

FY2016 Annual Report VSMP Phase II (MS4) Program Hanover County, Virginia

Permit No. VAR040012

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Background Information

Program Name: Hanover County - Municipal Separate Storm Sewer System

Permit Number: VAR 040012

MS4 Contacts:

Below named are the lead person(s) responsible for the implementation of the terms and conditions of the permit:

Alexander P. Mease, P.E. - Civil Engineer II, Department of Public Works

Michael J. Dieter, P.E. - Engineering Manager, Department of Public Works

J. Michael Flagg, P.E. - Director of Public Works

These responsible persons can be reached at the Hanover County Department of Public Works, 7516 County Complex Road, Hanover Courthouse, Hanover, VA 23069, telephone (804) 365-6181, fax (804) 365-6233.

Annual Report Permit Year: FY2016, July 1, 2015 – June 30, 2016 (Year 3 of MS4 permit implementation, permit cycle 3)

Modifications to roles and responsibilities: None

Number of new MS4 outfalls and associated acreage by HUC added during the permit year:

New Outfall #	Acreage	HUC Designation	Urbanized Area
119200448	2.3	JL19	2000 & 2010
119200449	5.8	JL19	2000 & 2010
119200450	2.2	JL19	2000 & 2010
119200451	0.3	JL19	2000 & 2010
117200183	1.0	JL17	2010
117200184	0.99	JL17	2010
117200185	0.28	JL17	2010
117200186	1.63	JL17	2010
117200187	0.59	JL17	2010
117200188	0.75	JL17	2010
119200453	4.18	JL19	2000 & 2010
330200303	6.5	YO30	2000 & 2010
330200304	0.36	YO30	2000 & 2010
119200454	0.1	JL19	2000 & 2010
TOTAL ACREAGE	26.98		
To New MS4 Outfalls	14 New Outfalls Added		

CERTIFICATION STATEMENT AND REQUIREMENTS

As required by 9VAC25-870-370 B, all reports required by state permits, and other information requested by the board, shall be signed by a responsible official or by a duly authorized representative of that person.

A responsible official is:

1. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy-making or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for state permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
2. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
3. For a municipality, state, federal, or other public agency: by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a federal agency includes (i) the chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.

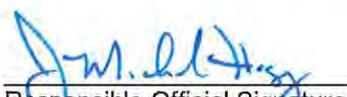
Duly Authorized Representatives

A person is a duly authorized representative only if:

1. The authorization is made in writing by a person described above;
2. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. A duly authorized representative may thus be either a named individual or any individual occupying a named position; and
3. The written authorization is submitted to the department.

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.


Responsible Official Signature

9/28/2016
Date

J. Michael Flagg, Director of Public Works

VAR 040012
Permit Number

Hanover County - Municipal Separate Storm Sewer System
MS4 Name

Status of Compliance with State Permit Conditions

The status of compliance with state permit conditions, an assessment of the appropriateness of the identified best management practices, and progress towards achieving the identified measurable goals for each of the minimum control measures are provided in this Annual Report.

Hanover County is currently compliant with the MS4 permit. The BMPs identified in Hanover County's MS4 Annual Report are intended to address discharges to all waters in the MS4 area and are effectively addressing discharges to impaired waters. Following an annual review, target audiences and strategies were reviewed and determined to be appropriate for future outreach efforts. As required under the provisions of 9VAC 25-890-40 the MS4 Program Plan is updated in accordance with the Table 1 schedule.

Compliance with TMDL Requirements

Special conditions for approved total maximum daily loads (TMDL) other than the Chesapeake Bay TMDL:

Table 1 Scheduled Submissions:

- 24 months after permit coverage, TMDLs approved before July 2008:
Not Applicable to Hanover County
- 36 months after permit coverage, TMDLs approved between July 2008 and June 2013: Chickahominy Bacterial TMDL Action Plan to be developed within 36 months of permit coverage or by July 1, 2016.
Hanover County's Chickahominy Bacterial TMDL Action Plan was submitted in conjunction with the FY2016 MS4 Annual Report.

Special condition for the Chesapeake Bay TMDL:

Table 1 Scheduled Submission:

- 24 months after permit coverage, Chesapeake Bay TMDL Action Plan: Chesapeake Bay TMDL Action Plan to be developed within 24 months of permit coverage or by July 1, 2015
Hanover County's Chesapeake Bay TMDL Action Plan was submitted in conjunction with the FY2015 MS4 Annual Report. A copy of the approval letter can be found in Appendix L.

Completed and currently planned projects for meeting nutrient reduction obligations under the Chesapeake Bay TMDL are provided below along with anticipated target dates. Any stormwater management controls implemented during the reporting year are included as part of the facility tracking and reporting requirements. Hanover County is fully compliant in achieving the TP, TN, and TSS target reductions for this permit cycle (5.0%). Any additional reductions beyond the 5.0% will be credited toward future permit cycle reductions. For more information refer to the Hanover County Chesapeake Bay TMDL Action Plan.

Cumulative Progress towards meeting the compliance targets

** Approved reductions consistent with Hanover County's Chesapeake Bay TMDL Action Plan*

Pollutant of Concern	Annual Load Reduction	Percentage of L2 Reduction Achieved After Implementation
Total Nitrogen – James	262.60	14.72%
Total Nitrogen - York	219.95	30.31%
Total Phosphorus – James	53.31	17.23%
Total Phosphorus – York	281.66	201.19%
Total Suspended Solids – James	510,928.57	308.33%
Total Suspended Solids - York	79,276.16	154.46%

Implemented Control Measures (FY2016)

Project	Type	Location	Basin	Treatment Area (ac)	Length (ft)	TP Removal (lbs/yr)	TN Removal (lbs/yr)	TSS Removal (lbs/yr)
Church of the Creator	Stream Restoration	37.609, -77.346	James	28.7	650	42.68	222.57	507,206.54
Laurel Meadows ES	Wet Pond Level 2	37.627, -77.335	James	16.9		10.63	40.03	3,722.03

Expected Future Control Measures (FY2017)

Project	Type	Location	Basin	Treatment Area (ac)	Length (ft)	TP Removal (lbs/yr)	TN Removal (lbs/yr)	TSS Removal (lbs/yr)
Henderson Hall	Stream Restoration	37.687, -77.422	York	59.5	823	54.16	54.85	36,166.96
Eagle Point	Stream Restoration	37.738, -77.400	York	13.98	400	26.86	28.30	17,825.30

Future Progress towards meeting the compliance targets

Pollutant of Concern	Annual Load Reduction	Percentage of L2 Reduction Achieved After Implementation
Total Nitrogen – James	262.60	14.72%
Total Nitrogen - York	248.25	34.21%
Total Phosphorus – James	53.31	17.23%
Total Phosphorus – York	308.52	220.37%
Total Suspended Solids – James	510,928.57	308.33%
Total Suspended Solids - York	97,101.46	189.18%

** In addition to approved reductions consistent with Hanover County's Chesapeake Bay TMDL Action Plan, these totals include the Eagle Point Stream Restoration Project.*

MINIMUM CONTROL MEASURE 1 - Public Education and Outreach on Stormwater

Impacts

Hanover County implements a public education and outreach plan (located in the MS4 Program Plan) to distribute educational materials to the community or conduct equivalent outreach activities about the impacts of stormwater discharges on water bodies and the steps that the public can take to reduce pollutants in stormwater runoff.

Measurable Goal 1.a. – High-Priority Water Quality Issues

BMP 1.a.(1). – Chesapeake Bay TMDL

Identify, at a minimum, three high-priority water quality issues that contribute to the discharge of stormwater;

(1) A list of the education and outreach activities conducted during the reporting period for each high-priority water quality issue, the estimated number of people reached, and an estimated percentage of the target audience or audiences that will be reached; and

(2) A list of the education and outreach activities that will be conducted during the next reporting period for each high-priority water quality issue, the estimated number of people that will be reached, and an estimated percentage of the target audience or audiences that will be reached.

Compliance with Permit Conditions

The County keeps residents informed of the requirements of the Chesapeake Bay TMDL and the obligation to address the TMDL under the provisions of the MS4 permit. Public education and outreach activities are provided through announcements in the county newsletter and promotion of the Chesapeake Bay TMDL Action Plan.

Announcements in the Hanover Review provide tips to residents on how they can reduce pollution to the Chesapeake Bay through their everyday activities such as pet waste pick-up, landscaping, car washing, and yard waste dumping. Copies of announcements can be found in Appendix C. During FY2016, three issues of the Hanover Review were mailed to every household in the County. Each issue of the Hanover Review reaches over 47,000 residents and 100% of the target audience.

A community outreach meeting was held for the Ashland Park Subdivision on September 24, 2015. These meetings are a good platform to inform residents of the County's MS4 permit responsibilities and ways in which they can help to reduce pollution to the Chesapeake Bay.

A progress summary of Chesapeake Bay TMDL Action Plan compliance is posted on the Hanover County website to keep the public informed. The summary can be found at the following link: http://www.hanovercounty.gov/PW/Action_Plan_Summary.pdf

The Chesapeake Bay TMDL Action Plan is available on the county website and can be found at the following link: [http://www.hanovercounty.gov/Property/Municipal-Separate-Storm-Sewer-System-Permit-\(MS4\)/](http://www.hanovercounty.gov/Property/Municipal-Separate-Storm-Sewer-System-Permit-(MS4)/)

For the next reporting period, Hanover County expects to reach over 47,000 residents through Hanover Review announcements, maintain the Chesapeake Bay TMDL Action Plan, and reach 100% of the target audience.

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

Chesapeake Bay TMDL outreach increases citizen knowledge of pollutants that may enter the Bay through the County's MS4. Keeping the public informed allows them to be proactive in day-to-day activities that they may not realize contribute pollutants to stormwater runoff. Maintaining an updated Chesapeake Bay TMDL Action Plan educates the public of projects Hanover County is undertaking to reduce pollutant loading to the Bay. Hanover County will continue to provide 100% outreach through the Hanover Review and maintain an active Chesapeake Bay TMDL Action Plan.

BMP 1.a.(2). – Pet Waste Management Program (Pooch Pal)

Identify, at a minimum, three high-priority water quality issues that contribute to the discharge of stormwater;

(1) A list of the education and outreach activities conducted during the reporting period for each high-priority water quality issue, the estimated number of people reached, and an estimated percentage of the target audience or audiences that will be reached; and

(2) A list of the education and outreach activities that will be conducted during the next reporting period for each high-priority water quality issue, the estimated number of people that will be reached, and an estimated percentage of the target audience or audiences that will be reached.

Compliance with Permit Conditions

The pet waste management program places post mounted distribution boxes for bags to be used for the collection of pet wastes in public parks, recreational areas, and neighborhoods. A network of sponsors keeps the distribution boxes full of bags to be used to collect pet wastes. This serves to educate the public of the importance of the collection of these wastes. It is the responsibility of pet owners to clean up behind their pet in any public setting to reduce the harmful effects of dog waste on water quality and human health. This program is designed to encourage proper disposal of pet waste.

Focusing on areas that are frequented by canines and their owners such as parks and subdivisions, Hanover County created the "Pooch Pal" program. This program consists of the placement of a County donated dispenser which is filled with regular plastic bags (supermarket bags) for use in proper pet waste collection and disposal. The "Pooch Pal" bag dispenser is mounted on signs located in high canine traffic areas. Volunteers or "Pooch Pals" ensure that the dispensers are filled with bags. Hanover County Parks maintain a count of how many bags are used and report that information to the Hanover County Department of Public Works.

Provided here is a list of parks in Hanover County where the Pooch Pal bag dispensers have been placed and the number of dispensers at each location:

Parks	# Dispensers
Taylor Park	1
Pole Green Park	2
Montpelier Park	1
Poor Farm Park	1
Wayside Park	1
Courthouse Park	1
North Anna Battlefield Park	1
Washington Lacy Park	1
Cold Harbor Battlefield Park	1
TOTAL	10

During the previous MS4 permit, in an attempt to expand the “Pooch Pal” program, bag dispensers for the collection of pet waste were placed in neighborhoods. This expanded program relies on interested neighbors to keep bags supplied. Bag dispensers were placed in neighborhoods with active recycling programs. Neighborhoods that have bag dispensers installed are as follows:

Subdivisions	# Dispensers
Madison Springs	4
Castlewood	5
Oakhill Estates	4
Sinclair Manor	2
Crump Creek	3
Berry Point	3
TOTAL	21

A pet waste flier was developed discussing the impact of pet waste on the environment. The waste fliers are distributed in an annual mailing to licensed pet owners. Over 10,000 fliers were distributed with the mailing and will reach 100% of the target audience. A copy of the flier can be found in the MS4 Program Plan.

For the next reporting period, Hanover County expects to educate over 10,000 pet owners through the annual mailing, continue pet waste collection in parks, receive requests for new bag dispensers in neighborhoods, and reach 100% of the target audience.

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

The Pooch Pal Program increases individual and household knowledge by identifying pet waste as a pollutant and providing educational materials and resources to address the pollutant. Pet waste is a key source of pollutants in waters in Hanover County that are impaired for bacterial contamination. Encouraging the collection of these wastes and educating the public on the proper management of pet waste are effective measures to address this pollutant. Hanover County will continue to provide outreach to 100% of registered owners.

BMP 1.a.(3). – Commercial Site Inspections

Identify, at a minimum, three high-priority water quality issues that contribute to the discharge of stormwater;

(1) A list of the education and outreach activities conducted during the reporting period for each high-priority water quality issue, the estimated number of people reached, and an estimated percentage of the target audience or audiences that will be reached; and

(2) A list of the education and outreach activities that will be conducted during the next reporting period for each high-priority water quality issue, the estimated number of people that will be reached, and an estimated percentage of the target audience or audiences that will be reached.

Compliance with Permit Conditions

The County conducts random inspections of designated retail areas and notes any litter trash or stormwater issues to the management of the business located there.

Inspections are conducted at 45 separate commercial sites; 25 of which are stand-alone sites and 20 of which are shopping centers or strip stores. Sites are examined for areas with the potential to pollute stormwater runoff.

In FY2010 of the MS4 permit, Hanover developed a letter to be distributed to businesses when they are not properly managing their site. This letter is intended to educate businesses regarding County requirements for managing waste and the potential for these wastes to impact stormwater. A copy of the letter and site inspection list are included as attachments in the MS4 Program Plan. As a result of the MS4 program evaluation, during FY2012, checklists and inspection procedures were updated to address a wider array potential pollutant sources. A copy of the inspection checklist and procedures are included in the MS4 Program Plan.

During FY2016, all 45 commercial sites were visited at least twice. A total of 101 inspections were performed which reached 100% of the target audience. For the next reporting period Hanover County expects to visit all 45 commercial sites and reach 100% of the target audience.

A record of inspections performed in FY2016 can be found in Appendix D.

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

Hanover County has focused on commercial sites with a potential to pollute storm water as a targeted strategy to prevent stormwater pollution. The management of materials and wastes at these sites could provide an avenue for pollution to take place if wastes and other materials stored outdoors are not properly managed. These inspections are an effective targeted strategy to educate business owners. Hanover County continues to inspect commercial sites and follow-up with site owners that are not properly managing potential pollutants. Hanover County will continue to inspect 100% of commercial sites.

MINIMUM CONTROL MEASURE 2 - Public Involvement / Participation

Measurable Goal 2.a. – Promote availability of MS4 Program Plan

BMP 2.a.(1) – Place MS4 Program Plan on Hanover County Website

The environmental section of the Public Works website will be updated to specifically promote the MS4 Program Plan and provide a contact for obtaining the plan and information on the MS4 program. The MS4 program plan will be placed on the website within 30 days of submittal of the Annual Report.

Compliance with Permit Conditions

The Hanover MS4 Program Plan has been placed on the Public Works website and can be found at the following link: [http://www.hanovercounty.gov/Property/Municipal-Separate-Storm-Sewer-System-Permit-\(MS4\)/](http://www.hanovercounty.gov/Property/Municipal-Separate-Storm-Sewer-System-Permit-(MS4)/) Updates to the Program Plan will be made, at a minimum, once a year.

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

The Hanover County MS4 Program Plan has been placed on the Hanover County Website. This is an effective way to promote the availability of the MS4 Program Plan. Hanover County will continue to update the MS4 Program Plan yearly and place on the website.

Measurable Goal 2.b. – Provide Annual Report Upon Request

BMP 2.b.(1) – Place MS4 Annual Report on Hanover County Website

The environmental section of the Public Works website will be updated to specifically promote the MS4 Annual Report and provide a contact for obtaining the plan and information on the MS4 program. The MS4 program plan will be placed on the website within 30 days of submittal.

Compliance with Permit Conditions

The Hanover MS4 Annual Report has been placed on the Public Works website and can be found at the following link: [http://www.hanovercounty.gov/Property/Municipal-Separate-Storm-Sewer-System-Permit-\(MS4\)/](http://www.hanovercounty.gov/Property/Municipal-Separate-Storm-Sewer-System-Permit-(MS4)/)

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

The Hanover County MS4 Annual Report has been placed on the Hanover County Website. This is an effective way to promote the availability of the MS4 Annual Report. Hanover County will continue to update the MS4 Annual Report yearly and place on the website.

Measurable Goal 2.c. – Participate in Activities Aimed at Reducing Pollutant Loads

BMP 2.c.(1) – Identify local activities aimed at improving water quality

The operator shall participate, through promotion, sponsorship, or other involvement, in a minimum of four local activities annually (e.g., stream cleanups; hazardous waste cleanup days; and meetings with watershed associations, environmental advisory committees, and other

environmental organizations that operate within proximity to the operator's small MS4). The activities shall be aimed at increasing public participation to reduce stormwater pollutant loads; improve water quality; and support local restoration and cleanup projects, programs, groups, meetings, or other opportunities for public involvement.

Compliance with Permit Conditions

The County implements several programs which promote public participation and water quality improvement. These include holding Development Community Meetings, Assign-a-Highway program, household hazardous waste collection, street sweeping, and neighborhood recycling. The County also supports the Hanover Caroline Soil and Water Conservation District (HCSWCD) which provides educational activities for Hanover County citizens.

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

The County's and HCSWCD's involvement in these annual local activities are great opportunities to reach the community. The above programs provide a chance to both educate and provide services aimed at reducing pollutant loads and improving water quality. Hanover County will continue to support these local activities which increase public participation.

BMP 2.c.(2) – Watershed Education for Students

Watershed Education for Students - The County will continue to support the efforts of the Hanover/Caroline Soil and Water Conservation Service to provide a meaningful watershed experience for Hanover County Students.

Compliance with Permit Conditions

The County is a financial supporter of the Hanover Caroline Soil and Water Conservation District (HCSWCD). The money provided by the County is used to support the water quality programs that the HCSWCD administers. The budget for fiscal year 2016 was \$93,700. The budget for fiscal year 2017 is \$97,000 and was adopted by the Hanover County Board of Supervisors on April 13, 2016. Hanover County continues to support the Master Gardeners Program and any requests to participate in the seminars for these educators. HCSWCD, with the help of Master Gardeners and other volunteers offered the following educational opportunities to Hanover and Caroline County Citizens this year:

Meaningful Watershed Educational Experience (MWEE) April 19, 20, 21, 26, 27, 2016

The Chesapeake 2013 Agreement mandates that all students of Pennsylvania, Maryland, and Virginia receive a meaningful Bay or stream outdoor experience prior to graduation from high school. Hanover-Caroline SWCD has taken the initiative to offer a large portion of this Meaningful Watershed Educational Experience to the middle school students within its localities. The District worked with Department of Environmental Quality to develop a written curriculum and to offer field trips to all sixth grade students at Hanover and Caroline County public middle schools annually. This year MWEE was staged at Poor Farm Park in Hanover. The field trips included outdoor learning stations that focused on wetlands, water quality monitoring, macroinvertebrate identification, and riparian buffer assessment. Approximately 1,700 sixth grade students participated this year, with 75 individuals volunteering to lead or to assist at the stations and with logistics.

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

The watershed education for students increases individual and household knowledge of the impacts of developed land on stormwater and provides a direct association with the plants and animals that can be impacted by improper management of resources; 1,700 students were provided with this experience. Hanover County will continue to provide financial support to the HCSWCD.

BMP 2.c.(3) - Support of Master Gardeners program

Support of Master Gardeners Program - The County will continue to participate in seminars for the Master Gardeners program. The Master Gardeners are environmental educators who we have routinely included in our educational efforts related to our MS4 program. Master Gardeners are environmental stewards who, in turn, educate the public regarding water quality and other environmental issues

Compliance with Permit Conditions

Hanover County continues to support the Master Gardeners Program and any requests to participate in the seminars for these educators. HCSWCD, with the help of Master Gardeners and other volunteers offered the following educational opportunities to Hanover and Caroline County Citizens this year:

**Hanover-Caroline SWCD FY2016 Educational Events
July 1, 2015 – June 30, 2016**

Back to the Farm: Goats July 11, 2015

The District continued it's successful Back to the Farm series by mounting a workshop hosted at Little Meadow Farm on the care, feeding and maintenance of goats. Inclement weather reduced attendance to 15, though 65 persons registered for the event.

Youth Conservation Camp July 12-18, 2015

The District sponsored three (3) high school students to attend the state Youth Conservation Camp at Virginia Tech for a week in July: Jonathan Banton, Lee-Davis High School; Brandt Hicks, Patrick Henry High School; and Mitchell Turnage, Maggie L. Walker Governor's School.

The program is coordinated by the Virginia Association of Soil and Water Conservation Districts (VASWCD) and focuses on natural resource education that includes hands-on study of soils, forestry, wildlife, aquatics, and urban land use issues.

CIG Breakfast July 15, 2015

At a breakfast in Caroline County, the District hosted producers who had participated in the NRCS Conservation Innovation Grant (CIG) three-year Multi-Species Cover Crop (MSCC) program. The District debriefed producers and administered a survey to all producers as a final grant deliverable. Six farms were represented at the breakfast; 25 producers participated in the MSCC program.

The Courthouse Market June-August 2015

District created and updated a flier weekly to help promote the Wednesday farmers market adjacent to the Hanover County government complex.

50 Mile Meal July 22, 2015

The District partnered with Virginia Cooperative Extension (VCE) to provide a meal sourced with foods produced within a 50-mile radius of the Courthouse area. The Hanover County Board of Supervisors, in addition to Planning Commission members and heads of departments, dined and chatted with producers about agriculture in the county. District and VCE staff provided informational presentations.

VACDE Annual Employees Training August 25-26, 2015

The Virginia Association of Conservation District Employees hosted its annual statewide District training at Graves Mountain Lodge in Syria, Virginia. District staff assisted with the organization and coordination, and participated in the educational, technical, and administrative break-out sessions for 119 employees. A District staff member also served as Area III Representative of the VACDE throughout the year.

NACD Poster Contest August-September 2015

Staff assisted Girl Scouts with their entries for the NACD Poster Contest through local judging and subsequent submissions to VASWCD for the state and national level competitions.

State Fair of Virginia September-October 2015

District staffed the Virginia Association of Soil & Water Conservation Districts (VASWCD) educational booth at the State Fair of Virginia. The booth showcased a soil tunnel and a “good farm/bad farm” display to highlight agricultural BMPs and information on SWCD programs.

Riparian Planting at Meadow Event Park September 17, 2015

District staff assisted DCR-led riparian planting under the Stewardship Virginia program. Students from Patrick Henry High School AG and HORT classes as well as DoF personnel were part of the planting team.

State Fair of Virginia September-October 2015

District staff co-presented with Henricopolis SWCD on an exhibit to highlight the use of native plants as an urban conservation best management practice administered through the Virginia Conservation Assistance Program (VCAP). The two Districts are partnering on a 319 TMDL grant for the Chickahominy watershed. Approximately 500 citizens visited the exhibit in a seven-day period.

Conservation Landscaping Refurbishment October 16, 2015

District staff assisted environmental studies students at the Chesapeake Bay Governor’s School to weed and mulch the native plant beds.

Oyster Reef Ball Workshop October 22, 2015

Two staff members assisted in the construction of oyster reef balls which provide habitat for the oyster population in the Chesapeake Bay watershed. The event was sponsored by the York

Roundtable and Small Coastal Basins Roundtable, of which the District is a member, at the Virginia Institute of Marine Science.

Hanover Ag Days October 21-22, 2015

The District participated in Hanover Ag Days at Meadow Event Park. This event is organized by Colonial Farm Credit for all third grade students at Hanover public schools. The District educated approximately 650 third graders on soils using a runoff/erosion demonstration and a soil tunnel display.

Conservation Awards Banquet November 19, 2015

The District honored outstanding partners in conservation practices at a dinner held at the Doswell Ruritan meeting hall. Recipients included Stuart and Kathy Lane, Clean Water Farm Award; the Chesapeake Bay Governor's School, Urban Conservation Award; and the Collins family, VASWCD Forestry BMP Award.

The Collins Family also received the State BMP Forestry Award, given at the VASWCD Annual Meeting in December 2015.

Career Day K-5 Elementary November 2015

District manager staffed exhibit on soil and water conservation work for Career Day for 690 students.

VASWCD Annual Meeting/Training December 6-8, 2015

The District participated in and assisted with the annual state meeting and training for soil and water conservation districts held in Richmond. District staff served on the Planning Committee for this event, assisted in the organization and logistics at the meeting, including display booths and the educational foundation auction.

JED Training January 14, 2016

District conservation specialist presented a CIG Showcase on the District's cover crop program to 100 participants at the NRCS JED training at Virginia State University. The attendees included NRCS, VCE and SWCD personnel. Three District staff members attended.

Winter Producer Meetings February 9 & 11, 2016

Staff worked with FSA and Colonial Farm Credit on producers' meetings in Caroline and Hanover Counties highlighting the changes in the USDA Farm Bill. Attendees numbered 34 in Caroline and 37 in Hanover.

Eastern Virginia Forage Conference February 20, 2016

Two District staff presented to approximately 50 participants on forage, grazing management and conservation program opportunities. The conference was held at the Hanover County Government Complex.

Woods in Your Backyard March 12, 2016

District manager made a presentation on the VCAP Urban BMP program for approximately 50 people. The event was sponsored by the Chesapeake Conservancy at the VCU Rice Center.

MWEE workshop presentation March 18, 2016

District staff presented information to an area science teacher workshop on the creation of a Meaningful Watershed Educational Experience for students and also demonstrated how to run the water quality testing and wetlands stations. The workshop, held at Lewis Ginter Botanical Garden, was organized by Hanover County's lead science specialist.

Caroline Ag Days April 6-7, 2016

The District assisted with this event under the organization of Caroline County Cooperative Extension at the Caroline County Agricultural Fairgrounds. District staff ran the soil and water education station, using the soil tunnel and runoff boxes as demonstrations for 320 Caroline County fourth graders.

VCAP display for Environment VA April 2016

Staff reconfigured a 3-panel display on urban BMPs to prepare the VCAP Program Coordinator to staff a VCAP information booth at the Environment VA conference in Lexington April 5-7.

Forage and Grazing Field Day April 14, 2016

The District, in partnership with the Virginia Forage and Grassland Council, NRCS and VCE, hosted a forage and grazing field day with 140 persons in attendance at Swallow Hill Farm in Woodford, VA. Dr. Matt Poore, from North Carolina State University was the guest speaker.

Meaningful Watershed Educational Experience (MWEE) April 19, 20, 21, 26, 27, 2016

The Chesapeake 2013 Agreement mandates that all students of Pennsylvania, Maryland, and Virginia receive a meaningful Bay or stream outdoor experience prior to graduation from high school. Hanover-Caroline SWCD has taken the initiative to offer a large portion of this Meaningful Watershed Educational Experience to the middle school students within its localities. The District worked with Department of Environmental Quality to develop a written curriculum and to offer field trips to all sixth grade students at Hanover and Caroline County public middle schools annually. This year MWEE was staged at Poor Farm Park in Hanover. The field trips included outdoor learning stations that focused on wetlands, water quality monitoring, macroinvertebrate identification, and riparian buffer assessment. Approximately 1,700 sixth grade students participated this year, with 75 individuals volunteering to lead or to assist at the stations and with logistics.

Envirothon April 5 and May 16, 2016

Each year, Hanover-Caroline SWCD promotes and sponsors a yearly local competition open to all high schools in Hanover and Caroline County. Currently, the Chesapeake Bay Governor's School in Bowling Green fields the sole high school Envirothon team in the District. The Envirothon is a natural resources competition for high school students. Students who participate learn stewardship and management concepts and work to solve real and hypothetical environmental problems. The District provides trainings and educational materials to teachers for preparing for the competition. H-C SWCD staff assisted with the Area III Competition in April (approximately 70 students, teachers and SWCD staff members) at Germanna Community College and the State Competition in May (approximately 135 students, teachers and SWCD staff) at Eastern Mennonite University in Harrisonburg. The staff also participated in state Envirothon Advisory Committee Meetings.

Soil Education for Caroline Parks & Rec Day Campers June 16, 2016

Two District staff members partnered with Caroline Co. 4-H and Family & Consumer Sciences to present “Dirt Week” educational activities. Staff demonstrated to 30 campers the concepts of soil erosion, runoff and conservation with the runoff boxes, the soil tunnel and soil tube profiles.

Scholarships 2016

The District awarded two \$5,000 scholarships in FY16 to outstanding, college-bound seniors within the localities of Hanover and Caroline Counties that planned to enroll in natural resource conservation, agricultural or environmental disciplines. This year the recipients were Meredith Sutton of Lee-Davis High School and Madison Coleman of Caroline High School and the Chesapeake Bay Governor’s School.

Chickahominy TMDL 319 Grant activity

The District continues to perform work associated with the grant deliverables. They include: county land use assessment, creating an equine manure composting bin design and specifications, outreach to watershed residents through a post card mailing, water quality monitoring of Beaverdam Creek by Jonathan Banton in conjunction with Totopotomoy Treatment Plant and a DEQ QAPP.

CIG Multi-Species Cover Crop Program

In FY2015, the District wrapped up year three of a three-year multi-species cover crop (MSCC) project, funded through a Natural Resources Conservation Service CIG grant. The overall project encompassed four SWCDs, eight counties and 32 producers who planted fall and summer multi-species cover crops, some of which sowed six seasonal plantings, three in fall and three in summer. The initial 160 acre project influenced the planting of 1,920 acres of multi-species cover crops in fall 2012, and 47,750.5 acres over the three-year life of the project. The District’s cover crops seed mixes were purchased by producers from Lynchburg to Northern Virginia and east to Smithfield and Isle of Wight.

Overall, producers planted 164,827 pounds of seed for a net project value of \$173,391.35. Of this amount \$148,088.20 was producer purchases of extra seed. So every project dollar in seed leveraged \$5.85 in additional MSCC seed planted. One large information meeting was held as a part of the 2013 Vantage series. Two Multi Species Cover Crop and Soil Health Field Days and four presentations have been given about the project. District staff have interviewed partners and created four videos of their cover crop plantings.

Other associated deliverables included the Soil Conservation Society annual meeting presentation and demonstration, the National Association of Conservation Districts national meeting proposal and the State Fair of Virginia demonstrations.

Forage Testing

The District maintains four plots on four grazier farms, where we have installed exclusion panels to prevent livestock from grazing within the panel. The panels are harvested about every 35 days; one side is harvested at 1-inch clipping height and the other side is harvested at 3 to 4-inch clipping height and relative biomass is measured for each side. It is too early in the process for any trending to develop in the results.

Educational Tools and Equipment

In FY2016, the District made available various models and tools to teachers and citizens as part of educational outreach.

The **Enviroscape Watershed Model** is an educational tool designed to show runoff and pollution effects. Approximately 30 students and five adults were exposed to the watershed model at Washington- Henry Elementary School. Approximately 45 students and six adults at The Carmel School employed the Enviroscape for educational activity.

The **Soil Tunnel display** is a visual representation of the characteristics of soil above and below ground; approximately 950 students and teachers used the soil tunnel at Hanover Ag Days and Caroline Ag Days.

The **Runoff Box display** is a tool that shows the effects of erosion and the importance vegetation as a means to prevent erosion. Approximately 950 students and adults received the Runoff Box demonstration at Hanover Ag Days and Caroline Ag Days.

The **“Good Farm/Bad Farm” display**, set up at the State Fair of Virginia at the VASWCD exhibit, demonstrates the benefits of agricultural BMPs to the public.

To encourage wildlife habitat, the District sells **wildlife boxes and feeders** made by a local citizen. The District promotes no-till seeding techniques through rental of two **no-till drills**.

Urban VCAP Committee

Staff participated on the Urban Committee of the VASWCD and, through a pilot program, created and published the Virginia Conservation Assistance Program Implementation and Design Manual and conferred on program development and BMP implementation through a Chesapeake Bay Implementation Grant (CBIG). Hanover-Caroline SWCD proposed and was granted funds for a cistern. Other urban BMPs included turf conversion to natives, pet waste management and rain gardens. The committee will be commencing further, more widespread, implementation of urban BMPs through new grant monies coming through the EPA 319 grant and Chesapeake Bay Implementation Grant (CBIG) over the next three years.

VASWCD Education Committee

Two District staff members serve on the Virginia Association of Soil and Water Conservation Districts’ Education Committee. The VASWCD organizes training events and meetings for District directors and employees throughout Virginia.

Tributary Strategies Roundtables/TMDLs

District staff and directors sit on three Roundtables and attend planning meetings throughout the year: Middle James Roundtable, York River and Small Coastal Basins Roundtable, Rappahannock River Basin Commission. These groups offer educational outreach to the communities in their respective watersheds. Staff also served on TMDL workshops for the Chickahominy and Pamunkey Rivers, as well as the Ag Committee and Executive Committee.

Media Outreach

The District reaches its target audience in a variety of ways including its presence on the county website ([http://www.hanovercounty.gov/Boards-Committees/Hanover-Caroline-Soil-and-Water-Conservation- District/](http://www.hanovercounty.gov/Boards-Committees/Hanover-Caroline-Soil-and-Water-Conservation-District/)), a quarterly newsletter, a Facebook page and a District staff blogsite, pdfangus.com. The electronic newsletter, Runoff, reaches over 300 citizens and the contact list is growing.

Membership on local and regional committees and groups

District staff members and/or directors participated on the following committees or groups:

York River and Small Coastal Basins Roundtable Middle James Roundtable
Virginia Forage and Grassland Council, Board member VASWCD Education Committee
VACDE Executive Committee
Area III Envirothon Test Committee State Envirothon Advisory Committee Rappahannock River Basin Commission
Rappahannock River Basin Non-Point Source Work Group
George Washington Regional Commission-Native Plant Steering Committee State Engineering Committee
VASWCD Legislative Committee VASWCD Urban Committee VCAP Steering Committee
Virginia Cooperative Extension-Extension Master Gardeners Strategic Planning Committee PDR Managers Committee
VASWCD Annual Meeting Planning Committee
Member of the board of the VACDE (Area III representative)
Member of the Hanover Advisory Committee of the Capital Region Land Conservancy DCR – Your Backyard Classroom curriculum editorial assistance

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

The HCSWCD and the Master Gardener Program are both invaluable educational resources for the community. The above programs serve to increase individual and household knowledge by exposing participants to the topics outlined above. Over 5,900 individuals were exposed to educational resources to protect and conserve the environment as a result of the above programs. Hanover County will continue to support the HCSWCD and Master Gardener Program to provide local educational and outreach activities.

BMP 2.c.(4) - Development Community Meeting

Development Community Meeting – Hanover County sponsors a regular development community meeting. Topics to discuss will include initiatives regarding stormwater, erosion and sediment control, Chesapeake Bay preservation and associated water quality issues.

Compliance with Permit Conditions

This Year, the County conducted development community meetings on October 16, 2015 and April 8, 2016. Topics included updates on legislation, stormwater regulations, VSMP construction permits, and nutrient offsets among other topics. A copy of the agenda for each meeting has been provided as an attachment and can be found in Appendix E.

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

Providing environmental resources at meetings with the development community ensures that businesses engaged in construction and design activities are aware of the latest information concerning environmental matters including Hanover's MS4 permit, erosion and sediment control, TMDL information, Chesapeake Bay preservation, and stormwater management. Providing these meetings serves to increase knowledge applicable environmental requirements and program performance to public employees, and development and engineering businesses engaged in construction activities. Hanover County will continue to host outreach meetings for the development community.

BMP 2.c.(5) – Assign-A-Highway

The County is currently working with several groups on the Assign-A-Highway Program:

*Pamunkey Regional Jail Crew
Hanover County Community Corrections
Hanover County Juvenile Court Services*

Individuals are assigned to pick up litter on multiple highway segments in the County to reduce litter and the floatable wastes entering stormwater infrastructure.

Compliance with Permit Conditions

The County is currently working with the several groups to reduce roadway litter and floatable wastes entering stormwater infrastructure:

Pamunkey Regional Jail – Female Inmate Work Program

Pamunkey Regional Jail staff members are responsible to properly screen female inmate workers for roadway litter removal. Public Works provides the approved inmate workers with transportation, safety equipment, training on equipment use, access to drinking water and the use of toilet facilities. Public Works staff employees provide direct supervision of inmate workers. The intent of this program is to remove roadway litter from areas accessible from the roadway shoulder. Litter is collected in trash bags and left roadside for pick-up and proper disposal by VDOT. Litter removal totals are recorded after each day of work. Primary routes for roadway litter removal are Rt. 301, Rt. 360, Rt. 54, Beaverdam Road, Lewistown Road, New Ashcake Road, Pole Green Road and Verdi Lane. Hot spots for roadway litter removal are identified throughout the County and the litter is targeted for removal. During Year 3, this program removed 180,330 pounds of litter from County roadways.

Hanover County Community Corrections, Pretrial Services, and Juvenile Court Services

Community Corrections and Pretrial Services staff members screen probationers for community service and provide information to contact appropriate staff at Public Works. Probationers are assigned to work in one of the six Convenience Centers for their designated number of community service hours. Probationers sign in at the designated Convenience Center and work as needed inside the facility and on adjacent roads collecting litter. Juveniles will participate in the program a couple times throughout the year. During Year 3, 399 hours of service was provided towards removing litter from County roadways.

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

The County's litter programs effectively remove trash from the highways and are effective minimizing illicit discharge to the MS4. Hanover County will continue to support the Assign-a-Highway Program.

BMP 2.c.(6) – Household Hazardous Waste Collection

Used motor oil, used residential oil filters, used anti-freeze and automobile batteries are accepted at all convenience centers in Hanover County during normal operating hours. Special household hazardous waste is collected at a dedicated event 1 time per year.

Compliance with Permit Conditions

As part of Earth Day on April 30, 2016, Hanover County sponsored a Household Hazardous Waste Collection day at the Solid Waste Convenience Center located in Mechanicsville. The event included document shredding, e-waste collection, household hazardous waste collection, and prescription and over the counter drug collection. A special recycling event which included document shredding and e-waste collection was hosted at the Mechanicsville Solid Waste Convenience Center on November 14, 2015.

E-wastes include:

Computer systems, computer accessories, printers, scanners, and copiers, telephones and cell phones, fax machines, VCRs and camcorders, stereos, microwaves, fluorescent light bulbs, other appliances, televisions and computer monitors.

Household hazardous wastes include:

Liquids aerosols and solids including flammables, organics, mercury switches and thermometers, oxidizers, pesticides and herbicides, corrosives, over the counter non-controlled drugs.

At the County's six convenience centers, the County routinely accepts paint, oil, antifreeze, oil filters, and car batteries. At the transfer station the County routinely accepts e-waste. Category 1 and 2 special wastes are also collected as listed below:

- Category 1 - Oil based paints, varnishes, shellac, stains and tints, lacquer thinners, polyurethane, primers, paint reducers, varsol, mineral spirits, turpentine, flammable solvents, oil additives, gasoline, gasoline additives, cooking oil
- Category 2 - Used motor oil, automatic transmission fluid, power steering fluid, gear oil, hydraulic oil, diesel fuel, kerosene (#2, 4, 6), brake fluid.

The Central Virginia Waste Management Authority (CVWMA) promotes waste management and recycling activities of member jurisdictions. Information on Hanover County hazardous waste management, special waste management and recycling programs are provided on the CVWMA website. Hanover's recycling program was featured on the local news on May 19, 2010. This local news coverage has been placed on YouTube and is available through a CVWMA YouTube link. (see <http://www.youtube.com/watch?v=yWSbrEH3KLY>) Press releases for the County waste management activities and earth day activities can be found in Appendix F.

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

Education of the public regarding the proper disposal of waste materials is an appropriate way to promote the proper disposal of waste and encourage recycling. These services are available in Hanover and are discussed on the county website and through the Central Virginia Waste Management Authority. Hanover County will continue to host an annual hazardous waste collection day for the public.

BMP 2.c.(7) – Street Sweeping Program

Sweep roads within the MS4 area 2 weeks per year. Street sweeping will reduce pollutants discharged to the MS4.

Compliance with Permit Conditions

The Department of Public Works continued the street sweeping program to improve the appearance of Hanover County's roadways and to reduce the pollutants in runoff. Roads in Hanover County are under the control of the Virginia the Department of Transportation. Hanover County, with the cooperation of VDOT, has initiated a program to clean local roadways. Public Works used a rented street sweeping machine and operated on major thoroughfares in the County including Bell Creek, Pole Green, Meadowbridge, Atlee, Shady Grove, Lakeridge Parkway, part of US 1 to Sliding Hill, parts of Mechanicsville Turnpike and other roadways. A total of 137 tons of potential pollutants were removed from Hanover's public roads this year. Sweeping was conducted in April 2016. All materials from street sweeping are properly disposed in a sanitary landfill.

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

The street sweeping program is an effective practice to improve the appearance and remove pollutants from County roadways. Debris runoff from roadways can potentially damage stormsewer infrastructure and pollute downstream surface waters. Hanover County will continue to facilitate the Street Sweeping Program.

BMP 2.c.(8) – Grass Roots Neighborhood Recycling

In response to citizen input, Hanover has created special service districts that communities may participate in at their own option to increase recycling in individual subdivisions. At each community meeting the options available under the program are presented. In addition, information is presented on composting and other programs that encourage environmental responsibility.

Compliance with Permit Conditions

Currently 20 subdivisions in Hanover have elected to participate in neighborhood recycling. A total of 3,502 homes are currently enrolled in this program. County procedures to apply for participation in the recycling program can be found as an attachment in Appendix G of the FY2013 Annual Report.

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

Hanover's grass roots recycling approach identifies neighborhoods that are interested in pursuing recycling as a community/neighborhood rather than Hanover's traditional approach of recycling at convenience centers. When community meetings are held in support of Grass Roots

Neighborhood Recycling, Hanover County makes other information available related to recycling, composting, the MS4 program, stormwater pollution, and other environmentally based activities. Hanover County will continue to support neighborhood recycling for any interested communities.

MINIMUM CONTROL MEASURE 3 - Illicit Discharge Detection and Elimination

Measurable Goal 3.a – Illicit Discharge Procedures

The County has developed and implemented written procedures to detect, identify, and address unauthorized non-stormwater discharges to the MS4.

BMP 3.a.(1) – Outfall Screening

Hanover County will screen all regulated outfalls during the term of the MS4 permit. Focus will be placed on watersheds with impaired stream segments. Watersheds where waste load allocations have been established will receive greatest focus.

Compliance with Permit Conditions

The County currently has 946 outfalls in the MS4 area. All outfalls to be inspected have been divided for the five year permit cycle. The focus of Year 1 outfall inspections was older subdivisions, many of which are on septic systems. During Year 3 of the MS4 permit, 159 outfalls were inspected. Please find the dry weather screening procedures in the MS4 Program Plan. A summary of the screening results, including any follow-up actions, are included as an attachment in Appendix G.

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

Outfall screening/dry weather monitoring is an appropriate mechanism to detect illicit discharges to the storm sewer system. Hanover County will continue progress toward inspecting all outfalls within the permit cycle.

BMP 3.a.(2) – Tracking and Reporting

Illicit discharge tracking – report annually any illicit discharges.

Compliance with Permit Conditions

Hanover has developed procedures and spreadsheet to track illicit discharges. There were several documented instances of potential illicit discharge identified during Year 3 of the MS4 permit term. A copy of the illicit discharge tracking and response procedures are provided in the MS4 Program Plan. A copy of the tracking spreadsheet is available in Appendix H.

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

Illicit discharge response in Year 3 remains a well-coordinated effort. All procedures appear to be working appropriately. No modifications to the illicit discharge tracking and response procedures appear necessary. The BMP is effective. Hanover County will continue to respond to and resolve reported illicit discharges.

Measurable Goal 3.b. – Storm Sewer System Mapping

BMP 3.b.(1) – Map outfalls

Maps will be prepared of all known regulated outfalls, the associated HUCs and the names and locations of impaired surface waters receiving discharges for the outfalls. The acreage discharging to each HUC and impaired water will be noted.

Compliance with Permit Conditions

Generalized mapping of all areas of the MS4 discharging directly to impaired waters have been prepared and are included in Appendix G. The summary provided in Appendix G includes the acreage discharging to each HUC and impaired water. The County has completed a procedure to add new outfalls to the stormwater outfall database

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

Outfalls have been mapped as required by the regulations. Mapping of the Hanover County storm sewer system is currently under way. Mapping outfalls is an appropriate way to begin storm sewer system mapping and is required by the current regulations. Hanover County will continue progress toward developing and maintaining a MS4 outfall map.

Measurable Goal 3.c. – Downstream MS4 Notification

BMP 3.c.(1) – List of Written Notifications

A list of any written notifications of physical interconnection given by the operator to other MS4s;

Compliance with Permit Conditions

Notifications have been sent to the Town of Ashland and the Virginia Department of Transportation (VDOT) identifying the potential for interconnections. Copies of these documents can be found in Appendix G.

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

Notification of the Town of Ashland and VDOT is appropriate to address the requirement for downstream MS4 notification. Hanover County will continue to maintain a working relationship with the Town of Ashland and VDOT and active interconnection notifications.

MINIMUM CONTROL MEASURE 4 - Construction Site Stormwater Runoff Control

Measurable Goal 4.a. – Implement Program to Address Construction Site Run-off

BMP 4.a.(1) – Implement Erosion and Sediment Control Program Consistent with State Regulations

Hanover County will develop, implement, and enforce a program of plan review, site inspection and enforcement consistent with Sediment and Erosion Control regulations (9 VAC 25-840) and Hanover County Sediment and Erosion Control Ordinance. Update as needed for consistency with state regulations.

Compliance with Permit Conditions

Hanover County's erosion and sediment control program is currently deemed to be consistent with state requirements for a locally administered program. See letters of consistency Appendix L. A Stormwater Management Progressive Compliance and Enforcement Plan was developed in accordance with 9VAC25-890-40 Sec. II(B)4 and is available in the MS4 Program Plan.

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

Hanover has implemented a program to address construction site runoff that is consistent with all applicable state requirements. Hanover County will continue to implement an Erosion and Sediment Control program consistent with state regulations.

Measurable Goal 4.b. – Personnel Certification for Erosion and Sediment Control

BMP 4.b.(1) – Plan reviewer, inspector, and administrator certification

Plan reviewers, inspectors and program administrators will maintain certifications in Sediment and Erosion Control.

Compliance with Permit Conditions

Plan reviewers, inspectors and appropriate managers in the Department of Public Works maintain E&S certifications. In addition, appropriate managers and inspectors in the Building Inspections Department maintain E&S certification. A list of certified employees in Hanover County can be found as an attachment in Appendix I.

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

Providing a list of personnel certified for sediment and erosion control ensures employees are up to date with required certifications. Hanover County will continue to ensure the necessary employees are current with the required certifications.

Measurable Goal 4.c. – Land Disturbing Activity Tracking

BMP 4.c.(1) – Land disturbance tracked in Annual Report

The operator shall track regulated land-disturbing activities and submit the following information in accordance with Section II B 4 f:

- (1) Total number of regulated land-disturbing activities;*
- (2) Total number of acres disturbed;*

- (3) *Total number of inspections conducted; and*
(4) *Summary of enforcement actions taken, including the total number and type of enforcement actions taken during the reporting period.*

Compliance with Permit Conditions

Hanover County tracks regulated land disturbing activities and the associated acreage. A report is available upon request to the Department of Environmental Quality documenting new regulated land disturbance activities in Hanover County. Hanover County performed 2,086 erosion and sediment control inspections for 47 regulated land-disturbing activities in FY2016. A total of 234 acres were disturbed. Each of these inspections includes elements of construction site stormwater runoff. A copy of this report can be found in Appendix J. The following list shows a total of 18 enforcement actions for FY2016, separated by type:

Illegal land disturbance activities, civil fines and court cases:

John & Victoria Eyler - still in progress, been to court two times and civil penalties have been issued.

Chesapeake Bay Violations:

None

Notice to Comply:

Covenant Woods - E&S

Honey Meadows Section 5 - E&S

Hanover Court Building -E&S

Providence Subdivision Section 2 - E&S

Providence Subdivision Section 3 - E&S

Dollar General -Montpelier - E&S

Gardenbrook - E&S

Winding Brook Indoor Shooting Range - E&S

Stop Work Orders:

Strawhorn Sewer Line - E&S issues, working outside of limits of disturbance as approved on plans

Cherry Grove Subdivision Section 1 - E&S

Garrison Manor Subdivision - E&S

Gardenbrook - E&S

Revoked Bonds Erosion and Sediment Control:

Glebe Hill - E&S issues and cleanup of Stormwater Ponds

SWPPP Violation Fines:

Craftmaster Homes - 2 single family home lots, E&S issues and SWPPP violations; \$600.00

HHHunt Homes - 3 single family home lots, E&S issues and SWPPP violations; \$900.00

Ryan Homes - 5 single family home lots, E&S issues and SWPPP violations; \$1,500.00

Stylecraft Homes - 8 single family home lots, E&S issues and SWPPP violations; \$3,100.00

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

A report describing permitted land disturbing activities is available to DEQ upon request. The report is effective in addressing the measurable goal. Hanover County will continue to annually track land disturbing activities.

MINIMUM CONTROL MEASURE 5 - Post-construction Stormwater Management in New Development and Development on Prior Developed Lands

Measureable Goal 5.a – Stormwater Managed Consistent with Regulations

BMP 5.a.(1) – Stormwater program consistent with state regulations

Hanover County will develop, implement, and enforce a program consistent with State regulations.

Compliance with Permit Conditions

Hanover County implements and enforces a stormwater program consistent with state regulations. The County ensures stormwater management facilities are designed and installed in accordance with the appropriate water quality and water quantity design criteria (9VAC25-870), state and local design criteria, and any department approved annual standards and specifications. A copy of the VSMP approval letter can be found in Appendix L.

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

Hanover County's VSMP has been approved and is in compliance with state regulations. Controlling the quality and quantity of stormwater discharged to surface waters to required levels protects the environment. Hanover County will continue to implement a Stormwater Management program consistent with state regulations.

BMP 5.a.(2) – Address post-construction stormwater runoff

Hanover County requires construction site owners and operators in the urbanized area to obtain authorization to discharge stormwater from construction activities under a VSMP permit for new development and redevelopment projects that result in a land disturbance of greater than or equal to one acre or equal to or greater than 2,500 square feet in all areas of the jurisdictions designated as subject to the Chesapeake Bay Preservation Area Designation and Management Regulation.

Compliance with Permit Conditions

Hanover County requires all facility owners to obtain registration under a VSMP construction permit from the State, after approving any plan that requires a VSMP permit and prior to issuing a land disturbance permit.

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

Obtaining registration for a VSMP construction permit prior to issuance of a land disturbance permit is an appropriate way to ensure that stormwater at construction sites is managed consistent with State regulations. Hanover County will continue to ensure that any project requiring a VSMP permit obtains coverage after plan approval and prior to land disturbance permit issuance.

Measurable Goal 5.b – Long-term Operation and Maintenance of Stormwater Management Facilities

BMP 5.b.(1) – Privately-Owned Stormwater Management Facilities

For privately-owned stormwater management facilities (including individual residential lots), Hanover County ensures long term care and maintenance through the use of a maintenance agreement, or with the combination of a drainage easement and a maintenance agreement. In concurrence with the maintenance agreement is an inspection schedule (at least once every 5 years) and enforcement strategy.

Compliance with Permit Conditions

Hanover County requires maintenance agreements for all new private stormwater facilities. Maintenance agreements require that periodic inspections be completed in order to determine if privately managed facilities are being properly maintained. Hanover County worked with the Hanover Business Center Chamber of Commerce to update the maintenance agreement to clarify the mutual understanding of requirements consistent with state requirements.

Hanover County requires adequate long-term operation and maintenance by the owner of structural stormwater management facilities through requiring the owner to develop a recorded inspection schedule and maintenance. Hanover County provides for enforcement of maintenance responsibilities. Relevant documents found in the MS4 Program Plan include:

- Hanover County Stormwater Basin Inspection and Maintenance Requirements
- Private BMP Inspection Program Procedures
- Private Stormwater Facility Inspection Form for Owners
- Individual Residential Lot Special Criteria for Long-term Maintenance
- Hanover County BMP Maintenance Agreement

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

Maintaining records of inspection and maintenance are effective ways to ensure the proper operation and maintenance of stormwater facilities. Hanover County will continue to ensure long-term operation and maintenance of privately-owned facilities.

BMP 5.b.(2) – Operator-Owned Stormwater Management Facilities

Hanover County provides adequate long-term operation and maintenance services for operator-owned stormwater management facilities. The County maintains procedures for inspection, compliance, and enforcement.

Compliance with Permit Conditions

Publicly owned and operated stormwater facilities are inspected by the Hanover County Department of Public Works (DPW). Inspections for publicly operated Regional Stormwater Management basins will be performed semi-annually. Inspections for other publicly owned stormwater basins that serve a specific County owned property will be performed annually. A copy of relevant documents can be found in the MS4 Program Plan.

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

Maintaining records of inspection and maintenance are effective ways to ensure the proper operation and maintenance of stormwater facilities. Hanover County will continue to ensure long-term operation and maintenance of operator-owned facilities.

BMP 5.b.(3) – Facility tracking

Hanover County will track all known permanent stormwater management facilities that discharge to the regulated small MS4 and submit the required information.

Compliance with Permit Conditions

The County maintains files for all public and private stormwater basins. Files for public facilities include inspection and maintenance records. Files for private facilities include the results of any County inspections, results from any private contractor inspections, and any certifications submitted on behalf of the facility owner/operator.

The tracking information for all stormwater management facilities brought online during this reporting year that discharge to the regulated small MS4 is provided as an attachment to this Annual Report. During FY2016, 73 inspections of operator-owned facilities and 21 inspections of privately-owned facilities were completed. A total of 11 enforcement actions were taken to ensure long-term maintenance.

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

Maintaining records of inspection and maintenance are effective ways to ensure the proper operation and maintenance of stormwater facilities. Hanover County will continue to track all known permanent stormwater management facilities.

MINIMUM CONTROL MEASURE 6 - Pollution Prevention/Good Housekeeping for Municipal Operations

Measureable Goal 6.a – Pollution Prevention Strategies

Hanover County will implement daily operational procedures, identify all municipal high-priority facilities, identify all applicable lands where nutrients are applied to a contiguous area of more than one acre, and conduct biennial training for employees.

BMP 6.a.(1) – Daily Good Housekeeping Procedures

The County has developed written procedures for pollution prevention and good housekeeping of municipal facilities. Guidance is designed to minimize or prevent pollutant discharges to the stormsewer system from activities such as parking lot maintenance, equipment maintenance, pesticide, herbicide, and fertilizers application.

Compliance with Permit Conditions

The County has developed guidance which will be implemented in accordance with the Table 1 schedule. Applicable municipal facilities responsible for managing wastes include storage yards, fleet or maintenance shops, outdoor storage areas, rest areas, waste transfer stations. Policy documents are available to these facilities. Available pollution prevention documents discuss the proper disposal and storage of waste materials, spill clean-up, vehicle washing, and pesticide, herbicide, and fertilizers application. These documents are available in the MS4 Program Plan.

The Hanover County Department of Public Works received a Certificate of Appreciation in support of EPA's 2015 Virginia MS4 Forum for demonstration of good housekeeping procedures at the Mechanicsville Solid Waste Convenience Center high-priority facility. A copy of the certificate can be found in Appendix M.

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

Daily good housekeeping of municipal facilities is essential to preventing pollutant discharges into the stormsewer system and downstream surface waters. County employees at municipal facilities are aware of the proper handling of hazardous materials that have the potential to pollute if mishandled. Hanover County will continue maintaining its good housekeeping procedures and progress towards implementation.

BMP 6.a.(2) – Identification of Locations Requiring SWPPPs

The County has identified high-priority facilities within the MS4 permit area which have a high potential of discharging pollutants. The County will develop and implement site specific stormwater pollution prevention plans (SWPPP).

Compliance with Permit Conditions

The County has identified one high-priority facility within the MS4 permit area which is the Mechanicsville Solid Waste Convenience Center. Copies of materials used to identify high-priority facilities can be found in the County's MS4 Program Plan. The County will develop and implement a SWPPP specific to this site by July 1, 2017 and reported in the FY2017 Annual Report (48 months after permit coverage).

The Hanover County Department of Public Works received a Certificate of Appreciation in support of EPA's 2015 Virginia MS4 Forum for leading a site visit at the Mechanicsville Solid Waste Convenience Center. A copy of the certificate can be found in Appendix M.

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

The development and implementation of this site specific SWPPP is important in preventing pollutant discharges from this high-priority facility. Hanover County will continue progress towards development and implementation of a SWPPP for high-priority facilities.

BMP 6.a.(3) – Nutrient Management Plan Locations

The County has identified all applicable lands where nutrients are applied to a contiguous area of more than one acre. The County will develop and implement a NMP prepared by a Certified Turf and Landscape Nutrient Management Planner in accordance with § 10.1-104.2 of the Code of Virginia for all lands owned or operated by the MS4 operator where nutrients are applied to a contiguous area greater than one acre.

Compliance with Permit Conditions

The County has identified all applicable lands where nutrients are applied to a contiguous area of more than one acre within the 2000 urbanized area:

- Lee-Davis High School; 6.3 acres
- Stonewall Jackson Middle School; 3.3 acres

The implementation schedule requires 15% of identified acres to be covered by a NMP within 24 months, 40% within 36 months, 75% within 48 months, and 100% within 60 months. A NMP was prepared for Hanover County Schools by a Certified Turf and Landscape Nutrient Management Planner and is being used to manage nutrients within and outside of the MS4 area. The Nutrient Management Plan is effective until August 25, 2019 and will be renewed accordingly.

Hanover County Schools and the Department of Public Works work in conjunction as outlined in the Memorandum of Understanding (MOU). The total acreage of fertilizer applied by Hanover County is reported annually to the Department of Agriculture. A copy of these documents can be found in Appendix N.

The total acreage of lands where turf and landscape NMPs are required is 9.6 acres. The acreage of lands upon which turf and landscape NMPs have been implemented is 9.6 acres. A copy of material summarizing NMP locations can be found in the County's MS4 Program Plan

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

The development and implementation of a NMP ensures fertilizer is being applied by a Certified Fertilizer Applicator under the guidance of a NMP prepared by a Certified Turf and Landscape Nutrient Management Planner. Hanover County will continue progress towards development and implementation of a NMP for all applicable lands where nutrients are applied to a contiguous area of more than one acre.

BMP 6.a.(4) – Training Schedule and Program

The County will perform an educational program for employees, including employees of maintenance shops, parks, and recreation grounds maintenance, with the goal of preventing or reducing pollutant runoff from municipal operations.

Compliance with Permit Conditions

The County conducted employee education during Year 3 of the MS4 permit on November 6, 2015 and 13 County employees and department heads attended. The training consisted of a half-day seminar which included presentations, and videos specific to the MS4 program, stormwater pollution prevention, spill prevention control and countermeasures, and pollution prevention opportunities in County operations. County departments attending the training included personnel from Parks and Recreation, Fleet Management, Facilities Management, Public Works, Fire and Emergency Services, Communications, and Public Utilities. A copy of the sign-in sheet for the training can be found in Appendix K. Copies of materials to increase awareness are available to all County employees and can be found in the County’s MS4 Program Plan Appendices.

Appropriateness and Effectiveness of BMP / Progress Towards Achieving Measurable Goal

Providing training, refocusing, and reminders of applicable requirements are effective ways to focus employee attention on the stormwater program. Hanover County will continue to provide biennial employee training.

Results of information collected and analyzed, including monitoring data, if any, during the reporting period;

The County currently has 946 outfalls in the MS4 area. All outfalls to be inspected have been divided for the five year permit cycle. The focus of Year 1 outfall inspections was older subdivisions, many of which are on septic systems. During Year 3 of the MS4 permit 159 outfalls were inspected. No water quality samples were collected as part of dry weather screening. A summary of the screening results, including any follow-up actions, have been included as an attachment in Appendix G.

A summary of the stormwater activities the operator plans to undertake during the next reporting cycle;

The County will undertake the activities outlined under the new regulations Table 1 of 9VAC 25-890-40 and identified to be completed within 36 months of permit coverage including:

- Outfall Map Completed – Applicable to new boundaries identified as “urbanized” areas in the 2010 Decennial Census
- SWPPP Implementation

A change in any identified best management practices or measurable goals for any of the minimum control measures including steps to be taken to address any deficiencies;

The following changes were made to the County's best management practices:

A summary of information outlining compliance with the schedule for the preparation of the plans outlined in Table 1 can be found on Page 3. The required plans themselves can be found in Appendix A. In addition, a summary of the required submissions for each Minimum Control Measure can be found in the following sections:

- Chickahominy Bacterial TMDL Action Plan, refer to page 3 (submitted as separate document)

Notice that the operator is relying on another government entity to satisfy some of the permit obligations (if applicable);

The County has a current Memorandum of Understanding with Hanover Caroline Soil and Water to conduct public participation efforts outlined in the County's MS4 registration statement including the following BMPs:

BMP 2.c.(2) - Watershed education for students

BMP 2.c.(3) - Support of Master Gardeners program

A copy of the memorandum can be found in Appendix N.

In an effort to improve implementation of the MS4 program, the County and the Hanover County School Board signed a Memorandum of Understanding. A copy of the memorandum can be found in Appendix N.

The approval status of any programs pursuant to Section II C (if appropriate), or the progress towards achieving full approval of these programs;

(Alternative programs to implement 6 minimum control measures. Program approval status and third party implementation ...Not applicable)

Existing Program Requirements 9VAC 25-890-40 Section II C

C. If an existing program requires the implementation of one or more of the minimum control measures of Section II B, the operator, with the approval of the board, may follow that program's requirements rather than the requirements of Section II B. A program that may be considered includes, but is not limited to, a local, state or tribal program that imposes, at a minimum, the relevant requirements of Section II B.

The operator's MS4 Program Plan shall identify and fully describe any program that will be used to satisfy one or more of the minimum control measures of Section II B.

If the program the operator is using requires the approval of a third party, the program must be fully approved by the third party, or the operator must be working towards getting full approval. Documentation of the program's approval status, or the progress towards achieving full approval, must be included in the annual report required by Section II E 3.

Compliance with Permit Conditions

There is no existing program with minimum control measures that are different from the regulation.

Information required for any applicable TMDL special condition contained in Section I.

B. Special conditions for approved total maximum daily loads (TMDL) other than the Chesapeake Bay TMDL. An approved TMDL may allocate an applicable wasteload to a small MS4 that identifies a pollutant or pollutants for which additional stormwater controls are necessary for the surface waters to meet water quality standards. The MS4 operator shall address the pollutants in accordance with this special condition where the MS4 has been allocated a wasteload in an approved TMDL.

Compliance with Permit Conditions

The Chickahominy Bacterial TMDL was approved on March 25, 2013. According to the MS4 permit regulations a TMDL action plan will be developed within 36 months of permit coverage or by July 1, 2016.

C. Special condition for the Chesapeake Bay TMDL. The Commonwealth in its Phase I and Phase II Chesapeake Bay TMDL Watershed Implementation Plans (WIP) committed to a phased approach for MS4s, affording MS4 operators up to three full five-year permit cycles to implement necessary reductions. This permit is consistent with the Chesapeake Bay TMDL and the Virginia Phase I and II WIPs to meet the Level 2 (L2) scoping run for existing developed lands as it represents an implementation of 5.0% of L2 as specified in the 2010 Phase I WIP. Conditions of future permits will be consistent with the TMDL or WIP conditions in place at the time of permit issuance.

Compliance with Permit Conditions

According to the MS4 permit regulations the Chesapeake Bay TMDL Action Plan will be developed within 24 months of permit coverage or by July 1, 2015.

APPENDICES

- Appendix A - MS4 Program Plan Updates
- Appendix B - VSMP 2000 & 2010 Urbanized Census Area Maps
- Appendix C - Chesapeake Bay TMDL Announcements
- Appendix D - Commercial Site Inspections
- Appendix E - Development Community Meeting Agenda
- Appendix F - Recycling and Earth Day Announcements
- Appendix G - Outfall Information
- Appendix H - Illicit Discharge Spreadsheet
- Appendix I - E&S Certifications
- Appendix J - Permitted Land Disturbance Report
- Appendix K - Employee Training Attendance
- Appendix L - Program Approvals
- Appendix M - EPA Certificate of Appreciation
- Appendix N - Memorandum of Understanding (MOU)

Appendix A - MS4 Program Plan Updates
See Attached Chickahominy Bacterial TMDL Action Plan



**HANOVER COUNTY
BOARD OF SUPERVISORS
AGENDA**

Hanover County Administration Building
Board Room

August 24, 2016

BOARD OF SUPERVISORS
Aubrey M. Stanley
 Chairman
 Beaverdam Magisterial District
Angela Kelly-Wiecek
 Vice Chairman
 Chickahominy Magisterial District
Faye O. Prichard
 Ashland Magisterial District
Scott A. Wyatt
 Cold Harbor Magisterial District
Sean M. Davis
 Henry Magisterial District
W. Canova Peterson
 Mechanicsville Magisterial District
Wayne T. Hazzard
 South Anna Magisterial District

- 3:00 p.m. I. Call to Order
 - A. Invocation
 - B. Pledge of Allegiance
- II. Consideration of Amendments to the Agenda
- III. Citizens' Time
- IV. Consent Agenda
- 3:15 p.m. V. Award Presentation - Click It or Ticket Campaign - Highest Seatbelt Use - Hanover Sheriff's Office - Mr. John Messina and Ms. Kimberly Burt, Virginia Department of Motor Vehicles
- 3:30 p.m. VI. Presentation - Dominion Power Update – Mr. James Beazley, Manager, Regional State and Local Affairs
- 3:45 p.m. VII. Presentation - Overview of Recent Activities – Capital Region Airport Commission – Mr. Troy M. Bell, Director – Marketing & Air Service Development
- 4:00 p.m. VIII. Update on Total Maximum Daily Load (TMDL) Action Plans and Authorization to Advertise Public Hearing on the Chickahominy River TMDL Action Plan - Mr. Mike Flagg, Director, Department of Public Works
- 4:30 p.m. IX. Presentation - Fiscal Year 2016 Preliminary Year-End Financial Report - Mr. Jacob Sumner, Accounting Division Director
- 4:45 p.m. X. Appointment - Hanover County School Board Member - Ms. Faye O. Prichard
Magisterial District: Ashland



**HANOVER COUNTY
BOARD OF SUPERVISORS
AGENDA**

Hanover County Administration Building
Board Room

September 28, 2016

BOARD OF SUPERVISORS
Aubrey M. Stanley
 Chairman
 Beaverdam Magisterial District
Angela Kelly-Wiecek
 Vice Chairman
 Chickahominy Magisterial District
Faye O. Prichard
 Ashland Magisterial District
Scott A. Wyatt
 Cold Harbor Magisterial District
Sean M. Davis
 Henry Magisterial District
W. Canova Peterson
 Mechanicsville Magisterial District
Wayne T. Hazzard
 South Anna Magisterial District

6:00 p.m. I. Call to Order

A. Invocation

B. Pledge of Allegiance

II. Consideration of Amendments to the Agenda

III. Citizens' Time

IV. Consent Agenda

6:15 p.m. V. Presentation - Virginia Association of Counties (VACo) Achievement Award - Planning Department - Ms. Phyllis Errico, Esq. CAE, VACo

ITEM V.

6:30 p.m. VI. Presentation - Adult Drug Treatment Court Pilot Program - The Honorable J. Overton Harris, Hanover Circuit Court

ITEM VI.

PUBLIC HEARINGS

7:00 p.m. VII. Public Hearing on and Adoption of Resolution Authorizing the Issuance of General Obligation Bonds to the Virginia Public School Authority in a Principal Amount Not To Exceed \$10,700,000 - Ms. Kathy Seay, Director, Finance and Management Services

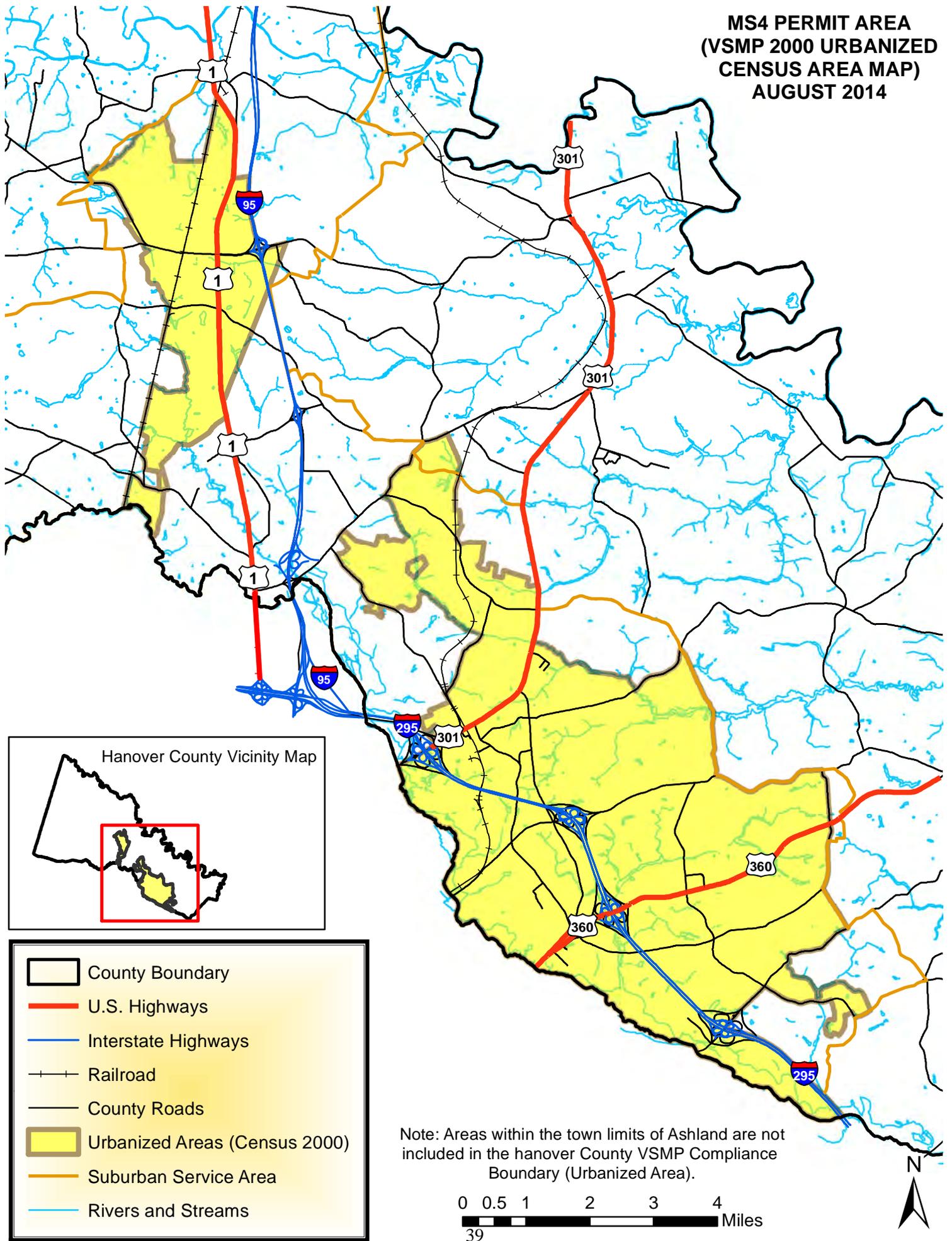
ITEM VII.

VIII. Public Hearing - Department of Public Works - Chickahominy River TMDL Action Plan - Mr. Mike Flagg, Director, Department of Public Works

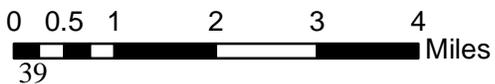
ITEM VIII.

Appendix B - VSMP 2000 & 2010 Urbanized Census Area Maps

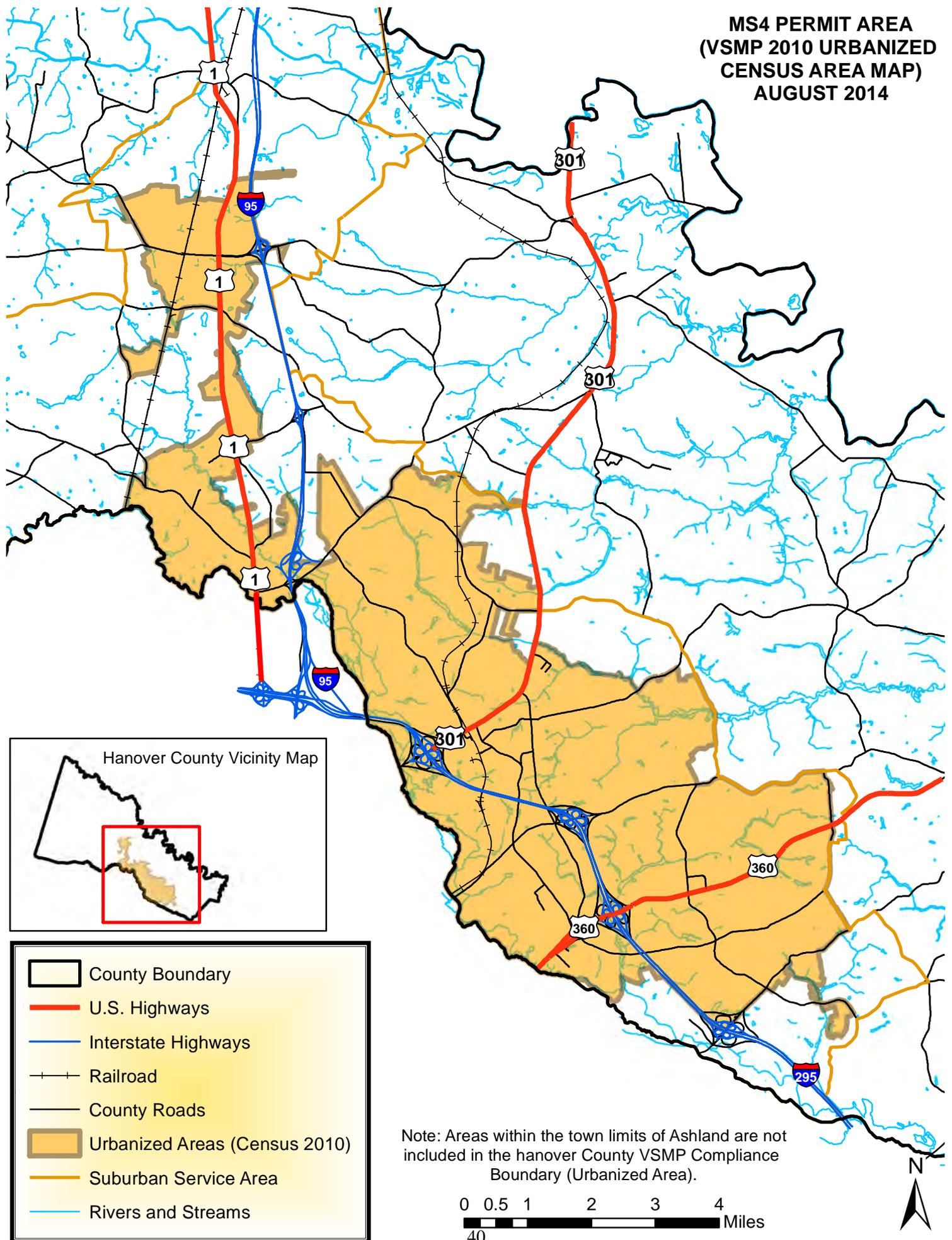
**MS4 PERMIT AREA
(VSMP 2000 URBANIZED
CENSUS AREA MAP)
AUGUST 2014**



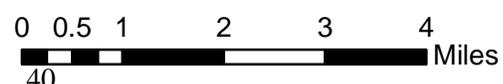
Note: Areas within the town limits of Ashland are not included in the hanover County VSMP Compliance Boundary (Urbanized Area).



**MS4 PERMIT AREA
(VSMP 2010 URBANIZED
CENSUS AREA MAP)
AUGUST 2014**



Note: Areas within the town limits of Ashland are not included in the hanover County VSMP Compliance Boundary (Urbanized Area).



Appendix C – Chesapeake Bay TMDL Announcements



Submissions sought for volunteerism awards

Do you know someone who should be recognized for the volunteer work they are doing in Hanover? If so, please nominate them for a "Spirit of Volunteerism" award.

Nomination forms for Hanover's 2016 Spirit of Volunteerism awards will be available on Monday, January 4.

Hanover has a strong tradition of volunteering. These awards allow the community to acknowledge individuals and groups whose efforts change the lives of many.

All award recipients will receive an engraved plaque and a financial donation of up to \$250 made in their honor to the tax-exempt organization designated on the honoree's nomination form.

March 7 is the deadline to submit nominations.

All nominees will be recognized and award recipients announced as part of the Spirit of Volunteerism celebration on Tuesday, May 3, 2016.

Free Master Gardener classes start in January

Hanover County Master Gardeners will hold 10 free classes on select Saturdays beginning January 2, 2016.

Each class will be held from 9-11 a.m. at the Mechanicsville branch of the Pamunkey Regional Library.

The January 2 topic: garden tools and more. The following class will be held January 16.

To see the schedule or for more information visit <http://offices.ext.ut.edu/hanover/> or call 752-4310.

New dog park dedicated



Hanover's second dog park opened recently at Pole Green Park. The effort to designate 1.2 acres as a dog park was led by Friends of Hanover Dog Parks with the support of the Board of Supervisors, Parks and Recreation, Animal Control, the Sheriff's Office and countless volunteers. Generous contributions enabled the Friends of Hanover Dog Park to raise more than \$27,000 in less than two years. The dog park is open dawn to dusk. Taylor Park also has a dog park. (Lisa Davis photo).

Rabies clinic held

Hanover County Animal Control offers rabies vaccination clinics during the fall and winter, giving pet owners the ability to vaccinate their animals at a cost of \$7 per dog or cat.

The final clinic of this winter will be held at the East Hanover Rescue Squad on Saturday, Feb. 6, from 10-1.

"Scoop behind your pooch"

Hanover County has been proactive in taking steps to protect the Chesapeake Bay, but your help is crucial.

One of the basic things pet owners can do is pick up the waste their pets leave. Disposing of pet waste properly is important to keeping our waters clean.

When pet waste is left in the open it can merge with stormwater when it rains. The runoff enters stormwater drains and ditches which discharge into creeks, ponds and other bodies of water.

Pet waste boxes are available through the Department of Public Works. If your homeowners association would like to have DPW staff install pet waste bag dispensers on some of the street sign posts in your subdivision, please contact DPW at 365-6181.

These boxes use recycled plastic bags and are easily refilled by neighborhood volunteers.

Need help? "Aunt Bertha" could provide resources

"Aunt Bertha" is an online resource directory that connects people with programs to help their specific situation. By going to www.auntbertha.com and entering your zip code, you can get service information on basic needs such as food, health, housing and much more.

Programs included in the Aunt Bertha resource directory must provide services directly to recipients at no cost or on a reduced or sliding fee scale. Over the past year, 792 individual seekers have used the tool and there have been 5,863 searches for resources.

Aunt Bertha also has a mobile site that can be used on all smartphones with a browser.

This tool of local resources has been serving Hanover and the greater Richmond areas since being publicly launched in 2014.

State, county workers and volunteers join to clean up county

HANOVER — Roadside litter is an ugly and expensive problem in Hanover County.

Last year county work crews and mechanical sweepers collected more than 778,615 pounds (389 tons) of roadside litter. This astounding number doesn't include what was picked up by the Virginia Department of Transportation and its Adopt-a-Highway volunteers.

Much of the litter on Hanover's roadways comes from trash being blown out of trucks and utility trailers on their way to solid waste convenience centers or commercial landfills. Secure your loads so this doesn't happen. Inexpensive tarps are available at most hardware stores.

Perhaps even more of the

litter is thrown from vehicles by careless individuals. Just look along almost any interstate ramp to see how litter can ruin the beauty of an area. If you are one of those individuals, refrain from carelessly throwing trash out your window. Roadside litter is a problem that everyone can help solve. You also can help by joining the "Adopt a Highway" program.

Spring is a good time to enroll because VDOT encourages Adopt-a-Highway participants to schedule one of their two yearly pickups in April to coincide with "Earth Day."

Adopt-a-Highway volunteers agree to pick up litter at least twice a year for three years over a two-mile stretch of highway. In return, VDOT



Photo submitted by Tom Harris

Employees of the Department of Public Works recently picked up enough trash in the ditches along a few hundred feet of Kings Acres Road to fill 40 trash bags.

provides trash bags, vests, important safety information, and highway signs that recognize your group.

More information about the Adopt-a-Highway program can be obtained by calling 1-800-PRIDE-VA or going to VDOT's website at www.virginiadot.org. Another way that everyone can help keep Hanover beautiful is by not placing illegal

signs alongside the road or within a median strip. Any area inside a ditch line would almost always be within the VDOT right-of-way.

Manual roadside litter pick up is a cooperative program between Hanover County Public Works, Pamunkey Regional Jail and VDOT.

Information submitted by Tom Harris, Hanover County public information officer.



Buy a Bangin', Build a Home!

Restore

IT'S TIME TO GET AHEAD OF SPRING CLEANING!

Call today for more information or to schedule a free estimate. Our technicians are highly trained and experienced. We are the only company in the area that offers this service. Not to be combined with other offers.

*Some Restrictions Apply for Larger Items. Call Today! 804-370-0093

MONDAY - SATURDAY 9AM - 5PM

OPEN HOUSES

Sunday, March 20th • 1pm-4pm Waterfront & Water Access

139 South Dr., Dunnsville, VA 22454



Cute as a button year-round 2 bedroom home with great river views from the Florida room. Also includes a 2 bedroom guest house, workshop and pole barn on a double lot. Short walk to the Community beach, dock and ramp. An exceptional value. **\$195,000**

Jack Torza | 804-301-5647

1462 Glebe Landing Road, Essex VA 22437



Extraordinary builder's home with wide views of the Rappahannock River. 4 bedrooms with a picture perfect master suite and balcony. Great open floor plan with views from almost every room. Full basement, 2 car garage, deeded boat slip and community beach and clubhouse. **\$465,000**

Jack Torza | 804-301-5647

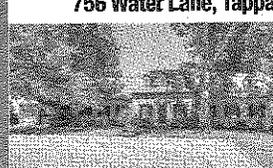
Rappahannock River Run
1000 Glebe Landing, Center Cross, VA 22437



Water Access to the Rappahannock River, Boat Slip/Dock, Sandy White Beach, Clubhouse is what you get with this perfect getaway! Two 1st Floor Bdrm Suites, Party Room, Three Car Garage, Pole Barn to park the water toys. **\$470,000**

Teresa Moore | 804-370-0093

Rappahannock River
756 Water Lane, Tappahannock, VA



Retreat to this Waterfront Brick home with beautiful panoramic views. Defined by exquisite architecture, Embassy-sized rooms, two car garage & all the town amenities! **\$825,000**

Teresa Moore | 804-370-0093

507 Piscataway Drive, Tappahannock, VA 22560



Located on the Shores of the Piscataway Creek, at the mouth of the Rappahannock River. There have been no details spared on this custom brick home, 3 car garage + 2 car detached all on 10 acres. **\$859,950**

Chuck Jenkins | 804-397-9389

19407 Tidewater Trail, Tappahannock, VA 22560



Enjoy amazing views of the Rappahannock River from Tappahannock's Gold Coast. Open floor plan ready for entertaining- Updated Kitchen; Vaulted Great Room with adjoining sunroom overlooking river & deck; Pier w/Boat Lift; 2 Master Bedroom Suites. **\$899,000**

Betsy Stanley | (804)347-3488

1979 Cold Cheer Drive, Tappahannock, VA 22560



Water Access to Rappahannock River from Piscataway Creek. Custom 3 story Open Fl Plan, 5 Bdrm, 4 Full Baths, Two 1/2 Baths, 1st FL Mstr BR to include a 3RD Fl Mstr BR. 2 Car Garage, Heated 62x30 Garage. **\$569,000.**

Angela Davenport | 804-296-5566

314 Jeanette Drive, Tappahannock, VA



Hoskins Creek offering deep water! This all brick 3 bedroom, 2 bath home is located in a low traffic area of Tappahannock, storm protected and a beautiful view to the Rappahannock. **\$345,000**

Jeff Brooks | 804-445-1395



RUNOFF

HANOVER-CAROLINE SOIL & WATER CONSERVATION DISTRICT



VOLUME 39

2016-2017 NEWSLETTER

EDITION 1

VCAP urban cost share available

The Hanover-Caroline Soil and Water Conservation District announces urban cost share funds are available for homeowners, businesses, civic organizations and municipalities through the Virginia Conservation Assistance Program (VCAP).

The VCAP program provides for retrofitting of urban best management practices (BMPs) to retain and filter stormwater runoff in the Chesapeake Bay watershed. These beneficial practices aid in the mitigation of sediment and pollutant loads as well as the retention of water for home and horticultural uses.

Urban BMPs such as rain gardens, conservation landscaping, riparian buffers, rain-water harvesting and bioretention are included in the suite of practices available for funding.

For property owners in the Chickahominy watershed, equine manure composting is available for a limited time at the 100% cost share level.

For information and to obtain an application, interested citizens or groups in Hanover and Caroline Counties may contact Pattie Bland at the Hanover-Caroline SWCD office, ppbland@hanovercounty.gov or at (804) 537-3019.



District presents "Dirt Week" Soil Day

On June 16 the District partnered with Caroline County 4-H and Family & Consumer Sciences to teach 30 Caroline Parks & Rec day campers about soil as part of their "Dirt Week" activities. District staff took runoff boxes, soil tunnel and soil profile tubes to demonstrate the relationship of water, soil and erosion to the campers.



Support local producers at these (and other) farmers markets!

Ashland Farmers Market
121 Thompson Street
Ashland, VA 23005

May-October
Saturdays, 9 a.m.-12 noon

Bowling Green Community Farmers Market
211 North Main Street
Bowling Green, VA 22427

April-October
Saturdays, 9 a.m.-1 p.m.

Montpelier Center Farmers Market
17205 Mountain Road
Montpelier, VA 23192

June-October
Thursdays, 4-7 p.m.



New Highland Baptist Church Farmers Market
9200 New Ashcake Road
Mechanicsville, VA 23111

May-September
Wednesdays, 4-7 p.m.

Rt 639 Farmers Market
7278 Ladysmith Road
Ruther Glen, VA 22546

June-September
Thursdays, 4-8 p.m.

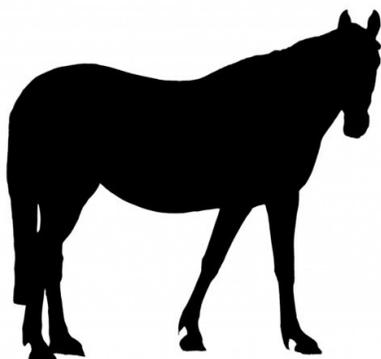
Equine manure composting design, funds available

Hanover-Caroline SWCD announces urban BMP cost share funds for small storage equine manure composting bins are available for Chickahominy watershed residents. The District will send a design and spec package upon request.

The three-bin system is designed to handle solid waste for 3-4 horses or other barn-lot small animals in a confined area.

For a limited time, property owners can qualify for 100% cost share funding.

Please call the District office, (804) 537-3019.





Hanover-Caroline Soil & Water Conservation District
 13224 Hanover Courthouse Road, Suite 201
 P.O. Box 446
 Hanover, VA 23069-0446
 (804) 537-3009

DIRECTORS

Joseph Stepp, Chair - Caroline
 Donald L. Wells, Vice-Chair - Hanover
 Cindy Smith, Secretary - Caroline
 Bruce Cauthorn, Treasurer - Hanover
 Laura Maxey-Nay - ANR Extension Agent, Hanover
 Leigh Pemberton - Hanover

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Park Dodd - Caroline
 Casey Engel - Caroline
 Timothy Etheredge - Hanover
 Rita Schalk - Hanover
 Jim Schroering - Hanover

STAFF

Sharon Conner, District Manager/Conservation Specialist
 Jim Tate, Conservation Specialist
 Marian Moody, Conservation Specialist
 Pattie Bland, Urban Conservationist
 Ann Edmonds, Administrative Professional

NATURAL RESOURCES CONSERVATION SERVICE

Brian Wooden, District Conservationist

VIRGINIA COOPERATIVE EXTENSION

Mike Broaddus, ANR Extension Agent, Caroline
 Laura Maxey-Nay, ANR Extension Agent, Hanover

 **Call us!**

Hanover-Caroline SWCD staff has the following new telephone numbers.

Sharon Conner	537-3014
Jim Tate	537-3015
Marian Moody	537-3016
Pattie Bland	537-3019
Ann Edmonds	537-3009

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Email: engelfamilyfarms@yahoo.com





Hanover County Farm Bureau

Ashland Office: (804) 798-6534
 Fax: (804) 752-7858
 100 Frances Road, Ashland, VA 23005

Mechanicsville Office: (804) 730-8730
 Fax: (804) 746-9455
 7286 Hanover Green Dr, Mechanicsville, VA 23111

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Appendix D – Commercial Site Inspections

Retail and Commercial Site Solid and Liquid Waste Inspection History								
Site ID #	Shopping Center	Shopping Center/Site Location	Inspector	Date	Inspection Results	Report	Photos	Comments/Follow-up
15	Hanover Commons	Hanover Commons - Route 301 - <i>Don Pedro 2</i>	John Bourret	12/8/2015	no problems noted	NO	NO	
17	Hanover Square	Hanover Square - East side Bell Creek Road - <i>Kohls</i>	John Bourret	12/15/2015	problems noted	NO	NO	
17	Hanover Square	Hanover Square - East side Bell Creek Road - <i>Applebee's</i>	John Bourret	12/15/2015	possible problems	NO	NO	Lots of action from the Re Store, no problems noted.
18	Hanover Square	Hanover Square - West side Bell Creek Road - <i>Best Buy</i>	John Bourret	12/15/2015	No problems noted	NO	NO	Lots of action from the Re Store, no problems noted.
17	Hanover Square	Hanover Square - West side Bell Creek Rd - <i>Best Buy/Target/Home Depot/Cracker Barrel/Strip Retail</i>	John Bourret	12/15/2015	No problems noted	NO	NO	
1	Stand Alone Business	<i>Arby's</i> - 360	John Bourret	12/21/2015	No problems noted	NO	NO	
2	Atlee Square	<i>Atlee Square</i> - Route 301, <i>Brunetti's Restaurant, Dollar General, Atlee Library,</i>	John Bourret	12/21/2015	messy but improved	NO	NO	The best I've seen it in a long time.
4	Battlefield Commons	<i>Battlefield Commons</i> - 360/ <i>Awful Arthurs</i>	John Bourret	12/21/2015	No problems	NO	NO	Looks the same as last time. Someone dumped a load of building materials at the edge of the woods behind the place. Not a pollution threat.
5	Bay Court Shopping Center	<i>Bay Court</i> - 360/Old Hickory	John Bourret	12/21/2015	No problems noted	NO	NO	
7	Brandy Hill Plaza	<i>Brandy Hill</i> - 360/Lee Davis- <i>Food Lion, China Wok, Willie's NC BBQ,</i>	John Bourret	12/21/2015	No problems noted	NO	NO	
8	Stand Alone	<i>Burger King</i> - 360	John Bourret	12/21/2015	No problems noted	NO	NO	It still looks like on going outdoor cleaning
9	Stand Alone	<i>Fastmart</i> - 360 -next to Battlefield Commons (site # 4)	John Bourret	12/21/2015	Problem noted.	NO	NO	It still looks like on going outdoor cleaning
16	Hanover Village	<i>Hanover Village</i> - 360 - <i>Tuesday Morning, Ann's Italian Res, Strip Retail, TSC,</i>	John Bourret	12/21/2015	problems noted	NO	NO	pretty good
19	Stand Alone	<i>International House of Pancakes</i> - 360	John Bourret	12/21/2015	No Problems noted	NO	NO	pretty good
22	Kings Charter Village Center	<i>Food Lion</i>	John Bourret	12/21/2015	No Problems noted	Yes	Yes	
22	Kings Charter Village Center	<i>Amesley-Hedden-Restaurant</i> - ENTIRE CENTER	John Bourret	12/21/2015	No problems noted	NO	NO	
26	Stand Alone	<i>Arby's</i> - Route 1 @ Sliding Hill	John Bourret	12/21/2015	No problems noted	NO	NO	
28	Stand Alone	<i>McDonald's</i> - Sliding Hill - next to Kings Charter (site #22)	John Bourret	12/21/2015	No problems noted	NO	NO	
31	Rutland Commons -	<i>Marty's Grill</i>	John Bourret	12/21/2015	problems noted	NO	NO	
34	Stand Alone	<i>Mexico</i> - 360	John Bourret	12/21/2015	No new problems noted	NO	NO	
36	Fastmart Shopping Center	<i>Pasta House/Fas Mart</i> - Atlee Rd.	John Bourret	12/21/2015	No problems noted	NO	NO	
38	Stand Alone	<i>Popeyes</i> - Rte 301/Atlee road @ Atlee Square (site #2)	John Bourret	12/21/2015	No problems noted	NO	NO	
40	Stand Alone	<i>Sheets</i> - Sliding Hill	John Bourret	12/21/2015	No problems noted	NO	NO	
42	Stand Alone	<i>Sonic</i> - Route 1 & Sliding Hill	John Bourret	12/21/2015	No problems noted	NO	NO	Messy, litter and boxes.
3	Stand Alone Business	<i>Bass Pro</i> - Lakeridge Parkway	J. Bourret	12/22/2015	No problems noted	NO	NO	
6	The Shoppes at Bell Creek	<i>Bell Creek</i> - Pole Green/Bell Creek - <i>Farmers-Johnson's,</i> Chen's, The Patron,	John Bourret	12/22/2015	Problems noted	NO	NO	
6	The Shoppes at Bell Creek	<i>Entire Center</i>	John Bourret	12/22/2015	No problems noted	NO	NO	
10	Stand Alone	<i>Burger King</i> - Rte 301	John Bourret	12/22/2015	No problems noted	NO	NO	
11	Bowles Farm Plaza	<i>Bowles Farm Plaza</i> - 360 - <i>Ginger Red Asian Bistro</i>	John Bourret	12/22/2015	no problems	NO	NO	
12	Creighton Crossing	<i>Creighton Crossing</i> - 360/Creighton Crossing - entire center	John Bourret	12/22/2015	No Problems noted	NO	NO	Clean behind Greentop and Home Depot. Some grease staining, and litter and boxes behind the restaurants. But it appears that they are maintaining that area daily.
13	Unnamed Shopping Center	<i>Five Guys</i> - 360 - at Bowles Farm Plaza (site #11)	John Bourret	12/22/2015	No problems noted	NO	NO	
14	North Cross Center	<i>Cici's Pizza, Jade Chinese, Jersey Milks Subs,</i> Halligan BBQ	John Bourret	12/22/2015	No problems noted	NO	NO	Cardboard and litter behind restaurants. Appears to be maintained regularly.
17	Hanover Square	<i>Hanover Square</i> - East side Bell Creek Road - <i>Dollar Tree</i>	John Bourret	12/22/2015	No problems noted	NO	NO	

Retail and Commercial Site Solid and Liquid Waste Inspection History

Site ID #	Shopping Center	Shopping Center/Site Location	Inspector	Date	Inspection Results	Report	Photos	Comments/Follow-up
18	Stand Alone	7 Eleven - 360 - next to Stonewall Square SS (site #45)	John Bourret	12/22/2015	No Problems noted	NO	NO	Lots of litter, dirty center.
21	Stand Alone	TGI Fridays - 360/Creighton - next to Stonewall Square SS (site #45)	John Bourret	12/22/2015	Problems noted	NO	NO	
24	Stand Alone	Lowe's - 360	John Bourret	12/22/2015	No problems noted	NO	NO	
25	Stand Alone	McDonalds - 360	John Bourret	12/22/2015	No problems noted	NO	NO	
31	Rutland Commons -	Marty's Grill Entire Center	John Bourret	12/22/2015	problems noted	NO	NO	Some litter behind the store, not much at all.
37	Stand Alone	Pizza Hut - 360	John Bourret	12/22/2015				Evidence of outdoor cleaning. Need followup.
41	Stand Alone	Shoney's - 360	John Bourret	12/22/2015	No problems noted	NO	NO	I suspect they are still outdoor cleaning, but it is not as evident as before.
43	Stand Alone	Sonic - 360	John Bourret	12/22/2015	No problems noted	NO	NO	
44	Spring Center	Spring Center - 360 - Tropical Cafe	John Bourret	12/22/2015	No problems noted	NO	NO	
45	Stonewall Square	Stonewall Square - 360 across from Creighton Crossing SS - Chick-fil-e's Pizza , Firehouse Subs	John Bourret	12/22/2015	No problems noted	NO	NO	
20	Stand Alone	Walmart - 360	John Bourret	12/23/2015	No problems noted	NO	NO	Trash near dumpsters.
35	Stand Alone	Outback - 360/Walmart	John Bourret	12/23/2015	No problems noted	NO	NO	Trash near dumpsters. Same as always.
39	Stand Alone	Ruby Tuesday - 360/Walmart	John Bourret	12/23/2015	No problems noted	NO	NO	
27	Stand Alone	McDonalds - Rte 301	John Bourret	12/30/2015	No problems noted	NO	NO	
29	Montpelier Shoppes -	Entire Center	John Bourret	12/30/2015	No problems noted	NO	NO	
30	Village Green -	Village Green - Montpelier	John Bourret	12/30/2015	No new problems noted	NO	NO	
32	Stand Alone	Montpelier Fast Mart	John Bourret	12/30/2015	No problems noted	NO	NO	Outdoor cleaning is ongoing
33	Stand Alone	Montpelier Food Center	John Bourret	12/30/2015	No problems noted	NO	NO	Outdoor cleaning evidence is not so obvious. Heavy rains may have cleaned the area? Need to check back after a dry spell.
10	Stand Alone	Burger King - Rte 301	John Bourret	6/16/2016	No problems noted	NO	NO	Much improved.
14	North Cross Center	Cici's Pizza , Jade Chinese , Jersey Milks Subs , Halligan BBQ, Home Depot, Greentop	John Bourret	6/16/2016	No problems noted	NO	NO	
31	Rutland Commons -	Krogers	John Bourret	6/16/2016	no problems noted	NO	NO	
	Rutland Commons -	Marty's Grill Entire Center	John Bourret	6/16/2016	problems noted	NO	NO	
38	Stand Alone	Popeyes - Rte 301/Atlee road @ Atlee Square (site #2)	John Bourret	6/16/2016	No problems noted	NO	NO	
1	Stand Alone Business	Arby's - 360	John Bourret	6/20/2016	No problems noted	NO	NO	
2	Atlee Square	Atlee Square - Route 301, Brunetti's Restaurant , Dollar General , Atlee Library ,	John Bourret	6/20/2016	messy but improved	NO	NO	
3	Stand Alone Business	Bass Pro - Lakeridge Parkway	J. Bourret	6/20/2016	No problems noted	NO	NO	
5	Bay Court Shopping Center	Bay Court - 360/Old Hickory	John Bourret	6/20/2016	No problems noted	NO	NO	
6	The Shoppes at Bell Creek	Bell Creek - Pole Green/Bell Creek - Farmers Markets , Chen's, The Patron,	John Bourret	6/20/2016	Problems noted	NO	NO	
6	The Shoppes at Bell Creek	Entire Center	John Bourret	6/20/2016	No problems noted	NO	NO	
17	Hanover Square	Hanover Square - East side Bell Creek Road - Dollar Tree	John Bourret	6/20/2016	No problems noted	NO	NO	
17	Hanover Square	Hanover Square - East side Bell Creek Road - Kohls	John Bourret	6/20/2016	No problems noted	NO	NO	
17	Hanover Square	Hanover Square - East side Bell Creek Road - Applegate's	John Bourret	6/20/2016	possible problems	NO	NO	
17	Hanover Square	Hanover Square - West side Bell Creek Rd - Best Buy/Target/Home Depot/Cracker Barrel/Strip Retail	John Bourret	6/20/2016	No problems noted	NO	NO	
20	Stand Alone	Walmart - 360	John Bourret	6/20/2016	No problems noted	NO	NO	
22	Kings Charter Village Center	Market-Highway-Restaurant - ENTIRE CENTER	John Bourret	6/20/2016	No problems noted	NO	NO	Same as previous visit
26	Stand Alone	Arby's - Route 1 @ Sliding Hill	John Bourret	6/20/2016	No problems noted	NO	NO	This place is a mess behind the center, lots of litter.

Retail and Commercial Site Solid and Liquid Waste Inspection History

Site ID #	Shopping Center	Shopping Center/Site Location	Inspector	Date	Inspection Results	Report	Photos	Comments/Follow-up
27	Stand Alone	McDonalds - Rte 301	John Bourret	6/20/2016	No problems noted	NO	NO	Needs some litter picked up, not too bad.
28	Stand Alone	McDonalds - Sliding Hill - next to Kings Charter (site #22)	John Bourret	6/20/2016	No problems noted	NO	NO	Litter around dumpster, oily stain from building to FOG
34	Stand Alone	Mexico - 360	John Bourret	6/20/2016	No new problems noted	NO	NO	Litter around dumpster, oily stain from building to FOG
35	Stand Alone	Outback - 360/Walmart	John Bourret	6/20/2016	No problems noted	NO	NO	About the same as before.
36	Fastmart Shopping Center	Pasta House/Fas Mart - Atlee Rd.	John Bourret	6/20/2016	No problems noted	NO	NO	Staining around FOG container. Not M54 area.
39	Stand Alone	Ruby Tuesday - 360/Walmart	John Bourret	6/20/2016	No problems noted	NO	NO	Staining around FOG container. Not M54 area.
41	Stand Alone	Sheets - Sliding Hill	John Bourret	6/20/2016	No problems noted	NO	NO	
41	Stand Alone	Shoney's - 360	John Bourret	6/20/2016	No problems noted	NO	NO	
42	Stand Alone	Sonic - Route 1 & Sliding Hill	John Bourret	6/20/2016	No problems noted	NO	NO	still looks like outdoor cleaning
44	Spring Center	Spring Center - 360 - Tropical Cafe	John Bourret	6/20/2016	No problems noted	NO	NO	still looks like outdoor cleaning
15	Hanover Commons	Hanover Commons - Route 301 - Don Pedro 2, Giovanni's, Food Lion,	John Bourret	6/22/2016	no problems noted	NO	NO	
29	Montpelier Shoppes -	Entire Center	John Bourret	6/23/2016	No problems noted	NO	NO	
30	Village Green -	Village Green - Montpelier	John Bourret	6/23/2016	No new problems noted	NO	NO	
33	Stand Alone	Montpelier Fast Mart	John Bourret	6/23/2016	No problems noted	NO	NO	
33	Stand Alone	Montpelier Food Center	John Bourret	6/23/2016	No problems noted	NO	NO	EMPTY LOT
4	Battlefield Commons	Battlefield Commons - 360/Awful Arthurs	John Bourret	6/24/2016	No problems	NO	NO	looks good
7	Brandy Hill Plaza	Brandy Hill - 360/Lee Davis- Food Lion, China Wok, Willies NC BBQ,	John Bourret	6/24/2016	No problems noted	NO	NO	
8	Stand Alone	Burger King - 360	John Bourret	6/24/2016	No problems noted	NO	NO	
9	Stand Alone	Fastmart - 360 -next to Battlefield Commons (site # 4)	John Bourret	6/24/2016	Problem noted.	NO	NO	
11	Bowles Farm Plaza	Bowles Farm Plaza - 360 - Ginger Red Asian Bistro	John Bourret	6/24/2016	no problems	NO	NO	
12	Creighton Crossing	Creighton Crossing - 360/Creighton Crossing - entire center	John Bourret	6/24/2016	No Problems noted	NO	NO	
13	Unnamed Shopping Center	Five Guys - 360 - at Bowles Farm Plaza (site #11)	John Bourret	6/24/2016	No problems noted	NO	NO	
16	Hanover Village	Hanover Village - 360 - Tuesday Morning, Anna's Italian Res, Strip Retail, TSC,	John Bourret	6/24/2016	problems noted	NO	NO	
18	Stand Alone	7 Eleven - 360 - next to Stonewall Square SS (site #45)	John Bourret	6/24/2016	No Problems noted	NO	NO	
19	Stand Alone	International House of Pancakes - 360	John Bourret	6/24/2016	No Problems noted	NO	NO	
22	Stand Alone	TGI Fridays - 360/Creighton - next to Stonewall Square SS (site #45)	John Bourret	6/24/2016	Problems noted	NO	NO	
23	Unnamed Shopping Center	Little Ceasars - 360 - at Bowles Farm Plaza (site #11)	John Bourret	6/24/2016	No problems noted	NO	NO	
24	Stand Alone	Lowe's - 360	John Bourret	6/24/2016	No problems noted	NO	NO	
25	Stand Alone	McDonalds - 360	John Bourret	6/24/2016	No problems noted	NO	NO	
37	Stand Alone	Cook Out	John Bourret	6/24/2016	No problems noted	no	no	
43	Stand Alone	Sonic - 360	John Bourret	6/24/2016	No problems noted	NO	NO	
45	Stonewall Square	Stonewall Square - 360 across from Creighton Crossing SS - Chanelle's Pizzeria , Firehouse Subs	John Bourret	6/24/2016	No problems noted	NO	NO	

Appendix E – Development Community Meeting Agenda

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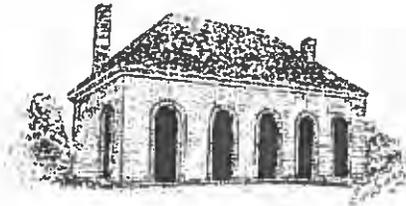
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PRINCIPAL PLANNER

MARY B. PENNOCK
PRINCIPAL PLANNER

P. O. BOX 470
HANOVER, VIRGINIA 23069

PHONE 804-365-6171
FAX 804-365-6232

MEMORANDUM

TO: Commercial and Development Review Staff

FROM: John Bender, Deputy Director of Planning

DATE: September 21, 2015

RE: **Quarterly Meeting**

The quarterly meeting will be held in the *TRANE* Company offices at 10408 Lakeridge Parkway, Suite 100, in Crescent Business Center (see attached map) from **11:30 a.m. to 1:00 p.m. on Friday October 16, 2015.** The purpose of this meeting is to continue the series of seminars for the engineering and development community. **PLEASE NOTE THE START TIME FOR THIS MEETING DATE IS 11:30 A.M., AS LUNCH WILL BE SERVED.**

The topics to be covered at this session are:

- **USPS Requirements for Cluster Mailboxes for all Residential Development** (Megan Dalzell, Senior Planner I/John Bender)
- **Road Projects Status Report for Projects Relevant to Commercial Development** (Joe Vidunas, Traffic Engineer, Public Works)
- **Building Permit Requirements and Associated Maintenance Agreements for Individual Lot BMPs** (Randy Hardman, Deputy Director of Public Works)
- **Updates and Miscellaneous Matters:**
 - **Update - Surety for Installation of Certain Required Improvements in Subdivisions, now Governed By the Zoning Ord.**
 - **Subdivision Street Sign Standards/Requirements Reminder**

Please let Angie Pitts know if you plan to attend by 4:30 p.m. on Thursday October 8, 2015, so that we may plan adequately for lunch. Ms. Pitts may be contacted at 365-6171 or by e-mail to awpitts@co.hanover.va.us. In case of inclement weather, if County offices are closed or if the Trane offices are closed, this meeting will be cancelled and rescheduled.

BOARD OF SUPERVISORS

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COUNTY ADMINISTRATOR



HANOVER COUNTY

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MEMORANDUM

PLANNING DEPARTMENT

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P. O. BOX 470
HANOVER, VIRGINIA 23069

PHONE 804-365-6171
FAX: 804-365-6232

TO: Commercial and Development Review Staff
FROM: John Bender, Deputy Director of Planning
DATE: February 26, 2016
RE: **Quarterly Meeting**

The quarterly meeting will be held in the *TRANE* Company offices at 10408 Lakeridge Parkway, Suite 100, in Crescent Business Center (see attached map) from **11:30 a.m. to 1:00 p.m. on Friday April 8, 2016**. The purpose of this meeting is to continue the series of seminars for the engineering and development community. **PLEASE NOTE THE START TIME FOR THIS MEETING DATE IS 11:30 A.M., AS LUNCH WILL BE SERVED.**

The topics to be covered at this session are:

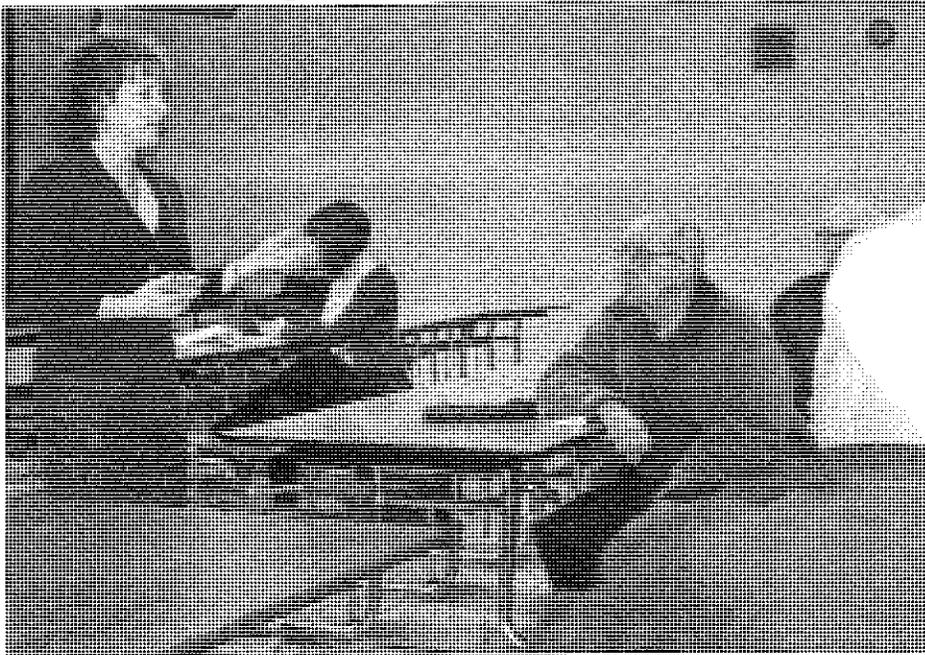
- **Legislative Update** (Dennis Walter, Deputy County Attorney)
- **Tips for Quicker BP/CO approval – Provide Verification/Documentation of Use of Approved HVAC Screening and Lighting** (Donna Bowen, LA, Sr. Planner I)
- **Screening Tree Options and Updates** (Donna Bowen) *
- **Inspection Fees - Storm Sewer Pipe Acceptance** (Mike Flagg, Dir. of Public Works)
- **Ordinance Amendment for RS District Family Divisions** (David Maloney, Director of Planning)
- **Updates and Miscellaneous Matters:**
 - **Update - Surety for Required Improvements in Subdivisions, now Governed By the Zoning Ord.**
 - **USPS Requirements for Cluster Mailboxes for Residential Development**
 - **Subdivision Street Sign Standards/Requirements Reminder**

* The County has not reviewed its Screen Tree Plant List in a while. We want to know about trees on the list that are difficult to obtain, and new appropriate varieties of trees that may be good additions to our list. Provide any ideas to Donna Bowen (dsbowen@hanovercounty.gov) in advance of the meeting. We will discuss this at the April Quarterly Meeting.

Please let Angie Pitts know if you plan to attend by 4:30 p.m. on Thursday March 31, 2016, so that we may plan adequately for lunch. Ms. Pitts may be contacted at 365-6171 or by e-mail to awpitts@co.hanover.va.us. In case of inclement weather, if County offices are closed or if the Trane offices are closed, this meeting will be cancelled and rescheduled.

Appendix F - Recycling and Earth Day Announcements

Town hall meeting



Chickahominy District Supervisor Angela Kelly-Wiecek held a town hall meeting at Washington-Henry Elementary School on February 25. Topics included the proposed County budget and various road projects, including the extension of Atlee Road.

“Earth Day” event

Recycle personal info, e-waste on April 30

Hanover County will get into the spirit of “Earth Day” by holding a special recycling event at the Mechanicsville Solid Waste Center on Saturday, April 30, from 10 a.m. to 2 p.m.

During this event, Hanover County residents can bring electronic waste or household hazardous waste for recycling.

There is no charge to dispose of the “e-waste” (except televisions, and monitors, which cost \$10 each). In addition, hard drives can be destroyed on site for \$5 each. Payment only by checks.

‘E-waste’ items accepted at no charge will include computers, computer accessories (cables, wires, keyboards, mice, speakers, etc.), printers, scanners, copiers, fax machines, telephones & cell phones, VCRs, camcorders, stereos, microwaves.

For liquids, aerosols and solids which are classified as household hazardous wastes, there will be no charge but a 5-gallon limit. These are based on container size.

No water based paints, batteries, tube fluorescent light bulbs, explosives or radioactive materials will be accepted.

Up to four boxes (10” by 12” by 18”) of documents will also be accepted for shredding at no charge.

This event is for Hanover residents only (ID required). No businesses will be permitted. No out-of-county materials will be accepted.

Also that day, the Sheriff’s Office will take back expired, unwanted or unused prescription drugs and medications.

“Hanover’s Talking About” answers frequent questions

“Hanover’s Talking About” on the County website at www.hanovercounty.gov provides answers to questions that are being most frequently asked today. Questions and answers involve anything from high-speed internet access to current construction projects.

For example, the County continues to get questions from citizens in more rural areas of Hanover who do not have what they consider to be sufficient access to high-speed internet services. A recent entry provided this update:

Last Mile, a wireless Internet service provider, has indicated they are now offering services to residents living within close proximity to Poor Farm Park. Last Mile has also indicated interest in future expansion throughout the county. Their website address is <http://lastmilebroadband.net/>

To invite wireless internet providers into the county, Hanover created an incentive-based rate structure for use of its communications towers and last year entered into a lease agreement with Last Mile to use the towers at Poor Farm Park. Last Mile has also leased space on a tower in Goochland County that will enable the Rockville area to be served in the months to come. The County has also been in conversations with two other providers who have expressed an interest in leasing space on its communications towers and serving county residents.

If you have a question, please contact Tom Harris, Public Information Officer, at tharris@hanovercounty.gov

Open Government links on website

The open government page on the website at www.hanovercounty.gov provides a number of links to topics involving access to financial information and other records.

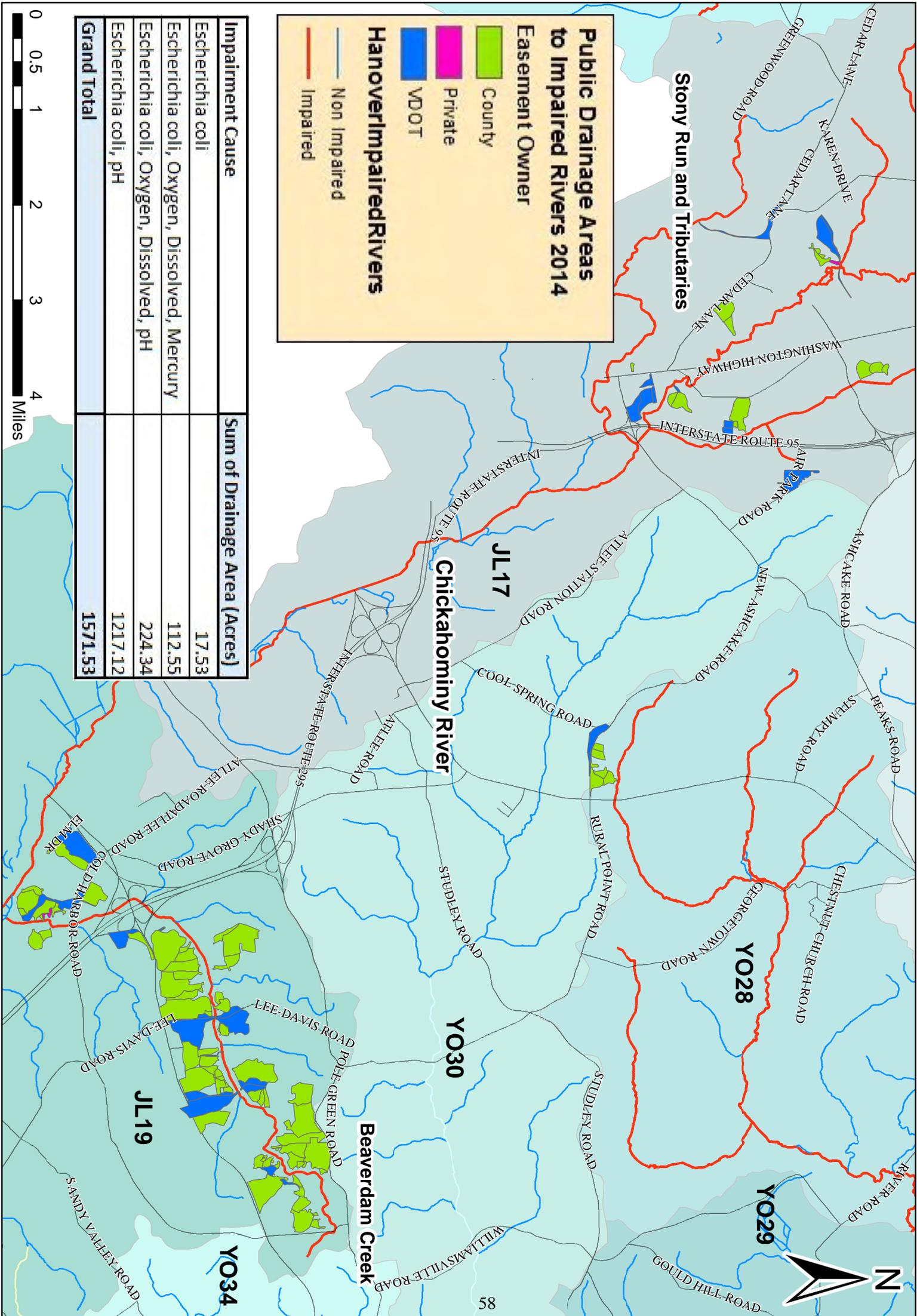
Links to meeting videos, agendas and minutes of the Board of Supervisors and the Planning Commission are provided. All Board and Planning Commission regular meetings can now be viewed live on the website. Videos are archived a day later and you can watch whichever agenda items you like.

You can also read budget and financial information, report waste, fraud and abuse, and look at County contracts and solicitations from the Open Government page. Information on how to request public records also is linked from this page.

The direct link is www.hanovercounty.gov/General/Open-Government/

Appendix G – Outfall Information

Public Drainage Areas to Impaired Rivers Hanover, Virginia 2014



Public Drainage Areas to Impaired Rivers 2014

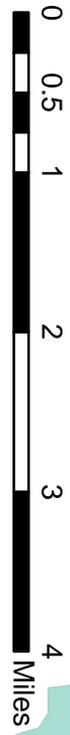
Easement Owner

- County
- Private
- VDOT

Hanover Impaired Rivers

- Non Impaired
- Impaired

Impairment Cause	Sum of Drainage Area (Acres)
Escherichia coli	17.53
Escherichia coli, Oxygen, Dissolved, Mercury	112.55
Escherichia coli, Oxygen, Dissolved, pH	224.34
Escherichia coli, pH	1217.12
Grand Total	1571.53



Facility_ID	Inspection Year	Date	Remarks/Observations
117200001	3	10/12/2015	No flow.
117200002	3	10/12/2015	No flow.
117200003	3	10/12/2015	No flow.
117200004	3	10/12/2015	No flow.
117200005	3	10/12/2015	No flow.
117200006	3	10/12/2015	No flow.
117200007	3	10/12/2015	No flow.
117200008	3	10/12/2015	No flow.
117200009	3	10/12/2015	No flow.
117200010	3	10/12/2015	No flow.
117200013	3	10/12/2015	No flow.
117200014	3	10/12/2015	No flow.
117200015	3	10/12/2015	No flow.
117200016	3	10/20/2015	No flow
117200017	3	10/20/2015	No flow
117200018	3	10/20/2015	No flow
117200019	3	10/20/2015	No flow
117200020	3	10/20/2015	No flow
117200021	3	10/20/2015	No flow
117200022	3	10/20/2015	No flow
117200023	3	10/20/2015	No flow
117200024	3	10/20/2015	No flow
117200025	3	10/20/2015	No flow
117200026	3	10/20/2015	No flow
117200027	3	10/20/2015	No flow
117200028	3	10/20/2015	No flow
117200029	3	10/20/2015	No flow
117200030	3	10/20/2015	No flow
117200032	3	10/20/2015	No flow
117200033	3	10/20/2015	No flow
117200034	3	10/20/2015	No flow
117200035	3	10/20/2015	No flow
117200036	3	10/27/2015	No flow
117200042	3	10/27/2015	No flow
117200043	3	10/27/2015	No flow
117200044	3	10/27/2015	No flow
117200039	3	10/27/2015	No flow
117200038	3	10/27/2015	No flow
117200040	3	10/27/2015	No flow
117200041	3	10/27/2015	No flow
117200045	3	10/27/2015	No flow
117200048	3	10/27/2015	No flow
117200060	3	10/27/2015	No flow
117200061	3	10/27/2015	No flow
117200062	3	10/27/2015	No flow
117200067	3	10/27/2015	No flow
117200068	3	10/27/2015	No flow
117200069	3	10/27/2015	No flow
117200070	3	12/7/2015	No flow
117200071	3	12/7/2015	No flow
117200080	3	12/7/2015	No flow
117200082	3	12/7/2015	No flow, end section has detached.
117200079	3	12/7/2015	No flow
117200078	3	12/7/2015	No flow
117200084	3	12/7/2015	No flow
117200089	3	12/7/2015	No flow
117200083	3	12/8/2015	No flow
119200035	3	12/8/2015	No flow
119200037	3	12/8/2015	No flow
119200038	3	12/8/2015	No flow
119200039	3	12/8/2015	No flow
119200040	3	12/8/2015	No flow
119200041	3	12/8/2015	No flow
119200042	3	12/8/2015	No flow
119200043	3	12/8/2015	No flow
119200044	3	12/8/2015	No flow
119200045	3	12/8/2015	No flow

119200047	3	12/8/2015 No flow
119200046	3	12/8/2015 No flow
119200049	3	12/8/2015 No flow
119200050	3	12/8/2015 No flow
119200051	3	12/8/2015 No flow
119200052	3	12/8/2015 No flow
119200053	3	12/8/2015 No flow
119200054	3	12/8/2015 No flow
119200055	3	12/8/2015 No flow
119200056	3	12/21/2015 No flow
119200058	3	12/21/2015 No flow
119200059	3	12/21/2015 No flow
119200060	3	12/21/2015 No flow
119200061	3	12/21/2015 No flow
119200062	3	12/21/2015 No flow
119200087	3	12/21/2015 No flow
119200117	3	12/21/2015 No flow
119200220	3	12/21/2015 No flow
119200221	3	12/21/2015 No flow
119200223	3	12/21/2015 No flow
119200224	3	12/21/2015 No flow
119200225	3	12/21/2015 No flow
119200226	3	12/21/2015 No flow, 90% blocked
119200227	3	12/21/2015 No flow, standing water
119200231	3	12/21/2015 No flow
119200232	3	12/21/2015 No flow
119200234	3	12/21/2015 No flow
119200236	3	12/22/2015 No flow, standing water.
119200237	3	12/22/2015 No flow
119200238	3	12/22/2015 No flow
119200241	3	12/22/2015 No flow
119200242	3	12/22/2015 No flow
119200243	3	12/22/2015 No flow
119200311	3	1/4/2016 No flow
119200307	3	1/4/2016 No flow
119200308	3	1/4/2016 No flow
119200310	3	1/4/2016 No flow
119200309	3	1/4/2016 No flow
119200318	3	1/4/2016 No flow
119200320	3	1/4/2016 No flow
119200323	3	1/4/2016 No flow
119200321	3	1/4/2016 No flow
119200322	3	1/4/2016 No flow
119200325	3	1/4/2016 No flow
119200326	3	1/4/2016 No flow
119200327	3	1/4/2016 No flow
119200328	3	1/19/2016 No flow
119200329	3	1/19/2016 No flow
119200332	3	1/19/2016 No flow
119200333	3	1/19/2016 No flow
119200336	3	1/19/2016 No flow
119200345	3	1/19/2016 No flow
119200342	3	1/19/2016 No flow
119200343	3	1/19/2016 No flow
119200344	3	1/19/2016 No flow
119200346	3	1/19/2016 No flow
119200348	3	1/19/2016 No flow
119200349	3	1/19/2016 No flow
119200349a	3	1/19/2016 No flow
119200350	3	1/19/2016 No flow
119200351	3	1/19/2016 No flow
117200082	3	2/10/2016 Outfall is functioning fine, potential to be addressed through a stream restoration project.
119200352	3	3/1/2016 No flow
119200353	3	3/1/2016 No flow
119200355	3	3/1/2016 No flow
119200356	3	3/1/2016 No flow
119200357	3	3/1/2016 No flow
119200358	3	3/1/2016 No flow

119200359	3	3/1/2016 No flow
119200363	3	3/1/2016 No flow
119200425	3	3/1/2016 No flow
119200373	3	3/1/2016 No flow
119200361	3	3/7/2016
119200360	3	3/7/2016
119200362	3	3/7/2016
119200354	3	3/7/2016
119200240	3	3/7/2016
119200235	3	3/7/2016
119200233	3	3/7/2016
119200230	3	3/7/2016
119200228	3	3/7/2016
119200222	3	3/7/2016
119200057	3	3/7/2016
119200048	3	3/7/2016
119200036	3	3/7/2016
117200050	3	3/7/2016
117200049	3	3/7/2016
117200055	3	3/7/2016 No flow
117200050	3	3/21/2016 Detention pond upstream contributing to outfall flow, no illicit discharge observed.
117200049	3	3/21/2016 Slow draining upstream contribution to outfall, groundwater present as well; no illicit discharge observed.
119200048	3	3/21/2016 Slow draining upstream, no illicit discharge observed.
119200036	3	3/21/2016 Slow draining upstream, no illicit discharge observed.
117200085	3	3/21/2016
117200031	3	3/21/2016
117200081	3	3/21/2016
117200087	3	3/21/2016 Values inside tolerance range for flows
117200073	3	3/21/2016
119200222	3	3/30/2016 Standing water, no illicit discharge
119200228	3	3/30/2016 Submerged, dry upstream, no illicit discharge
119200233	3	3/30/2016 Fed by perennial stream, no illicit discharge
119200235	3	3/30/2016 Standing water, dry upstream, no illicit discharge
119200240	3	3/30/2016 Standing water, dry upstream, no illicit discharge
119200057	3	3/30/2016 Dry upstream, no illicit discharge
119200362	3	3/30/2016 Tracked upstream, no illicit discharge suspected
119200361	3	3/30/2016 Fed by 119200360, no illicit discharge
119200360	3	3/30/2016 Fed by stream, no illicit discharge found
117200031	3	3/30/2016 Dry upstream, no illicit discharge
117200085	3	3/30/2016 Tracked upstream, no illicit discharge suspected
117200073	3	3/30/2016 Dry upstream, no illicit discharge
117200087	3	3/30/2016 Fed by perennial stream, no illicit discharge suspected
117200081	3	3/30/2016 Dry upstream, no illicit discharge
119200354	3	3/31/2016 Dry upstream, no illicit discharge
119200230	3	3/31/2016 Dry upstream, no illicit discharge

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BEAVERDAM DISTRICT

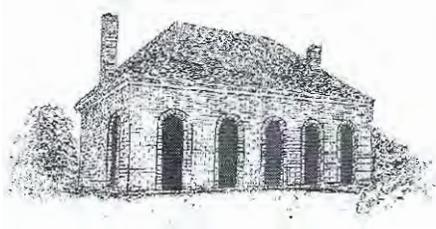
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COLD HARBOR DISTRICT



HANOVER COURTHOUSE

HANOVER COUNTY

ESTABLISHED IN 1720

DEPARTMENT OF PUBLIC WORKS

J. MICHAEL FLAGG, P.E., DIRECTOR

P. O. Box 470
7516 COUNTY COMPLEX ROAD
HANOVER VIRGINIA 23069
PHONE: 804-365-6181
FAX: 804-365-6233

WWW.CO.HANOVER.VA.US

CECIL R. HARRIS, JR.
COUNTY ADMINISTRATOR

FRANK W. HARKSEN, JR.
DEPUTY COUNTY ADMINISTRATOR

August 19, 2011

Ingrid Stenbjorn
Town Engineer
Ashland Virginia
101 Thompson Street
P.O. Box 1600
Ashland, VA 23005

Ms. Stenbjorn:

Hanover County operates under a phase II municipal separate stormsewer system (MS4) general permit (permit # VAR040012). Hanover County Schools operate under Hanover County's MS4 permit based on the MOU between Hanover County Schools and Hanover County.

The purpose of this letter is to notify you that of the potential for interconnections between the stormsewer systems operated under this MS4 permit at these school sites and the stormsewer systems operated by the Town of Ashland. The provisions of the MS4 regulations (4VAC50-60-1240 Sect. II B.3.g) require notification in writing to any downstream regulated MS4 if there are physical interconnections between the MS4s. This letter is provided to meet the notification requirement of the regulations. No actions are required on the part of the Town of Ashland.

If you have any questions regarding this matter, please feel free to call me at (804)365-6237.

Sincerely,

Michael J. Dieter
Civil Engineer II
Hanover County
Department of Public Works

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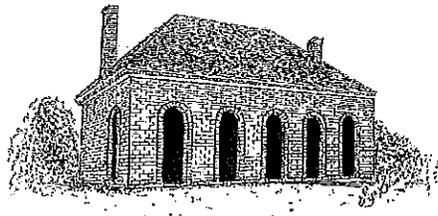
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COLD HARBOR DISTRICT



HANOVER COURTHOUSE

HANOVER COUNTY

ESTABLISHED IN 1720

CECIL R. HARRIS, JR.
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JAMES P. TAYLOR
ASSISTANT COUNTY ADMINISTRATOR

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P.O. BOX 470, HANOVER, VA 23069
7516 COUNTY COMPLEX ROAD, HANOVER, VA 23069

PHONE: 804-365-6005
FAX: 804-365-6234

April 6, 2012

Roy T. Mills
State Stormwater Program Administrator
Location and Design Division
Department of Transportation
1401 East Brad Street
Richmond, VA 23219-2000

Subject: MS4 Permit, Interconnected Stormwater Systems

Mr. Mills:

The purpose of this letter is to acknowledge the potential for interconnections between the storm sewer systems operated by Hanover County (permit registration number VAR040012), and the storm sewer systems operated by VDOT (permit registration number VAR040115). The provisions of the MS4 regulations (4VAC50-60-1240 Sect. II B.3.g) require notification in writing to any downstream regulated MS4 if there are physical interconnections between the MS4s. Although the potential for interconnections between our systems is obvious, this letter is provided to meet the formal notification requirement of the regulations. We received a similar letter from you on behalf of VDOT providing this required notification dated June 30, 2010.

We also want to express our appreciation for your meeting with our staff on March 22, 2012 to discuss working together to address areas of overlapping responsibilities and requirements impacting our MS4s. We believe that it is to our mutual benefit to continue to share data and information whenever applicable to ensure efficient use of our limited resources to address MS4 requirements, and we look forward to continuing to work with VDOT.

It is important to acknowledge and build on our foundation of ongoing cooperation with respect to the following MS4 related activities:

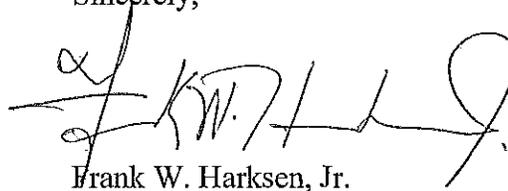
- Litter Pickup – VDOT is responsible for our roadway maintenance. To improve the appearance of the county and prevent litter pollution, Hanover County performs and coordinates litter pickup on many affected roadways in the County. VDOT has assisted with these activities by picking up bags left along the highway after these activities are complete. In addition, VDOT's ongoing litter pickup and mowing activities are very important and we would like to see these increased back to past levels as MS4 activities are contemplated.

Roy T. Mills
MS4 Permit, Interconnected Stormwater Systems
April 6, 2012
Page 2.

- Street sweeping - To support cleaner roadways, Hanover County performs street sweeping on select roadways. VDOT has participated in this activity by providing assistance with safety measures for street sweeping efforts. We believe this should continue to be a priority as VDOT considers its MS4 program activities.
- Outfall Inventories and Monitoring – Hanover County has worked to establish comprehensive inventory and inspection of our MS4 outfalls including many located within VDOT right-of-ways and/or impacted by stormwater through our interconnected systems. We should cooperate where possible to minimize duplication of effort and reduce cost to our citizens.
- Interconnected MS4 Boundary Delineation – We trust we will be able to cooperate in the delineation and definition of our systems and measures to meet required pollutant reductions in order to lower cost to our citizens.
- Ongoing program implementation – VDOT and Hanover County have a history of cooperation and joint ventures for pollution control, litter control, public education and roadway improvements. These practices should be continued and enhanced where it improves implementation and lowers cost. We look forward to continued enhancement in this relationship.

If you have any questions regarding this matter, please feel free to call me or Mike Flagg our Director of Public Works at (804)365-6179.

Sincerely,



Frank W. Harksen, Jr.
Deputy County Administrator

CC: Cecil R. Harris, Jr., County Administrator
J. Michael Flagg, Director of Public Works

Appendix H – Illicit Discharge Spreadsheet

Illicit Discharge Complaint Tracking Form

Complainant Reported By	Issues	Subdivision	Address	Engineer	Date Received	Date Inspected	Date Resolved	Priority	Enforcement Action	Type of Resolution	IN MS4	
Lead Coordinator - Deputy Fire Marshall	Contractor washing exhaust venting and discharging to ground.	None	10300 Lakeside Parkway, Suite 109	MJD	5/4/2009	5/26/2009	5/5/2009	Low	Warning	Fire Marshall and I both explained to the shop owner and the contractor that discharge to storm sewer was not permitted.	Yes	
Chris Stemp - Battalion Chief, Deputy Fire Marshall	Fuel spill by delivery contractor at Patrick Henry HS outdoors	None	9240 Patrick Henry Rd, Ashland, VA 22905	MJD	5/12/2009	5/12/2009	5/12/2009	High	Report responsible for the spill was identified and cleanup with County maintenance under the Virginia Fire Prevention Code Section 203.3.1	A cleanup contract is now active. 05/12/2009 and will be managed by Spoke for River Piedmont the owner. Fire prevention company was responsible for the spill. The spill has been reported. Mr. Cain and Mr. Ashby who stores were on site. I checked with DEQ to assure cleanup of tank. DEQ has indicated that the tanks have been removed.	No	
Chelan	Historic automobile fuel tanks in river	None	Adjacent to Dog, Rock and Bay 8209 Mechanicsville Turnpike	MJD	N/A	N/A	7/12/2009	Low	Tanks removed		No	
F2010 Jonathan Wingfield - Hanover County Deputy Fire Marshall	Grease and water discharge due to cleaning ryes outdoors	None	KFC, 7081 Mechanicsville Turnpike	MJD	9/12/2008	N/A	12/16/2009	High	Required submission and implementation of SWPPP plan consistent with provisions in County ordinance.	Site visit 10/22/2009 with Matt Englehart with public utilities. Business has installed water recycling equipment to filter fines from water so it can be reused in cutting equipment.	Yes	
Mike Hagg - Director of Public Works	Discharge of water mixed with storm lines	Arpark	Natural Marble and Granite, 10078 Richmond Road	MJD	9/9/2009	9/29/2009	10/22/2009	Low	None - Assist with proper management of water		Yes	
Mike Deiter	Homeowner Dumping grass clipping in drainage/sway	Middlemore	John Wheatley Industrial Drive	MJD	12/3/2009	12/3/2009	12/4/2009	Low	None - Sent letter regarding proper waste mgmt.	None - Sent letter regarding proper waste mgmt.	No	
Marcus Allen VDH/Fandy Marshall Building Inspectors	Discharge of Sewage	Patrick Henry Heights	9477 Wheeling Road	MJD	2/3/2010	2/3/2010	2/3/2010	Low	None - Health department and building inspectors to resolve issue of overflowing grinder pump with home owner	Building inspectors to issue stop work order and work with homeowner to resolve building code violations.	Yes	
Anonymous	Pipe in ditch may be discharging sewage	Forest Lake Hills	11042 Palmetto Circle	MJD	3/23/2010	3/25/2010	3/31/2010	LOW	None	Marcus Allen confirmed that a Groundwater Interceptor was installed at the home and is part of the permitted septic system.	No	
Ann Balarman	Oil spill at intersection of Robin Way and Brandy Creek Drive		7393 Brandy Creek Drive	MJD	4/15/2010	N/A	4/15/2010	Low	None	Referred to the Marshall for Clean up. Spoke with Chief Stemp who indicated they would place absorbent, sweep up and ROW. Chief Stemp indicated that the spill was small and there was no discharge to stormwater infrastructure or surface waters.	Yes	
Vivian Bowers	Grass clippings in ditch	Berkley Forest	9238 Wyntonwood Road	MJD	4/14/2010	4/20/2010	4/20/2010	Low	Left files for all properties adjacent to the ditch	Left files for all properties adjacent to the ditch	Yes	
Michael Sheppard	Concrete in ditch	Arpark	10366 Lakeside Road	MJD	5/14/2010	5/19/2010	5/19/2010	Low	Spoke with the business and get them know what the storm sewer system was not allowed.	Asked the owner to stop the discharge. They indicated that they would fix the gutter system. I asked them to call when they were installed.	Yes	
F2011 Jonathan Wingfield	Discharge for car washing entering storm sewer	None	7005 Mechanicsville Turnpike	MJD	1/08/2010	9/20/2010	10/12/2010	Low	None	Letter sent notifying that car washing was against County ordinances. Will follow up as needed with the store manager.	Yes	
Brian Sulzer	Neighbor Boring Leases into Lake	Wahout Grove	7042 W. Aggro Court	MJD	1/12/2010	N/A	1/12/2010	Low	None	Send resident letter notifying them of requirements to dispose of leaves properly.	Yes	
Conny Staff	Washing equipment into storm drain	None	7251 Ball Creek Road	MJD	2/7/2011	2/7/2011	2/7/2011	Low	None	Spoke with Steven Oliver 559-7333-385 equipment rental manager to determine what actions can be taken to ensure that sediment does not enter the storm drains adjacent to the equipment rental area.	Yes	
David Taylor	Ditch is an item investigating impacts to drainage corridors to Beaverdam Creek. He discovered a disconnected sanitary lateral.	Spring Meadows	7186 Hurricane Circle	MJD	2/25/2011	2/25/2011	3/1/2011	High	Referred to health department for investigation and resolution.		Yes	
Anonymous	Grease dumping in storm drain system by China Wok	Hanover Commons Shopping Center	China Wok, 5602 Chamberlayne Rd # 201	MJD	3/3/2011	3/7/2011	3/7/2011	Low	Investigation by Fire Marshall	Under investigation. Spoke with manager he indicated he would engage a septic company. He indicated that he would investigate and look out the owner restaurant. Other issues are with DEQ	Yes	
Steve Marks DEQ	Resistant to proper dumping and waste management issues	None	5809 Chancy Grove Road	MJD	3/8/2011	3/8/2011	3/29/2011	Low	Investigation by DEQ, Fire Marshall one		Yes	
F2012 Pete Crow	Coal Wails	Coal Wails		MJD	7/14/2011	7/14/2011	7/14/2011	Low	Send letter to adjacent owners regarding proper disposal of pet waste	Letter sent notifying that car washing was against County ordinances. Will follow up as needed with the store manager.	Yes	
Anonymous	Cracker Barrel pressure washing parking lot areas	None	7257 Ball Creek Road	MJD	11/11/2011	11/15/2011	11/15/2011	Low	Discussed alternatives to store manager	Pressure washing outdoor areas	Yes	
Anonymous	Complaint indicated odor from storm drain inlet at 5683 Kings Charter Drive. Call indicated they suspected Discharge of carwash water and storm drain	None	9653 Kings Charter Drive	MJD	11/29/2011	11/29/2011	1/29/2011	Low	None. No odor was detected at the time of inspection during an active rain event.	Talk to John Burnett about cleanup on storm drains in this shopping center. Also discuss venting/dry weather to be referred to Tim Wilson with zoning enforcement. Tim to inspect the site.	Referred to Tim Wilson with zoning enforcement. Tim to inspect the site. Discussed with facility owner regarding proper disposal of cleaning solutions. He indicated we had talked in 2010. Discussed no thing other than stormwater in storm drain. I asked to owners and left materials for proper disposal.	No
Steve Chelley	Cleaning solutions appear to be dumped in storm drain	None	7500 Jackson Arch Drive	MJD	2/20/2012	2/22/2012	2/22/2012	Low	Make with owner to discuss	Discussed with facility owner regarding proper disposal of cleaning solutions. He indicated we had talked in 2010. Discussed no thing other than stormwater in storm drain. I asked to owners and left materials for proper disposal.	Yes	
Mike Hagg - Director of Public Works	Appear to be illicit discharge in Signal Hill Commercial area (Williams Bakery)	None	3000 Mechanicsville TP	MJD	2/22/2012	2/22/2012	2/22/2012	Low	None	Fire Marshall coordinated response with Steve Marks of DEQ and VDACS	Yes	
Mike Hagg - Director of Public Works	Water spill from all plaza - Residual Spill Due to broken valve on fire tank	None	7000 Mechanicsville Turnpike	MJD	4/28/2012	4/28/2012	4/28/2012	Low	None	Contacted Atlantic Plumbing who was working with VDOT to clean out storm sewer. Residual issue with company and Marshall Wm of VDOT	Yes	
Christa Kemp	Discharge to stormwater ditch	Bruce Estates	7255 Ann Casell Lane	MJD	5/31/2012	05/31/2012	5/31/2012	Low	None	Management company with design done to clean stormwater and collect/cleaning water for disposal. Wash water to be collected and disposed at RECO	Yes	
F2013 Whitney Pederson, Public Utilities	Water and grease stains being restaurant	Northcross Shopping Center	10300 Lakeside Parkway	MJD	11/21/2012	11/21/2012	11/30/2012	Low	Letter sent to property owner and restaurant		Yes	
David Taylor	Odor from Storm Sewer	None	10040 Siding Hill Road	MJD	1/14/2013	1/14/2013	1/14/2013	Low	None	None	No	
David Taylor	Pool from Park Potential Illicit Discharge	Hanover Farms	56400 Siding Hill Road	MJD	3/4/2013	3/4/2013	3/4/2013	Low	None	None	No	
Paul Czizen	Paint/bleach in the Street	None	56400 Siding Hill Road	MJD	4/23/2013	N/A	4/23/2013	Low	None	None	No	
Paul Czizen	Car Wash	Fire Mart	8202 Chamberlayne Rd	MJD	9/29/2013	NA	10/9/2013	Low	None	None	Yes	
F2014 Kings Charter HOA	Dumping rise from painting into storm drain (also)	Kings Charter	10686 Aspen Grove Terrace	MJD	9/18/2013	10/9/2013	10/9/2013	Low	None	Spoke to and sent letter to home owner advising of proper disposal of paint and proper clean up from painting	Yes	

John Saunders	Public Health Auto discharge by public sewer	NA	9004 Shady Grove Road	MAD	10/23/2013	10/28/2013	11/14/2012	LOW	NOV	NOV letter sent. Owner agreed to stop discharge.	Yes
John Saunders (DPW)	Issue for garage floor was rained into storm sewer	Meredith Place	7756 Homespice Court	APM	1/03/2014	10/3/2014	1/03/2014	LOW	Phone Call to homeowner	Informed owner about best permit responsibilities and educated him on how to prevent future discharges. Homeowner agreed to stop discharging into storm sewer.	Yes
Edi Amerfront (DPW)	Car Wash	N/A	7006 Mechanicsville Turnpike	APM	10/14/2014	10/14/2014	10/14/2014	LOW	None, discharge was minimal	Spoke to branch manager about proper use of the car washing area	Yes
Mike Deier	Stone wash discharge	N/A	11211 Washington Highway (Absolute)	APM	1/15/2015	1/15/2015	1/15/2015	LOW	Made with owners to discuss	Spoke to owners about upgrading their water recycling system.	2010
Mike Deier	Dry weather discharge into Storm Sewer	N/A	Stony Washington Highway	APM	5/4/2015	5/4/2015	5/4/2015	LOW	None. Call in VDOT ROW.	Send VDOT information on the outlet for resolution.	2010
Mike Deier	Drum washer discharge into storm sewer	Meredith Place	8182 Ames Avenue	MAD	5/4/2015	N/A	5/4/2015	LOW	Letter sent to homeowner	Letter sent informing homeowner about illicit discharges	Yes
VDOT	Sign/petroleum stain, as well as some white globules in the outlet	Highland Industrial Park	10450 Success Street	APM	5/18/2015	5/21/2015	5/21/2015	LOW	Made with Ed Cooper - Transportation Manager - 804-798-1500 ex. 7729	Informed about preventing illicit discharges to the storm sewer and good housekeeping procedures. Follow-up email was sent with information on how to prevent future discharges to the storm sewer.	Yes
Jeremy Kazo (DEC) & Mike Hcdman	Report of dumping into bucket, washing filters, and other fluids into drainage ditch	N/A	11010 Airport Road, Ste. E	APM	6/3/2015	6/6/2015	6/4/2015	LOW	Made with Isaac Duffie - Manager - 804-427-4272 ext. 804-577-5170	VDOT inspectors and spill prevention info. Follow-up email was sent with information on how to prevent future discharges to the storm sewer.	2010
David Bauer (VDH)	Report that Freedom RV is dumping sewage waste onto ground surface	N/A	11256 Old Telegraph Road	APM	7/9/2015	N/A	7/9/2015	LOW	None, handled by VDH.	NOV letter was sent to the business owner by VDH. VDH will pursue any follow-up regarding the situation.	No
Danise Ryan (337-9594, mandayr@amzn.net, mryr@bcs.com) (736-1546)	Report of neighbor dumping pet waste into storm drain	Bulls at Ball Creek	7400 Dress Blue Circle	APM	7/31/2015	8/3/2015	8/4/2015	LOW	Site visit revealed no evidence of pet waste in storm sewer.	Pursue info sent to HOA president to help educate homeowners about dumping / illicit discharges.	No
Matthew Beckwith (736-1546)	Report of truck dumping, possibly septic, into Matthews Creek	N/A	Intersection of Matthews Creek and Gaddis Hill Road off Rt. 54	MAD	9/17/2015	9/18/2015	9/18/2015	LOW	Site visit revealed no evidence of dumping	VDOT inspectors and spill prevention info. Follow-up email was sent with information on how to prevent future discharges to the storm sewer.	No
Dariusz Gray (dgrayw@tmail.com)	Stone wash discharge	Norlake	10530 Norfolk Park Drive (Granite Source)	APM	9/24/2015	9/24/2015	9/24/2015	LOW	Made with shop manager to discuss not discharging to storm sewer.	NOV Letter Sent, response received 10/9/15. Changing parts to equal filtration system.	Yes
Alex Mease	Dumping garbage into storm sewer	N/A	7420 Ball Creek Road (Outback Steakhouse)	APM	10/1/2015	10/1/2015	10/23/2015	LOW	Confined Space entry revealed illegal dumping. Owner was contacted.	Email sent to property owner, lease notified to clean storm sewer. Storm sewer was cleaned.	Yes
Jeremy Kazo (DEC)	Dumping liquid (beer scent/bottle) into storm sewer	N/A	8523 Walsododge Road, Unit 200	MAD	10/15/2015	N/A	10/16/2015	LOW	None, dumping to private system which does not connect to storm sewer.	NOV letter was sent by DEC.	Yes
Public Utilities	Dumping fuel system cleaner into roadside ditch	N/A	104 Archdale Road	APM	10/16/2015	10/20/2015	10/21/2015	LOW	Site visit / letter sent to homeowner	Letter sent informing homeowner about illicit discharges	No
Steven Phillips (Fire Marshal's Office)	A truck pulling up curbed/dumped its load next to the drop inlet when it realized the curbed inside the vehicle was on fire	N/A	9178 Chamberlayne Road	LMS	11/30/2015	11/30/2015	11/30/2015	LOW	None, no illicit discharge observed.	Fire Dept. put boom around drop inlet to mitigate runoff from fire fighting activity. No free-flowing liquids or petroleum runoff from dumping was observed.	Yes
Steve Bruce (Resource Int'l)	Report of mobile car washing runoff entering the storm sewer	N/A	9071 Sliding Hill Road	APM	1/14/2016	1/19/2016	1/20/2016	LOW	Made with tenants to discuss not discharging to storm sewer.	Letter sent to tenants and owner informing about illicit discharges and proper car washing.	Yes
John Saunders (DPW)	Report of car washing in the parking lot near storm sewer	N/A	9025 W Washington Henry Drive	MAD	2/26/2016	2/25/2016	2/25/2016	LOW	None	Guidance sent to Shop about proper vehicle washing.	Yes
Steve Chisley (DPW)	FOG container dumping into parking area	N/A	9002 Chamberlayne Road	APM	3/17/2016	3/18/2016	3/21/2016	LOW	Made with restaurant manager.	Informed about preventing illicit discharges to the storm sewer and good housekeeping procedures. Follow-up letter sent. Manager sent notice of changed container.	Yes
Edi Buzzell (HCRS)	FOG container spilled into parking lot	N/A	10307 Chamberlayne Road	APM	4/28/2016	N/A	4/27/2016	LOW	None, spillage with HCRS and the spill was maintained.	Guidance sent to Shop about proper vehicle washing.	No
Steve Chisley (DPW)	Dumpster plug missing and was slipping into parking area after dumpster cleaning.	N/A	9002 Chamberlayne Road	APM	5/10/2016	5/10/2016	5/10/2016	LOW	Made with store manager.	Informed about preventing illicit discharges to the storm sewer and property owner. Store to plug/dumpster or order new one.	Yes

Appendix I – E&S Certifications

#	Last Name	First Name	Certification Type	Certification #	Expiration Date	Dept
1	Ashley	Brad	E&S / SWM Inspector	5362 / SWIN0283	5/31/2017 / 6/23/2018	PW
2	Breckenkamp	Bob	Dual Combined Administrator	DCA0161	6/19/2018	PW
3	Cornwell	Jared	E&S / SWM Combined Administrator	548 / SWCA0199	5/31/2018 / 6/5/2018	PW
4	Cypher	Aaron	E&S / SWM Combined Administrator	6216 / SWCA0274	11/30/2016 / 11/12/2018	PW
5	Dieter	Mike	Dual Combined Administrator	DCA0157	5/7/2018	PW
6	Duffey	John	E&S Comb Admin / SWM Inspector	742 / SWIN0298	5/31/2017 / 7/16/2018	PW
7	Duvall	J.D.	E&S Inspector	3643	5/31/2019	BI
8	Eutsey	Mike	E&S Inspector	6165	11/30/2019	BI
9	Flagg	Mike	E&S / SWM Combined Administrator	160 / SWCA0302	5/31/2017 / 1/22/2109	PW
10	Gentilini	Brian	E&S Inspector	5592	5/31/2018	BI
11	Germain	Larry	E&S Inspector	3271	11/30/2017	BI
12	Hardman	Randy	Dual Combined Administrator	DCA0162	6/18/2018	PW
13	Huffman	Wayne	E&S Inspector	792	11/30/2017	PW
14	Kramer	Scott	Dual Combined Administrator	DCA0101	9/12/2017	PW
15	Marchetti	Andy	E&S Inspector	2884	11/30/2019	BI
16	Mease	Alex	Dual Combined Administrator	DCA0185	10/7/2018	PW
17	Myers	Al	E&S Combined Administrator	569	5/31/2018	PW
18	Newsome	Warren	E&S Inspector	6184	11/30/2016	BI
19	Shurley	John	E&S Inspector	2824	11/30/2019	BI

LAST
UPDATED
7/1/2016

Appendix J – Total Land Disturbance Report

Year	Month	Locality	Project Title	Project Address	Owner/Applicant	Owner/Applicant Address	Owner/Applicant Contact No	Approval Date	Total Disturbed Acreage	Enforcement Action	Notes
2015	July	Hanover	5133 Laurel Meadow - BMP	Laurel Meadow School	Everett Traudway	12108 Washington Highway	804-798-5508	7/10/2015	1.38	No	VSMPP Obtained
2015	July	Hanover	5203 Jordan's Estate Section 3, Lot : 8717-19-9607-6	9577 Albee Station Road	Jacob Porter	11400 Rosebud Bend Ln apt 211 GI, 804-441-3991	804-441-3991	7/19/2015	0.84	No	N/A
2015	July	Hanover	5178 Summer Duck Section 2	14153 Boonhook Lane	Terry Cate	9245 Shady Grove Rd, Suite 200, MC, 804-447-6538	804-447-6538	7/22/2015	25.5	No	VSMPP Obtained
2015	July	Hanover	4874 Cavalier Gun Dam Repair	Mountain Run Subdivision	Edward Coleman	14151 Boonhook Lane, po box 174 IV, 804-337-8632	804-337-8632	8/12/2015	4.69	No	VSMPP Obtained
2015	July	Hanover	5062 Mountain Run Section 5	varies City, Shark Creek	Chris Gilman	13030 Palmers Way, Glen Allen 230 804-690-8322	804-690-8322	8/20/2015	13.1	No	VSMPP Obtained
2015	August	Hanover	5181 Strawberry Creek Sewer	11625 Lakeridge Parkway	Gary Dempsey	P.O. Box 381 Catharpin, Va 20143	804-882-1515	8/20/2015	3.29	No	VSMPP Obtained
2015	August	Hanover	5197 Winding Brook Fairfield Inn	10511 Old Ridge Road	David Hanley	14605 Chazemont Road	804-752-1270	9/10/2016	0.9	No	N/A
2015	September	Hanover	5147 Powertrain Controls Solution	10511 Old Ridge Road	Terry Turner	10511 Old Ridge Road	804-752-6032	9/10/2016	0.9	No	N/A
2015	September	Hanover	5166 Lurton Building Improvement	1120 sun shade lane	Dana White	11008 Richardson Road, Ashland	804-673-8800	9/16/2015	0.39	No	N/A
2015	September	Hanover	5207 Mabelton Cell Tower	18373 Mountain Road	Stephen Gallagher	5413 Paterston Ave, Richmond	804-673-8800	9/25/2015	0.98	No	N/A
2015	September	Hanover	5171 Jordan Estates, Sect3, Lot acres Jordan Estates	8333 Old Richmond Rd	Jacob Porter	11400 Rosebud Bend Ln, apt.211 GI, 804-441-3991	804-441-3991	9/24/2015	4.66	No	N/A
2015	October	Hanover	5204 Virginia Steel Specialties	11289 Washington Hwy	Michael Lane	8444 Old Richmond Road	804-442-4200	10/9/2015	4.1	No	VSMPP Obtained
2015	October	Hanover	4863 Heritage Green	8715-82-1784	Eric Smith	400 Charles Street, Fredericksburg	540-379-4831	10/6/2015	0.86	No	N/A
2015	October	Hanover	5170 Deerfield Subdivision	11345 Old Ridge Road	Daniel Harris	4701 Snowmass Rd, Glen Allen	804-467-6872	10/16/2015	6.2	No	VSMPP Obtained
2015	October	Hanover	5202 First Capital Bank and Betterme 6236 Mechanicsville Trmp	11284 Old Telegraph Rd	Robert McCann	4900 Augusta Ave, Suite 120, Richr	804-221-9227	10/16/2015	0.82	No	N/A
2015	November	Hanover	5175 Harper Industrial Center	11284 Old Telegraph Rd	Kenneth Harper	P.O. Box 2410 Mechanicsville VA	804-363-7429	10/21/2015	4.4	No	VSMPP Obtained
2015	November	Hanover	5152 Autozone Store #6455	8001 Compass Point Lane	Curtis Sigler	123 S. Front St, Memphis Tenn	901-485-8717	11/16/2015	0.86	No	VSMPP Obtained
2015	December	Hanover	5193 Garrison Manor	8131 Suidley Road	Gary Dempsey	126 Village Drive, Bumpass, VA	703-866-7788	12/21/2015	51.1	No	VSMPP Obtained
2015	December	Hanover	5189 Tweedle Residence RLD updati 7749-58-7575	16209 Iron Hill Drive	Donald Gweeidle	12995 Tremble Dr, Woodbridge	571-253-1798	Original Permit 4-17-201	1.48	No	N/A - Subject to GP
2015	January	Hanover	5211 Kings Dominion -2016 Expansik Theme Park Way, Doswell	16600 Mountain Road	Cliff Dean	16000 Theme Park Way, Doswell	804-876-5215	12/29/2015	2.1	No	VSMPP Obtained
2016	January	Hanover	5208 Dolter General Montpelier	16600 Mountain Road	Scott Oconnel	2150 Carter Galler Blvd, Suite e Pox, 804-897-0143	804-897-0143	1/13/2016	1.4	No	VSMPP Obtained
2016	January	Hanover	5216 Cook Out Restaurant	7114 Mechanicsville Turnpike	Chris Clayton	8312 Creedmoor Road, Raleigh	919-848-6121	2/9/2016	0.27	No	N/A
2016	February	Hanover	5205 ICSE Phase III	10391 Leadbetter Road	Chris Tinsley	10391 Leadbetter	804-550-5770	2/12/2016	0.9	No	N/A
2016	February	Hanover	4795 C001 Spring West Sec 3	C003 Spring Road	Ric Rowland	9608 Paragon Place, Suite 300	804-516-7463	2/29/2016	14.6	No	VSMPP Obtained
2016	February	Hanover	5229 301 Nursery	10402 Chamberlayne Road	Kevin Martin	19001 Hill Street Road	804-514-9990	3/3/2016	0.95	No	VSMPP Obtained
2016	March	Hanover	5242 Thomas Residence	4285 Hermligh Lane	Rebecca Thomas	Hennico VA	804-673-9660	3/15/2016	0.75	No	N/A
2016	March	Hanover	5195 Cherry Grove Section 1	8107 Bell Creek Road	Terry Cate	9245 Shady Grove Rd, Suite 200, MC, 804-447-6538	804-447-6538	3/17/2016	26.8	No	VSMPP Obtained
2016	March	Hanover	5176 Taco Ball 30911 VCC	10255 Washington Hwy	David Elliot	6040 Six Forks Road #408	919-882-2061	3/18/2016	2.14	No	VSMPP Obtained
2016	April	Hanover	5235 Powers Residence	16209 Iron Hill Drive	George Wagner	Blue Ridge Homes	804-205-6675	4/5/2016	1.9	No	N/A
2016	April	Hanover	5119 Homemakers Furniture	Bell Creek Road	Mike Ellis	Malls @Richmond Excavation	804-691-4982	4/17/2016	2.4	No	VSMPP Obtained
2016	April	Hanover	5063 Woodside Estates Sec. 4	13266 Slayden Circle	Larry Shala	9400 Charter Crossing B, Mechanics 804-339-8655	804-339-8655	4/28/2016	30.09	No	VSMPP Obtained
2016	April	Hanover	5209 Express Oil and Lube	7251 Bell Creek Road	Redley Bates	P.O. Box 105842 Atlanta, GA 30348	312-460-5290	4/21/2016	0.82	No	N/A
2016	April	Hanover	5248 Montpelier SWCC	15188 Chazemont Road	Hanover County	7516 County Complex Road	804-365-6181	4/21/2016	0.8	No	N/A
2016	May	Hanover	5192 Lurton	11520 Sun Shade Lane	Hanover County	11520 Sun Shade Lane, Ashland, VA	804-752-3300	5/11/2016	0.8	No	N/A
2016	May	Hanover	5239 Truck Source	11540 Fox Cross Road	Toy Technopong	11073 Washington Hwy, Glen Allen, VA	804-752-6079	5/23/2016	2.3	No	VSMPP Obtained
2016	May	Hanover	5213 Wendy's @ Rutland	9385 Albee Road	Dave Morsell	3310 Eagle Oak Dr. #205, Grand Ra	616-608-9049	5/20/2016	0.95	No	N/A
2016	May	Hanover	4941 Albee Rd Additional Turn Lanes	9177 Albee Road	Aaron Besmer	7516 County Complex Road	804-365-6181	5/17/2016	2.23	No	VSMPP Obtained
2016	May	Hanover	5215 Absolute Stone	11200 Washington Hwy.	VAl Ribeiro	11211 Washington Hwy, Glen Allen, VA	804-752-2001	5/11/2016	3.46	No	VSMPP Obtained
2016	May	Hanover	5227 Alton Chemical	11271 Central Drive	Thomas Gdward	11289 Central Drive, Ashland, VA	804-752-8420	5/5/2016	1.51	No	VSMPP Obtained
2016	May	Hanover	5258 Nut Shell Demolition	1 Message Drive	Hanover County	PO Box 470	804-365-6199	5/5/2016	0.5	No	N/A
2016	June	Hanover	5272 Carveny/Household Plan	12505 Auburn Mill Road	Ernest Cerveny	12505 Auburn Mill Road, Glen Allen, VA	252-333-2142	6/27/2016	0.88	No	N/A
2016	June	Hanover	5230 Hickory Hill Sec. 2 Amenity	7880-71-22393	Anthony Markel	589 Ice Pond Cove, Manakin-Sabot,	804-365-6181	6/28/2016	0.27	No	N/A
2016	June	Hanover	4863 Intersection Improvements at P 8434 Walnut Grove Road	11211 Williamsville Road	Hanover County	7516 County Complex Road	804-365-6181	6/23/2016	1.72	No	VSMPP Obtained
2016	June	Hanover	5265 Poplar Gate Sec. B	11211 Williamsville Road	E.C.C., Woods, Jr	6033 River Road, Hanover, VA	2308 804-746-3390	6/23/2016	2.6	No	VSMPP Obtained
2016	June	Hanover	5243 Overhill Drive Waterline Extens	13237 Overhill Drive	Hanover County	7516 County Complex Road	804-365-6021	6/23/2016	0.18	No	N/A
2016	June	Hanover	5255 Pebble Creek Storm Sewer Rel	81724-79-1347	Hanover County	7516 County Complex Road	804-365-6181	6/14/2016	0.17	No	N/A

Total Disturbance
234

Appendix K – Employee Training Attendance

Sign In Sheet

SPCC Annual Training

Hanover County

Friday November 6, 2015

Printed Name	Signature	Facility/Department
Hank Rompe		Public Works Propriet
SCOTT KRAMER		Public Works
Steve Childers		DPW
M. K. FRASER		DPW
Jason Burrows		Fire. Ems.
Ross Souler		General Services/Fleet

Sign In Sheet

SPCC Annual Training

Hanover County

Friday November 6, 2015

Printed Name	Signature	Facility/Department
Richard Amsheloe		DPW
MATT REMBOLD		DPD
Gary A. Craft, P.E.	George Craft	Public Utilities
Charles Smith	Charles C. Smith	Communications
DAVID GUSTON		Gen. Services #1#
Alex Mease		DPW

Appendix L - Program Approvals

Douglas W. Domenech
Secretary of Natural Resources



David A. Johnson
Director

COMMONWEALTH of VIRGINIA
DEPARTMENT OF CONSERVATION AND RECREATION

900 E. Main Street, 8th Floor, Pocahontas Building

Richmond, Virginia 23219-3558

Phone: (804) 225-3440 TOLL-FREE/TDD: 1-800-243-7229

FAX: 804-225-3447 WEBSITE: www.dcr.virginia.gov

December 17, 2012

Mr. Cecil R. Harris, Jr.
County Administrator
Hanover County
7516 County Complex Road
Hanover, Virginia 23069

Dear Mr. Harris:

On December 11, 2012, the Virginia Soil and Water Conservation Board conducted a compliance evaluation for Hanover County's Chesapeake Bay Preservation Act program for consistency with the Chesapeake Bay Preservation Act and Regulations. I am pleased to report that the Board found the County's Chesapeake Bay Preservation Act program to be fully compliant with the Chesapeake Bay Preservation Act and Regulations.

We appreciate the County's cooperation in undergoing a compliance evaluation of its local program and look forward to continuing to work to ensure that its Chesapeake Bay Preservation Act program continues to be compliant with the Act and Regulations. This letter also serves to formally make you aware that if you wish to appeal the Board's decision, Rule 2A:2 of the Supreme Court of Virginia allows 33 days from receipt of this letter for you to file a notice of appeal.

As always, if you have any questions or if we can be of any assistance, please contact your liaison, Ms. Shawn Smith at (804) 346-4081.

Sincerely,

A handwritten signature in blue ink, appearing to read "David A. Johnson".

David A. Johnson

c: Mr. J. Michael Flagg, Director of Public Works, Hanover County
Robert Bennett, Acting Director, Division of Stormwater Management, DCR
Virginia Snead, P.E., Manager, Office of Regulatory Programs, DCR
John R. McCutcheon, Training and Certification Program Manager, DCR
Joan Salvati, Program and Guidance Development, DCR
Shawn Smith, Principal Environmental Planner, DCR





COMMONWEALTH of VIRGINIA
DEPARTMENT OF CONSERVATION AND RECREATION

203 Governor Street
Richmond, Virginia 23219-2010
(804) 786-1712

December 17, 2012

Mr. Cecil R. Harris Jr.
Hanover County Administrator
Government Administration Building
7516 County Complex Road
Hanover, VA 23069

Re: Hanover County Erosion and Sediment Control Program

Dear Mr. Harris:

In response to information presented to the Virginia Soil and Water Conservation Board by the Department of Conservation and Recreation Staff on December 11, 2012, The Board approved the following motion:

“The Virginia Soil and Water Conservation Board commends Hanover County for successfully implementing the County’s Erosion and Sediment Control program to be fully consistent with the requirements of the Virginia Erosion and Sediment Control Law and Regulations, thereby providing better protection for Virginia’s soil and water resources.”

We congratulate Hanover County on this substantial accomplishment and recognize the County’s efforts to proactively protect Virginia’s soil and water resources through implementation of effective erosion and sediment control.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert Bennett".

Robert Bennett, P.E.
Acting Director, Division of Stormwater Management

cc: J. Michael Flagg, Director of Public Works
Shawn Smith, Principal Environmental Planner
Jacob Bauckman, DCR Stormwater Management Compliance Specialist
Darryl Glover, DCR Acting Richmond Regional Manager
Kenneth Harper, DCR Local Program Compliance Coordinator





COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Street address: 629 East Main Street, Richmond, Virginia 23219

Mailing address: P.O. Box 1105, Richmond, Virginia 23218

TDD (804) 698-4021

www.deq.virginia.gov

Douglas W. Domenech
Secretary of Natural Resources

David K. Paylor
Director

(804) 698-4020
1-800-592-5482

July 1, 2013

Frank W. Harksen, Jr, Deputy County Administrator
Hanover County
PO Box 470
Hanover, Virginia 23069

RE: General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems
General Permit No. VAR040012
Hanover County

Dear Permittee:

Department staff has reviewed your Registration Statement and determined that the referenced Municipal Storm Sewer System (MS4) is hereby covered under the General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems. The effective date of your coverage under this general permit is July 1, 2013, or the date of this letter, whichever is later. The enclosed copy of the general permit contains the applicable reporting requirements and other conditions of coverage.

During its 2013 Legislative Session, the General Assembly passed Chapters 756 (HB2048) and 793 (SB1279) which moved several programs from the Virginia Department of Conservation and Recreation (DCR) to the Virginia Department of Environmental Quality (DEQ). As a result of this legislative change, the General Assembly transferred the administration and oversight of the General Permit for Discharges from Small Municipal Separate Storm Sewer Systems from DCR to DEQ. Please submit future permit correspondence and your annual MS4 program reports to the DEQ Piedmont Regional Office at the following address:

DEQ Piedmont Regional Office
4949-A Cox Road
Glen Allen, VA 23060

The general permit will expire on June 30, 2018. The conditions of the permit require that you submit a new registration statement on or before April 1, 2018, if you wish to have continued coverage under the general permit.

If you have any questions about this letter or the general permit, please contact Ms. Emilee Adamson, Water Permits Manager, at (804) 527-5072 or Emilee.adamson@deq.virginia.gov.

Sincerely,

Melanie D. Davenport, Director
Water Division

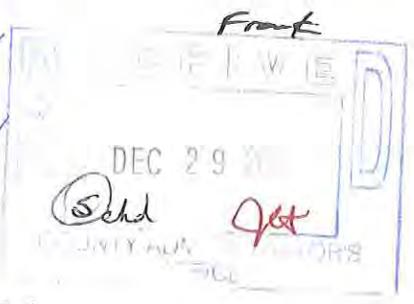
Enc. General Permit No. VAR040012

Cc. Emilee Adamson, DEQ-PRO





Mike
Flags
Nice work
Frank



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Street address: 629 East Main Street, Richmond, Virginia 23219

Mailing address: P.O. Box 1105, Richmond, Virginia 23218

www.deq.virginia.gov

Molly Joseph Ward
Secretary of Natural Resources

David K. Paylor
Director

(804) 698-4000
1-800-592-5482

December 22, 2014

Rhu Harris, County Administrator
Hanover County
P. O. Box 470
Hanover, Virginia 23069

Dear Mr. Harris:

In accordance with §62.1-44.15:27 G of the Virginia Stormwater Management Act (Act), the Department of Environmental Quality (DEQ) has completed the review of Hanover County's amended Virginia Stormwater Management Program (VSMP) application package submitted on December 2, 2014. Based on this review, DEQ has determined that the County's VSMP is consistent with the Act, the VSMP regulation and the General VPDES Permit for Discharges of Stormwater from Construction Activities.

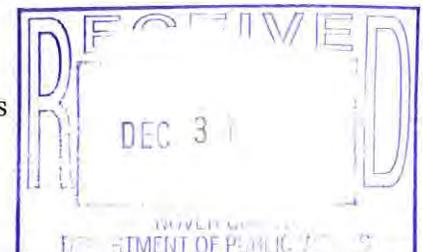
In light of this determination, DEQ approves Hanover County's VSMP and the County is authorized to operate a VSMP as of July 1, 2014. Please note that this approval is based on the content of the application package. Any changes made to the documents in the package after the approval date, including changes to the adopted ordinance, may necessitate DEQ evaluation as part of its compliance review of your approved VSMP.

Thank you for your cooperation in developing a VSMP. We look forward to continuing to assist the County with the implementation of its VSMP.

Sincerely,

David K. Paylor

- cc: Melanie Davenport, Director, Water Division
- Frederick Cunningham, Director, Office of Water Permits
- Joan Salvati, Manager, Office of Local Government Stormwater Programs
- Mike Flagg, Hanover County





COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY
Street address: 629 East Main Street, Richmond, Virginia 23219
Mailing address: P.O. Box 1105, Richmond, Virginia 23218
www.deq.virginia.gov

Molly Joseph Ward
Secretary of Natural Resources

David K. Paylor
Director

(804) 698-4000
1-800-592-5482

February 29, 2016

Frank W. Harksen, Jr.
Deputy County Administrator
Hanover County
PO Box 470
Hanover, VA 23069

Transmitted electronically: fwharksen@hanovercounty.gov

RE: Virginia Pollutant Discharge Elimination System (VPDES) MS4 Permit
VAR040012, Hanover County, Chesapeake Bay TMDL Action Plan Approval

Dear Mr. Harksen:

The Department of Environmental Quality (DEQ) has reviewed the Chesapeake Bay TMDL Action Plan received on September 24, 2015 in accordance with Section I.C of the General VPDES Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4). Additional information was received November 10, 2015, December 14, 2015, and February 11, 2016.

As submitted, the action plan will result in the following annual reduction of pollutants of concern:

Pollutant of Concern	Annual Load Reduction (lb/yr)	Percentage of L2 Reduction Achieved After Implementation
Total Nitrogen – James	262.60	14.72%
Total Nitrogen - York	219.95	30.31%
Total Phosphorus – James	53.31	17.23%
Total Phosphorus – York	281.66	201.19%
Total Suspended Solids – James	510928.57	308.33%
Total Suspended Solids - York	79276.16	154.46%

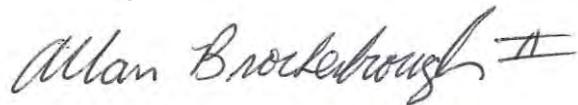
The Chesapeake Bay TMDL Action Plan is hereby approved and is an enforceable part of the MS4 Program Plan. The approved action plan is based on the 2000 Urbanized Area as designated by the U.S. Census Bureau; and reductions were calculated based on land use data from 2013. Please note that additional reductions may be required to address loads from expanded urbanized area as a result of the 2010 Census in accordance with Section II.C.5 of the MS4 General Permit.

Please note any modifications to the Chesapeake Bay TMDL Action Plan shall be made in accordance with the Program Plan Modification Section of the MS4 General Permit (Section II.F).

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty (30) days from the date you received this decision within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Virginia Department of Environmental Quality.

Please contact Jeff Selengut at (804) 698-4265 or at Jeffrey.selengut@deq.virginia.gov if you have any questions.

Sincerely,



Allan Brockenbrough II, P.E.
Manager, Office of VPDES Permits

Copies: File

Michael J. Dieter (mjdieter@hanovercounty.gov)

Appendix M – EPA Certificate of Appreciation

ENVIRONMENTAL PROTECTION AGENCY
REGION III OFFICE of NPDES PERMITS and ENFORCEMENT

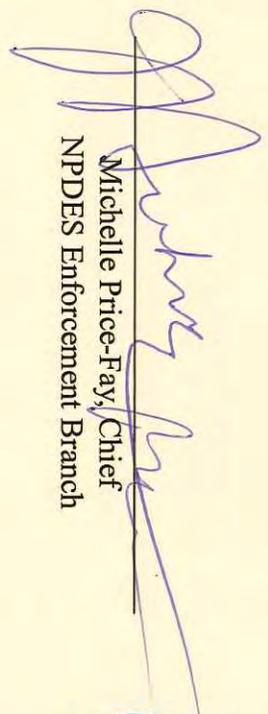
Certificate of Appreciation

PRESENTED TO

Hanover County
Department of Public Works

In Support of EPA's 2015 Virginia MS4 Forum

May 14, 2015


Michelle Price-Fay, Chief
NPDES Enforcement Branch




Andrew Dinsmore, Leader
NPDES Stormwater Team

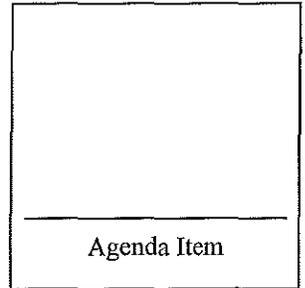
Appendix N – Memorandum of Understanding (MOU)

Annual Turf Fertilizer Reporting Tool

Hanover County
P.O. Box 470, Hanover VA

Report Year: 2015
Submitted: 1/20/2016 12:00 PM (wed)

Zip Code	Locality	Amount	Measure
23005	Hanover (County)	25.74	Acres
23069	Hanover (County)	10.50	Acres
23111	Hanover (County)	11.02	Acres
23116	Hanover (County)	43.19	Acres
23192	Hanover (County)	1.50	Acres



County of Hanover

Board Meeting: February 12, 2014

Subject: Approval of Updated Memorandum of Understanding – Department of Public Works - Agreement between Hanover County and Hanover County School Board, Municipal Separate Storm Sewer System (MS4) Permit

Summary of Agenda Item: On February 13, 2013 the Board of Supervisors authorized the execution and filing of a general permit (No. VAR040012) registration statement for Small Municipal Separate Storm Sewer Systems (MS4) for Hanover County. This registration statement and permit covers a five year period beginning July 1, 2013. This permit is required by state and federal law as mandated by section 402 of the Federal Clean Water Act. This requirement is intended to reduce to the “maximum extent possible” sources of pollution runoff from land use such as residential, commercial developments and public lands, vehicles, equipment and urban nonpoint sources of pollution. The permit now includes special provisions for Total Maximum Daily Loads including the Chesapeake Bay.

Changes in the new permit necessitate updating of the current MOU with the School Board. During the previous general permit cycle, the Department of Public Works and School Board staff identified the need to formalize certain relationships between the County and School Board. A Memorandum of Understanding (MOU) was approved and executed to formalize the School Board’s relationship with the County’s MS4 permit in 2011. The MOU addresses responsibilities under the permit and establishes a framework for collaboration and sharing of resources to implement the current terms of the MS4 permit.

The attached updated MOU has been reviewed and approved by the Department of Public Works, School Board Staff and the County Attorney’s Office. This agreement will be approved by the School Board prior to execution.

County Administrator’s Recommendation Board Motion: Motion to approve the updated Memorandum of Understanding between Hanover County and the Hanover County School Board and authorize the County Administrator to take all actions necessary to implement the agreement.

MEMORANDUM OF UNDERSTANDING

between

HANOVER COUNTY

and

HANOVER COUNTY SCHOOL BOARD

This Memorandum of Understanding (MOU) is entered into by Hanover County, a political subdivision of the Commonwealth of Virginia (“the County”) and the Hanover County School Board (“School Board”) (collectively the “Parties”). The purpose of this agreement is to set out the understandings of the Parties with regard to compliance with the Municipal Separate Storm Sewer System (MS4) permitting program under Hanover County’s General Virginia Pollutant Discharge Elimination System (VPDES) Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems, #VAR040012 (“the general permit”).

RECITALS

The MS4 permit is administered by the County according to the provisions of the general permit, 9 VAC 25-890-40. The permit is administered at the state level by the Virginia Department of Environmental Quality (DEQ) according to the requirements of 40 CFR 122 and associated federal laws, policies and regulations derived from the Clean Water Act.

The terms of the general permit include special conditions for incorporating total maximum daily loads (TMDL) other than the Chesapeake Bay TMDL. These provisions require the County to develop and implement TMDL action plans for pollutant reductions allocated to the MS4.

The terms of the general permit include a special condition for the Chesapeake Bay TMDL. These provisions require the County to develop and implement a Chesapeake Bay TMDL action plan to reduce pollutants according to the provisions of Virginia’s Phase I and Phase II Watershed Implementation Plan (WIP).

The terms of the general permit require the County to update its MS4 program plan and implement the plan according to the schedule provided in the general permit. The schedule requires the submission of various plans to address the six minimum control measures as follows:

- Public education and outreach on stormwater impacts.
- Public involvement and participation.
- Illicit discharge detection and elimination.

- Construction site stormwater runoff control.
- Post-construction stormwater management in new development and redevelopment.
- Pollution prevention and good housekeeping for municipal operations.

The MS4 program plan must identify measurable goals designed to address the six minimum control measures. The goal of this MOU is to fully implement the MS4 program plan with respect to School Board property and cooperatively address the requirements of the general permit.

AGREEMENT

For mutual benefits the Parties agree to cooperate according to the procedures outlined in this agreement to meet the requirements of the general permit.

1. The County agrees to:

- a. Serve as the permittee for the implementation of the MS4 general permit.
- b. Develop appropriate materials in cooperation with the School Board as required under the general permit or as may be required by DEQ or the Environmental Protection Agency (EPA) including, but not limited to permit registration materials and MS4 program plan updates and documentation, TMDL action plans, annual reports, guidance, policies, inspection records, monitoring records, and ordinances.
- c. Implement the requirements of the MS4 program in cooperation with the School Board.
- d. Maintain information on all outfalls on School Board property within the MS4 program area and perform dry weather inspections of all outfalls, to report any deficiencies noted during the inspections or suspected illicit discharges to School Board administration, and cooperate with the School Board for resolution.
- e. Map outfalls on School Board property within the MS4 program area (the areas of the County which are regulated).
- f. Maintain information on all stormwater basins on School Board property within the MS4 area, perform inspections of all such stormwater basins, report to the School Board administration any deficiencies noted during the inspections, and cooperate with the School Board for resolution.
- g. Work cooperatively with the School Board to develop good housekeeping and pollution prevention policies and guidance as needed to ensure there is no illicit discharge.
- h. Identify the County personnel who are responsible for implementation of the MS4 program to serve as contact points and be responsible for implementation of the MS4 general permit on behalf of the County.

2. The School Board agrees to:

- a. Implement the MS4 program plan and TMDL action plans for all School Board property located within the MS4 program area.
- b. Assist with the development of materials and policies as may be required under the provisions of the MS4 general permit as they apply to all School Board property located within the MS4 program area.
- c. Implement MS4 policies as applicable in cooperation with the County.
- d. Correct any deficiencies noted through facility inspections, outfall inspections and stormwater basin inspections.
- e. Coordinate access of County personnel to School Board property sites for the purpose of implementation of the MS4 general permit.
- f. Implement pollution prevention and good housekeeping policies and guidance, and develop and implement other policies as needed to ensure that there are no illicit discharges.
- g. Identify School Board personnel responsible for implementation of the MS4 program who will serve as contact points and will be the responsible parties for the School Board with respect to implementation of the MS4 general permit on School Board property.

3. The Parties agree that key activities for compliance are the following:

- Public education and outreach on stormwater impacts.
 - The County and the School Board will cooperate regarding development and implementation of educational activities that are intended to address stormwater pollution.
- Public involvement and participation.
 - According to the schedule in the general permit, the County is required to reevaluate program goals and practices and update the MS4 program plan. The County and the School Board will cooperate in this process.
 - A current copy of the MS4 program plan and copies of annual reports are available on the County website.
- Illicit discharge detection and elimination.
 - The County will inspect School Board property to assess litter and potential stormwater pollutants that may result from stored containerized trash.
 - The County will perform dry weather monitoring at stormwater outfalls on School Board property. The School Board will maintain stormwater outfalls in a compliant condition based on the results of the inspections.
- Construction site stormwater runoff control.
 - The School Board will obtain applicable local, state and federal permits and approvals for construction activities on School Board property. The County will

provide technical assistance and regulatory oversight as required for all proposed construction activities.

- Post-construction stormwater management in new development and redevelopment.
 - The County will inspect stormwater basins on School Board sites. The School Board will maintain basins in a compliant condition based on the results of the inspections.
- Pollution prevention/good housekeeping for government operations.
 - The Parties will cooperate in the development and implementation of policies and guidance for pollution prevention and good housekeeping of facilities. Those efforts may include development of the following:
 - Vehicle Washing Guidelines
 - Illicit Discharge Guidance
 - Materials Management Policy
 - Nutrient Management Plans
 - Stormwater Pollution Prevention Plans

HANOVER COUNTY SCHOOL BOARD

3.7.14
Date

By: Janelle S. Wilson (SEAL)
Janelle S. Wilson
Superintendent of Schools

HANOVER COUNTY

2.19.2014
Date

By: Frank W. Harksen, Jr. (SEAL)
Frank W. Harksen, Jr.
County Administrator/Deputy County Administrator ✓

BOARD OF SUPERVISORS

WILLIAM C. FRAZIER, CHAIRMAN
SOUTH ANNA DISTRICT

J. T. "JACK" WARD, VICE CHAIRMAN
MECHANICSVILLE DISTRICT

WILLIAM T. BOLLING
CHICKAHOMINY DISTRICT

RICHARD S. GILLIS, JR.
ASHLAND DISTRICT

R. J. KLOTZ, JR.
HENRY DISTRICT

AUBREY M. STANLEY, JR.
BEAVERDAM DISTRICT

ELTON J. WADE, SR.
COLD HARBOR DISTRICT

**APPROVED by Hanover County
Board of Supervisors
Meeting of 11/19/92**
[Signature]
John F. Berry
County Administrator/Clerk
to the Board of Supervisors



HANOVER COUNTY
P. O. BOX 170
HANOVER, VIRGINIA 23069-0470

JOHN F. BERRY
COUNTY ADMINISTRATOR

RICHARD F. JOHNSON
DEPUTY COUNTY ADMINISTRATOR

STERLING E. RIVES, III
COUNTY ATTORNEY



MEMORANDUM

TO: John F. Berry, County Administrator
FROM: Richard F. Wood, Public Works Director/County Engineer *RFW*
RE: MEMORANDUM OF UNDERSTANDING-CHESAPEAKE BAY ORDINANCE
DATE: November 19, 1992

RECOMMENDATION:

Authorize the execution of the attached Memorandum of Understanding between Hanover County and the Hanover-Caroline Soil and Water Conservation District

BACKGROUND:

On March 25, 1992, the Hanover Board of Supervisors by Ordinance 91-34 amended the Hanover County Code, Chapter 10, Article II relating to the Chesapeake Bay Preservation Act. Section 10-38 paragraph (d) states that the agricultural buffer areas on agricultural lands will be managed in a manner approved by the staff of the Hanover-Caroline Soil and Conservation District Board.

The attached Memorandum of Understanding has been developed by the staff of the County and the District to accomplish the intent of the Ordinance.

It is anticipated that the attached Memorandum of Understanding will be presented for approval to the Hanover-Caroline Soil and Conservation District Board during their January meeting.

RFW/sg

MEMORANDUM OF UNDERSTANDING

between the

HANOVER-CAROLINE

SOIL AND WATER CONSERVATION DISTRICT

and

COUNTY OF HANOVER

The Hanover-Caroline Soil and Water Conservation District ("District") and the County of Hanover ("County") hereby enter into this memorandum of understanding. This memorandum establishes a basis for the cooperation of the District and the County in implementing the Chesapeake Bay Preservation Act ("Act").

The District is responsible for approval of soil and water quality conservation plans on agricultural lands under the Act. The District is further responsible for approval of requests for buffer area reductions on such lands which are based on participation in a federal, state, or local best management practices program or implementation of a soil and water quality conservation plan.

A. ROLES OF THE DISTRICT

1. The District will adopt a procedure identifying agricultural lands within Chesapeake Bay Preservation Areas designated by the County using tax parcel numbers.
2. The District will develop a list of agricultural landowners and landusers in Chesapeake Bay Preservation Areas in the County.
3. The District will provide for, and coordinate with cooperating agencies in, the delivery of soil and water conservation planning assistance to users of agricultural lands within Chesapeake Bay Preservation Areas in the County.
4. The District will adopt a procedure for prioritizing assistance to users of agricultural lands within Chesapeake Bay Preservation Areas in the County.
5. The District will review, approve or disapprove, and track soil and water conservation plans for agricultural lands in Chesapeake Bay Preservations Areas in the County.
6. The District will review, approve or disapprove and track all applications for reductions in buffer widths on agricultural lands which satisfy the requirements of the Act, its regulations and Hanover County Ordinance No. 91-34 (Sec. 10-32 through 10-50)(the "Ordinance"), as amended from time to time, within sixty (60) days of application.

7. The District, in conjunction with the County, will check for user compliance with approved soil and water conservation plans and buffer area reduction criteria for agricultural lands.

8. The District will report to the County, and the appropriate state agency, on a quarterly basis regarding soil and water quality conservation planning progress, buffer area reduction approvals or disapprovals, and its verification of compliance, with respect to agricultural lands.

9. The District will coordinate with local, state and federal cooperating agencies and other groups to provide an education program which informs agricultural landowners and landusers about the Act, its regulations and the Ordinance, and their alternatives and the District's procedures.

10. The District will comment, in writing within thirty (30) days of receipt, on individual requests for exceptions to the agricultural regulations of the Act which have been referred to the District by the County.

B. ROLES OF THE COUNTY

1. The County will provide its Chesapeake Bay Preservation Area maps to the District and revisions thereof.

2. The County will rely on the District to verify landowner compliance with the Act. The County will use the information provided by the District for enforcement.

3. The County will establish and implement an enforcement procedure to require agricultural landowners to comply with the Act. This will be accomplished with the guidance and assistance of the District.

4. The County will inform the District, in writing, of all decisions affecting the implementation of the Act at the local level with respect to agricultural lands.

5. The County will refer to the District, for comment, all individual requests for exceptions to the agricultural regulations of the Act.

C. ADDITIONAL UNDERSTANDINGS

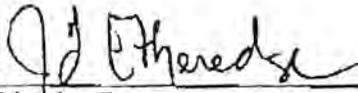
1. Either party will provide or arrange for such additional services, facilities, equipment, materials, and arrangements as mutually agreed upon in writing.

2. Any exception request not commented on by the District within the thirty (30) day comment period can be acted on by the County without District input.

3. The representatives of the District and the County will meet at least annually to coordinate Chesapeake Bay Preservation Act program delivery with respect to regulation of agricultural lands.

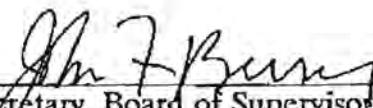
4. This memorandum of understanding will be effective when signed by both parties and will continue in effect until modified or terminated by mutual consent of the parties hereto or terminated by either party by giving sixty (60) days notice in writing to the other party.

Execution of the memorandum of understanding on behalf of the District was authorized by a resolution of the Hanover-Caroline Soil and Water Conservation District adopted at a meeting held on the 22 day of January, 1993.

By: 
District Secretary

Date: 1/22/93

Execution of this memorandum of understanding on behalf of the County was authorized by a resolution of the Board of Supervisors of Hanover County adopted at a meeting held on the 24th day of Nov., 1992.

By: 
Secretary, Board of Supervisors

Date: 12/1/92

Hanover-Caroline SWCD

Proposed 2005-2006 Fiscal Year - Services To Hanover County

- Administer the VA BMP Cost-share and Tax Credit Programs in order to provide cost-sharing assistance to local landowners and operators (all funding has been dedicated to Gaston disaster assistance in Hanover County for 2004-2005 and possibly into 2006).
- Provide continued assistance to FEMA and to Hanover County for storm related soil and water quality conservation problems including pond damage, residential damage, and agricultural damage.
- Provide assistance with the Federal USDA Farm Bill Conservation Programs including cost-share program implementation, design of BMPs, and total resource planning to local landowners and operators.
- Assist citizens with installation of Urban Best Management Practices on the Land to reduce erosion and improve water quality.
- Distribute Quarterly Conservation Newsletter.
- Assist Hanover with the development and implementation of Tributary Strategies and TMDL's for the York and James Rivers.
- Provide Bayscaping Workshops as part of the District's urban conservation initiative.
- Provide Conservation Education to Students by Providing School Conservation-oriented programs, In-Service Training for Teachers, Ag Days, Envirothon, Conservation Camp, Career Days, Earth Days, and Scholarships.
- Recognize local conservation efforts through the District's Annual Awards Program.
- Promote No-Till conservation planting techniques and residue management through the District's equipment program.
- Assist Department of Public Works with the VA Biosolids Program as requested.
- Administer Ag Stewardship Act through investigation of agricultural complaints.
- Administer VA Tax Credit Program for Conservation Equipment for agricultural producers.
- Provide a regionwide innovative livestock and land management demonstration project on Pamunkey Farm using Federal Grant monies acquired from the National Fish and Wildlife Service.
- Provide leadership in the development of the National Boy Scout Jamboree Soil and Water Merit Badge Booth for 2005.

Chesapeake Bay Preservation Act – County Ordinance Implementation

- ❖ Provide tracking of CBPA Agricultural Tracts, Plans, and Plan Revisions.
- ❖ Provide a minimum of 30 Soil and Water Quality Conservation Plans on Tracts where more in-depth technical assistance is needed. The plans will include:
 - Analysis of soil types for leaching potentials, erodibility, and agricultural yields
 - Documentation of buffer existence, widths, and length for RPA tracts
 - Field determination of slopes and slope lengths
 - Free Manure Analysis
 - Determine annual soil loss using the Revised Universal Soil Loss Equation
 - Development of Conservation Plans to insure proper tillage techniques, residue amounts and cropping rotations to maximize yields and minimize impacts on the environment.
 - Develop a current Certified Nutrient Management Plan based upon up-to-date soil and manure tests and crop yield history.
 - Develop with VA Cooperative Extension a current Integrated Pest Management Plan.
- ❖ Provide County with Quarterly Reports.
- ❖ Provide County with Documentation of CBPA areas as requested.
- ❖ Provide review of zoning application requests.
- ❖ Draft other conservation plans as requested by the county for use in Erosion and Sediment control on lands deemed agricultural.