Executive Summary

Fairfax County has a long history of planning at the watershed scale. The County's first series of watershed plans was completed in the 1970s. Since that time, land use has changed significantly and there have been many advances in the fields of stormwater management and ecological restoration. These advances have been reflected in the countywide goals for the program, which are consistent across all County watershed plans. These include:

1. Improve and maintain watershed functions in Fairfax County, including hydrology, water quality, and habitat.
2. Protect human health, safety, and property by reducing stormwater impacts.
3. Involve stakeholders in the protection, maintenance and restoration of County watersheds.

The *Accotink Creek Watershed Management Plan* provides a summary of the existing and future conditions of the Accotink Creek watershed in south-central Fairfax County, Virginia and presents a strategy for restoring and preserving its natural resources. The plan was initiated by Fairfax County as part of a multi-year, multi-objective program to preserve and restore the County's natural environment and aquatic resources, and is consistent with the Fairfax County Board of Supervisors' Environmental Agenda adopted in June 2004. It has been prepared as part of the process of compliance with state and federal laws and mandates, including Virginia's Chesapeake Bay Initiatives and the federal Clean Water Act.

Accotink Creek is approximately 52 square miles and is the second largest watershed in the County. To facilitate data management and promote local awareness of the streams, the watershed was subdivided into 16 Watershed Management Areas (WMAs) approximately four square miles in size. These include Bear Branch, Crook Branch, Daniels Run, Hunters Branch, Long Branch Central, Long Branch North, Long Branch South, Potomac and Mainstem 1 through 8. The WMAs were further divided into subwatersheds with a target area of 100 to 300 acres. The subwatershed represents the smallest assessment unit for the watershed plan.

Approximately 11.7 square miles (23 percent) of the watershed are located in areas outside of the County jurisdiction and are not included in this plan. Lake Accotink is located in the center of the watershed. It has a surface area of 68 acres and exerts significant influence on the drainage characteristics of the watershed.

Previous Studies and Data Compilation

The 1970s watershed plans provided useful background information for land use changes, problems previously identified in the watershed and proposed solutions. The County's land use and parcel mapping data were used to determine the pattern of development. GIS layers were also used as the basis for developing watershed models. Indicators were used to determine the health of each subwatershed and determine the cause of any impairment. Monitoring results provided much of the data needed for the indicators, including information from the County's ongoing bioassessment program, the Stream Physical Assessment conducted in 2002 and water quality sampling results from the County Health Department and Virginia Department of Environmental Quality.

Public Involvement

The watershed plan development process was supported by two levels of public involvement. The first level consisted of two meetings open to the public: the Introductory and Issues Scoping Forum that launched the public involvement process, held at West Springfield High School in October 2008; and the Draft Plan Review Workshop, held at Fairfax High School in September 2010. The second level of public involvement was provided by the Watershed Advisory Group (WAG), which met five times over the course of the process. The WAG was made up of local stakeholders who advised the planning team about community outreach opportunities, key issues affecting the watersheds and feedback on potential projects.

Existing Watershed Conditions

Current land-use mapping shows that the watershed is 87 percent developed, with 13 percent remaining as either open space (primarily along stream corridors) or water. The watershed is essentially built out with only four percent of the land use expected to change through redevelopment and conversion of open space to high-intensity commercial land use.

Overall, the watershed is 27 percent impervious. Imperviousness among the WMAs in the watershed ranges from three percent in the Potomac WMA to 41 percent impervious in the Long Branch North WMA. Imperviousness across the watershed is expected to increase by approximately 1.5 percent from future development.

Results of the 2002 Stream Physical Assessment ranked the watershed in the lower middle range of quality when compared to other watersheds in the County. Ninety-one percent of stream channels were classified as unstable and experiencing severe bank erosion.

Watershed Planning Process

The watershed planning process consisted of the following six steps:

1. Review and synthesis of previous studies and data compilation
2. Public involvement to gain input, provide education and build community support
3. Evaluation of current watershed conditions and evaluation of stormwater runoff and other impacts from present and ultimate development conditions
4. Development of non-structural and structural watershed improvement projects
5. Development of preliminary cost estimates, cost/benefit analysis and prioritization of capital projects
6. Adoption of the final watershed management plan by the Board of Supervisors

A set of measurable indicators was applied to develop a consistent project identification and prioritization process across the watershed. The indicators were grouped into the following categories:

- **Watershed Impact Indicators** − Measure the extent that reversal or prevention of a particular watershed impact, sought by the goals and objectives, has been achieved ("What's there now, and how is it doing?").
- **Source Indicators** − Quantify the presence of a potential stressor or pollutant source ("Is there a problem, and what's causing it?").
- **Programmatic Indicators** –After the plans are adopted, these will assess outcomes of resource protection and restoration activities ("What's the County doing about the problem, and how is it doing?").

The indicators were the key measures by which the conditions of the watersheds were assessed – comparing conditions at the subwatershed level and ranking them from best condition to worst. They provided a quantifiable method to determine why a particular subwatershed was in poor condition, whether from stream impacts, flooding, lack of buffers, forest, or wetlands, or high levels of stormwater pollution. This ranking helped to identify appropriate improvement projects and provided a method of measuring and prioritizing which projects would be most effective.

The subwatershed ranking analysis showed at least one impaired subwatershed in each of the 14 WMAs included in the analysis.. A majority of the subwatersheds in Daniels Run, Hunters Branch, Long Branch Central, Mainstem 4, Mainstem 5 and Mainstem 6 WMAs were in good condition. This is due to the influence of forested or undeveloped parcels, parks, golf courses and Fort Belvoir.

The remaining WMAs had a higher number of impaired subwatersheds. Impairments included runoff impacts, flooding hazards, habitat health and water quality degradation. In Long Branch North, a subwatershed in the southwestern corner of the WMA was among the lowest ranked overall due to low forest cover and high levels of impervious cover. Mainstem 3 had 11of the highest priority subwatersheds in the project and Mainstem 7 had six subwatersheds in industrial areas which scored poorly for water quality. The highest priority subwatersheds were the ones that scored in the lowest forty percent in the ranking analysis..

Watershed Restoration Strategies

Development of watershed restoration strategies involved two elements: determine where to prioritize restoration and preservation efforts; and identify the specific practices and locations where improvements could be made.

The overall strategy for restoring and protecting the Accotink Creek watershed was developed with the assistance and input of the Watershed Advisory Group (WAG). WAG members contributed the following approaches for subwatershed prioritization:

- Preserve pristine areas from development or degradation
- Restore areas with limited impairment to extend habitat and populations
- Restore areas that are highly impaired due to specific, and treatable factors

These recommendations highlight that targeting improvements only in the most impaired areas may not be the best watershed restoration method, and that other approaches to targeting improvements may work better. They also recognized that preventing impairments through preservation is more cost-effective than trying restore an impaired system.

Specific restoration practices proposed for improvements were categorized as structural or non-structural. Structural practices are physical structures which are generally budgeted through the County's Capital Improvement Plan and involve engineering, design and construction. Non-structural practices are more programmatic in nature, and usually focus on controlling stormwater runoff at the source through reducing the amount of runoff and/or reducing the opportunity for stormwater to transport pollutants downstream.

Structural practices included:

- New Stormwater Management Ponds or Stormwater Pond Retrofits

- Stream Restoration
- Area-Wide Drainage Improvements
- Culvert Retrofits
- New BMP/LID or BMP/LID Retrofits
- Flood Protection Mitigation
- Outfall Improvements

Non-structural practices included:

- Buffer restoration
- Rain barrel programs
- Dumpsite and obstruction removals
- Community outreach and public education
- Land conservation coordination projects
- Inspection and enforcement projects
- Street sweeping programs

To find potential project locations, a desktop assessment was first conducted to identify sites for structural projects. This initial assessment focused on sites for storage retrofits, to reduce or modify storm event peak flows and onsite retrofits primarily to provide water quality improvements. Existing ponds and drainage areas above culverts were identified for storage retrofit. Onsite retrofit sites ranged from parking lots, rooftops, outfalls to inlets. Potential projects for stream restoration, flood mitigation and buffer restoration also were identified. In all, over 513 potential project sites were flagged for follow-up.

Non-structural projects were identified from field assessment of potential pollutant sources in a sampling of residential and commercial areas.

Candidate sites for stormwater retrofits and stream restoration were subsequently assessed in the field to identify any site constraints that would prevent improvements from being implemented or to note potential opportunities that would make improvements more likely to be successful. The result of the field assessment was either a rough concept for the improvement or a decision that the project was either not feasible or the constraints outweighed the potential benefits. Planning-level cost estimates were developed for the feasible projects and smaller projects were grouped together based on cost and location.

Prioritization, Benefits and Costs of Plan Implementation

Projects were prioritized for implementation using a score based upon the weighted average of the indicators and other factors: impact indicators (30 percent), source indicators (30 percent), location in a priority subwatershed (10 percent), upstream/downstream sequencing (20 percent) and implementability (10 percent). Each project's final score was used to determine whether the project fell into a high or low priority phase. Projects in the high priority phase would be constructed in the 0 to 10 year timeframe, and low priority projects in an 11 to 25 year timeframe.

This plan identified 120 high priority projects (subsequently called 10–year projects) for concept design and cost estimation. A project fact sheet was created for each of the high priority projects and provides a description of the project, benefits and constraints, a schematic design and a cost estimate, and can be found in Section 5. An additional 97 lower priority projects were identified for the 25-yr plan. These projects do not have individual project fact sheets, but

information can be found under their individual WMA in Section 5. Finally, 28 non-structural projects were identified.

In order to assess the benefits of the Accotink Creek Watershed Management Plan, hydrologic, hydraulic and pollutant loading modeling was conducted for existing conditions and future conditions with and without the proposed projects. All projects were modeled for pollutant loading reductions. Only the 10-year projects were modeled for hydrologic and hydraulic benefits.

The benefits of the plan include eliminating the overtopping of at least one road crossing, reducing flooding potential, restoration of three miles of streams and one-half mile of stream buffers. Pollutant loads would be reduced by as much as 192 tons per year of sediment, 3,921 pounds per year of nitrogen and 654 pounds per year of phosphorus for the 10-yr implementation plan. The full 25-yr plan implementation would reduce pollutant loading by 305 tons per year of sediment, 6,209 pounds per year of nitrogen and 1,307 pounds per year of phosphorus.

The total estimated cost for the structural projects for the 10-year plan is $48 million. Full plan implementation of structural projects is $75 million. All proposed projects are presented in the table below.

Table ES-1: Summary of Watershed Strategies

Priority Structural Projects (Ten Year Implementation Plan)				
Project #	**Project Type**	**WMA**	**Location**	**Cost**
AC9101	Stormwater Pond Retrofit	Mainstem 8	Village of Mount Air	$89,000
AC9102	Stormwater Pond Retrofit	Long Branch South	Intersection of Telegraph Rd and Fairfax County Pkwy	$317,000
AC9105	Stormwater Pond Retrofit	Long Branch South	Pinewood Station	$168,000
AC9106	Stormwater Pond Retrofit	Long Branch South	Backlick and Cinderbed Roads	$234,000
AC9109	Stormwater Pond Retrofit	Long Branch South	Island Creek	$169,000
AC9110	Stormwater Pond Retrofit	Long Branch South	Amberleigh	$226,000
AC9111	Stormwater Pond Retrofit	Long Branch South	Amberleigh	$74,000
AC9112	Stormwater Pond Retrofit	Long Branch South	Springfield Industrial Park	$305,000
AC9113	Stormwater Pond Retrofit	Long Branch South	Springfield Industrial Park	$186,000
AC9114	Stormwater Pond Retrofit	Long Branch South	Springfield Industrial Park	$731,000
AC9115	Stormwater Pond Retrofit	Long Branch South	Assembly of God Church	$105,000
AC9116	Stormwater Pond Retrofit	Long Branch South	Devonshire Townhomes	$193,000
AC9120	Stormwater Pond Retrofit	Long Branch South	Metropolitan Center Drive	$1,858,000
AC9123	Stormwater Pond Retrofit	Mainstem 7	Gateway 95 Business Park	$61,000
AC9125	Stormwater Pond Retrofit	Mainstem 7	Terra Grande	$91,000

Priority Structural Projects (Ten Year Implementation Plan)				
Project #	**Project Type**	**WMA**	**Location**	**Cost**
AC9126	Stormwater Pond Retrofit	Mainstem 7	Alban Industrial Center	$126,000
AC9127	Stormwater Pond Retrofit	Mainstem 7	Alban Industrial Center	$83,000
AC9128	Stormwater Pond Retrofit	Mainstem 7	Terra Grande	$106,000
AC9130	New Stormwater Pond	Mainstem 7	Backlick Road	$503,000
AC9133	Stormwater Pond Retrofit	Mainstem 6	Hunter Village	$107,000
AC9134	Stormwater Pond Retrofit	Mainstem 6	Rolling Forest	$115,000
AC9136	Stormwater Pond Retrofit	Mainstem 6	Kenwood Oaks	$138,000
AC9139	Stormwater Pond Retrofit	Mainstem 5	Westhaven	$63,000
AC9144	New Stormwater Pond	Long Branch Central	Kings Park	$906,000
AC9147	New Stormwater Pond	Long Branch Central	Intersection of Burke Lake Road and Braddock Road	$247,000
AC9148	New Stormwater Pond	Long Branch Central	Long Branch	$843,000
AC9151	Stormwater Pond Retrofit	Long Branch Central	Long Branch Swim and Raquet Club	$132,000
AC9158	Stormwater Pond Retrofit	Long Branch Central	Somerset South	$130,000
AC9159	New Stormwater Pond	Mainstem 3	Townes of Wakefield	$569,000
AC9161	Stormwater Pond Retrofit	Mainstem 3	Intersection of Americana and Commons Drives	$86,000
AC9165	Stormwater Pond Retrofit	Mainstem 3	Camelot Greens	$384,000
AC9166	Stormwater Pond Retrofit	Mainstem 3	Lafayette Forest	$187,000
AC9168	Stormwater Pond Retrofit	Mainstem 3	Adams Walk	$74,000
AC9170	Stormwater Pond Retrofit	Mainstem 3	Lafayette Village	$97,000
AC9172	New Stormwater Pond	Mainstem 2	End of Libeau Lane	$988,000
AC9174	Stormwater Pond Retrofit	Crook Branch	Greater Washington Jewish Community Foundation	$71,000
AC9175	Stormwater Pond Retrofit	Crook Branch	Hunters Glen, Ridgelea Hills, Bethlehem Lutheran Church	$210,000
AC9177	Stormwater Pond Retrofit	Mainstem 2	Prosperity Heights	$163,000
AC9178	Stormwater Pond Retrofit	Mainstem 2	Prosperity Heights	$436,000
AC9180	Stormwater Pond Retrofit	Long Branch North	Behind Professional Hill Drive	$264,000
AC9181	Stormwater Pond Retrofit	Long Branch North	Prosperity Business Campus	$277,000
AC9182	Stormwater Pond Retrofit	Bear Branch	Chesterfield Meadows Section 1	$53,000
AC9183	New Stormwater Pond	Bear Branch	Kena Shriners	$274,000
AC9185	New Stormwater Pond	Bear Branch	Covington	$319,000

Priority Structural Projects (Ten Year Implementation Plan)				
Project #	**Project Type**	**WMA**	**Location**	**Cost**
AC9189	New Stormwater Pond	Mainstem 1	Intersection of Five Oaks Road and Water Oak Drive	$168,000
AC9192	Stormwater Pond Retrofit	Mainstem 1	Edgemoore	$124,000
AC9195	Stormwater Pond Retrofit	Mainstem 1	Oakton Village	$66,000
AC9196	Stormwater Pond Retrofit	Mainstem 1	Four Winds at Oakton Condominium	$176,000
AC9199	Stormwater Pond Retrofit	Mainstem 1	Rosehaven Estates	$83,000
AC9200	Stream Restoration	Mainstem 5	Springfield Golf Course and Country Club	$643,000
AC9201	Stream Restoration	Mainstem 6	Accotink Stream Valley Park	$707,000
AC9202	Stream Restoration	Mainstem 5	Between A Dr, S Dr and Oakford Dr	$822,000
AC9204	Stream Restoration	Mainstem 5	Lake Accotink Park	$377,000
AC9205	Stream Restoration	Mainstem 4	Between Thames St and Parliament Dr	$1,342,000
AC9206	Stream Restoration	Mainstem 4	Behind 8500-8600 Block of Thames St	$874,000
AC9207	Stream Restoration	Mainstem 4	Kings Park	$526,000
AC9208	Stream Restoration	Long Branch Central	5021 King David Blvd	$599,000
AC9209	Stream Restoration	Long Branch Central	Between King Solomon Dr and Braeburn Dr	$1,475,000
AC9210	Stream Restoration	Mainstem 3	Wake Field Park	$1,440,000
AC9211	Stream Restoration	Mainstem 3	Between Kenwen Ct and Wakefield Dr	$179,000
AC9212	Stream Restoration	Mainstem 3	Between Elizabeth Ln and Aunt Lilly Ln	$754,000
AC9213	Stream Restoration	Mainstem 3	Between Ann Fitz Hug Dr, Mary Lee Ln and Elizabeth Ln	$1,011,000
AC9214	Stream Restoration	Mainstem 3	Behind Woodlark Dr	$621,000
AC9215	Stream Restoration	Mainstem 3	8220 Little River Tpke	$344,000
AC9216	Stream Restoration	Mainstem 3	Behind Americana Dr	$811,000
AC9217	Stream Restoration	Mainstem 3	Between Americana Dr and Donnybrook Ct	$903,000
AC9219	Stream Restoration	Mainstem 2	Pine Ridge Park	$1,664,000
AC9221	Stream Restoration	Crook Branch	Between Colesbury Pl, Skyview Ln, Petros Ct and Glenbrook Ct	$1,801,000
AC9222	Stream Restoration	Crook Branch	Between Tovito Dr , Mathy Dr and Persimmon Cir	$828,000
AC9223	Stream Restoration	Mainstem 2	Between Highland Ln and Monarch Ln	$958,000
AC9225	Stream Restoration	Bear Branch	Between Desale and I-66	$3,273,000
AC9302	Area-wide Drainage Improvements	Mainstem 4	Within the Ravensworth Neighborhood	$365,000

Priority Structural Projects (Ten Year Implementation Plan)				
Project #	**Project Type**	**WMA**	**Location**	**Cost**
AC9305	Area-wide Drainage Improvements	Long Branch Central	Within the Canterbury Woods Neighborhood	$1,656,000
AC9306	Area-wide Drainage Improvements	Long Branch Central	Within the Willow Woods Neighborhood	$683,000
AC9307	Area-wide Drainage Improvements	Long Branch Central	Within the Woodland Forest Neighborhood	$505,000
AC9308	Area-wide Drainage Improvements	Long Branch Central	Within the Long Branch Neighborhood	$320,000
AC9312	Area-wide Drainage Improvements	Crook Branch	Within the Westchester and Briars of Westchester Neighborhoods	$1,080,000
AC9313	Area-wide Drainage Improvements	Crook Branch	Within the Langhorne Acres Neighborhood	$1,461,000
AC9400	Culvert Retrofit	Mainstem 4	North Springfield	$74,000
AC9401	Culvert Retrofit	Mainstem 4	North Springfield	$83,000
AC9402	Culvert Retrofit	Mainstem 4	Danbury Forest Section 3	$65,000
AC9403	Culvert Retrofit	Mainstem 4	Kings Park	$83,000
AC9404	Culvert Retrofit	Long Branch Central	Red Fox Forest	$65,000
AC9406	Culvert Retrofit	Long Branch Central	Somerset	$83,000
AC9409	Culvert Retrofit	Mainstem 1	Intersection of Sutton Green Court and Sutton Road	$65,000
AC9501	BMP/LID	Long Branch South	Terminal Drive	$58,000
AC9502	BMP/LID	Long Branch South	Newington Road	$102,000
AC9503	BMP/LID	Long Branch South	Franconia/Springfield Metro	$99,800
AC9504	BMP/LID	Long Branch South	Shopping area near Frontier Dr and Fran-conia Springfield Pkwy	$550,000
AC9505	BMP/LID	Long Branch South	Francis Scott Key School	$137,000
AC9506	BMP/LID	Long Branch South	Commercial Parking Lot	$113,000
AC9508	BMP/LID	Long Branch South	Robert E. Lee High School	$84,000
AC9509	BMP/LID	Mainstem 7	Lockport Industrial Park	$212,000
AC9510	BMP/LID	Mainstem 7	Lockport Industrial Park	$722,000
AC9511	BMP/LID	Mainstem 7	Deer Park parking lot	$62,000
AC9512	BMP/LID	Mainstem 7	HRM Automotive	$105,000
AC9514	BMP/LID	Mainstem 6	Cardinal Forest Plaza	$142,000
AC9515	BMP/LID	Mainstem 6	Old Keene Mill Shopping Center	$203,000
AC9527	BMP/LID	Mainstem 4	Kings Park Elementary School	$34,000
AC9529	BMP/LID	Long Branch Central	Canterbury Woods School	$44,000

Priority Structural Projects (Ten Year Implementation Plan)				
Project #	**Project Type**	**WMA**	**Location**	**Cost**
AC9530	BMP/LID	Long Branch Central	Longbranch Swim and Racquet Club Parking Lot and St. Stephens United Methodist Church	$64,000
AC9531	BMP/LID	Long Branch Central	Community Pool parking lot	$53,000
AC9535	BMP/LID	Mainstem 3	Residential cul-de-sac	$188,000
AC9537	BMP/LID	Mainstem 3	Wakefield Chapel Park	$251,000
AC9538	BMP/LID	Mainstem 3	Community College parking lot	$388,000
AC9539	BMP/LID	Mainstem 3	Annadale Terrace Elementary School	$118,000
AC9541	BMP/LID	Mainstem 3	Little River Shopping Center	$99,000
AC9543	BMP/LID	Mainstem 2	Camelot Elementary School and Pine Ridge Park	$124,000
AC9545	BMP/LID	Mainstem 2	Eakin Park and Church parking lot	$78,000
AC9546	BMP/LID	Crook Branch	Mantua Elementary School	$108,000
AC9547	BMP/LID	Crook Branch	Providence Presbyterian Church and Pixie Ct	$95,000
AC9548	BMP/LID	Mainstem 3	Frontage Rd.	$397,000
AC9549	BMP/LID	Mainstem 2	Arlington Blvd & Williams Dr.	$155,000
AC9550	BMP/LID	Long Branch North	Industry Lane and Lee Hwy	$364,000
AC9551	BMP/LID	Long Branch North	Stemwood Elementary School	$50,000
AC9553	BMP/LID	Hunters Branch	Panam Shopping Center	$159,000
AC9558	BMP/LID	Mainstem 1	Mosby Woods School	$99,000
AC9561	BMP/LID	Mainstem 1	Valentine St. & Bushman St.	$52,000
AC9562	BMP/LID	Mainstem 1	AT&T office building	$328,000
AC9600	Flood Protection/Mitigation	Long Branch South	Culvert under railroad behind Industrial Park	$449,000
			Total Cost	$48, 201,800

Long Term Structural Projects (25 Year Implementation Plan)			
Project #	**Project Type**	**WMA**	**Location**
AC9100	Stormwater Pond Retrofit	Mainstem 8	Along Morning Meadow Dr
AC9103	Stormwater Pond Retrofit	Long Branch South	Gateway 95 Business Park
AC9104	Stormwater Pond Retrofit	Long Branch South	Shirley Complex
AC9107	Stormwater Pond Retrofit	Long Branch South	Behind Sullivan Ci
AC9108	Stormwater Pond Retrofit	Long Branch South	Amberleigh Park
AC9117	Stormwater Pond Retrofit	Long Branch South	Fleet Industrial Park
AC9118	Stormwater Pond Retrofit	Long Branch South	Fleet Industrial Park

Long Term Structural Projects (25 Year Implementation Plan)			
Project #	**Project Type**	**WMA**	**Location**
AC9119	Stormwater Pond Retrofit	Long Branch South	Clara Edward Te
AC9121	Stormwater Pond Retrofit	Long Branch South	Springfield Mall
AC9122	New Stormwater Pond	Long Branch South	I-95 and Franconia Rd Interchange
AC9124	Stormwater Pond Retrofit	Mainstem 7	Newington Commerce Center
AC9129	Stormwater Pond Retrofit	Mainstem 7	VA 95 Industrial Park
AC9131	Stormwater Pond Retrofit	Mainstem 6	Behind Sterling Grove Dr
AC9132	Stormwater Pond Retrofit	Mainstem 6	Along Dudrow Rd
AC9135	Stormwater Pond Retrofit	Mainstem 6	Behind Bethna Pl
AC9137	Stormwater Pond Retrofit	Mainstem 5	Intersection of Benfranklin Rd and Villa Rd
AC9138	Stormwater Pond Retrofit	Mainstem 5	Toyota Dealership on Terry Dr
AC9140	Stormwater Pond Retrofit	Mainstem 5	Brookfield Park
AC9141	Stormwater Pond Retrofit	Mainstem 5	Along Highland St
AC9142	New Stormwater Pond	Mainstem 4	Behind Morrissette Dr
AC9143	New Stormwater Pond	Mainstem 4	Lake Accotink Park
AC9145	New Stormwater Pond	Long Branch Central	Canterbury Woods Swim Club
AC9146	Stormwater Pond Retrofit	Long Branch Central	Behind Althea Dr
AC9149	Stormwater Pond Retrofit	Long Branch Central	Between Braddock Rd and Dunleigh Dr
AC9150	Stormwater Pond Retrofit	Long Branch Central	Behind Hersand Dr
AC9152	Stormwater Pond Retrofit	Long Branch Central	Behind Tartan View Dr
AC9153	Stormwater Pond Retrofit	Long Branch Central	Behind Wrought Iron Ct
AC9154	Stormwater Pond Retrofit	Long Branch Central	Between Mirror Pond Dr and Broadwire Dr
AC9155	New Stormwater Pond	Long Branch Central	Behind Olley Ln
AC9156	Stormwater Pond Retrofit	Long Branch Central	Korean Presbyterian Church
AC9157	Stormwater Pond Retrofit	Long Branch Central	George Mason Park
AC9160	Stormwater Pond Retrofit	Mainstem 3	Along Chapel Lake Ct
AC9162	Stormwater Pond Retrofit	Mainstem 3	Intersection of Patriot Dr and Americana Dr
AC9163	New Stormwater Pond	Mainstem 3	Wakefield Park
AC9164	New Stormwater Pond	Mainstem 3	Wakefield Park
AC9167	Stormwater Pond Retrofit	Mainstem 3	Behind Adams Park Ct
AC9169	Stormwater Pond Retrofit	Mainstem 3	Wachovia Building on Woodland Rd
AC9171	Stormwater Pond Retrofit	Mainstem 2	Behind Thor Dr
AC9173	Stormwater Pond Retrofit	Mainstem 2	Silk Vision and Surgical Center
AC9176	Stormwater Pond Retrofit	Crook Branch	Behind Briary Ln
AC9179	Stormwater Pond Retrofit	Long Branch North	Luther Jackson Middle School
AC9184	Stormwater Pond Retrofit	Bear Branch	Behind Barkley Gate Ln and Modano Pl

Long Term Structural Projects (25 Year Implementation Plan)			
Project #	**Project Type**	**WMA**	**Location**
AC9186	New Stormwater Pond	Hunters Branch	Vienna Moose Lodge
AC9187	Stormwater Pond Retrofit	Mainstem 1	Behind Linden Brook Ct
AC9188	Stormwater Pond Retrofit	Mainstem 1	Behind Sutton Oaks Ln
AC9190	Stormwater Pond Retrofit	Mainstem 1	Behind Five Oaks Ln
AC9191	Stormwater Pond Retrofit	Mainstem 1	Behind Platten Dr
AC9193	Stormwater Pond Retrofit	Mainstem 1	Along Oakdale Woods Ct
AC9194	Stormwater Pond Retrofit	Mainstem 1	Along Courthouse Rd
AC9197	Stormwater Pond Retrofit	Mainstem 1	Behind Oakton Meadows Ct and Borge St
AC9198	Stormwater Pond Retrofit	Mainstem 1	Along White Granite Dr and Emerald Rock Dr
AC9203	Stream Restoration	Mainstem 5	Lake Accotink Park
AC9218	Stream Restoration	Mainstem 3	Between Hummer Rd and Pleasant Ridge Rd
AC9220	Stream Restoration	Crook Branch	Downstream of Glade Hill Rd
AC9224	Stream Restoration	Long Branch North	Prosperity Business Campus
AC9300	Area-wide Drainage Improvements	Mainstem 7	Between Pohick Rd and Lagrange St
AC9301	Area-wide Drainage Improvements	Long Branch South	Between Silverridge Ci and Casperson Rd
AC9303	Area-wide Drainage Improvements	Mainstem 4	Between Kennelworth Dr and Eastbourn Dr
AC9304	Area-wide Drainage Improvements	Mainstem 3	Between New Castle Dr and Bristow Rd
AC9309	Area-wide Drainage Improvements	Long Branch Central	Between Phoebe Ct and Burbank Rd
AC9310	Area-wide Drainage Improvements	Long Branch Central	Between Ellen Wood Ln and Kristin Ln
AC9311	Area-wide Drainage Improvements	Mainstem 3	Between Annandale Rd and Ramblewoods Ct
AC9314	Area-wide Drainage Improvements	Long Branch North	Between Morada Ct and Knollside Ln
AC9315	Area-wide Drainage Improvements	Bear Branch	Between Elsemore St and Glenvalder Dr
AC9316	Area-wide Drainage Improvements	Mainstem 1	Between Blake Ln and Ranger Rd
AC9405	Culvert Retrofit	Long Branch Central	Old Forge Park
AC9407	Culvert Retrofit	Mainstem 3	Between Private Ln and Queen Elizabeth Blvd
AC9408	Culvert Retrofit	Bear Branch	South Side Park
AC9500	BMP/LID	Mainstem 8	Pohick Industrial Park
AC9507	BMP/LID	Long Branch South	Springfield Mall
AC9513	BMP/LID	Mainstem 6	West Springfield Elementary School
AC9516	BMP/LID	Mainstem 5	Behind Lee Valley Dr and
AC9517	BMP/LID	Mainstem 5	Garfield Elementary School
AC9518	BMP/LID	Mainstem 5	Springfield United Methodist Church

Long Term Structural Projects (25 Year Implementation Plan)			
Project #	**Project Type**	**WMA**	**Location**
AC9519	BMP/LID	Mainstem 5	Springfield Plaza
AC9520	BMP/LID	Mainstem 5	Springfield Plaza
AC9521	BMP/LID	Mainstem 5	Saint Bernadette Church
AC9522	BMP/LID	Mainstem 5	Grace Presbyterian Church
AC9523	BMP/LID	Mainstem 3	Braddock Elementary School and North Springfield Elementary School
AC9524	BMP/LID	Mainstem 4	Church of Jesus Christ and behind Rexford Ct
AC9525	BMP/LID	Mainstem 4	behind Torington Dr
AC9526	BMP/LID	Mainstem 4	Behind Morrissette Dr
AC9528	BMP/LID	Long Branch Central	Holy Spirit Catholic Church and Canterbury Woods Swim Club
AC9532	BMP/LID	Long Branch Central	Rutherford Park
AC9533	BMP/LID	Long Branch Central	Rutherford Park
AC9534	BMP/LID	Mainstem 3	Annandale District Govt Center
AC9536	BMP/LID	Mainstem 3	Wakefield Forest Elementary School
AC9540	BMP/LID	Mainstem 3	Intersection of Little River Tp and Heritage Dr
AC9542	BMP/LID	Mainstem 3	Little River Shopping Center
AC9544	BMP/LID	Mainstem 2	Silk Vision and Surgical Center
AC9552	BMP/LID	Long Branch North	Thoreau Middle School and Stenwood Elementary School
AC9554	BMP/LID	Hunters Branch	Washington Metropolitan Parking lot on Nutley St
AC9555	BMP/LID	Hunters Branch	Nottoway Park
AC9556	BMP/LID	Hunters Branch	Vienna Moose Lodge
AC9557	BMP/LID	Hunters Branch	Madison High School
AC9559	BMP/LID	Mainstem 1	End of Bickley Ct
AC9560	BMP/LID	Mainstem 1	Behind Courthouse Wood Ct
AC9601	Flood Protection/Mitigation	Crook Branch	Glade Hill Rd
Non-Structural Projects			
Project #	**Project Type**	**WMA**	**Location**
AC9800	Buffer Restoration	Long Branch South	Intersection of Telegraph Rd and Fairfax County Pkwy
AC9801	Buffer Restoration	Long Branch South	Springfield Industrial Center
AC9802	Buffer Restoration	Mainstem 2	Accotink Stream Valley Park
AC9803	Buffer Restoration	Crook Branch	Upstream of Prosperity Ave
AC9804	Buffer Restoration	Crook Branch	Downstream of Prosperity Ave
AC9805	Buffer Restoration	Mainstem 2	Eakin Community Park
AC9806	Buffer Restoration	Long Branch North	Behind Amberley Ln
AC9900	Community Outreach/Public Education	Multiple	Multiple
AC9901	Conservation Acquisition Project/Land Conservation	Mainstem 8	Lock Port Industrial Park
AC9902	Inspection/Enforcement Enhancement Project	Multiple	Multiple

Non-Structural Projects			
Project #	**Project Type**	**WMA**	**Location**
AC9903	Inspection/Enforcement Enhancement Project	Multiple	Multiple
AC9904	Rain Barrels	Multiple	Multiple
AC9906	Inspection/Enforcement Enhancement Project	Multiple	Multiple
AC9907	Community Outreach/Public Education	Multiple	Multiple
AC9908	Inspection/Enforcement Enhancement Project	Multiple	Multiple
AC9909	Rain Barrels	Multiple	Multiple
AC9910	Street Sweeping Program	Multiple	Multiple
AC9913	Dumpsite/Obstruction Removal	Multiple	Multiple
AC9914	Community Outreach/Public Education	Multiple	Multiple
AC9915	Conservation Acquisition Project/Land Conservation	Mainstem 7	Intersection of Lagranges St and Pohick Rd
AC9916	Conservation Acquisition Project/Land Conservation	Mainstem 7	Interstate Industrial Park
AC9921	Conservation Acquisition Project/Land Conservation	Mainstem 5	Along Lee Valley Dr
AC9922	Conservation Acquisition Project/Land Conservation	Mainstem 5	Along Lee Valley Dr
AC9923	Conservation Acquisition Project/Land Conservation	Mainstem 5	Along Lee Valley Dr
AC9924	Conservation Acquisition Project/Land Conservation	Mainstem 5	Along Lee Valley Dr
AC9925	Conservation Acquisition Project/Land Conservation	Mainstem 5	Along Lee Valley Dr
AC9927	Conservation Acquisition Project/Land Conservation	Mainstem 5	Southern Industrial Park
AC9935	Community Outreach/Public Education	Multiple	Multiple