

2015 VPDES Permit Closeout Report

Prepared by -

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Table of Contents

a) Watershed Management Program Implementation	1 -
a.1) Structural and Source Controls.....	2 -
a.2) Areas of New Development and Significant Redevelopment.....	2 -
a.3) Roadways	3 -
a.4) Retrofitting.....	3 -
a.5) Pesticides, Herbicide, and Fertilizer Application	4 -
a.6) Illicit Discharges and Improper Disposal.....	4 -
a.7) Spill Prevention and Response.....	5 -
a.8) Industrial & High Risk Runoff	6 -
a.9) Construction Site Runoff.....	7 -
a.10) Storm Sewer Infrastructure Management	8 -
a.11) Public Education	8 -
a.12) Monitoring Programs.....	9 -
b) Proposed Changes to the Stormwater Management Program	13 -
c) Assessments of controls and the fiscal analysis of the effectiveness of new controls established by the Stormwater Management Program	13 -
d) Annual Expenditures for the Stormwater Management Program and Budget	13 -
e) Identification of water quality improvements or degradation	13 -

List of Attachments

Attachment 1: Fairfax County’s Watershed Management Plans	15 -
Attachment 2: 2015 Public Education Program	16 -

List of Tables

Table 1: Results of statistical analysis to determine if there is a significant difference between - observed constituent concentrations at Vienna and Occoquan Stations for 2005 through 2014	11 -
Table 2: Computed seasonal and annual unit-area constituent loadings at monitored locations for - 2014	11 -

The following annual report is submitted to the Virginia Department of Environmental Quality (DEQ) in compliance with Fairfax County's Virginia Pollutant Discharge Elimination System (VPDES) permit. The permit was issued on January 24, 2002, and expired on January 24, 2007. The county operated under an administrative continuance of the 2002 permit until the permit was renewed on April 1, 2015. This report covers the from January 1, 2015, through March 31, 2015, and describes the activities performed to satisfy the county's permit requirements in effect during that time. A report covering the period from April 1, 2015 through June 30, 2015 was submitted on September 22, 2015 in accordance with the reporting requirements of the county's new permit. Subsequent annual reports will follow a fiscal year reporting cycle.

NOTE: Annual Report requirements as specified in Part I.C.4 of the permit are indicated below by **bold** section headings and the stormwater program requirements as specified in Part I sections B.1, C.1, C.2 and C.3 of the permit are in *italics* directly beneath the applicable section heading.

a) Watershed Management Program Implementation

The permittee shall develop and implement Watershed Management Plans to maintain water quality and manage environmental resources within the county's watersheds (B.1).

Starting with the Little Hunting Creek Watershed Management Plan in 2003, the county embarked on a watershed planning initiative that assessed the needs of and resulted in proposed improvements for the county's 30 watersheds over approximately the next 25 years. The watershed management planning process is one component of the county's MS4 Program and is part of the Fairfax County Board of Supervisors' Environmental Agenda. The overarching goals for the watershed plans are:

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

A total of 13 plans, which cover all 30 watersheds, were developed during this watershed planning initiative. The plans were developed with the assistance of the community through public meetings and individual plan stakeholder groups. This public involvement process helped to ensure that the plans meet the needs in the watershed and have the support of county residents. The county completed and adopted six watershed plans between 2005 and 2008 as part of the first round of planning. By early February 2011, the seven remaining watershed management plans were completed and adopted by the Fairfax County Board of Supervisors. Attachment 1 lists the 13 county watershed management plans and their year of adoption by the Board of Supervisors.

The retrofit project completed during January 1, 2015 to March 31, 2015 reporting period was a specific recommendation identified in the Sugarland Run and Horsepen Creek watershed management plan. A full summary of this retrofit project can be found in section a.4.

It is anticipated that structural projects proposed in the plans will be primarily funded from the Stormwater Services fund and from the Pro Rata Share Drainage Construction fund. The number of projects selected for implementation annually will be determined as part of the annual budgetary process. Efforts to include implementation of non-structural projects and policy recommendations from the watershed plans are ongoing.

a.1) Structural and Source Controls

The Municipal Separate Storm Sewer System and any storm water structural controls shall be operated in a manner that reduces the discharge of pollutants to the maximum extent practicable (B.1.a).

a.1 (a) Report all inspections performed on SWM facilities and BMP Ponds.

Between January 1, 2015 and March 31, 2015, the county inspected 188 (approximately 11 percent) of the 1,762 county-maintained stormwater management (SWM) and best management practice (BMP) facilities at least once. Currently, these inspections are being tracked on a fiscal year basis, resulting in approximately 900 inspections per fiscal year. Out of the 188 county-maintained stormwater management (SWM) and best management practice (BMP) facilities inspected, six (6) were State-Regulated Dams.

Between January 1, 2015 and March 31, 2015, the county inspected 81 (two (2) percent) of the 3,861 privately-maintained facilities, with the goal of inspecting all privately-maintained facilities at least once during the permit cycle as required by the permit.

a.1 (b) Report all maintenance performed on SWM facilities and BMP Ponds.

Between January 1, 2015 and March 31, 2015, the county cleaned and/or mowed 208 dam embankments. Cleaning involves removing trash, sediment, and debris from the trash rack, control structure, and all inflow channels leading to the control structure. At each stormwater management facility, deposited sediment is removed from the trickle ditch upstream of the control structure and disposed of offsite. The cleaning helps keep the facility functioning properly by conveying water and performing the BMP function as it was designed. The county completed 339 maintenance work orders to address maintenance issues and correct deficiencies in publicly maintained SWM/BMP facilities.

a.2) Areas of New Development and Significant Redevelopment

The permittee shall comply with and enforce all components of the County's Comprehensive Land Use Plan that are relevant to storm water discharges. The goals of such controls shall be to limit increases in the discharge of pollutants from storm water as a result of development and significant re-development (B.1.b).

The Comprehensive Plan, as amended through October 2015, provides explicit support for better site design and low impact development (LID) measures, and opportunities to implement such measures are explored during the zoning process. For development and redevelopment projects in several of the county's activity centers, the Plan includes recommendations for attainment of LEED stormwater design credits. The Tysons Corner Urban Center amendment also included a recommendation to retain at least the first inch of rainfall on-site for zoning applications proposing significant increases in development density/intensity. In 2014, guidelines for optimization of stormwater management for development proposals exceeding a specific threshold of intensity were adopted for the Transit Station Areas in Reston (similar to those adopted for a transit station area near Dulles Airport in 2013). There were no such Plan Amendments during the first quarter of 2015, although similar guidance was adopted for the Seven Corners Community Business Center later in the year. This Comprehensive Plan guidance helps staff to negotiate for measures such as reductions in proposed impervious cover and LID measures that will serve to reduce stormwater discharges.

The Department of Planning and Zoning (DPZ) provides a full range of environmental review, and does not track stormwater efforts independently from other environmental efforts. In coordination with other DPZ staff and staff from other county agencies, DPZ accepted and reviewed 87 rezonings and related applications (e.g., amendments), 101 special exceptions and amendments, and 312 special permits and amendments in fiscal year 2014 for environmental considerations. . During January 1 to March 31, 2015, 14 rezonings and related

applications, 29 special exceptions and amendments, and 93 special permits and amendments were accepted for review.

a.3) Roadways

Public streets, roads, and highways maintained by the permittee shall be operated and maintained in a manner to minimize discharge of pollutants, including those pollutants related to deicing or sanding activities (B.1.c).

The Virginia Department of Transportation (VDOT), which is covered by a separate Phase II MS4 permit, is responsible for maintenance and operation of public roads (interstate, primary, secondary, and residential) in Fairfax County. The county is only responsible for maintaining a minor amount of discontinuous road segments. A significant component of Fairfax County's roadways program is sweeping parking lots associated with county facilities such as government centers, libraries, public schools (funded by Fairfax County Public Schools), fire stations, police stations, health centers, bus transit facilities, park and ride lots, commuter rail stations, public housing facilities, and staffed park locations.

In an effort to limit the discharge of pollutants from parking lots into the county's streams, the county provides sand and chemical treatment only when dictated by safety. The county sweeps material from each treated parking area once annually. As part of a continued effort to limit the discharge of pollutants from county facilities, the county updated Standard Operating Procedures (SOPs) for both Snow Removal Operations and Street Sweeping in 2014. These SOPs are intended to be used county-wide by Fairfax County agencies.

The county's parking lot sweeping program and snow removal operations are currently carried out by three organizations: Department of Public Works and Environmental Services (DPWES), Department of Housing and Community Development (DHCD), and Fairfax County Park Authority (FCPA). DPWES plows and treats snow at county government facilities and sweeps parking lots at county government and public schools sites as well as paved county road segments, where feasible. DHCD sweeps parking lots on residential developments such as apartment complexes, townhouse developments, group homes, and senior facilities that are owned and operated by DHCD. FCPA maintains (plows and/or treats) essential use parking areas at staffed park locations on a case-by-case basis to remove snow and provide for safe driving and footing. Between January 1 and March 31, 2015, 40 cubic yards of material were removed from seven county government facilities, and 41 residential sites, through sweeper trucks and hand sweeping.

a.4) Retrofitting

Receiving water quality impacts shall be assessed for all storm water management facilities. When the permittee determines water quality impact, they shall continue to evaluate and implement retrofitting existing storm water management facilities and areas without stormwater controls (B.1.d).

Fairfax County agencies completed one (1) retrofit project to enhance stormwater management functionality between January 1, 2015 and March 31, 2015. The project involved converting a dry pond into a Constructed Wetland. The results of the county's retrofit efforts during this reporting period are summarized as follows:

- The project was in the Horsepen Creek watershed. The Project was a retrofitting opportunity specifically mentioned in a county watershed management plan.
- The impervious area treated by the retrofit is approximately 17 acres while the total area treated was 37 acres.
- The retrofit is estimated to remove nitrogen, phosphorus, and sediment at rates of approximately 98 pounds/year, 11 pounds/year, and 9,298 pounds/year, respectively.
- The approximate cost of this retrofit project is \$589,000.

Retrofit project documentation is maintained by the Stormwater Planning Division (SWPD) of DPWES.

a.5) Pesticides, Herbicide, and Fertilizer Application

The permittee will implement controls to reduce the discharge of pollutants related to the storage and application of pesticides, herbicides, and fertilizers applied to public right of ways, parks, and other municipal property. The permittee shall develop and implement a program within one year of the effective date of the permit to achieve the above goal (B.1.e).

County agencies involved in the administration of parks and athletic fields currently have some form of nutrient and pest management plans. County personnel and private contractors develop and implement the plans per the Virginia Department of Conservation and Recreation's nutrient management guidelines, the Virginia Department of Agriculture and Consumer Services's guidelines, and the Virginia Pesticide Control Act.

The Park Authority currently has two Virginia state-certified nutrient management planners on staff, one for parks and a recently certified planner for golf courses. To date FCPA has nutrient management plans for approximately 448 acres of golf course area and 227 acres of natural turf athletic fields where nutrients are applied (an additional 3,001 acres are addressed under a nutrient management plan, but do not receive any nutrients). Thirty one acres of park land are managed under an integrated pest management plan. An additional 872 acres of FCPA managed turf do not receive any fertilization or pesticide application.

For the period of January 1, 2015 to March 31, 2015 the Northern Virginia Soil and Water Conservation District's certified nutrient management planner prepared a "Revised" Soil and Water Quality Conservation Plan (SWQCP) for a 288-acre property in Agricultural and Forestal (A&F) District. "Revised" plans are plans prepared for tracts that once had a SWQCP that has expired, or is soon-to-be expired. That A&F District operation included 21 acres of pasture for raising a range of 16 to 32 sheep (depending on market demands), and a flock of birds (chickens and Guinea hens) averaging about twenty-four in number.

a.6) Illicit Discharges and Improper Disposal

Non-storm water discharges to the Municipal Separate Storm Sewer System will be effectively prohibited (B.1.f).

a.6 (a) Report all identified illicit dischargers. This shall include site inspections and a description of any follow-up activities associated with illicit dischargers (see section a.12 below for related dry weather screening program activities and findings);

Fairfax County enforces illicit discharges through County Code Chapter 62, Fire Protection and Chapter 124, Stormwater Management (effective 7/1/14). Chapter 124 integrated previous Chapters 105 and 106 in Article 9 which addresses illicit discharges to state waters and the MS4. The Fire and Rescue Department's (FRD) Fire and Hazardous Materials Investigative Services (FHMIS) section enforces County Code Chapters 62 which includes police powers to investigate and prosecute certain offenses including those related to storage, use, and transportation of hazardous materials and hazardous waste, and environmental crimes. The Department of Public Works and Environmental Services (DPWES) enforces County Code Chapter 124 which addresses illicit discharges to state waters and the county's MS4.

Illegal Dumping is addressed by County Code Chapter 46, Health of Safety Menaces. Procedural Memorandum No. 71-01, Illegal Dump Site Investigation, Response, and Cleanup, outlines the process of follow-up action for non-emergency incidents; illegal dumping; establishes action under Chapter 46; and provides referrals for action on complaints.

From January 1, 2015 to March 31, 2015, Stormwater Planning Division (SWPD) Code Specialists responded to two (2) suspected illicit discharges to the County MS4 or to state waters. In one case the discharge was promptly eliminated. In another case, the discharge was not directly observed by the inspector, but the inspector provided educational information on proper vehicle and equipment washing. Both investigations were closed. Illicit Discharges may also be identified through the County's Dry Weather Screening Program (discussed in more detail in section a.12(a) of this report). Dry weather screening is conducted in autumn each year in accordance with program standard operating procedures. There were no outfalls screened through the program during the time period covered by this annual report. Programs that can help to prevent, detect, and eliminate illicit discharges of sanitary wastes into the MS4 are implemented and documented by the Wastewater Management (WWM) and Capital Facilities (CAP) business areas of DPWES, and the Fairfax County Health Department. The Sanitary Sewer Infiltration Abatement Program conducts wastewater flow measurements and analysis to identify areas of the wastewater collection system with excessive inflow/infiltration problems, and uses closed circuit television (CCTV) to inspect trunk sewer mains in an effort to specifically identify defective sewer lines for repair and rehabilitation. From January 1, 2015 to March 31, 2015, 230,096 linear feet of old sewer lines and 2,782 linear feet of new sewer lines were inspected, resulting in the identification of sanitary sewer lines and manholes needing repair and rehabilitation. From January 1, 2015 to March 31, 2015, 22,729 linear feet of sanitary sewer lines were rehabilitated, bringing the total length of sewer lines repaired since the permit was issued in 2002 to 1,404,707 linear feet (about 266 miles).

The Sanitary Sewer Extension and Improvement Program, implemented by CAP, addresses pollution abatement and public health considerations by providing sanitary sewer service to areas identified by the Health Department as having non-repairable, malfunctioning septic systems. No Extension and Improvement projects were completed from January 1, 2015- March 31, 2015.

The Health Department mailed 2,762 flow diversion valve reminder notices from January 1, 2015- March 31, 2015. The notices are sent to homeowners on the anniversary of the installation of their septic system to remind them to turn their flow diversion valve once a year. The notice also reminds homeowners to pump out their septic tank every three to five years.

In 2015, 588 non-compliance letters were mailed to owners of homes that have not pumped out their septic tank during the five-year period required in Chapter 68.1 of the Fairfax County Code and the Chesapeake Bay Preservation Area Designation and Management Regulations. If a homeowner fails to comply, a follow-up letter is mailed to them informing them that action will be taken under the regulations to insure their septic tank is pumped out as required.

There were 18 new alternative onsite sewage systems approved in 2015, bringing the total number of alternative systems in Fairfax County to 876. It is required that each of these systems be inspected annually by a licensed operator and a report is filed with the Health Department. Regulations for these systems went into effect December 7, 2011. The Health Department has notified all owners of alternative onsite sewage systems who are not in compliance with the operation and maintenance requirements of the regulations.

a.7) Spill Prevention and Response

A program to prevent, contain, and respond to spills that may discharge into the Municipal Separate Storm Sewer System shall be implemented. The spill response program may include a combination of spill response actions by the permittee (and/or another public or private entity), and legal requirements for private entities within the permittees' jurisdiction (B.1.g).

When requested by first responders, 911 dispatch protocols or the Fire Marshal's Office, FRD's Hazardous Materials Response Team (HMRT) responds to reported incidents of hazardous material releases, spills and discharges in the county (regardless of whether the material has potential to enter the county-operated MS4, another system such as VDOT's, or waters of the state). The department maintains and tracks firefighter training/certification under OSHA 29 CFR 1910.120 (q) and NFPA 472. The HMRT conducts monthly training on each of the three shifts. Last year each shift conducted at a minimum 252 hours of training per month regarding hazmat technician operations for a total of 3024 hours per shift. The entire fire department operational personnel receive 4 hours per person of hazmat operations refresher training totaling approximately 4000 hours. The refresher training covers topics relating to hazard classes, container shapes, initial actions and chemical/physical properties. The Fire Marshal's Office maintains a contract with a major commercial hazardous materials response company to provide additional containment and clean-up support for large-scale incidents.

For the period of January 1, 2015 to March 31, 2015, FHMIS received 150 complaints. Approximately 43 of the complaints involved the actual release of various petroleum or chemical substances. Of the 43 releases, most involved the release of petroleum products including diesel fuel (two (2)), home heating fuel oil (two (2)), gasoline (six (6)), motor oil (four (4)), or hydraulic oil (two (2)). Other releases investigated involved antifreeze, paint, sewage, waste water discharges, water treatment chemicals and mercury. Storm drains or water ways were involved in five (5) of the releases. Documentation of individual releases and the county's responses is maintained by FHMIS.

In both emergency and non-emergency spills that reach the MS4, FHMIS enforces appropriate codes and ordinances to ensure that responsible parties take appropriate spill control and cleanup actions to protect and restore the environment.

The Fire and Hazardous Materials Investigative Services section of FRD monitors, on a long-term basis, contaminated sites that have a potential for the contaminant coming in contact with surface waters or stormwater management facilities. As a part of the oversight program, FHMIS, as an agent of the Director of DPWES, accepts, reviews and processes requests to discharge treated groundwater from remedial activities at contaminated sites into county storm sewers. FHMIS then monitors the discharge for the duration of the agreement. In 2014 the Hazardous Materials Technical Support Branch of FHMIS monitored six (6) oversight cases. Most of these oversight files involve contaminated underground storage tank sites.

The Fire and Rescue Department continued to maintain membership in the Fairfax Joint Local Emergency Planning Committee (FJLEPC), which includes representatives of Fairfax County, the City of Fairfax, and the towns of Vienna and Herndon. FRD updates its Hazardous Material Emergency Response Plan annually.

a.8) Industrial & High Risk Runoff

A program to identify and control pollutants in storm water discharges to the Municipal Separate Storm Sewer System (municipal landfills; other treatment, storage, or disposal facilities for municipal waste; hazardous waste treatment, storage, disposal and recovery facilities; facilities that are subject to EPCRA Title III, Section 313) and any other industrial or commercial discharge the permittee determine are contributing a substantial pollutant loading to the Municipal Separate Storm Sewer System shall be implemented under this program (B.1.h).

a.8 (a) Report on all inspections of any new or previously unidentified facilities.

Stormwater Planning Division (SWPD) finalized standard operating procedures (SOPs) for inspection of the industrial and high risk runoff (IHRR) facilities and began conducting facility inspections in accordance with these SOPs. From January 1, 2015 to March 31, 2015, SWPD's Code Specialists inspected nine (9) facilities from the IHRR list in accordance with county SOPs. With the exception of one facility (Virginia Concrete Company – Mid

Atlantic; VPDES permit number VAG110069) no significant pollutant discharges were discovered during the inspections. Virginia Concrete Company – Mid Atlantic was referred to the Virginia Department of Environmental Quality on March 27, 2015 for compliance review. Educational materials on stormwater best management practices were provided to facilities as part of the inspections.

a.8 (b) Report an updated list of all industrial storm water sources and VPDES permitted facilities that discharge into the MS4.

Fairfax County's current inventory of Industrial and High Risk Runoff (IHRR) facilities within the county's MS4 service area is 144.

a.9) Construction Site Runoff

A program to reduce the discharge of pollutants from construction sites (land disturbing activities equal to or greater than one acre) shall be implemented under this program (B.1.i).

a.9 (a) Report all Erosion and Sediment Control Plans the permittee has approved for sites disturbing greater than 1 acre of land for that year.

From January 1, 2015 to March 31, 2015, a total of 157 erosion and sediment (E&S) control plans for projects that would disturb a land area of 2,500 square feet or more were submitted and approved. Written monthly reports listing these individual sites were submitted to DEQ.

Fairfax County's E&S control program is fully approved by DEQ and is implemented by the Land Development Services (LDS) business area of DPWES. From January 1, 2015 to March 31, 2015, 5707 E&S inspections were performed through the county's Alternative Inspection Program on all sites under construction. Those E&S inspections represent 55 percent of the 10,480 total site inspections that were performed by Site Development and Inspection Division (SDID) personnel. The site inspections total also includes 1512 projects that were inspected for purposes other than strictly E&S control (e.g., pre-construction, streets, sanitary sewer, storm sewer, and project release).

From January 1, 2015 to March 31, 2015, SDID wrote 71 E&S control inspection reports (formerly called "20/30 reports"), which identify the E&S control deficiencies construction site operators (formerly called "developers") must correct within five days. Failure to comply within the specified time frame can result in issuance of a violation to the developer. From January 1, 2015 to March 31, 2015, SDID issued 2 violations and they were later resolved. SDID held 168 escrows for either landscaping or stabilization issues.

The Land Disturbance and Post Occupancy Branch of LDS investigates complaints alleging violations of Fairfax County's Erosion and Sediment Control Ordinance (Chapter 104). The branch also investigates complaints alleging violations of the county's Chesapeake Bay Preservation Ordinance (Chapter 118). From January 1, 2015 to March 31, 2015, the branch received 7 total complaints. In most instances, there was either no violation or there was timely compliance if a violation was cited. The branch issued 31 Notices of Violations (6 Resource Protection Area (RPA) violations and 25 land disturbance violations). The branch undertook one criminal proceedings to ensure compliance. Currently all RPA violations have been cleared, but two land disturbance violations are still being addressed.

Residents may report complaints about erosion and sedimentation to the county by phone, through e-mail, or anonymously on the web. Residents can visit the following website to find contacts for specific land development issues: http://www.fairfaxcounty.gov/dpwes/sitedevelopment/land_dev_concerns.htm

a.10) Storm Sewer Infrastructure Management

A program to maintain and update the accuracy and inventory of the storm sewer system shall be implemented. The permittee shall submit to the Department of Environmental Quality, Northern Virginia Office a plan and schedule by which the entire storm sewer Infrastructure will be mapped. The plans and schedule shall be submitted within 180 days of the effective date of this permit (B.1.j).

A Storm Sewer Infrastructure Management Plan and Schedule was submitted to DEQ on July 24, 2002, in accordance with the requirements of the permit. Fairfax County staff field verified the location of the storm drainage conveyance system on 436 tax map grids covering 399 square miles. The effort identified storm sewer pipes, outfalls and associated appurtenant structures, and resulted in the development of a GIS-based data layer which was completed in 2005. The requirements in the plan have been fulfilled and the infrastructure inventory is now continuously updated in accordance with the permit.

For the period January 1, 2015 to March 31, 2015, the GIS inventory was updated with new as-built plans and field verification of system components within identified easements. Five (5) as-built construction plans were digitized while continuing efforts to review the inventory's completeness and spatial accuracy resulted in updates to 22 tax map grids. Routine maintenance of the GIS-based stormwater easement database continues through 2015.

The county continued implementation of its infrastructure inspection and rehabilitation program. Over 4,200 pipe segments and over 4,200 storm structures were inspected with ground surface inspections and video or photo documentation during this period in 2015. Under the condition assessment program, more than 28 miles of pipe were videoed. The videos document the existing structural and service conditions of the interior of the storm drainage system. All of the inspection efforts represent nearly 85 miles, of the storm drainage network being photographed or screened for obvious deficiencies. The inventory continues to be assessed for ongoing repair of identified deficiencies. As a result of the inspection efforts, 0.5 miles of storm pipe was rehabilitated or repaired through replacement or by lining entire pipe segments using cured-in-place pipe lining methods.

a.11) Public Education

A public education program shall be implemented (B.1.k).

Fairfax County's public education program is an essential component of stormwater management. The program raises awareness about stormwater challenges throughout the county and offers opportunities for residents to become involved in efforts to restore and protect Fairfax County's local waterways, the Occoquan Reservoir, the Potomac River and the Chesapeake Bay. A number of county organizations contribute to the public education program including SWPD, Solid Waste Management (SWM), FCPA and NVSWCD as well as the regional Clean Water Partners (CWP). County staff used a variety of methods to provide public education including in-person presentations, print publications, television, radio and online resources.

Between January 1, 2015 and March 31, the county continued to implement a public education program to reach adults and children including public school students, homeowners, businesses and members of the general public. The program addressed topics such as watersheds; recognition and reporting of illicit discharges into the MS4; proper management and disposal of wastes, pesticides, herbicides and fertilizers; and stream cleanups and other stewardship opportunities. A detailed listing of public education efforts is included in Attachment 2.

a.12) Monitoring Programs

a.12 (a) Report on the Dry Weather Screening Program; (1) Number of outfalls inspected and test results; (2) Follow-up activities to investigate problematic areas and illicit dischargers.

The permittee shall continue ongoing efforts to detect the presence of illicit connections and improper discharges to the Municipal Separate Storm Sewer System. Representative outfalls of the entire Municipal Separate Storm Sewer System must be screened at least once during the permit term. Screening methodology may be modified based on experience gained during actual field screening activities and need not conform to the protocol at 40 CFR 122.26(d)(1)(iv)(D). Sample collection and analysis need not conform to the requirements of 40 CFR Part 136 (B.1.1.1).

Dry weather screening is conducted in autumn each year in accordance with program standard operating procedures. There were no outfalls screened through the program during the time period covered by this annual report.

a.12 (b) Report on the Wet Weather Screening Program; (1) Number of outfalls inspected and test results; (2) Follow-up activities to investigate problematic areas and illicit dischargers.

a.12 (b) Report on the Wet Weather Screening Program; (1) Number of outfalls inspected and test results; (2) Follow-up activities to investigate problematic areas and illicit dischargers.

The permittee shall investigate, and address known areas within their jurisdiction that are contributing excessive levels of pollutants to the Municipal Separate Storm Sewer System. The Permittee shall specify the sampling and nonsampling techniques to be used for initial screening and follow-up purposes. Sample collection and analysis need not conform to the requirements of 40 CFR Part 136 (B.1.1.2).

From January 1, 2015 to March 31, 2015, Wet Weather Screening was conducted using the protocol, "Fairfax County Wet Weather Screening Program Plan" (2014). Two sites were monitored over one storm event on March 4, 2015. Runoff samples were collected via automated sampler and event mean concentrations (EMCs) calculated for total petroleum hydrocarbons, chemical oxygen demand, total phosphorous, total nitrogen, Kjeldahl nitrogen, nitrate-nitrite nitrogen, zinc, cadmium, copper, lead, chromium, nickel, hardness, suspended solids (TSS), ortho-phosphorous, and alkalinity. These two sites are part of a larger suite of 10 targeted sites that will be monitored during 40 storm events between 2014 and 2018 (every year two sites will be monitored quarterly). These sites were identified in industrial and commercial areas and were ranked according to their county land use code, potential to contribute pollutants to the MS4 and information gathered from field reconnaissance.

The water quality analysis indicates that the runoff from the 2014 permit year sites (sampled between January 1, 2015 to March 31, 2015) was not a significant source of pollutants to the MS4. Levels of three pollutants, copper, zinc, and Kjeldahl nitrogen (total) were elevated in the sample from site B. Nitrate-nitrite nitrogen levels were also slightly elevated in the sample for site A. The water quality analysis indicates that the runoff from the 2014 sites was not a significant source of pollutants to the MS4. Elevated copper, zinc, and nitrogen concentrations are common in urban and suburban runoff (Davis, Shokouhian and Ni, 2001)¹, (USGS 1993).²

¹ Davis, Allen P., Shokouhian M., and Ni, S. 2001. Loading estimates of lead, copper, cadmium, and zinc in urban runoff from specific sources. *Chemosphere, Volume 44, Issue 5, August 2001, Pages 997-1009*

a.12 (c) Report on the Industrial and High Risk Runoff Monitoring Program

The permittee may include monitoring for pollutants in storm water discharges to the Municipal Separate Storm Sewer System which include: municipal landfills; other treatment, storage, or disposal facilities for municipal waste; hazardous waste treatment, storage, disposal and recovery facilities; facilities that are subject to EPCRA Title III, Section 313. Monitoring may also be required on other industrial or commercial discharges the permittee determines are contributing a substantial pollutant loading to the Municipal Separate Storm Sewer System. Permittee may require the industrial facility to conduct self-monitoring to satisfy this requirement (B.1.1.3).

As mentioned in section a.8, Fairfax County has continued improvement of the IHRR inspection program and finalized SOPs to identify and control pollutants in stormwater discharges to the MS4 from IHRR facilities.

As part of the effort to screen for possible discharges of significant pollutants, the Code Specialists review DMRs submitted to the County by facilities holding VPDES permits.

The county has an SOP document for staff review of DMRs. The SOP covers procedures to inform DEQ of facilities that fail to submit DMRs to the county. DMRs for industrial stormwater VPDES permitted facilities are required to be submitted on a semiannual basis with due dates of January 10th and July 10th. For the January 10, 2015 submission date, the county did not receive DMRs from six (6) permitted industrial stormwater facilities and subsequently notified DEQ.

During the first quarter of 2015, no facility was required to conduct additional monitoring or self-monitoring. -

a.12 (d) Report on the Watershed Monitoring Program; (1) Monitoring plan; (2) Summarize the implementation including, Storm Event Data, Station test results, Seasonal Loadings and Yearly Loadings.

The permittee shall develop a long-term monitoring plan and trend analysis to verify the effectiveness and adequacy of control measures in the County's Storm Water Management Plan and to identify water quality improvement or degradation. The permittee shall submit an approvable monitoring program to the Department of Environmental Quality no later than one year from the effective date of this permit. The program shall be implemented within two years of the effective date of the permit. Monitoring shall be conducted on representative stations to characterize the quality of storm water in at least two watersheds during the term of this permit (C.1).

For the period of January 1, 2015 to March 31, 2015, there were no measurable storm events to collect samples at the two monitoring sites, Henderson Road in Occoquan (OQN) and Kingsley Avenue in Vienna (VNA) in accordance with Fairfax County's Watershed Water Quality Monitoring Program (2003). The tables below contain information collected during the previous periods of collection. Table 1 contains the median, high and low concentrations of each of the nine constituents during the period from 2005 to 2014.

In addition, statistical analyses using the Mann-Whitney 2-sample test were performed to determine if there were significant differences between constituent concentrations at the two stations. In 2014, as in 2013, 2012, 2011 and 2010, the analysis found significant statistical differences for concentrations of all of the nine constituents measured at the two sites. In addition, seasonal and annual unit-area constituent loadings for 2014 were calculated and are presented in Table 2.

Table 1: Results of statistical analysis to determine if there is a significant difference between observed constituent concentrations at Vienna and Occoquan Stations for 2005 through 2014

Constituent	Vienna Median	Vienna High	Vienna Low	Occoquan Median	Occoquan High	Occoquan Low	Differences Statistically Significant?
NH ₃ -N	0.18	0.73	0.00	0.01	0.27	0.00	YES
COD	52	292	12	20	122	0	YES
<i>E. Coli</i>	1,295	200,000	0	338	59,100	20	YES
Fecal Strep	5,350	129,000	14	650	51,000	18	YES
NO ₃ +NO ₂ -N	0.73	1.64	0.16	0.44	0.73	0.10	YES
TDS	115	836	41	98	160	71	YES
TKN	1.60	11.30	0.48	0.57	2.41	0.00	YES
TP	0.30	1.61	0.05	0.05	0.80	0.00	YES
TSS	52.5	1207	4.9	14.5	485	1.40	YES

All constituent units are expressed in milligrams per liter, other than *E. coli* and Fecal Strep which are in colonies per 100 milliliters. Statistical significance was based on a Mann-Whitney 2-sample test at a 0.1 significance level.

Table 2: Computed seasonal and annual unit-area constituent loadings at monitored locations for 2014

Constituent	Winter Vienna	Winter Occoquan	Spring Vienna	Spring Occoquan	Summer Vienna	Summer Occoquan	Fall Vienna	Fall Occoquan	Annual Vienna	Annual Occoquan
NH ₃ -N	0.196	0.006	0.184	0.041	0.126	0.009	0.069	0.008	0.574	0.064
COD	53	6	56	23	35	5	57	7	202	41
<i>E. Coli</i>	.66	.20	29.07	15.35	103.73	14.64	16.87	4.55	150.32	34.74
Fecal Strep	3.77	0.79	39.78	13.40	80.21	25.95	47.69	4.46	171.44	44.60
NO ₃ +N O ₂ -N	0.58	0.14	0.70	0.21	0.45	0.13	0.31	0.09	2.04	0.57
TDS	161	35	116	45	50	30	68	26	395	137
TKN	1.31	0.13	2.52	0.53	1.02	0.21	0.66	0.14	5.51	1.01
TP	0.19	0.01	0.21	0.13	0.21	0.03	0.27	0.03	0.89	0.20
TSS	71	3	75	79	75	14	87	17	307	113

All loadings are expressed in pounds per acre, except for *E. coli* and Fecal Strep which are in billions of colonies per acre. To compute total loads in pounds or billions of colonies, unit-area loading was multiplied by the drainage area of the monitoring station in acres.

a.12 (e) Report on the Bioassessment Monitoring Program; (1) Monitoring plan; (2) Summarize test results.

The permittee can use and is encouraged to use a rapid bioassessment monitoring program to demonstrate the effectiveness of the stormwater management plan. The program will be implemented within one year of the effective date of the permit and an approvable program must be submitted within six months of the effective date of the permit (C.2).

A probability-based site selection sampling methodology was used to identify randomly-selected stream bioassessment locations throughout Fairfax County. These sites were stratified and proportionally distributed throughout the county based on Strahler stream order applied to all perennially flowing streams in Fairfax County. This methodology eliminates any site selection bias and is commonly used as a cost-effective way of obtaining a statistically defensible determination of stream conditions at a countywide scale.

For the period of January 1, 2015 to March 31, 2015, 38 randomly identified sites within Fairfax County were sampled for benthic macroinvertebrates as part of the annual probabilistic monitoring program. Once analyzed, these samples will be used to calculate the multi-metric Index of Biological Integrity (IBI) developed for the aquatic benthic macroinvertebrate communities within Fairfax county. IBI results were produced after March 31, 2015.

a.12. (f) Report on the Floatables Monitoring Program

The permittee shall conduct surveys of floatables. The intent of the survey is to document the effectiveness of the litter control programs for the Municipal Separate Storm Sewer System. Surveys shall be done in accordance with the following procedures: c) The above may be accomplished through the "Adopt a Stream" program referenced in Part I.B.1.k.2 (C.3.c).

In 2014 SWPD developed a logical model to organize and analyze data collected using the Trash Assessment for Improved Environments (TAFIE) stream condition assessment protocols and data forms. TAFIE data is collected by the county as well as by volunteer groups to be integrated and compared with stream cleanup data collected using similar methodologies (particularly the Alice Ferguson Foundation's Visible Trash Survey and the International Coastal Cleanup), as well as allow cleanup data to be merged with other permit-related information (for example, stream cleanup results and stream biomonitoring data).

The county continued to work with and support the following organizations that coordinate large and small-scale volunteer cleanups:

- Clean Fairfax Council
- The Alice Ferguson Foundation (Potomac River Watershed Cleanup)

Clean Fairfax Council does not have data to report on for January 1 – March 31, 2015.

The county continued to provide support and staff for various stream and river cleanup events. During January 1 and March 31, 2015, approximately 49 sites were identified throughout the county for the Alice Ferguson Foundation's annual Potomac River Watershed Cleanup.

Fairfax County Park Authority county-wide clean up days were held at seven (7) parks between January 1- March 31, 2015.

The county continued to promote the "Adopt a Stream" program. SWPD distributed copies of its Floatables Monitoring Program Brochure to various public offices and during educational activities and outreach events throughout the county. The brochure was also made available on the county Stream Litter website:

<http://www.fairfaxcounty.gov/dpwes/stormwater/streamlitter.htm>

Stream cleanup event organizers were encouraged to record their cleanup information on the Floatables Data Reporting Form (available in the brochure or on the county website) and return the completed form to the county.

b) Proposed Changes to the Stormwater Management Program

Storm Water Management Program Review and Update (B.4).

In 2009 Fairfax County and Fairfax County Public Schools proposed to DCR that the two jurisdictions be covered by the county's Phase I MS4 permit. The arrangement would be contingent upon the two jurisdictions submitting formal documentation to the state outlining the commitments of each jurisdiction and upon renewal of the county's Phase I MS4 permit. In 2009 the county and Public Schools drafted a memorandum of understanding (MOU) outlining the roles and responsibilities of each jurisdiction that pertain to specific requirements of the MS4 permit. In 2013, Fairfax County Public Schools was issued a renewed Phase II MS4 permit (VAR040104). Both parties are working to address requirements which may impact specific terms of the draft MOU and are continuing toward finalizing the document.

c) Assessments of controls and the fiscal analysis of the effectiveness of new controls established by the Stormwater Management Program

As the county approaches build-out conditions, it has become increasingly challenging to mitigate the impacts of impervious area and nonpoint source pollution on streams. Several efforts through the existing stormwater management program are helping to reduce or minimize water quality impacts. They include: the mandate of controls (BMPs) by the Stormwater Management Ordinance (Chapter 124); development and implementation of Comprehensive Watershed Management Plans; development of a retrofitting program for existing developed areas; and ongoing changes to stormwater management codes, policies, ordinance, and guidelines.

d) Annual Expenditures for the Stormwater Management Program and Budget

The county does not track expenditures to meet permit requirements separately from its overall stormwater program administered by DPWES, nor do other agencies track the resources they have expended on programs that contribute towards meeting MS4 permit conditions. The actual expenditures for the period of January 1, 2015 to March 31, 2015 are \$5.1 million.

In FY 2006 the Board of Supervisors dedicated the value of one penny of the real estate tax, or approximately \$20 million annually to stormwater capital projects. As part of the FY 2010 Adopted Budget Plan, a new service district was created to support the stormwater management program, as authorized by Virginia Code Annotated Sections 15.2-2400. As part of the FY 2016 budget, the Board of Supervisors increased the stormwater service district levy to \$0.0250 (two and a half cents) per \$100 of assessed real estate value. The stormwater service district will generate approximately \$56.5 million in FY 2016 that will be dedicated to funding the entire stormwater management program which includes both staff operating requirements and stormwater capital projects.

e) Identification of water quality improvements or degradation

Fairfax County continues to use the monitoring programs identified within this report to track the water quality of streams within the county. The county also stays abreast of DEQ's water quality assessment program to track and address Total Maximum Daily Loads (TMDLs). To date, the following TMDLs have been established in Fairfax County:

- Bacteria (Fecal Coliform and/or E. coli):
 - Accotink Creek
 - Four Mile Run
 - Bull Run

- Pope's Head Creek
- Difficult Run
- Hunting Creek (includes Cameron Run and Holmes Run)
- Sediment (Benthic Impairment): -
 - Bull Run
 - Pope's Head Creek
 - Difficult Run
- PCBs: Tidal Potomac (includes Accotink Creek, Belmont Bay, Dogue Creek, Four Mile Run, Gunston Cove, Hunting Creek, Little Hunting Creek, Occoquan River and Pohick Creek)

The county will continue to implement best management practices to control stormwater pollutants, meet regulatory requirements, and take a holistic approach to watershed restoration and preservation. Efforts include enhanced infrastructure maintenance and inspections, implementation of watershed management plans, a continued construction inspection program, and ongoing outreach efforts to increase public awareness. It is anticipated that these efforts will have a positive long-range impact on the future health of county watersheds, will help to satisfy stream water quality standards and support the goals of restoring both local waterways and the Chesapeake Bay.

Attachment 1: Fairfax County's Watershed Management Plans

The following is a list of Fairfax County's thirteen watershed management plans. The date of plan adoption is specified as well as the watershed or watersheds that were included in the watershed planning group.

1. - Little Hunting Creek Watershed Management Plan (February 2005)
 - Included watershed: Little Hunting Creek
2. - Popes Head Creek Watershed Management Plan (January 2006)
 - Included watershed: Popes Head Creek
3. - Cub Run and Bull Run Watershed Management Plan (February 2007)
 - Included watersheds: Cub Run and Bull Run
4. - Difficult Run Watershed Management Plan (February 2007)
 - Included watershed: Difficult Run
5. - Cameron Run Watershed Management Plan (August 2007)
 - Included watershed: Cameron Run
6. - Middle Potomac Watersheds Management Plan (May 2008)
 - Included watersheds: Bull Neck Run, Dead Run, Pimmit Run, Scotts Run, and Turkey Run
7. - Pohick Creek Watershed Management Plan (December 2010)
 - Included watershed: Pohick Creek
8. - Sugarland Run and Horsepen Creek Watershed Management Plan (December 2010)
 - Included watersheds: Sugarland Run and Horsepen Creek
9. - Belle Haven, Dogue Creek and Four Mile Run Watershed Management Plan (January 2011)
 - Included watersheds: Belle Haven, Dogue Creek, and Four Mile Run
10. Lower Occoquan Watershed Management Plan (January 2011)
 - Included watersheds: High Point, Kane Creek, Mill Branch, Occoquan, Old Mill Branch, Ryans Dam, Sandy Run, and Wolf Run
11. Nichol Run and Pond Branch Watershed Plan (January 2011)
 - Included watersheds: Nichol Run and Pond Branch
12. Accotink Creek Watershed Management Plan (February 2011)
 - Included watershed: Accotink Creek
13. Little Rocky Run and Johnny Moore Creek Watershed Plan (February 2011)
 - Included watersheds: Little Rocky Run and Johnny Moore Creek

Print copies of final approved plans are available at the SWPD office, Fairfax County Public Libraries, and Board of Supervisors District offices. Digital copies are available upon request from the SWPD and are available online at <http://www.fairfaxcounty.gov/dpwes/watersheds>.

Attachment 2: 2015 Public Education Program

Public Education Effort	Topics Addressed	Audiences	Statistics	Lead Organizations
Supervisor Hyland's Annual Town Hall Meeting January 31, 2015	Environmental awareness, watershed-friendly behaviors, native plants, saving water at home, pick up the pet waste, promoting pollinators, proper waste management and recycling	General public	200-300 visitors	Mount Vernon District Supervisor Gerry Hyland
Podcasts (aired on Fairfax County website)	safe winter sidewalks without salt; the fall cankerworm; general tree care	General public	350 listeners per program (each program airs for two weeks) not able to determine the number of listeners for the dates specified.	Department of Public Works and Environmental Services (DPWES)
Fairfax County's Environmental Facebook Page	Springfest 2015, household hazardous waste, Big Rocky Run planting (Video), free document shredding for county residents, the Environmental Quality Advisory Council (EQAC)	General public	706 "Likes" (not able to determine the number of 'likes' for the dates specified).	DPWES
SlideShare PowerPoint Presentations (online)	Stream restoration projects at Dead Run, the Huntington Levee project, Huntsman Lake Dredging, stormwater program update to McLean Citizens Assoc., Indian Run Stream Restoration, Stormwater programs that impact business, Banks property stream restorationand	General public	Not able to determine the number of views for the dates specified	DPWES
Public Service Announcements (County website, television and YouTube)	Plastic bags, "Stormy the Raindrop," cigarette butts, flood prevention, tree pests, FOG, Only Rain Down the Drain, litter, fish relocations, fishing rodeo, New video entitled "Watching Paint Dry – Proper Latex Paint Disposal launched on on county's environment news feed	General public	On-going programs	DPWES, Fairfax County Channel 16

Public Education Effort	Topics Addressed	Audiences	Statistics	Lead Organizations
Stormwater Presentations	Watersheds, ecosystem health, and stormwater management	Elementary school students	More than 170 students	Stormwater Planning Division (SWPD)
News Releases and other information posted to NewsWire (sent to the media)	FAQs about the fall cankerworm, Friends of Trees, Land Conservation and Tree Preservation Awards,	Media	Four news releases were sent to the media	SWPD, WWM, UFMD
Staff Interviews (Local and National Media)	Sanitary sewers overflows, a fish kill in Holmes Run, wastewater trouble response, snakeheads in local streams, native plant installation at Big Rocky Run.	General public	Approximately 5 interviews by television, radio and print reporters	SWPD, WWM, Urban Forestry
Sewer Science Laboratory	Distinguishing between storm drainage versus sanitary sewer systems	High school students	1,651 students (15 high schools, 60 classes, 20 teachers)	Wastewater Management (WWM)
Water Quality Field Day	Water Quality and stormwater and wastewater management	Elementary school students	136 students (5 schools and 8 teachers)	SWPD, WWM
Clean Fairfax Council Online Information	Litter, environment	General public	Approximately 100,000 impressions (i.e., web hits, tweets, Facebook)	Clean Fairfax Council
Support to Fairfax County Visitors' Center	Environment	General public	Targeted over 15000 residents and businesses with marketing for event, over 50,000 views for website/facebook/other social media	Clean Fairfax Council
SpringFest	Environmental Fair	General Public and Environmental Groups	More than 5,000 attendees and approximately 25 environmental organizations	Clean Fairfax Council
Johnnie Forte Environmental Grant Program	Annual grants to support environmental projects awarded in January of each year	Public schools	6 Environmental Education and Action grants (between \$500-\$1000) awarded to Fairfax County Public Schools	Clean Fairfax Council (CFC), SWM

Public Education Effort	Topics Addressed	Audiences	Statistics	Lead Organizations
Television, print, internet advertising, www.onlyrain.org , banner ads and public service announcements	Pet waste, used motor oil, over fertilization of lawns and general stormwater pollution reduction measures (regional stormwater public education campaign)	General public	4 TV ads, aired on 12 channels (incl. 3 Spanish-language) 3,502 times, 3,193,924 viewers; Banner ads were aired 527,863 times; 500 online survey responses (the above information is from the 2014 campaign) the information from the 2015 campaign is from July 1, 2014 through June 30, 2015.	Clean Water Partners
Wonders of Water Journey Programs	Various topics of the water cycle	Girl Scouts	3 programs served 58 scouts	FCPA
Lake and Stream Valley Cleanup Days	Litter, water protection, stewardship	General public	Hosted at seven parkstream locations	FCPA
Storm Drain Marking Program	Stewardship, nonpoint source pollution, proper disposal of wastes	General public	Winter season: 361 projects, 80 storm drains, 650 households educated, 484 volunteers contributing 1,420 volunteer hours Ordered 1,800 storm drain labels for FY2016	Northern Virginia Soil and Water Conservation District (NVSWCD)
Enviroscape® Model Presentations	Nonpoint source pollution prevention, watersheds	Children	1 teacher training	NVSWCD
Watershed Calendar	Watershed Events and Trainings	General Public	1,338 recipients monthly	NVSWCD
Volunteer Stream Monitoring Program	Watershed awareness, stream health	General Public	21 site leaders monitored 17 sites four times per year; 25 residents attended workshops and field trips	NVSWCD
<i>Conservation Currents</i> Newsletter	Stream health, stream monitoring, stream restoration, stewardship	General public	2,500 copies distributed: print, email. Online and in print; posted online http://www.fairfaxcounty.gov/nvswcd/newsletter/.htm	NVSWCD
Technical Assistance Site Visits	Drainage and erosion	Homeowners and HOAs	90 site visits	NVSWCD

Public Education Effort	Topics Addressed	Audiences	Statistics	Lead Organizations
Solving Drainage and Erosion Problems Website for Homeowners	Drainage and erosion, controlling runoff	Homeowners	34,000+ page views, nearly 28,000+ visitors	NVSWCD
NVSWCD Website	Managing land, protecting water quality, controlling stormwater, preventing erosion, encouraging native vegetation	Homeowners	85,481 views and 60,463 by 124,741 visitors	NVSWCD
Earth Friendly Suburban Horse Farming Publication	Stewardship	Horse-keeping community	Distributed at events and online with more than 7,000 views of guide and related articles	NVSWCD
Conservation Planning	Nutrient management and composting	Horse-keeping operations	Managers of 663.8295 acres received education. Conservation plans included instructions for 2,850 linear feet of new vegetated buffer and 11,093 linear feet of replanted stream buffers.	NVSWCD
"Build-your-own" Composter Workshops	Composting	General public	17 participants constructed 12 tumbler-style composters	NVSWCD
Watershed Friendly Garden Tour (June)	LID practices (that can be adopted at home or area schools)	General public	Preparations made for June 2015	NVSWCD
Rain Garden Workshops	LID practices	Residents and industry professionals	Prepared for workshop later in the year	NVSWCD
<i>Residential LID Landscaping Guide</i> (hard copy and electronic formats)	LID, design and installation information, sources of supplies, plant materials	Homeowners	Published, 280 downloads	NVSWCD
Northern Virginia Rain Barrel Initiative	LID practices	General public	Two rain barrel events with 26 participants, 59 rain barrels. Since 2007 barrels distributed capture more than 200,000 gallons of stormwater from county roofs annually.	NVSWCD

Public Education Effort	Topics Addressed	Audiences	Statistics	Lead Organizations
Artist Rain Barrel Program	LID practices	Students	12 local artists painted rain barrels which were on display across Northern Virginia region. 36 teams of students painted and decorated rain barrels for auction at an Earth Day event.	NVSWCD in partnership with Northern VA Rain Barrel Program
<i>Rain Garden Design and Construction: A Northern Virginia Homeowner's Guide</i> (hard copy and electronic formats)	LID practices, instructions and calculations needed to build a rain garden	Homeowners	Distributed in print and online with 4,328downloads	NVSWCD, FCPA
SCRAPmail	Electronic resource available by email subscription (news, event announcements, updates, reviews of environmental education resources available to county schools)	Teachers, students, school administrators	250 subscribers (messages sent quarterly)	Schools/County Recycling Action Partnership
Household Hazardous Waste Management Program	Proper disposal of household hazardous wastes	County residents	Program now available 7 days per week	Solid Waste Management (SWM)
E-Waste Recycling Program	Recycling	County residents	Program now available 7 days per week	SWM
Used cooking oil recycling	Program for recycling used cooking oil	County residents	Used cooking oil collected sent for use as alternative fuel	SWM
Unused Latex Paint	Program for re-use of latex paint	County residents	Partnership with Habitat for Humanity to utilize unwanted latex paint	SWM
Solid Waste Management Recycling Web Content	Recycling and Source Reduction	General public	17,201 visits (most viewed portion of the DPWES website)	SWM
Solid Waste Management Outreach and Facility Tours	Outreach to FCPS fourth-graders to support schololwide project regarding recycling	Fairfax County Public School students	Over 20 presentations to about 700 students and parents	SWM
Solid Waste Management "listserv"	Trash collection and Leaf Collection	Residents	2,150 subscribers (messages sent monthly)	SWM
Shredding Sponsored Events	Document shredding	Residents	One shredding events btw Jan 1 anf March 31	SWM

Public Education Effort	Topics Addressed	Audiences	Statistics	Lead Organizations
Rechargeable Battery Recycling	Recycling	General public	Collection boxes available at County Board of Supervisors' offices and county government buildings	SWM with industry-funded Rechargeable Battery Recycling Corporation Program
Annual <i>Go Recycle</i> Radio Campaign	Recycling	General public	Two weeks of announcements regarding recycling on five major Washington DC radio stations planned for 2015.	SWM with the Metropolitan Washington Council of Governments
Regional KnowToxics Program	Federal and state regulations requiring proper disposal or recycling of spent fluorescent lamps, rechargeable batteries, computers and related electronics	Business owners	More than 3500 visits to the KnowToxics website	SWM with the Northern Virginia Regional Commission (NVRC)
Solid Waste Managers "train the trainer"	Proper management of universal waste and hazardous waste	Commercial Property Managers and General Public	75 attendees at 2015 training event	SWM with NVRC