AQ08-01(B): Regional Urban Forestry SIP Working Group</b>	This group of state and local urban forestry officials from Virginia, Maryland and D.C. has been organized by MWCOG and has been tasked by MWAQC 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
<b>AQ08-04(B): Fire Equipment Diesel Exhaust Retrofit</b>	Continuation of Diesel Retrofit Program planned for CY 2008-9.	Estimated \$300,000 in FY 2003 Carryover.	None	N/A
<b>AQ08-05(B): Tree Planting at Governmental Building and Parking Facilities</b>	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. PT08-07 is absorbed into this action.	\$170,000	\$220,000	I

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<b>AQ08-06(B): Telework Initiative</b>	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
<b>AQ09-01(B): Transportation Funding Bill</b>	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.	\$52 million per year through local fees and taxes	\$52 million annually (from newly implemented commercial real estate tax)	I
<b>AQ09-02(B): Comprehensive Bicycle Initiative</b>	The program focuses on measures to make bicycling a commuter choice by: increasing the number of on-road bike lane miles, providing bicycle lockers at park and ride lots, equipping Fairfax Connector buses with bicycle racks, and connecting activity centers and transit facilities with a continuous network of bicycle routes.	CMAQ funding of \$300,000 is available for the on-road bike lane initiative. \$247,000 General Fund for Bicycle Map	\$750,000 annually over three year period through anticipated grant funding	I

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<b>AQ10-01(B): Columbia Pike Rail Initiative</b>	The Columbia Pike Transit Alternatives Analysis was conducted by WMATA, with the cooperation of Arlington and Fairfax Counties. The Pike Transit Initiative analysis considers the development of an advanced transit system connecting the Pentagon/Pentagon City/Crystal City area with Bailey's Crossroads. The project is poised to enter the environmental documentation and preliminary engineering phase of project development. The Columbia Pike Streetcar is expected to have a daily ridership of 20,670.	\$2 million	Fairfax County's obligation is expected to be \$18M of the \$120M total capital cost and \$750K of the \$5M annual operating cost	I
<b>AQ-C. New Actions</b>				
<b>AQ07-22(C): Fuel Economy and Emissions Standards</b> (Develop a federal advocacy strategy, within the context of MWAQC, to increase fuel economy and emission standards for cars and light trucks.)	Not under way. Former Action # AQ-C-1.	None	Existing staff resources	N/A
<b>AQ09-03(C): Waiver of GVW Limit for Idle Reduction Equipment.</b>	Analysis not yet begun.	None	Existing staff resources	N/A
<b>AQ10-02(C): Reduce fuel consumption in heavy duty vehicles</b>	Explore a series of measures to reduce idling and improve mechanical efficiencies in areas such as rolling and aerodynamic resistance and transmission shift scheduling.	None	Exploration with existing staff time. Cost to implement measures will be among the selection criteria.	N/A
<b>AQ10-03(C): Continuing Purchase of Wind Power</b>	3-year contract, April 1, 2010 – March 31, 2013, to purchase at least 10% of county's electricity	0	\$783,000	I

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### III. WATER QUALITY

Title of Action	Status	Funded	Funding Needed	Priority
<b>WQ-A. Completed Actions</b>				
NONE				
<b>WQ-B. Actions Underway</b>				
<b>WQ07-01(B): Watershed Management Planning</b> (Development of comprehensive watershed management plans for all watersheds)	To date, six watershed management plans have been completed and adopted by the Fairfax County Board of Supervisors. Combined, these six plans cover approximately 50 percent of the land area in the county. Work on the other watershed management plans for the remaining 50 percent continues, with all plans anticipated to be completed by 2010.	\$15.2M, (Comprised of \$8.2M from the General Fund plus \$7M in Pro Rata Share Funds)	Current funding levels are adequate to support this initiative	N/A
<b>WQ07-02(B): Stormwater Management Implementation Plan</b> (Ongoing implementation of the expanded Stormwater program.)	The County continued its capital improvement and infrastructure reinvestment strategies during calendar year 2007, with capital expenditures totaling \$21,502,464. However, a more realistic reinvestment cycle needs to be established.	\$21.54M	The total funding that ultimately will be needed for this is too great to accomplish in a single budget year. A phased approach should be considered and could begin with restoration of the full penny.	I

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Title of Action	Status	Funded	Funding Needed	Priority
<b>WQ07-03(B): Stormwater Retrofits</b> (Identification and implementation of retrofits to existing Stormwater facilities)	Opportunities for retrofit of existing facilities are being identified in the Watershed Plans. In 2007, the county retrofitted seventeen stormwater management facilities to provide enhanced water quality. The retrofits included excavation of silt, planting wetland species in dry ponds, installation of BMP plates, creation of fore-bays and shallow wetlands, and construction of bioretention swales and basins (rain gardens).	Funding is included in the Capital Improvement Spending Plan	Current funding levels are adequate to support this initiative	N/A
<b>WQ07-04(B): Riparian Buffer Restoration</b> (To restore buffers initially at seven sites, with 40 sites targeted.)	Since the program's inception in 2004, the county, the Northern Virginia Soil and Water Conservation District and other regional partners have restored 32 stream buffer areas. Invasive plants have been removed and over 8,420 trees or shrubs have been planted by 1,481 volunteers.	\$300K funded to date.	Current funding levels are adequate to support this initiative	N/A
<b>WQ07-05(B): Stream Stabilization and Restoration Projects</b> (Implementation of projects to restore and/or stabilize stream conditions that improve the overall health of the natural system.)	In 2007, the county completed 12 restoration projects with the assistance of various non-profit organizations and volunteers. Environmental consulting firms have been engaged through a multi-year contract to assist with these types of projects. In addition, construction contracts with qualified contractors are in place and restoration work in progress in various locations, based on their designated priority.	Funding is included in the Capital Improvement Spending Plan	Current funding levels are adequate to support this initiative	N/A

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<b>WQ07-06(B): Septic System Tracking and Assistance Program</b> (Health Department program to development on-site systems and track performance.)	Health Department staff and representatives from American Water / Applied Water Management have established a project schedule and a phased approach for accomplishing the tasks necessary.	\$178K	None identified, pending results of the Feasibility Study	III
<b>WQ07-08(B): Soil Survey</b>	The mapping and data collection have been completed and have undergone quality control and assurance processes, and scanning and digitization, by the USDA-NRCS state office in Richmond. The expertise of a soil scientist, familiar with the County's soils and the County soil survey, is needed beyond the completion of the soil survey update.	\$755K for the survey and \$79K per year in FY08 and FY09 to integrate updated survey into county processes and to continue soils expertise in the county	Soil scientist currently is funded as part of the NVSWCD annual budget	N/A
<b>WQ07-09(B): Soil and Water Quality Conservation Planning for Horse Operations and Other Land in Agriculture</b>	In 2007, NVSWCD prepared Soil and Water Quality Conservation Plans for seventeen parcels, comprising 355 acres of land in agricultural use, and included 7,700 linear feet of vegetated buffers for Chesapeake Bay Resource Protection Areas (RPA). Cumulatively, 11,138 acres and 303,986 linear feet of RPA are included in conservation plans that have been developed since the program began in 1994.	Resources are budgeted in the NCSWCD annual work plan.	Current funding levels are adequate to support this initiative	N/A

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<b>WQ07-11(B): SWM reviews during the Plan Amendment Process</b> (Development of an SOP)	All such nominations are now being referred to the Stormwater Planning and Assessment Branch for review and comment. Costs of the enhanced DPWES coordination are being absorbed into the agency's operating budget. Experiences with this review process will be gauged upon completion of the current APR cycle and modifications will be made as needed.	Existing staff resources.	Current funding levels are adequate to support this initiative	<b>WQ07-11(B): SWM reviews during the Plan Amendment Process</b> (Development of an SOP)
<b>WQ08-02(B): 2006 Radio Ad Campaign</b>	This is an ongoing campaign that currently airs on eight area radio stations with a total of 1,064 spots.	\$93,450 per year	None	N/A
<b>WQ08-03(B): Stormwater Management Review Process</b>	In progress and ongoing.	Performed by existing staff	None	N/A
<b>WQ08-04(B): Low Impact Development Initiatives</b>	6 LID practices have been approved by the BOS for Phase I implementation and have been incorporated into the PFM. A draft of the LID Design Handbook is currently under review by participating jurisdictions.	Design Manual: \$40K FCPA LIDs: \$150K Other LIDs: Funded in Stormwater Management Implementation Plan.	\$250K in consultant services to develop Phase II amendments to PFM	II
<b>WQ08-05(B): Benchmarking Watershed Tree Cover Levels</b>	This effort has been funded and tree cover analysis using high resolution satellite imagery is underway, with completion of all watersheds anticipated for June 2009.	Funding is included in the Urban Forest Management Operating Budget	Current funding levels are adequate to complete the project as planned.	N/A

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Title of Action	Status	Funded	Funding Needed	Priority
<b>WQ08-06(B): Stream Flow Gauge Monitoring</b>	In 2007, the county partnered with the US Geological Survey to install a water resources monitoring network. Both dry and wet weather (storm event) nutrient data are being collected by means of 4 USGS water gauging stations throughout the County. The data is posted to a USGS web page, typically within 1 to 2 hours after collection.	-0-	Current funding levels are adequate to support this initiative	N/A
<b>WQ08-07(B): MS4 Permit Application</b>	Negotiations are currently underway. DCR has submitted a second preliminary draft of the Permit to the county and the county, in consultation with AMEC, responded on April 11, 2008, with a list of requested clarifications, questions and comments. The FCPS Permit is being coordinated with the County Permit, with the addition of five new positions, approved in the FY 2009 adopted budget.	\$140K	None identified. Currently authorized funding is adequate to complete the project as planned.	N/A
<b>WQ08-08(B): Outreach and Education Program</b>	Staff, NVSWCD, various regional partners and contracted services are working on multiple communication initiatives, including the improvement and expansion of existing education tools such as Web sites; public informational workshops and internal communication training.	Funding is included in the operating budgets of the participating partners.	Current funding levels are adequate to support this initiative	N/A
<b>WQ08-09(B): Establishing Tree Cover Goals for Watersheds</b>	Benchmarking is underway to quantify tree cover within the County's 30 watersheds, with tree cover goals expected to be established by CY2009.	Funding is included in the UFM Operating Budget.	None identified for FY2010	N/A

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Title of Action	Status	Funded	Funding Needed	Priority
<b>WQ-C. New Actions</b>				
<b>WQ07-10(C): Comprehensive Review of the County's Code and Zoning Requirements</b> (ID regulatory impediments and policy conflicts re: better site design principles)	This has not been initiated. Consideration of various approaches is being evaluated.	-0-	Depending on approach, this will require staff and external resources (\$100,000 to \$250,000)	III
<b>WQ07-12(C): Review of Standards and Guidelines for SP, SE, and Public Uses in the R-C District</b>	This item is included on the Priority 1 Zoning Ordinance Amendment Work Program for 2008.	-0-	TBD, but substantial staff resources (significant commitment of two to four planner positions) will be needed	N/A
<b>WQ10-01(C): Riparian Buffer Maintenance</b>	This new project is to maintain and supplement the 31 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	Funded	Funding Needed	Priority
<b>SW-A. Completed Actions</b>				
<b>SW08-03(A): Standby Power from Covanta E/RRF to Griffith WTP and Noman Cole WWTP</b>	Project will not go forward.	N/A	N/A	N/A
<b>SW-B. Actions Under Way</b>				
<b>SW07-02(B): Expand Recycling Programs</b>	Chapter 109 revised (now, Chapter 109.1) to include an expanded list of materials and expansion of non-residential programs. Efforts now focus on outreach, education, and coordination w/ other affected agencies also in progress. Expansion of internal recycling would require additional funding.	Original funding of \$100,000 from FY2004 was expended by FY2006.	\$175,000	I
<b>SW07-03(B): Encourage Use of Recycled Products through Environmentally Preferable Purchasing (EPP)</b>	County Procedural Memoranda (PM) 143. The SWMP has provided technical support to Department of Purchasing and Supply Management to work toward development of such a program.	Funding source not identified.	\$10,000 for program needs.	II
<b>SW07-04(B): Increase County Use of Recycled Products</b>	County Procedural Memoranda (PM)144. The SWMP has provided technical support to DPSM to work toward development of such a program.	Funding source not identified.	\$10,000 per year	I

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<b>SW07-05(B): Remote HHW Collection Events</b>	Third consecutive year of remote events is in progress. Previously funded for fund five (5) scheduled events in 2007. Participation in these events continues to grow, with costs directly linked to the number of residents using the program	\$75,000 for FY 2009 events.	Future events anticipated to cost \$115,000 per year	I
<b>SW07-06(B): Develop Long-Term Plans to Manage Electronic Waste within Fairfax County</b>	No change in status. Requires building of infrastructure to support program for a permanent facility and addition to staff to conduct the activities. Current plan is limited to several collection events annually.	Funding source not yet identified.	\$225,000 per year.	I
<b>SW07-07(B): Develop A Toxics Reduction Campaign</b>	The “KnowToxics” Program has been established as a regional effort to address management of fluorescent bulbs, rechargeable batteries, and obsolete electronics. The main features of the program is a website entitled “KnowToxics.com” and selected radio and print advertising.	Basic Program underway, Funding source not yet identified for expanded Program.	\$50,000 per year.	I

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Title of Action	<u>Status</u>	Funded	Funding Needed	Priority
<b>SW08-02(B): WWTP Effluent Reuse at Covanta E/RRF from Noman Cole WWTP</b>	Initial feasibility study was completed and project deemed technically and economically feasible. Efforts must now focus on developing the project final design and negotiating water use rates and terms with Covanta and other potential water users.	\$124,000 for initial study.	Work to develop capital estimate is ongoing.	II
<b>SW08-04(B): Clean Streets Initiative</b>	This new program, to cleanup debris piles left at the curb, is underway and has proven enormously successful and effective. Requests for action are ongoing.	Startup support provided by DSWCR	\$45,000 for ongoing public outreach, and to offset un-recovered costs.	I
<b>SW08-01(B): Maximize Energy Recovery from LFG Resources</b>	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. Use at the Department of Vehicle Services Maintenance Garage is anticipated for the 2008/09 heating season. Work will now focus on investigating feasibility for heating use at the new West Ox Bus Operations Center.	\$300,000 of EIP funds used for initial project design and construction cost.	\$150,000 needed to expand project to other facilities.	I

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Title of Action	<u>Status</u>	Funded	Funding Needed	Priority
<b>SW-C. New Actions</b>				
<b>SW10-01 (C): Support Trash-Free Potomac Watershed Initiative</b>	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.	N/A	\$50,000	I
<b>SW10-02 (C): Renewable Energy Demonstration Park</b>	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, will likely be the installation of a solar water heater in the truck driver's restroom at the facility. Later Phases may include a windmill and solar panel array.	Approximately \$5,000 in equipment and staff time to install the water heater, with a matching donation from Covanta.	\$45,000 to complete initial feasibility study and overall Park concept/ design. Further start-up funding may be necessary to complete specific projects in later Phases	I

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

Title of Action	Status	Funded	Funding Needed	Priority
<b>PT-A. Completed Actions</b>				
<b>PT08-02(A): Park Trail Mapping</b>	Complete	\$160,000 funded by Board of Supervisors at FY 2005 carryover.	N/A	N/A
<b>PT08-04(A): Developing Natural Landscaping Guidelines and Policies for County Properties</b>	Complete	No fiscal impact beyond current agency funding levels	N/A	N/A
<b>PT08-07(A): Planting Trees for Energy Conservation at County Facilities</b>  Tree planting and public education project related to BOS directed Natural Landscaping	This action is ongoing, but is absorbed into AQ08-05(B)			
<b>PT-B. Actions Underway</b>				
<b>PT07-01(B): 10-Year Pedestrian Capital Plan</b>	Underway. The pedestrian task force final report was presented to the Board in January 2006, recommending a safety awareness campaign and a 10 year pedestrian capital plan. Seeking funding to implement.	N/A	\$46 million through 2011.	I

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Title of Action	Status	Funded	Funding Needed	Priority
<b>PT07-02(B): Trail Projects/Pedestrian Improvements</b>	Underway	\$4,500,000	\$2,000,000 per year	I
<b>PT07-03(B): Pedestrian Improvements in the Four Year Transportation Plan</b>	Underway	\$16,000,000	N/A	N/A
<b>PT07-04(B): Pedestrian Improvements as part of the State's Secondary Construction Program</b>	Underway	\$2,900,000 funded through FY 2009	N/A	N/A
<b>PT07-05(B): Trails Inventory and Planning</b> Continue to update the existing trails map to help identify missing trail links.	Underway. The Department of Public Works and Environmental Services and the Park Authority are working to update GIS data and routines are being developed to update information from new developments. The Department of Planning and Zoning will utilize this data for trail planning and to develop trail maps. <i>See project EIP08-PT08-02 (B).</i>	Most mapping costs absorbed in existing resources.	\$2,000,000 per year (see PT07-02(B))	N/A

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Title of Action	Status	Funded	Funding Needed	Priority
<b>PT07-6(B): Upgrades for the Cross County Trail</b>	After 6 years of work the Cross County Trail was completed in December 2005. In future years, additional funding in the amount of \$4,000,000 will be needed for improvements to the existing trail. These improvements will include re-routed sections, additional and improved stream crossings, improved and relocated road crossings, additional signs to identify trail connections, rest stop locations, drinking water sources, etc., and additional upgrades to trail surfacing.	See EIP10-PT07-07	In future years, additional funding in the amount of \$4,000,000 will be needed for improvements to the existing trail.	I
<b>PT07-7(B): Park Authority Trail System</b> The Park Authority trail system continues to be developed through the park bond program and through volunteer efforts.	Current and future efforts include evaluating missing links and providing needed trail network connections. In addition, trail plans need to be completed for Laurel Hill and Sully Woodlands where the complexity and breadth of the land and variety of uses will require careful planning.	\$5,000,000	\$70,000,000	I

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Title of Action	Status	Funded	Funding Needed	Priority
<p><b>PT07-8(B): Interpretive Signs Along FCPA Trail System</b> The newly completed Cross County Trail, which stretches over 40 miles from the Potomac River in the north to the Occoquan River in the south, mostly within stream valley parkland, presents an ideal way to provide trail users with information about natural and cultural features found in Fairfax County.</p>	Five interpretive signs have been developed, incorporating themes from the natural and cultural components of the trail. Themes have been outlined and prioritized for new signs as funding allows.	N/A	\$750,000	I
<p><b>PT07-09(B): FCPA Urban Pocket Parks</b></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	II
<p><b>PT07-10(B): Parks and Recreation Needs Assessment Process</b>  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.	\$300,000	TBD	N/A

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Title of Action	Status	Funded	Funding Needed	Priority
<p><b>PT07-11(B): Parks and Recreation Needs Assessment Implementation</b>  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 Near Term Needs will be satisfied through the acquisition and build out of the current and upcoming Capital Improvement Plans. The approved 2004 Park Bond will also meet a portion of the funding need (\$13,250,000 per year for 4 years).	\$68,000,000 (2004 & 2006 Park Bonds)	\$ 27,583,995	I
<p><b>PT07-12(B): Parkland Acquisition</b>  The Park Authority has an ongoing program for acquisition of property, including vacant and underutilized parcels, for open space.</p>	Chairman Connolly has challenged the Park Authority to acquire 10% of the land in the county. Current land holdings account for 9.5% of the county, with an additional 1,00 need to reach the 10% target.	\$2,000,000 (remaining in 2006 bond)	\$100,000,000	I
<p><b>PT07-13(B): Open Space Easements/NVCT Partnership</b></p>	Ongoing	\$282,047 (Approved County Contribution for FY09)	Future Cost: \$282,047 + CPI (annual cost)	N/A
<p><b>PT07-14(B): Park Authority Conservation Easement Initiatives</b></p>	Ongoing \$10,000,000 would help establish a more aggressive Park Authority conservation easement program.	\$2,000,000 (remaining in 2006 bond)	\$10,000,000	II

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Title of Action	Status	Funded	Funding Needed	Priority
<p><b>PT07-17(B): Park Authority Natural Resource Management Plan Implementation--Encroachment Enforcement</b></p>	<p>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.</p>	<p>N/A</p>	<p>\$200,000 needed annually</p>	<p>I</p>
<p><b>PT08-01(B): Park Natural Resource Management</b>  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. Fiscal Year 2008 will mark the 4<sup>th</sup> year of plan implementation.</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>	<p>Three 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.</p>	<p>N/A</p>	<p>Phase 1: \$650,000 per year including six new staff positions. \$3,000,000 per year needed for full program. \$200,000 would fund a one-time project, the Resource Assessment Toolkit.</p>	<p>I</p>

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<p><b>PT08-03(B): Park Information Systems</b>  This project will expand the use of Geographic Information Systems (GIS) for Park Authority natural resource management.</p>	<p>The project will be 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>\$180,000 funded by Board of Supervisors at FY 2004 carryover</p>	<p>\$200,000-\$1,000,000 to test and implement the model.</p>	<p>I</p>
<p><b>PT09-01(B). Creation of District-Wide Park Plans</b></p>	<p>The Park Planning Branch of the FCPA will evaluate the existing park system systematically by planning district. For each planning district, data will be compiled about existing park conditions, existing and planned park facilities, resources and uses and how resources serve those who live in and around the district.</p>	<p>N/A</p>	<p>N/A</p>	<p>N/A</p>
<p><b>PT09-02(B). Energy Manager Park Authority</b></p>	<p><i>This fact sheet has moved to Environmental Stewardship and is now called <u>EIP10-ES09-18(B). Energy Manager, Park Authority</u></i></p>			

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<b>PT09-03(B). Synthetic Turf Athletic Fields</b>	The Park Authority has begun developing synthetic turf fields to increase usability and to reduce maintenance and environmental impacts.	\$10,000,0000	TBD	I
<b>PT-C. New Actions</b>				
<b>PT07-21(C): Park Authority Natural Resource Management Plan Implementation--Boundary Survey and Marking</b>	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.	N/A	\$250,000 needed annually	I
<b>PT08-05(C): Sully Woodlands Interpretive Center and Resource Management</b> The Park Authority is developing 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.	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.	N/A	TBD	I

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Title of Action	Status	Funded	Funding Needed	Priority
<p><b>PT08-06(C): Implementing Natural Landscaping Practices on County Properties</b></p> <p>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>
<p><b>PT10-01(C): Weather Stations for Efficient Water Use at Golf Courses</b></p>	<p>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</p>	<p>N/A</p>	<p>\$10,000</p>	<p>I</p>

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## **VI. ENVIRONMENTAL STEWARDSHIP (ES)**

Title of Action	Status	Funded	Funding Needed	Priority
<b>ES-A. Completed Actions</b>				
<b>ES09-07 (A) Development of a Green Building Policy for County Capital Projects</b>	In February 2008, the Board of Supervisors adopted a Sustainable Development Policy for all major building projects that are owned and operated by the County. DPWES will continue to follow the LEED approach on all new projects and pursue formal certification. Also, DPWES will use the LEED program as the framework for evaluating the best balance of cost effective and impact sustainable development alternatives for each project.	Existing FMD staff resources completed the project and will implement the policy in conjunction with Value Engineering and Life Cycle Cost Analyses	N/A	N/A
<b>ES10-01 (A) Calculate and Validate the Noman M. Cole, Jr. Pollution Control Plant's Carbon Footprint.</b>	The carbon footprint for the Noman M. Cole, Jr. Pollution Control Plant has been calculated and validated by a third party.	Existing staff resources and funding were used to complete the action in FY 2008	N/A	N/A
<b>ES10-02 (A) Tree Planting at the Norman M. Cole, Jr. Pollution Control Plant</b>	In November 2007 the Wastewater Treatment Division hosted Earth Sangha volunteers at the Noman M. Cole, Jr. Pollution Control Plant. The volunteers planted approximately 1,000 trees on the site of the RR Building at the plant.	Existing staff and volunteers completed the project.	N/A	N/A

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Title of Action	Status	Funded	Funding Needed	Priority
<b>ES-B. Actions Underway</b>				
<p><b>ES07-02 (B) Volunteer Stream Monitoring</b></p> <p>Quality assured citizen-based biological, chemical and observational monitoring complements DPWES monitoring, provides trend data and flags emerging problems.</p>	<p>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. Ongoing coordination with DPWES staff and county stream data reporting. FCPA staff conduct monitoring and support volunteer efforts.</p>	<p>One staff person budgeted as part of NVSWCD work plan; assistance from interns; supplies through grants. (Volunteer contributions valued at \$86,000).</p>	<p>None</p>	<p>N/A</p>
<p><b>ES07-09 (B) FCPA “Adoption” Program for Natural Areas Such as Parks, Trails and Stream Valleys</b></p> <p>HOAs, churches, and schools adopt nearby parks, trails, playgrounds and natural areas.</p>	<p>Groups and FCPA determine scope of activity and sign an agreement. FCPA to explore how to develop a more comprehensive program for adoption of natural areas. Potential to involve children through adoption of natural resource management areas near schools.</p>	<p>Efforts at current level are funded. Additional staff to manage groups that adopt projects/parks may be needed.</p>	<p>None</p>	<p>N/A</p>
<p><b>ES07-10 (B) Storm Drain Marking – Pollution Prevention Program</b></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 markers or stencils on storm drain inlets. DPWES-Stormwater funds markers and glue and assists with program promotion.</p>	<p>Part of NVSWCD work plan; 40% of a staff person’s time dedicated to this program. DPWES: \$15-18,000 annually</p>	<p>None at current level. Further expansion would require additional resources</p>	<p>N/A</p>

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<p><b>ES08-01 (B) Education and Outreach Programs</b></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>
<p><b>ES08-02 (B) Environmental Education Programs Involving Youth</b></p> <p>Programs, many in partnership with schools, build understanding and respect for natural resources and further environmental 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.</p>	<p>Budgeted as part of FCPA, NVSWCD and DPWES annual work plans.</p>	<p>None</p>	<p>N/A</p>
<p><b>ES08-03 (B) Stream and Watershed Cleanup Efforts</b></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, 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><b>ES08-04 (B) Support of Citizen-Based Environmental Stewardship Programs and Activities</b></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 newly formed organizations, such as the Fairfax Chapter of the Virginia Master Naturalist Program.</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>
<p><b>ES08-05 (B) Park Authority Stewardship Education</b></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. Twelve brochures and six 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.</p>	<p>\$135,000 at FY 2004 Carryover and \$150,000 at FY 2006 Carryover; \$50,000 in FY2008 Budget for Environmental Projects</p>	<p>None</p>	<p>N/A</p>

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<p><b>ES08-06 (B) Invasive Management Projects</b></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 43 trained leaders have committed to four work-days per year at 41 sites. In 2008, the Park Authority will implement its second year of the Invasive Conservation Corps (a summer intern program) with a focus on manual removal of invasive species at IMA sites, riparian buffer planting sites and staffed sites. 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 will be developed by a contractor to include assessment, prioritization (species and locations) and a control program.</p>	<p>\$150,000 in FY2009 Budget for Environmental Projects</p>	<p>\$200,000 + per year</p>	<p>N/A</p>
<p><b>ES08-10 (B) Partnering with Non-Profit Tree Planting Groups in Establishing a Countywide Tree Planting Program</b></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 2009, 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</p>	<p>\$250,000 more to be disbursed over a 4-year period, with \$110,000 in FY2010.</p>	<p>I</p>

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<p><b>ES09-05 (B) NACo/Energy Star Change a Light Program</b></p> <p>An initiative to replace incandescent lights at home with compact fluorescent lamps (CFL).</p>	<p>In FY2007, phase I was for county employees and phase II was for citizens. The program resulted in 835 total pledges, 606,583 kWh saved and 1.1 million pounds of CO2 emissions prevented. In 2007 the County won 1<sup>st</sup> place NACO award for public outreach, and received 1,000 CFL bulbs, which will be distributed at public events. The campaign will continue on an annual basis.</p>	<p>Promotional materials will come from FMD operating budget.</p>	<p>None</p>	<p>N/A</p>
<p><b>ES09-06 (B) Joined Energy Star Challenge</b></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><b>ES09-08 (B) 30 Year Tree Canopy Goal</b></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>
<p><b>ES09-09 (B) Development of an Energy Management Program Through the Establishment of a Countywide Energy Coordinator Position</b></p>	<p>This program is needed to provide continuity and consistency for all of the county’s energy conservation efforts, provide regional coordination, and public outreach. This program is entirely dependent on the hiring of a countywide Energy Coordinator.</p>	<p>\$100,000</p>	<p>TBD</p>	<p>I</p>

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<b>ES09-12 (B) Government Center HVAC Component Replacement</b>	Chillers should be replaced with more efficient and environmentally friendly type. Pumps, cooling towers, kitchen heat recovery equipment, also need replacement. Replace pneumatic VAV boxes with DDC to take full advantage of building automation system. Funding will be requested in FMD's FY2009 Fund 317.	\$2,200,000 chiller replacement approve by BOS in FY 2009 budget	\$2,200,000 for additional items are unfunded.	II
<b>ES09-14 (B) Increase Energy Code Compliance for Mechanical Systems</b>	The Building Plan Review Dept of DPWES Land Development Services currently is developing on a new compliance certification form to ensure compliance of the mechanical systems in facilities constructed in the county are as energy efficient as is required by code.	Existing staff will be used	No additional resources are required	N/A
<b>ES09-18 (B) Energy Manager, Park Authority</b> <i>formerly PT09-02 (B)</i>	After several years of planning and in support of the Park Authority's Strategic Plan 2006-2010, an energy manager position was established and filled. One objective of the Strategic Plan is to create an Energy Management Plan for the agency. The position also will be responsible for energy audits, reviewing utility bills for anomalies, and researching and recommending new energy saving technology.	\$107,120 funded in FY 2007 carryover. \$278,100 funded in FY 2009 budget.	\$99,875	I
<b>ES10-03 (B) Implement Environmental Management System for Wastewater Management Program</b>	Currently Wastewater Management has achieved recognition in the Virginia Environmental Excellence Program at the E3 level, and has a commitment to achieve the next level of recognition, E4.	Existing staff resources and funding provided in FY 2009	No additional	N/A

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<b>ES10-04 (B) Water Use Reduction in Wastewater Management Program Laboratory</b>	In 2007, the Lab realized a reduction in deionized water usage by 8,040 gallons per year	Existing staff resources	No additional	N/A
<b>ES10-05 (B) Use Reclaimed Water in the Irrigation System for Noman Cole Pollution Control Plant Landscaping</b>	The installation of an irrigation system was completed in March 2008, and use began in May 2008. The system is designed for future expansion.	Funding provided in FY 2008	N/A	N/A
<b>ES10-06 (B) Maintain Potable Water Savings and Additional Opportunities for Reduction in Potable Water Use at Noman Cole Pollution Control Plant</b>	Reclaimed water is used in many ways, such as for backwashing filters, seal water, wash down, 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.	Existing staff resources	N/A	N/A
<b>ES10-07 (B) Establish a Rain Garden at Noman Cole Pollution Control Plant</b>	A design and cost estimate are being developed.	Existing resources	N/A	N/A
<b>ES—New Actions</b>				
<b>ES08-07 (C) Neighborhood Ecological Stewardship Training (NEST)</b>  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, 50 partners were engaged with 200 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)).		\$35,000 For a part-time person and supplies.	I

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Title of Action	Status	Funded	Funding Needed	Priority
<b>ES08-08 (C) Conservation Landscaping for Schools and Neighborhoods</b>	<i>This Fact Sheet has been integrated with ES10-15 (C)</i>			
<b>ES08-09 (C) Promoting the Use of Natural Landscaping Practices by the Private Sector</b>  Public education and engagement to encourage natural landscaping on private property, in conjunction with implementing the Natural Landscaping Plan on county properties.	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.		\$30,000 To produce educational materials, install interpretive signs and host workshops	II
<b>ES08-11 (C) Promoting Stewardship Of Urban Forest Resources</b>  Program to build appreciation for trees and urban forests by residents	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.		\$55,000 Funds will be used to develop an education and outreach plan and to develop and print educational materials.	I
<b>ES09-10 (C) Energy Outreach Program</b> ▪ Residential Energy Audits ▪ Distribute free Compact Fluorescent Lamps (CFL's) to county citizens ▪ Energy Scholarship for student committed to pursuing education in energy conservation ▪ Website & brochures	Outreach program is dependent on the Energy Management program receiving approval. Separate funding for outreach purposes is needed above the salary requirements of the Energy Management Program staff.		\$100,000/yr	II

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<p><b>ES09-13 (C) Install Energy Management Control Systems in Remaining County Facilities</b></p> <p>*Implementation could begin in 2009, but would be a long term project to incorporate into all remaining facilities.</p>	<p>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 (Gum Springs Community Center and Bailey’s Community Center)</p>		<p>\$4,000,000 for all remaining facilities, or approximately \$400,000 for installation in two specific facilities.</p>	<p>I/III*</p>
<p><b>ES09-15 (C) Government Center Energy project</b></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>TBD</p>	<p>III</p>
<p><b>ES09-16 (C) Feasibility study for Renewable Energy Technologies</b></p>	<p>A study is needed to assess appropriate facilities and payback analysis for implementation of renewable energy technologies such as solar.</p>		<p>TBD</p>	<p>II</p>
<p><b>ES09-17 (C) Perform Energy Audits for county facilities</b></p>	<p>Physical inspection needs to be conducted of all the county facilities to make suggestions for energy improvements, separate from capital renewal projects.</p>		<p>\$500,000 needed to perform energy audits in 100 facilities</p>	<p>III</p>

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<b>ES10-08 (C) Park Authority RecCenters Lighting Improvement for Swimming Pools and Racquetball Courts</b>	Initiative relates to energy survey conducted in FCPA facilities. The Park Authority has 9 indoor swimming pools and 19 racquetball courts with metal halide lamps and some of them don't have appropriate quality of light. Racquetball courts lights have to be on the whole day since metal halide lamps need some time between off and on and some of swimming pools use additional fixtures since they are using indirect lighting. Upgrading these systems will provide this opportunity to significantly reduce energy consumption and energy bills and also reduce CO2 generation to atmosphere.		\$900,000	I
<b>ES10-09 (C) Park Authority Athletic Fields Lighting Improvement</b>	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 don't have appropriate control system. Upgrading these systems will reduce energy consumption and energy bills and will reduce CO2 emissions to the atmosphere.		Assessment: \$10,000 Retrofit: TBD	I

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<b>ES10-10 (C) Building Envelop Assessment and Improvement for Park Authority Facilities</b>	Initiative relates to energy survey conducted in FCPA facilities. A better building envelope can help make a building energy efficient and environmentally friendly. The Park Authority has different types of facilities and some of these facilities have old buildings that need to be evaluated in terms of building envelop and controlling air flow between indoor and out door, which significantly affects the building energy efficiency and energy use by HVAC systems. This action will save energy uses for HVAC systems, will reduce energy bills, and will reduce CO2 generation to atmosphere.		Assessment: \$60,000 Retrofit: TBD	I
<b>ES10-11 (C) Park Authority Facilities Small HVAC Systems</b>	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 58 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 replacement of old units to high efficient units from 8/10 to 14 SEER rating.		\$950,000	I

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<p><b>ES10-12 (C) “Earth Hour” Event Participation</b></p> <p>An event to raise energy awareness by turning off non-essential lights and other electrical equipment for one hour.</p>	<p>The cost-benefit of participating in this world wide international outreach event, sponsored by the World Wildlife Fund on March 29, 2009, is needed.</p>	<p>Existing staff resources for preliminary evaluation.</p>	<p>TBD</p>	<p>N/A</p>
<p><b>ES10-13 (C) Master Watershed Stewards Certification Program</b></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 in 2010</p>	<p>I</p>
<p><b>ES10-14 (C) Water Conservation Education and Device Distribution Program</b></p> <p><i>Water: Use it Wisely</i> color brochures in pdf format are available through the Council of Governments. Printing and distribution can be accomplished through a county vendor in a similar manner that was done for the Tick and Mosquito Brochure that was recently distributed to all county residents by the Health Department. 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 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>	<p>None</p>	<p>TBD</p>	<p>II</p>

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<p><b>ES10-15 (C) Environmental Stewardship Matching Grants Program for Watershed Protection and Energy Conservation</b></p> <p>An environmental stewardship grant program for watershed protection and energy conservation actions by residents, HOAs and schools.</p>	<p>ES08-08(C) from EIP FY 2009 has been incorporated in this action.</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>		<p>\$65,000 to fund grants and a part-time program coordinator. \$25,000 for a pilot project, using existing staff resources.</p>	<p>I</p>

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