



**MS4 YEAR TWO PROGRESS REPORT  
JULY 1, 2014 TO JUNE 30, 2015**

**FOR**

**URBANIZED AREAS OF VIRGINIA**

**Virginia Department of Transportation Small  
Municipal Separate Storm Sewer System (MS4)**

Registration # VAR040115

Coverage from November 1, 2013 to June 30, 2018

**DECEMBER 16, 2015**

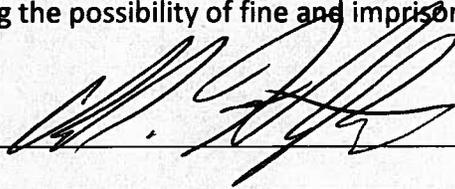
**FINAL**

Virginia Department of Transportation  
Location and Design Division  
1401 East Broad Street  
Richmond, Virginia 23219

**CERTIFICATION**

"I certify under penalty of law that I have read and understand this document and that this document and all attachments were prepared in accordance with a system designed to assure that qualified personnel properly gathered and evaluated 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."

Signature



Name Charles A. Kilpatrick, P.E.

Title Commonwealth Transportation Commissioner

Date 12/16/15

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## ACRONYMS

AASHTO	American Association of State Highway and Transportation Officials
BMP	Best Management Practice
CGP	Construction General Permit
CRCIF	Construction Runoff Control Inspection Form
CWA	Clean Water Act
DCR	Virginia Department of Conservation and Recreation
DEQ	Virginia Department of Environmental Quality
DOD	Department of Defense
EPA	Environmental Protection Agency
ERAC	Environmental Research Advisory Committee
ESC	Erosion and Sediment Control
ESCCC	Erosion and Sediment Control Contractor Certification
HUC	Hydrologic Unit Code
IDDE	Illicit Discharge Detection and Elimination
IP	Implementation Plan
L&D	Location & Design
LDA	Land-Disturbing Activity
LUP	Land Use Permit
MCM	Minimum Control Measure
MEP	Maximum Extent Practicable
MS4	Municipal Separate Storm Sewer System
NMP	Nutrient Management Plan
O&M	Operations & Maintenance
ORI	Outfall Reconnaissance and Inventory
P2	Pollution Prevention
POD	Point of Discharge
PSA	Public Service Announcement
RLD	Responsible Land Disturber
RLDA	Regulated Land Disturbance Activity
SPCC	Spill Prevention, Control, and Countermeasure
SWM	Stormwater Management
SWPPP	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load
TRB	Transportation Research Board
VAC	Virginia Administrative Code
VDOT	Virginia Department of Transportation
VESCLR	Virginia Erosion and Sediment Control Law and Regulations
VSMP	Virginia Stormwater Management Program
VPDES	Virginia Pollutant Discharge Elimination System
WIP	Watershed Implementation Plan
WLA	Wasteload Allocation

## VDOT MS4 PROGRAM PLAN BACKGROUND

The Virginia Department of Transportation (VDOT) is authorized to discharge stormwater from its municipal separate storm sewer system (MS4) by coverage under the Virginia Pollutant Discharge Elimination System (VPDES) *General Permit for Discharge of Stormwater from Small MS4s* (the Permit) within the urbanized areas of Virginia. As part of the original permit authorization, VDOT developed and implemented an MS4 Program Plan (the Plan) with best management practices (BMPs) to address the six minimum control measures (MCMs) and the special conditions for applicable total maximum daily loads (TMDLs) outlined in the Permit.

As part of VDOT's coverage under the 2013 Permit, VDOT has updated this MS4 Program Plan to address new permit requirements as well as enhance BMPs through the adaptive management process. Implementation of these BMPs is consistent with the provisions of an iterative MS4 Program, which constitutes compliance with the standard of reducing pollutants to the "maximum extent practicable" or MEP.

BMPs that are included in this Plan follow a prescribed alpha-numeric nomenclature that is based from the respective MCMs, the numbers of BMPs for each MCM, and the responsible Division. For example, BMP 6(D)4 refers to the following:

BMP	6	MCM 6: Pollution Prevention and Housekeeping
	(D)	The fourth BMP to address the requirements of MCM 6
	4	The fourth VDOT Division to be assigned responsibility under the BMP

*Note: BMPs associated with the special conditions for approved TMDLs are assigned a BMP of "7".*

The area regulated by the MS4 Permit (herein referred to as the regulated area) covers areas discharging to an MS4 that is owned and/or operated by VDOT and located within one of the urbanized areas of Virginia. Urbanized areas as identified by the 2000 and 2010 Decennial Census are listed below.

- Blacksburg
- Bristol
- Charlottesville
- Danville
- Fredericksburg
- Harrisonburg
- Kingsport
- Lynchburg
- Richmond
- Roanoke
- Virginia Beach
- Washington, DC
- Winchester
- Staunton-Waynesboro
- Williamsburg

## VDOT RESPONSIBILITIES

The Virginia Department of Transportation, under the leadership of the VDOT Commissioner, is organized into several divisions within the Central Office, each serving under a designated Program Chief. The nine VDOT Construction Districts are each managed by a District Administrator/Engineer who operates under the direct authority of the Chief Engineer. In general, VDOT employs a decentralized implementation strategy; overall program policy and guidance is provided by the appropriate Program Chiefs, while the day to day operation and implementation of VDOT's road construction and maintenance programs fall under the authority of the District Administrators.

### Division Responsibilities

General oversight of the MS4 Program is assigned to the Location & Design (L&D) Division. The Stormwater Policy Committee Chairman and MS4 Steering Committee Chairman are represented by L&D staff. However, individual VDOT Central Office Divisions are responsible for the continued development and/or implementation of specific BMPs identified in this MS4 Program Plan as follows:

Lead Division	Associated BMPs
Construction	4(C)1, 6(D)3
Environmental	2(B)1, 3(C)2, 3(D)2, 6(A)2, 6(B), 6(D)1, 7(A), 7(B)
Learning Center	6(D)4
Location & Design	2(B)2, 3(B), 4(A), 4(B), 4(C)2, 5(A), 5(B)
Maintenance	1(A)2, 2(B)3, 3(A), 3(C)1, 3(D)1, 5(C), 6(A)1, 6(C), 6(D)2, 6(E)
Communications	1(A)1, 2(A), 2(B)4, 2(C)
Traffic Engineering	1(A)4
Transportation Planning	1(A)3, 3(C)3

### District Responsibilities

Each District will generally be responsible for program implementation within the specific Urbanized Areas. VDOT Central Office staff will provide ongoing support to the Districts, and will also develop the required annual reports with data provided by the Districts.

### Stormwater Policy Committee Responsibilities

The Stormwater Policy Committee generally meets on an annual basis to discuss the status of Program Implementation and address other administration concerns. The Policy Committee is largely comprised of Division and District Administrators.

### MS4 Steering Committee Responsibilities

The MS4 Steering Committee generally meets on a quarterly basis to discuss and develop program-wide policies and procedures, including implementation, reporting, and assessment tools.

### **Responsibilities of Sub-Committees**

The Stormwater Policy Committee and/or MS4 Steering Committee may establish other standing or special committees, as they deem advisable, to address specific elements or components of the MS4 Program Plan.

## **MCM #1: PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS**

The MS4 Program requirements for MCM #1 from the permit are summarized below.

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*The operator shall continue to implement the public education and outreach program as included in the registration statement until the program is updated to meet the conditions of this state permit. Operators who have not previously held MS4 permit coverage shall implement this program in accordance with the schedule provided with the completed registration statement.*

*The public education and outreach program should be designed with consideration of the following goals:*

- (1) Increasing target audience knowledge about the steps that can be taken to reduce stormwater pollution, placing priority on reducing impacts to impaired waters and other local water pollution concerns;*
- (2) Increasing target audience knowledge of hazards associated with illegal discharges and improper disposal of waste, including pertinent legal implications; and*
- (3) Implementing a diverse program with strategies that are targeted towards audiences most likely to have significant stormwater impacts.*

*The updated program shall be designed to:*

- (1) Identify, at a minimum, three high-priority water quality issues, that contribute to the discharge of stormwater (e.g., Chesapeake Bay nutrients, pet wastes and local bacteria TMDLs, high-quality receiving waters, and illicit discharges from commercial sites) and a rationale for the selection of the three high-priority water quality issues;*
- (2) Identify and estimate the population size of the target audience or audiences who is most likely to have significant impacts for each high-priority water quality issue;*
- (3) Develop relevant message or messages and associated educational and outreach materials (e.g., various media such as printed materials, billboard and mass transit advertisements, signage at select locations, radio advertisements, television advertisements, websites, and social media) for message distribution to the selected target audiences while considering the viewpoints and concerns of the target audiences including minorities, disadvantaged audiences, and minors;*
- (4) Provide for public participation during public education and outreach program development;*
- (5) Annually conduct sufficient education and outreach activities designed to reach an equivalent 20% of each high-priority issue target audience. It shall not be considered noncompliance for failure to reach 20% of the target audience. However, it shall be a compliance issue if insufficient effort is made to annually reach a minimum of 20% of the target audience; and*
- (6) Provide for the adjustment of target audiences and messages including educational materials and delivery mechanisms to reach target audiences in order to address any observed weaknesses or shortcomings.*

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The following BMPs have been selected to address MCM#1:

- BMP 1(A)1 through 1(A)4 – Public Education and Outreach Plan

VDOT has defined the public/target audience as the population that has the most likely potential to have significant impacts on stormwater runoff. This will allow VDOT to focus vital resources where they will generate the most benefit. Note: the MS4 Permit does not define the term “public”. However, VDOT concurs with EPA and DEQ’s statement “...that the minimum measures are flexible enough that they can be implemented by [non-traditional MS4s].” Using similar language that EPA provided for Department of Defense (DOD) facilities, VDOT defines its public as its employees, its contractors, and travelers using VDOT’s fixed facilities such as rest areas. VDOT does not consider travelers along the roadway system as part of the “public” for use in this Education Plan as their activities do not likely have the most significant impact to water quality. However, VDOT has developed education material that may incidentally reach these travelers, which could have a positive benefit outside of VDOT’s right-of-way.

**BMP 1(A)1 – Public Education and Outreach Plan**

<b>Description and Measurable Goal:</b>	Continue to implement the Public Education and Outreach Plan to increase knowledge about high priority water quality issues.
<b>Lead Division:</b>	Communications (for division specific elements of Public Education and Outreach Plan)
<b>Reference Documents:</b>	Public Education and Outreach Plan* VDOT Stormwater Webpage** Stormwater Fact Sheet

<b>Efforts and Expected Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Continue to maintain VDOT Stormwater Webpage, in accordance with Education Plan.	Webpage was previously developed. VDOT will update webpage with necessary information as discussed in others parts of this Program Plan.	VDOT has maintained its stormwater webpage with educational information including: educational videos, illicit discharge reporting information, copies of the MS4 Program Plan and copies of the annual reports.  VDOT will continue to maintain the website throughout the next permit year.  <a href="http://www.virginiadot.org/programs/stormwater_management.asp">www.virginiadot.org/programs/stormwater_management.asp</a>
Develop Fact Sheet, in accordance with Education Plan.	Develop fact sheet within 2 years of permit coverage, and distribute annually thereafter.	The fact sheets and tracking mechanism are under continuing development to include the three high water quality issues identified in the Public Education and Outreach Plan.
Present stormwater messages via posters/signage and Electronic Bulletin Boards at VDOT at VDOT facilities, in accordance with Education Plan.	Develop applicable materials within 2 years of permit coverage and broadcast annually thereafter.	The messages and tracking mechanism are under continuing development to include the three high water quality issues identified in the Public Education and Outreach Plan.

*Notes: \* A copy of The VDOT MS4 Public Education and Outreach Plan is available at Location & Design Division's Central Office location.*

*\*\* [http://www.virginiadot.org/programs/stormwater\\_management.asp](http://www.virginiadot.org/programs/stormwater_management.asp)*

**BMP 1(A)2 – Public Education and Outreach Plan**

<b>Description and Measurable Goal:</b>	Continue to implement the Public Education and Outreach Program to increase knowledge about high priority water quality issues.
<b>Lead Division:</b>	Maintenance (for division specific elements of Public Education and Outreach Plan)
<b>Reference Documents:</b>	Public Education and Outreach Plan* Template for Pet Waste Signage

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Continue to install and maintain Pet Waste Signage at rest areas and welcome centers within urbanized areas, in accordance with the Education Plan.	Message sign was previously developed, and reported to DEQ. VDOT will continue to identify fixed facilities where signs can be installed.	<p>The pet waste stations maintenance and restocking is part of VDOT’s Monthly Quality Assessment Review/Safety Rest Area Inspection. This inspection reviews the Pet Stations for functionality and to assure they are being maintained and stocked. The pet waste stations are stocked with disposal bags as part of the normal maintenance operation. As part of the daily good housekeeping procedures for trash and debris removal, any pet waste discovered is picked up and placed in the appropriate trash receptacle.</p> <p>The number of pet stations remains the same as previously reported. No new Safety Rest Areas were established and no major rebuilds were completed this last year. During the last year deteriorated or damaged pet stations were replaced as needed.</p>

*Note: \* A copy of The VDOT MS4 Public Education and Outreach Plan is available at Location & Design Division’s Central Office location.*

**BMP 1(A)3 – Public Education and Outreach Plan**

<b>Description and Measurable Goal:</b>	Continue to implement the public education and outreach program to increase knowledge about high priority water quality issues.
<b>Lead Division:</b>	Transportation Planning (for division specific elements of Public Education and Outreach Plan)
<b>Reference Documents:</b>	Public Education and Outreach Plan* System to Track Land Use Permits VDOT’s Stormwater Webpage**

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Continue to promote Storm Drain Stenciling, in accordance with the Public Education and Outreach Plan.	Annually promote storm drain stenciling through use of VDOT’s stormwater webpage.	VDOT issued 1 storm drain stenciling permit in Accomack County, but none in the urbanized areas.

Notes: \* A copy of The VDOT MS4 Public Education and Outreach Plan is available at Location & Design Division’s Central Office location.

\*\* [http://www.virginia-dot.org/programs/stormwater\\_management.asp](http://www.virginia-dot.org/programs/stormwater_management.asp)

**BMP 1(A)4 – Public Education and Outreach Plan**

<b>Description and Measurable Goal:</b>	Continue to implement the public education and outreach program to increase knowledge about high priority water quality issues.
<b>Lead Division:</b>	Traffic Engineering (for division specific elements of Public Education and Outreach Plan)
<b>Reference Documents:</b>	Public Education and Outreach Plan* Watershed Signs

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Continue to participate in Watershed Sign Installation Program, in accordance with Education Plan.	Number of signs installed will be in accordance with the Public Education and Outreach Plan.	VDOT completed Phase 2 of FY14's Chesapeake Bay Watershed plan in FY15. This project completed replacement of five existing signs, including signs for Buffalo Creek, Meherrin River, Middle Fork Holston River, and New River. The installation cost was \$50,948.12. The Black Water River and Roanoke River Watershed signs were also replaced at a cost of \$995.00 in FY15. For FY16, additional Chesapeake Bay Watershed signs will be installed based upon DEQ's priority list.

*Note: \* A copy of The VDOT MS4 Public Education and Outreach Plan is available at Location & Design Division's Central Office location.*

## **MCM #2: PUBLIC INVOLVEMENT/PARTICIPATION**

The MS4 Program requirements for MCM #2 from the permit are summarized below.

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*The operator shall:*

- (1) Maintain an updated MS4 Program Plan. Any required updates to the MS4 Program Plan shall be completed at a minimum of once a year and shall be updated in conjunction with the annual report. The operator shall post copies of each MS4 program plan on its webpage at a minimum of once a year and within 30 days of submittal of the annual report to the department.*
- (2) Post copies of each annual report on the operator's web page within 30 days of submittal to the department and retain copies of annual reports online for the duration of this state permit; and*
- (3) Prior to applying for coverage as required by Section III M, notify the public and provide for receipt of comment of the proposed MS4 Program Plan that will be submitted with the registration statement. As part of the reapplication, the operator shall address how it considered the comments received in the development of its MS4 Program Plan. The operator shall give public notice by a method reasonably calculated to give actual notice of the action in question to the persons potentially affected by it, including press releases or any other forum or medium to solicit public participation.*

*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 clean-up projects, programs, groups, meetings, or other opportunities for public involvement.*

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The following BMPs have been selected to address MCM#2:

- BMP 2(A) – Availability of MS4 Program Plan and Annual Reports
- BMP 2(B)1 through 2(B)4 – Participation with Other Stakeholders
- BMP 2(C) – Public Comment and Consideration

Note: VDOT traditionally participates in numerous stakeholder meetings and events that exceed the annual minimum of four events. VDOT believes there is value to the meetings and will continue to participate in these events as they are consistent with VDOT's environmental goals and objectives. Furthermore, VDOT will continue to report any events it attends that have a stormwater/water quality aspect. However, for purposes of this MCM, VDOT considers four annual activities amongst BMPs 2(B)1 through 2(B)3 to meet the Permit requirement, and additional participation does not set a precedent for future activities or result in a Program modification. The number of events will vary from year to year based on availability.

**BMP 2(A) – Availability of MS4 Program Plan and Annual Reports**

<b>Description and Measurable Goal:</b>	Make MS4 Program Plan and Annual Reports available to comply with applicable federal, state, and local public notice requirements.
<b>Lead Division:</b>	Communications
<b>Reference Documents:</b>	VDOT Stormwater Webpage*

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Continue to post Program Plans and Annual Reports.	The Program Plan will be posted on the VDOT webpage within 30 days after submittal to DEQ. Within 30 days of any modification to the Program Plan, the latest version will be posted. Annual reports will be posted on the web page within 30 days of submittal to DEQ, or by November 1 <sup>st</sup> of each year.	VDOT has continued to post its MS4 Program Plan and annual reports on its stormwater webpage located at:  <a href="http://www.virginiadot.org/programs/stormwater_management.asp">www.virginiadot.org/programs/stormwater_management.asp</a>  This annual report will be posted within 30 days of final submittal to DEQ.

Note: \* [http://www.virginiadot.org/programs/stormwater\\_management.asp](http://www.virginiadot.org/programs/stormwater_management.asp)

**BMP 2(B)1 – Participation with Other Stakeholders**

<b>Description and Measurable Goal:</b>	Participate in stakeholder meetings and events, as applicable, to ensure that provisions for linear development projects are incorporated into local watershed planning.
<b>Lead Division:</b>	Environmental (for topics related to Environmental’s responsibilities under the MS4 Program)
<b>Reference Documents:</b>	Spreadsheet to track participation efforts

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Continue to participate in meetings with environmental organizations.	Annually participate in meetings, when applicable.	15 meetings attended.
Continue to participate in MS4 coordination meetings with other MS4 permittees to discuss program efforts, approved TMDLs and associated Action Plans.	Annually meet with various MS4s, when applicable.	9 coordination meetings with MS4s were attended.
Continue to participate in TMDL and Implementation Plan (IP) development meetings.	Annually participate in TMDL and IP development meetings, when applicable.	30 TMDL and IP meetings were attended.

**BMP 2(B)2 – Participation with Other Stakeholders**

<b>Description and Measurable Goal:</b>	Participate in local activities aimed at increasing public awareness of water quality and stormwater issues.
<b>Lead Division:</b>	Location & Design (for topics related to L&D’s responsibilities under the MS4 Program)
<b>Reference Documents:</b>	Spreadsheet to track participation efforts

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Continue to participate in meetings with environmental organizations.	Annually participate in meetings, when applicable.	15 meetings attended.
Continue to participate in MS4 coordination meetings with other MS4 permittees to discuss program efforts and approved TMDLs and associated Action Plans.	Annually meet with various MS4s, when applicable.	9 coordination meetings with MS4s were attended.

**BMP 2(B)3 – Participation with Other Stakeholders**

<b>Description and Measurable Goal:</b>	Participate in local activities aimed at increasing public awareness of water quality and stormwater issues.
<b>Lead Division:</b>	Maintenance (for topics related to Maintenance’s responsibilities under the MS4 Program)
<b>Reference Documents:</b>	Spreadsheet to track participation efforts

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Continue to participate in meetings with environmental organizations.	Annually participate in meetings, when applicable.	15 meetings attended.
Continue to participate in MS4 coordination meetings with other MS4 permittees to discuss program efforts and approved TMDLs and associated Action Plans and outfall inventory.	Annually meet with various MS4s, when applicable.	9 coordination meetings with MS4s were attended.

**BMP 2(B)4 – Participation with Other Stakeholders**

<b>Description and Measurable Goal:</b>	Participate in local activities aimed at increasing public awareness of water quality and stormwater issues.
<b>Lead Division:</b>	Communications (for topics related to Communication’s responsibilities under the MS4 Program)
<b>Reference Documents:</b>	Spreadsheet to track participation efforts

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Continue to participate in local activities annually.	Annually participate in activities , when applicable	<p>On August 6, 2014 at the Statewide ROADEO Safety Training day, awareness presentations on IDDE, asphalt equipment cleaning best management practices, and pollution prevention/good housekeeping were presented to safety training day participants and their guests. Approximately 65-75 participants attended these sessions.</p> <p>On August 7, 2014 an informational booth was set up at the Statewide ROADEO. Information on best management practices, IDDE, and pollution prevention were available for attendees. Spill Prevention, Control, and Countermeasure (SPCC) and asphalt equipment cleaning videos were presented for attendees to watch. Over 500 people attended the event.</p>

**BMP 2(C) – Public Comment and Consideration**

<b>Description and Measurable Goal:</b>	Provide opportunity for public to comment on VDOT’s MS4 Program and associated efforts.
<b>Lead Division:</b>	Communications
<b>Reference Documents:</b>	VDOT Stormwater Webpage*

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Continue to maintain the stormwater webpage, and an email address on the webpage for the public to provide comment.	Annually maintain webpage.	VDOT has continued to provide opportunity for the public to submit comments regarding its MS4 Program through its stormwater webpage located at:  <a href="http://www.virginiadot.org/programs/stormwater_management.asp">www.virginiadot.org/programs/stormwater_management.asp</a>  There were no comments submitted related to the MS4 Program in this reporting year.
As part the draft Chesapeake Bay TMDL Action Plan development, provide an opportunity for receipt and consideration of public comment.	Prior to the finalization of the Chesapeake Bay TMDL Action Plan.	VDOT posted a copy of the draft Action Plan on its stormwater webpage from September 15 through September 30, 2015. VDOT’s Chesapeake Bay TMDL Action Plan was be completed on November 01, 2015.

Note: \* [http://www.virginiadot.org/programs/stormwater\\_management.asp](http://www.virginiadot.org/programs/stormwater_management.asp)

### **MCM #3: ILLICIT DISCHARGE DETECTION AND ELIMINATION**

The MS4 Program requirements for MCM #3 from the permit are partially summarized below.

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*The operator shall maintain an accurate storm sewer system map and information table and shall update it in accordance with the schedule set out in Table 1.*

- (1) The storm sewer system map must show the following, at a minimum:
  - (a) The location of all MS4 outfalls. In cases where the outfall is located outside of the MS4 operator's legal responsibility, the operator may elect to map the known point of discharge location closest to the actual outfall. Each mapped outfall must be given a unique identifier, which must be noted on the map; and*
  - (b) The name and location of all waters receiving discharges from the MS4 outfalls and the associated HUC.**
- (2) The associated information table shall include for each outfall the following:
  - (a) The unique identifier;*
  - (b) The estimated MS4 acreage served;*
  - (c) The name of the receiving surface water and indication as to whether the receiving water is listed as impaired in the Virginia 2010 303(d)/305(b) Water Quality Assessment Integrated Report; and*
  - (d) The name of any applicable TMDL or TMDLs.**
- (3) Within 48 months of coverage under this state permit, the operator shall have a complete and updated storm sewer system map and information table that includes all MS4 outfalls located within the boundaries identified as "urbanized" areas in the 2010 Decennial Census and shall submit the updated information table as an appendix to the annual report.*
- (4) The operator shall maintain a copy of the current storm sewer system map and outfall information table for review upon request by the public or by the department.*
- (5) The operator shall continue to identify other points of discharge. The operator shall notify in writing the downstream MS4 of any known physical interconnection.*

*The operator shall effectively prohibit, through ordinance or other legal mechanism, non-stormwater discharges into the storm sewer system to the extent allowable under federal, state, or local law, regulation, or ordinance. Categories of non-stormwater discharges or flows (i.e., illicit discharges) identified in 9VAC25-870-400 D 2 c (3) must be addressed only if they are identified by the operator as significant contributors of pollutants to the small MS4. Flows that have been identified in writing by the department as de minimis discharges are not significant sources of pollutants to surface water and do not require a VPDES permit.*

*The operator shall develop, implement, and update, when appropriate, written procedures to detect, identify, and address unauthorized non-stormwater discharges, including illegal dumping, to the small MS4. These procedures shall include:*

- (1) Written dry weather field screening methodologies to detect and eliminate illicit discharges to the MS4 that include field observations and field screening monitoring and that provide:
  - (a) A prioritized schedule of field screening activities determined by the operator based on such criteria as age of the infrastructure, land use, historical illegal discharges, dumping or cross connections.*
  - (b) The minimum number of field screening activities the operator shall complete annually to be determined as follows: (i) if the total number of outfalls in the small MS4 is less than 50, all outfalls shall be screened annually or (ii) if the small MS4 has 50 or more total outfalls, a minimum of 50 outfalls shall be screened annually.*
  - (c) Methodologies to collect the general information such as time since the last rain, the quantity of the last rain, site descriptions (e.g., conveyance type and dominant watershed land uses), estimated discharge rate (e.g., width of water surface, approximate depth of water, approximate flow velocity, and flow rate), and visual observations (e.g., order, color, clarity, floatables, deposits or stains, vegetation condition, structural condition, and biology).*
  - (d) A time frame upon which to conduct an investigation or investigations to identify and locate the source of any observed continuous or intermittent non-stormwater discharge prioritized as follows: (i) illicit discharges suspected of being sanitary sewage or significantly contaminated must be investigated first and (ii) investigations of illicit discharges suspected of being less hazardous to human health and safety such as noncontact cooling water or wash water may be delayed until after all suspected sanitary sewage or**

*significantly contaminated discharges have been investigated, eliminated, or identified. Discharges authorized under a separate VPDES or state permit require no further action under this permit.*

- (e) Methodologies to determine the source of all illicit discharges shall be conducted. If an illicit discharge is found, but within six months of the beginning of the investigation neither the source nor the same non-stormwater discharge has been identified, then the operator shall document such in accordance with Section II B 3 f. If the observed discharge is intermittent, the operator must document that a minimum of three separate investigations were made in an attempt to observe the discharge when it was flowing. If these attempts are unsuccessful, the operator shall document such in accordance with Section II B 3 f.*
- (f) Mechanisms to eliminate identified sources of illicit discharges including a description of the policies and procedures for when and how to use legal authorities.*
- (g) Methods for conducting a follow-up investigation in order to verify that the discharge has been eliminated.*
- (h) A mechanism to track all investigations to document: (i) the date or dates that the illicit discharge was observed and reported; (ii) the results of the investigation; (iii) any follow-up to the investigation; (iv) resolution of the investigation; and (v) the date that the investigation was closed.*

*The operator shall promote, publicize, and facilitate public reporting of illicit discharges into or from MS4s. The operator shall conduct inspections in response to complaints and follow-up inspections as needed to ensure that corrective measures have been implemented by the responsible party.*

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The following BMPs have been selected to address MCM#3:

- BMP 3(A) – Storm Sewer Map
- BMP 3(B) – Interconnection Notification
- BMP 3(C)1 through 3(C)3 – Prohibition of Non-Stormwater Discharges
- BMP 3(D)1 & 3(D)2 – Illicit Discharge Detection and Elimination Program

Note: VDOT has developed an Illicit Discharge Detection and Elimination (IDDE) Program to address illicit discharges that originate within VDOT's property and right-of-way as well those that originate outside of VDOT's right-of-way, but enter VDOT's MS4. VDOT actively screens, investigates, and eliminates illicit discharges that originate within its right-of-way to the MEP. VDOT actively screens and investigates illicit discharges that enter its MS4 from an external source. However, VDOT does not have direct control to eliminate these sources, as VDOT has limited enforcement authority outside its right of way or property boundaries. As such, VDOT has actively worked with regulatory agencies and other MS4s to report such discharges to the appropriate authority for investigation and resolution.

**BMP 3(A) – Storm Sewer Map**

<b>Description and Measurable Goal:</b>	<p>Develop a storm sewer map and an information table that supports a successful Illicit Discharge Detection and Elimination (IDDE) Program that includes screening, investigation, and coordinating elimination of illicit discharges. The map, at a minimum, will:</p> <ul style="list-style-type: none"> <li>• Include the mapped location of MS4 regulated outfalls with a unique identifier that corresponds to the related data in the information table.</li> </ul> <p>The information table, at a minimum, will include for each regulated outfall the:</p> <ul style="list-style-type: none"> <li>• Unique identifier;</li> <li>• Estimated VDOT MS4 acreage served;</li> <li>• The name and location of waters receiving discharges from VDOT’s MS4 regulated outfalls and the associated sixth order hydrologic unit code (HUC) from Virginia's 6th Order National Watershed Boundary Dataset;</li> <li>• An indication as to whether the receiving water is listed as impaired on the Virginia 2010 303(d)/305(b) list; and</li> <li>• Name of any applicable TMDL(s).</li> </ul>
<b>Lead Division:</b>	Maintenance
<b>Reference Documents:</b>	Storm Sewer Map and Geodatabase VDOT Outfall Reconnaissance & Inventory (ORI) Manual*

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Complete storm sewer system map and information table.	Annually demonstrate progress is being made to complete map by October 30, 2017.	<p>VDOT has continued collecting MS4 Outfalls and Points of Discharge using tablet computers and a cloud based GIS Online software.</p> <p>A summary table of clusters cleared during the reporting year is provided in Appendix A.</p>
Continue to identify other points of discharge (PODs) when such points are collected during the outfall inventory process.	Annually demonstrate progress is being made to complete map by October 30, 2017.	<p>VDOT inventoried 648 points of discharges (PODs) during the reporting year.</p> <p>A summary table of PODs inventoried during the reporting year is provided in Appendix B.</p>

*Note: \* A copy of the VDOT ORI Manual is available at Maintenance Division’s Central Office location.*

**BMP 3(B) – Interconnection Notification**

<b>Description and Measurable Goal:</b>	Increase awareness of interconnections with other MS4s
<b>Lead Division:</b>	Location & Design
<b>Reference Documents:</b>	Storm Sewer Map and Geodatabase ORI Manual* Notification Letters

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Continue to provide interconnection notification to downstream MS4s as appropriate.	Provide notifications, as applicable.	<p>VDOT provided notifications letters to newly permitted MS4s in the 2013 through 2018 permit cycles. MS4s receiving notifications include:</p> <ul style="list-style-type: none"> <li>Virginia Highlands Community College</li> <li>Town of Abingdon</li> <li>Radford University</li> <li>City of Radford</li> <li>Montgomery County</li> <li>City of Waynesboro</li> <li>City of Staunton</li> <li>Augusta County</li> <li>Fort Monroe Authority</li> <li>Petersburg Federal Correctional Complex</li> <li>VA Department of Juvenile Justice at Bon Air</li> <li>Arlington County Public Schools</li> <li>U.S. Geological Survey Headquarters</li> <li>Germanna Community College</li> <li>Town of Warrenton</li> <li>Fauquier County</li> <li>Northern Virginia Training Center</li> </ul> <p>Copies of the notifications letters are available at Location &amp; Design Division’s Central Office location.</p>

*Note: \* A copy of the VDOT ORI Manual is available at Maintenance Division’s Central Office location.*

**BMP 3(C)1 - Prohibition of Non-Stormwater Discharge**

<b>Description and Measurable Goal:</b>	Prohibit non-stormwater discharges into the storm sewer system
<b>Lead Division:</b>	Maintenance
<b>Reference Documents:</b>	Maintenance Best Practices Manuals*

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Continue to develop and refine appropriate practices in the Maintenance Best Practices Manuals to prohibit non-stormwater discharges from VDOT operations.	This aspect of the BMP is currently implemented and is an ongoing effort.	A rewrite of the Maintenance Best Practices Manual was completed in March of 2014. No revisions have been made to the practices related to non-stormwater discharges since March 2014.

*Note: \* A copy of the Maintenance Best Practices Manual is available at Maintenance Division's Central Office location.*

**BMP 3(C)2 - Prohibition of Non-Stormwater Discharge**

<b>Description and Measurable Goal:</b>	Prohibit non-stormwater discharges into the storm sewer system
<b>Lead Division:</b>	Environmental
<b>Reference Documents:</b>	Waste Management and Pollution Prevention Guides*

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Continue to develop and refine appropriate practices in the Waste Management & Pollution Prevention Guides to prohibit non-stormwater discharges from VDOT operations.	This aspect of the BMP is currently implemented and is an ongoing effort.	<p>The Waste Management &amp; Pollution Prevention Guides (WMPPG) has been revised to include a MS4/WMPPG Crosswalk chart, which provides a general overview of Specific MS4 Permit requirements and the associated WMPP Guides that can be used to assist compliance.</p> <p>The most current version of the WMPPG is dated January 2015.</p>

*Note: \* Copies of the Waste Management and Pollution Prevention Guides are available at Environmental Division's Central Office location.*

**BMP 3(C)3 – Prohibition of Non-Stormwater Discharge**

<b>Description and Measurable Goal:</b>	Prohibit non-stormwater discharges into the storm sewer system
<b>Lead Division:</b>	Transportation Planning
<b>Reference Documents:</b>	Land Use Permit Regulations Guidance Manual*

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Continue to develop and refine appropriate practices in the Land Use Permit (LUP) program, which allows VDOT to take action against a LUP permittee if their operations generate an illicit discharge to VDOT’s MS4.	This aspect of the BMP is currently implemented and is an ongoing effort	There were no suspect illicit discharges that were reported through Land Use Permits during the reporting year.

*Note: \* A copy of the Land Use Permit Regulations Guidance Manual is available at Transportation Planning Division’s Central Office location.*

**BMP 3(D)1 – Illicit Discharge Detection and Elimination Program**

<b>Description and Measurable Goal:</b>	Utilize written procedures to detect, identify, and address unauthorized non-stormwater discharges, including illegal dumping, to VDOT’s MS4.
<b>Lead Division:</b>	Maintenance
<b>Reference Documents:</b>	VDOT IDDE Manual* IDDE Geodatabase Storm Sewer Map

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Continue to perform initial screenings of regulated outfalls that are inventoried for the first time.	This aspect of the BMP is currently implemented and is an ongoing effort – initial screenings will be performed during the outfall inventory process.	VDOT screened 2,644 outfalls and 648 points of discharge (PODs) during the reporting year. A summary table of outfalls and PODs screened during the reporting year is provided in Appendix C.
Annually perform at least 50 outfall screenings.	This aspect of the BMP is currently implemented and is an ongoing annual effort.	VDOT screened 2,644 outfalls and 648 points of discharge (PODs) during the reporting year. A summary table of outfalls and PODs screened during the reporting year is provided in Appendix C.

*Note: \* A copy of the VDOT IDDE Manual is available at Maintenance Division’s Central Office location.*

**BMP 3(D)2 – Illicit Discharge Detection and Elimination Program**

<b>Description and Measurable Goal:</b>	Utilize written procedures to detect, identify, and address unauthorized non-stormwater discharges, including illegal dumping, to VDOT’s MS4.
<b>Lead Division:</b>	Environmental
<b>Reference Documents:</b>	VDOT IDDE Manual* IDDE Geodatabase Storm Sewer Map

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>																																								
Continue to perform follow-up investigations for potential illicit discharges as appropriate using VDOT’s IDDE Program and Manual. Effort is to be coordinated with Maintenance Division and other VDOT Divisions, as appropriate.	This aspect of the BMP is currently implemented and is an ongoing effort – follow-up investigations will be performed in accordance with the VDOT IDDE Manual.	<p>VDOT performed follow-up investigations on 78 potential illicit discharges reported to the IDDE Field Team and determined that there was no illicit discharge present at 74 of the 78 reported sites. A total of four locations were referred to others for resolution of site issues other than illicit discharges (e.g. erosion from stream exposing sewer pipe). These sites had their initial IDDE classification changed.</p> <table border="1"> <thead> <tr> <th>District</th> <th>Investigated</th> <th>Verified</th> <th>Re-classified</th> </tr> </thead> <tbody> <tr> <td>Bristol</td> <td>3</td> <td>0</td> <td>0</td> </tr> <tr> <td>Culpeper</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Fredericksburg</td> <td>2</td> <td>1</td> <td>0</td> </tr> <tr> <td>Hampton Roads</td> <td>20</td> <td>1</td> <td>0</td> </tr> <tr> <td>Lynchburg</td> <td>0</td> <td>0</td> <td>0</td> </tr> <tr> <td>Northern Virginia</td> <td>15</td> <td>0</td> <td>1</td> </tr> <tr> <td>Richmond</td> <td>36</td> <td>2</td> <td>3</td> </tr> <tr> <td>Salem</td> <td>2</td> <td>0</td> <td>0</td> </tr> <tr> <td>Staunton</td> <td>0</td> <td>0</td> <td>0</td> </tr> </tbody> </table> <p><u>Summary of IDDE’s verified:</u></p> <ol style="list-style-type: none"> <li>1) Seepage from the shoulder along Route 36 west into a paved ditch near the Petersburg National Battlefield overpass was observed for a distance of approximately 500 feet, with a large seep 100 feet east of the drop inlet. A strong sewage odor was present. Prince George County, the City of Petersburg, the National Park Service, and Fort Lee Army Base were contacted regarding this potential discharge. No evidence of a discharge from these parties was found on a subsequent visit and the IDDE report was closed.</li> <li>2) Suds were observed in a culvert which routes drainage from a storm sewer system underneath Route 1 in Stafford County. Indications of the washing of vehicles at the used automobile dealership on the east side of Route 1 were observed. The potential IDDE was reported to Stafford County for enforcement action. No further problems have been reported and the IDDE report has been closed.</li> <li>3) In Gloucester Point, suds were reported in a culvert pipe that routes stormwater drainage from the west side of Route 17. A used automobile dealership is located on the west side of Route 17, and indications of the washing of vehicles in the lot were observed. The potential IDDE was reported to Gloucester County for enforcement action. The county met with the dealership to resolve the issue. No</li> </ol>	District	Investigated	Verified	Re-classified	Bristol	3	0	0	Culpeper	0	0	0	Fredericksburg	2	1	0	Hampton Roads	20	1	0	Lynchburg	0	0	0	Northern Virginia	15	0	1	Richmond	36	2	3	Salem	2	0	0	Staunton	0	0	0
District	Investigated	Verified	Re-classified																																							
Bristol	3	0	0																																							
Culpeper	0	0	0																																							
Fredericksburg	2	1	0																																							
Hampton Roads	20	1	0																																							
Lynchburg	0	0	0																																							
Northern Virginia	15	0	1																																							
Richmond	36	2	3																																							
Salem	2	0	0																																							
Staunton	0	0	0																																							

		<p>further problems have been reported and the IDDE report has been closed.</p> <p>4) In an industrial park located off of Route 1, a slight petroleum sheen, as well as some white globules, were observed in an outfall which originated from an industrial equipment dealer lot. There were also several stained areas observed on the ground upgradient from the outfall, due mostly to equipment being parked there. Hanover County was contacted regarding this potential IDDE. The County met with the equipment dealership regarding this issue. No further problems have been reported and the IDDE report has been closed.</p>
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Note: \* A copy of the VDOT IDDE Manual is available at Maintenance Division's Central Office location.

#### **MCM #4: CONSTRUCTION SITE STORMWATER RUNOFF CONTROL**

The MS4 Program requirements for MCM #4 from the permit are partially summarized below.

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*The operator shall utilize its legal authority, such as ordinances, permits, orders, specific contract language, and interjurisdictional agreements, to address discharges entering the MS4 from the following land-disturbing activities:*

- (1) Land-disturbing activities as defined in § 62.1-44.15:51 of the Code of Virginia that result in the disturbance of 10,000 square feet or greater;*
- (2) Land-disturbing activities in jurisdictions in Tidewater Virginia, as defined in § 62.1- 44.15:68 of the Code of Virginia, that disturb 2,500 square feet or greater and are located in areas designated as Resource Protection Areas (RPA), Resource Management Areas (RMA) or Intensely Developed Acres (IDA), pursuant to the Chesapeake Bay Preservation Area Designation and Management Regulations adopted pursuant to the Chesapeake Bay Preservation Act;*
- (3) Land-disturbing activities disturbing less than the minimum land disturbance identified in subdivision (1) or (2) above for which a local ordinance requires that an erosion and sediment control plan be developed; and*
- (4) Land-disturbing activities on individual residential lots or sections of residential developments being developed by different property owners and where the total land disturbance of the residential development is 10,000 square feet or greater. The operator may utilize an agreement in lieu of a plan as provided in § 62.1-44.15:55 of the Code of Virginia for this category of land disturbances.*

*The operator shall require that land disturbance not begin until an erosion and sediment control plan or an agreement in lieu of a plan as provided in § 62.1-44.15:55 is approved by a VESCP authority in accordance with the Erosion and Sediment Control Law (§ 62.1-44.15:51 et seq. of the Code of Virginia). The plan shall be:*

- (1) Compliant with the minimum standards identified in 9VAC25-840-40 of the Erosion and Sediment Control Regulations; or*
- (2) Compliant with department-approved annual standards and specifications. Where applicable, the plan shall be consistent with any additional or more stringent, or both, erosion and sediment control requirements established by state regulation or local ordinance.*

*The operator shall inspect land-disturbing activities for compliance with an approved erosion and sediment control plan or agreement in lieu of a plan in accordance with the minimum standards identified in 9VAC25-840-40 or with department-approved annual standards and specifications.*

*The operator shall implement an inspection schedule for land-disturbing activities identified in Section II.B.4.a as follows:*

- (2) Upon initial installation of erosion and sediment controls;*
- (3) At least once during every two-week period;*
- (4) Within 48 hours of any runoff-producing storm event; and*
- (5) Upon completion of the project and prior to the release of any applicable performance bonds. Where an operator establishes an alternative inspection program as provided for in 9VAC25- 840-60 B 2, the written schedule shall be implemented in lieu of Section II B 4 c (2) and the written plan shall be included in the MS4 Program Plan.*

*Operator inspections shall be conducted by personnel who hold a certificate of competence in accordance with 9VAC25-850-40. Documentation of certification shall be made available upon request by the VESCP authority or other regulatory agency.*

*The operator shall promote to the public a mechanism for receipt of complaints regarding regulated land-disturbing activities and shall follow up on any complaints regarding potential water quality and compliance issues.*

*The operator shall utilize its legal authority to require compliance with the approved plan where an inspection finds that the approved plan is not being properly implemented.*

*The operator shall utilize, as appropriate, its legal authority to require changes to an approved plan when an inspection finds that the approved plan is inadequate to effectively control soil erosion, sediment deposition, and runoff to prevent the unreasonable degradation of properties, stream channels, waters, and other natural resources.*

*The operator shall require implementation of appropriate controls to prevent non-stormwater discharges to the MS4, such as wastewater, concrete washout, fuels and oils, and other illicit discharges identified during land-disturbing activity inspections of the MS4. The discharge of non-stormwater discharges other than those identified in 9VAC25-890-20 through the MS4 is not authorized by this state permit.*

*The operator may develop and implement a progressive compliance and enforcement strategy provided that such strategy is included in the MS4 Program Plan and is consistent with 9VAC25-840.*

*The operator shall implement enforceable procedures to require that large construction activities as defined in 9VAC25-870-10 and small construction activities as defined in 9VAC25-870-10, including municipal construction activities, secure necessary state permit authorizations from the department to discharge stormwater.*

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The following BMPs have been selected to address MCM#4:

- BMP 4(A) – Applicable Oversight
- BMP 4(B) – SWPPP Preparation
- BMP 4(C)1 & 4(C)2 – SWPPP Implementation, Compliance, and Enforcement

**BMP 4(A) – Applicable Oversight**

<b>Description and Measurable Goal:</b>	VDOT will utilize its annual ESC and SWM Standards & Specifications to address discharges entering the MS4 from VDOT land-disturbing activities regulated by the VPDES and VSMP.
<b>Lead Division:</b>	Location & Design
<b>Reference Documents:</b>	VDOT’s Annual ESC and SWM Standards & Specifications* Database to track land-disturbing activities regulated under CGP

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Continue to obtain annual approval of VDOT’s ESC and SWM Standards & Specifications from DEQ.	Update components of the Standards & Specifications as regulations and operations warrant.	VDOT has continued coordinate with DEQ on annual approval of ESC and SWM Standards & Specifications.  VDOT has made continual modifications, revisions, and updates to VDOT Road and Bridge Specifications, Copied Notes, Special Provisions, and Standards to maintain compliance with applicable regulatory and permit requirements.
Continue to track the total number of land disturbing activities registered for Construction General Permit Coverage.	This aspect of the BMP is currently implemented and is an ongoing annual effort.	There were 28 RLDAs registered for construction permit coverage from July 01, 2014 to June 30, 2015 with a total of 756.40 acres of land disturbance.

*Note: \* A copy of VDOT’s Annual ESC and SWM Standards & Specifications is available at Location & Design Division’s Central Office location.*

**BMP 4(B) – Require Contractors to Prepare SWPPP**

<b>Description and Measurable Goal:</b>	Prepare and implement Stormwater Pollution Prevention Plans (SWPPPs) including an ESC Plan and Pollution Prevention Plans for regulated land-disturbing activities.
<b>Lead Division:</b>	Location & Design
<b>Reference Documents:</b>	VDOT’s Annual ESC and SWM Standards & Specifications*, including: Plan design and review procedures and associated documents

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Continue to require the ESC plan to be developed in accordance with VDOT’s annual ESC Standards & Specifications prior to commencing land disturbing activities.	This aspect of the BMP is currently implemented and is an ongoing annual effort.	All ESC Plans for RLDAs were developed in accordance with VDOT’s annual ESC Standards & Specifications.
Continue to require applicable RLDA to secure the necessary state permit authorizations from DEQ to discharge stormwater from construction sites.	This aspect of the BMP is currently implemented and is an ongoing annual effort.	There were 28 RLDAs registered for construction permit coverage from July 01, 2014 to June 30, 2015 with a total of 756.40 acres of land disturbance.

*Note: \* A copy of VDOT’s Annual ESC and SWM Standards & Specifications is available at Location & Design Division’s Central Office location.*

**BMP 4(C)1 – SWPPP Implementation, Compliance, and Enforcement**

<b>Description and Measurable Goal:</b>	Inspect and enforce compliance with the VPDES Construction General Permit and attending regulations on applicable projects.
<b>Lead Division:</b>	Construction
<b>Reference Documents:</b>	VDOT’s Annual ESC and SWM Standards & Specifications*, including: Section 107.16(a) – Erosion and Siltation Section 107.16(b) – Pollution Section 107.16(e) – Storm Water Pollution Prevention Plan and VPDES General Permit for the Discharge of Stormwater from Construction Activities C-107: Construction Runoff Control Inspection Form (CRCIF)

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Perform construction inspections for compliance with VESCLR, CGP and Annual ESC and SWM Standards & Specifications.	This aspect of the BMP is currently implemented and is an ongoing effort – VDOT will inspect regulated land-disturbing activities in accordance with the Annual ESC and SWM Standards & Specifications.	There were 28 RLDA’s registered for construction permit coverage from July 01, 2014 to June 30, 2015.  The inspection schedule of every five business days and within 48 hours after any measurable storm event is applied statewide regardless of whether or not an Impaired, TMDL, or Exceptional water is present. Given this schedule and the total number of projects, VDOT estimates the total number of inspections performed to be approximately 1,500 for the reporting year.
Require compliance with SWPPP plans including the ESC Plan, and require changes/ modifications to SWPPPs, as necessary, to maintain compliance with applicable regulations. Also, utilize enforcement authority if necessary.	This aspect of the BMP is currently implemented and is an ongoing effort.	VDOT did not initiate enforcement action on a RLDA during the reporting year.
Create a central electronic database of construction records for VDOT projects throughout Virginia.	Develop the database within 3 years of permit coverage,	Construction Division is developing a new project document management system (PDMS) to log inspection information. Implementation of new PDMS system pilot program is anticipated by the end of the 2015 calendar year with full implementation of the PDMS system in April 2016.

*Note: \* A copy of VDOT’s Annual ESC and SWM Standards & Specifications is available at Location & Design Division’s Central Office location.*

**BMP 4(C)2 – SWPPP Implementation, Compliance, and Enforcement**

<b>Description and Measurable Goal:</b>	Annually inspect a select number of projects for compliance with the VPDES Construction General Permit requirements.
<b>Lead Division:</b>	Location & Design Division
<b>Reference Documents:</b>	VDOT’s Annual ESC and SWM Standards & Specifications*, including: Section 107.16(a) – Erosion and Siltation Section 107.16(b) – Pollution Section 107.16(e) – Storm Water Pollution Prevention Plan and VPDES General Permit for the Discharge of Stormwater from Construction Activities C-107: Construction Runoff Control Inspection Form (CRCIF)

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Continue to perform third-party SWPPP QA construction Inspections for compliance with VESCLR, CGP and Annual ESC and SWM Standards & Specifications	This aspect of the BMP is currently implemented and is an ongoing effort.	VDOT’s MS4 consultant performed a total of 37 third-party SWPPP QA construction inspections throughout the nine VDOT districts during this reporting year.

*Note: \* A copy of VDOT’s Annual ESC and SWM Standards & Specifications is available at Location & Design Division’s Central Office location.*

## **MCM #5: POST-CONSTRUCTION STORMWATER MANAGEMENT**

The MS4 Program requirements for MCM #5 from the permit are partially summarized below.

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*The operator shall address post-construction stormwater runoff that enters the MS4 from the following land-disturbing activities:*

- (1) New development and development on prior developed lands that are defined as large construction activities or small construction activities in 9VAC25-870-10;*
- (2) New development and development on prior developed lands that disturb greater than or equal to 2,500 square feet, but less than one acre, located in a Chesapeake Bay Preservation Area designated by a local government located in Tidewater, Virginia, as defined in § 62.1-44.15:68 of the Code of Virginia; and*
- (3) New development and development on prior developed lands where an applicable state regulation or local ordinance has designated a more stringent regulatory size threshold than that identified in subdivision (1) or (2) above.*

*The operator shall utilize legal authority, such as ordinances, permits, orders, specific contract language, and interjurisdictional agreements, to require that activities identified in Section II.B.5.a address stormwater runoff in such a manner that stormwater runoff controls are designed and installed:*

- (1) In accordance with the appropriate water quality and water quantity design criteria as required in Part II (9VAC25-870-40 et seq.) of 9VAC25-870;*
- (2) In accordance with any additional applicable state or local design criteria required at project initiation; and*
- (3) Where applicable, in accordance with any department-approved annual standards and specifications.*

*For stormwater management facilities not owned by the MS4 operator, the following conditions apply:*

- (1) The operator shall require adequate long-term operation and maintenance by the owner of the stormwater management facility by requiring the owner to develop a recorded inspection schedule and maintenance agreement to the extent allowable under state or local law or other legal mechanism;*
- (2) The operator or his designee shall implement a schedule designed to inspect all privately owned stormwater management facilities that discharge into the MS4 at least once every five years to document that maintenance is being conducted in such a manner to ensure long-term operation in accordance with the approved designs.*
- (3) The operator shall utilize its legal authority for enforcement of maintenance responsibilities if maintenance is neglected by the owner. The operator may develop and implement a progressive compliance and enforcement strategy provided that the strategy is included in the MS4 Program Plan.*
- (4) Beginning with the issuance of this state permit, the operator may utilize strategies other than maintenance agreements such as periodic inspections, homeowner outreach and education, and other methods targeted at promoting the long-term maintenance of stormwater control measures that are designed to treat stormwater runoff solely from the individual residential lot. Within 12 months of coverage under this permit, the operator shall develop and implement these alternative strategies and include them in the MS4 Program Plan.*

*For stormwater management facilities owned by the MS4 operator, the following conditions apply:*

- (5) The operator shall provide for adequate long-term operation and maintenance of its stormwater management facilities in accordance with written inspection and maintenance procedures included in the MS4 Program Plan.*
- (6) The operator shall inspect these stormwater management facilities annually. The operator may choose to implement an alternative schedule to inspect these stormwater management facilities based on facility type and expected maintenance needs provided that the alternative schedule is included in the MS4 Program Plan.*
- (7) The operator shall conduct maintenance on its stormwater management facilities as necessary.*

*The operator shall maintain an updated electronic database of all known operator-owned and privately-owned stormwater management facilities that discharge into the MS4. The database shall include the following:*

- (1) The stormwater management facility type;*
- (2) A general description of the facility's location, including the address or latitude and longitude;*
- (3) The acres treated by the facility, including total acres, as well as the breakdown of pervious and impervious acres;*
- (4) The date the facility was brought online (MM/YYYY). If the date is not known, the operator shall use June 30, 2005, as the date brought online for all previously existing stormwater management facilities;*

- (5) *The sixth order hydrologic unit code (HUC) in which the stormwater management facility is located;*
- (6) *The name of any impaired water segments within each HUC listed in the 2010 § 305(b)/303(d) Water Quality Assessment Integrated Report to which the stormwater management facility discharges;*
- (7) *Whether the stormwater management facility is operator-owned or privately-owned;*
- (8) *Whether a maintenance agreement exists if the stormwater management facility is privately owned; and*
- (9) *The date of the operator's most recent inspection of the stormwater management facility. In addition, the operator shall annually track and report the total number of inspections completed and, when applicable, the number of enforcement actions taken to ensure long-term maintenance.*

*The operator shall submit an electronic database or spreadsheet of all stormwater management facilities brought online during each reporting year with the appropriate annual report. Upon such time as the department provides the operators access to a statewide web-based reporting electronic database or spreadsheet, the operator shall utilize such database to complete the pertinent reporting requirements of this state permit.*

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The following BMPs have been selected to address MCM#5:

- BMP 5(A) – Applicable Oversight Requirements
- BMP 5(B) – SWM Plan Preparation and Implementation
- BMP 5(C) – Long-Term Care and Maintenance of SWM Facilities

Note: The local MS4 Authority shall implement a schedule designed to inspect all privately owned stormwater management facilities that discharge into VDOT's MS4 as they, not VDOT, will have jurisdictional control over the design, construction, and maintenance of these facilities.

**BMP 5(A) – Applicable Oversight Requirements**

<b>Description and Measurable Goal:</b>	VDOT will utilize its annual ESC and SWM Standards & Specifications to address post-construction stormwater runoff that enters the MS4 from regulated land-disturbing activities.
<b>Lead Division:</b>	Location & Design
<b>Reference Documents:</b>	VDOT’s Annual ESC and SWM Standards & Specifications*

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Continue to obtain annual approval of VDOT’s ESC and SWM Standards & Specifications.	Update components of the Standards & Specifications as regulations and operations warrant.	<p>VDOT has continued to coordinate with DEQ on annual approval of ESC and SWM Standards &amp; Specifications.</p> <p>VDOT has made continual modifications, revisions, and updates to VDOT Road and Bridge Specifications, Copied Notes, Special Provisions, and Standards to maintain compliance with applicable regulatory and permit requirements.</p>

*Note: \* A copy of VDOT’s Annual ESC and SWM Standards & Specifications is available at Location & Design Division’s Central Office location.*

**BMP 5(B) – SWM Plan Preparation and Implementation**

<b>Description and Measurable Goal:</b>	Prepare and implement post-construction stormwater management plans in accordance with VDOT’s annual ESC and SWM Standards and Specifications for regulated land-disturbing activities.
<b>Lead Division:</b>	Location & Design
<b>Reference Documents:</b>	VDOT’s Annual ESC and SWM Standards & Specifications*, including: Policies and procedures utilized to ensure that stormwater management (SWM) facilities are designed and installed Standards & Specifications for non-proprietary BMPs Hydraulic and Maintenance BMP databases to track SWM facility information

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Continue to specify design criteria for post-construction stormwater runoff controls.	This aspect of the BMP is currently implemented and is an ongoing annual effort.	VDOT continues to require SWM Plans to incorporate design criteria for post-construction stormwater runoff controls in accordance with the VDOT annual ESC and SWM Standards & Specifications.
Continue to develop stormwater management plans that are in accordance with VDOT’s annual ESC and SWM Standards & Specifications	This aspect of the BMP is currently implemented and is an ongoing annual effort.	All SWM Plans for RLDAs were developed in accordance with VDOT’s annual ESC Standards & Specifications.
Continue to inventory post-construction SWM facilities and related hydraulic and design information.	VDOT has previously implemented this requirement, and will continue to inventory new BMPs as they are brought online.	A summary table of new stormwater facilities brought online during the reporting period is provided in Appendix D.

*Note: \* A copy of VDOT’s Annual ESC and SWM Standards & Specifications is available at Location & Design Division’s Central Office location.*

**BMP 5(C) – Long-Term Care and Maintenance of SWM Facilities**

<b>Description and Measurable Goal:</b>	Provide adequate long-term operation and maintenance of its SWM facilities in accordance with the VDOT BMP Inspection and Maintenance Manuals.
<b>Lead Division:</b>	Maintenance
<b>Reference Documents:</b>	VDOT’s Annual ESC and SWM Standards and Specifications*, including: VDOT BMP Inspection Manual VDOT BMP Maintenance Manual

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Continue to annually inspect VDOT post-construction SWM facilities in accordance with VDOT BMP Inspection Manual, and record inspections in SWM facility database.	This aspect of the BMP is currently implemented and is an ongoing effort.	The inventory and inspections of stormwater facilities within Census Urban Areas is provided Appendix E.
Continue maintenance on its post-construction SWM facilities in accordance with the VDOT BMP Maintenance Manual	This aspect of the BMP is currently implemented and is an ongoing effort.	The Districts are maintaining the BMP’s in accordance with the BMP Maintenance Manual.

*Note: \* A copy of VDOT’s Annual ESC and SWM Standards & Specifications is available at Maintenance Division’s Central Office location.*

## **MCM #6: POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR VDOT OPERATIONS**

The MS4 Program requirements for MCM #6 from the permit are partially summarized below.

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*The operator shall develop and implement written procedures designed to minimize or prevent pollutant discharge from: (i) daily operations such as road, street, and parking lot maintenance; (ii) equipment maintenance; and (iii) the application, storage, transport, and disposal of pesticides, herbicides, and fertilizers. The written procedures shall be utilized as part of the employee training. At a minimum, the written procedures shall be designed to:*

- (1) Prevent illicit discharges;*
- (2) Ensure the proper disposal of waste materials, including landscape wastes;*
- (3) Prevent the discharge of municipal vehicle wash water into the MS4 without authorization under a separate VPDES permit;*
- (4) Prevent the discharge of wastewater into the MS4 without authorization under a separate VPDES permit;*
- (5) Require implementation of best management practices when discharging water pumped from utility construction and maintenance activities;*
- (6) Minimize the pollutants in stormwater runoff from bulk storage areas (e.g., salt storage, topsoil stockpiles) through the use of best management practices;*
- (7) Prevent pollutant discharge into the MS4 from leaking municipal automobiles and equipment; and*
- (8) Ensure that the application of materials, including fertilizers and pesticides, is conducted in accordance with the manufacturer's recommendations.*

*Within 12 months of state permit coverage, the operator shall identify all municipal high priority facilities. These high-priority facilities shall include: (i) composting facilities, (ii) equipment storage and maintenance facilities, (iii) materials storage yards, (iv) pesticide storage facilities, (v) public works yards, (vi) recycling facilities, (vii) salt storage facilities, (viii) solid waste handling and transfer facilities, and (ix) vehicle storage and maintenance yards.*

*Within 12 months of state permit coverage, the operator shall identify which of the municipal high-priority facilities have a high potential of discharging pollutants. Municipal high-priority facilities that have a high potential for discharging pollutants are those facilities identified in subsection (1) above that are not covered under a separate VPDES permit and which any of the following materials or activities occur and are expected to have exposure to stormwater resulting from rain, snow, snowmelt or runoff:*

- (1) Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater;*
- (2) Materials or residuals on the ground or in stormwater inlets from spills or leaks;*
- (3) Material handling equipment (except adequately maintained vehicles);*
- (4) Materials or products that would be expected to be mobilized in stormwater runoff during loading/unloading or transporting activities (e.g., rock, salt, fill dirt);*
- (5) Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants);*
- (6) Materials or products that would be expected to be mobilized in stormwater runoff contained in open, deteriorated or leaking storage drums, barrels, tanks, and similar containers;*
- (7) Waste material except waste in covered, non-leaking containers (e.g., dumpsters);*
- (8) Application or disposal of process wastewater (unless otherwise permitted); or*
- (9) Particulate matter or visible deposits of residuals from roof stacks, vents or both not otherwise regulated (i.e., under an air quality control permit) and evident in the stormwater runoff.*

*The operator shall develop and implement specific stormwater pollution prevention plans for all high-priority facilities identified in subdivision 2 of this subsection. The operator shall complete SWPPP development and implementation shall be completed within 48 months of coverage under this state permit. Facilities covered under a separate VPDES permit shall adhere to the conditions established in that permit and are excluded from this requirement.*

*Each SWPPP shall include:*

- (1) A site description that includes a site map identifying all outfalls, direction of flows, existing source controls, and receiving water bodies;*

- (2) A discussion and checklist of potential pollutants and pollutant sources;
- (3) A discussion of all potential non-stormwater discharges;
- (4) Written procedures designed to reduce and prevent pollutant discharge;
- (5) A description of the applicable training as required in Section II B 6 d;
- (6) Procedures to conduct an annual comprehensive site compliance evaluation;
- (7) An inspection and maintenance schedule for site specific source controls. The date of each inspection and associated findings and follow-up shall be logged in each SWPPP;
- (8) The contents of each SWPPP shall be evaluated and modified as necessary to accurately reflect any discharge, release, or spill from the high priority facility reported in accordance with Section III G. For each such discharge, release, or spill, the SWPPP must include the following information: date of incident; material discharged, released, or spilled; and quantity discharged, released or spilled; and
- (9) A copy of each SWPPP shall be kept at each facility and shall be kept updated and utilized as part of staff training required in Section II B 6 d.

The operator shall implement turf and landscape nutrient management plans that have been developed by a certified turf and landscape nutrient management planner in accordance with § 10.1-104.2 of the Code of Virginia on all lands owned or operated by the MS4 operator where nutrients are applied to a contiguous area greater than one acre. Implementation shall be in accordance with the following schedule:

- (1) Within 12 months of state permit coverage, the operator shall identify all applicable lands where nutrients are applied to a contiguous area of more than one acre. A latitude and longitude shall be provided for each such piece of land and reported in the annual report.
- (2) Within 60 months of state permit coverage, the operator shall implement turf and landscape nutrient management plans on all lands where nutrients are applied to a contiguous area of more than one acre. The following measurable outcomes are established for the implementation of turf and landscape nutrient management plans: (i) within 24 months of permit coverage, not less than 15% of all identified acres will be covered by turf and landscape nutrient management plans; (ii) within 36 months of permit coverage, not less than 40% of all identified acres will be covered by turf and landscape nutrient management plans; and (iii) within 48 months of permit coverage, not less than 75% of all identified acres will be covered by turf and landscape nutrient management plans. The operator shall not fail to meet the measurable goals for two consecutive years.
- (3) MS4 operators with lands regulated under § 10.1-104.4 of the Code of Virginia shall continue to implement turf and landscape nutrient management plans in accordance with this statutory requirement.

Operators shall annually track the following:

- (1) The total acreage of lands where turf and landscape nutrient management plans are required; and
- (2) The acreage of lands upon which turf and landscape nutrient management plans have been implemented.
- (3) The operator shall not apply any deicing agent containing urea or other forms of nitrogen or phosphorus to parking lots, roadways, and sidewalks, or other paved surfaces.

The operator shall conduct training for employees. The training requirements may be fulfilled, in total or in part, through regional training programs involving two or more MS4 localities provided; however, that each operator shall remain individually liable for its failure to comply with the training requirements in this permit. Training is not required if the topic is not applicable to the operator's operations and therefore does not have applicable personnel provided the lack of applicability is documented in the MS4 Program Plan. The operator shall determine and document the applicable employees or positions to receive each type of training. The operator shall develop an annual written training plan including a schedule of training events that ensures implementation of the training requirements as follows:

- (1) The operator shall provide biennial training to applicable field personnel in the recognition and reporting of illicit discharges.
- (2) The operator shall provide biennial training to applicable employees in good housekeeping and pollution prevention practices that are to be employed during road, street, and parking lot maintenance.
- (3) The operator shall provide biennial training to applicable employees in good housekeeping and pollution prevention practices that are to be employed in and around maintenance and public works facilities.
- (4) The operator shall ensure that employees, and require that contractors, who apply pesticides and herbicides are properly trained or certified in accordance with the Virginia Pesticide Control Act (§ 3.2-3900 et seq. of the Code of Virginia).

- (5) *The operator shall ensure that employees and contractors serving as plan reviewers, inspectors, program administrators, and construction site operators obtain the appropriate certifications as required under the Virginia Erosion and Sediment Control Law and its attendant regulations.*
- (6) *The operator shall ensure that applicable employees obtain the appropriate certifications as required under the Virginia Erosion and Sediment Control Law and its attendant regulations.*
- (7) *The operators shall provide biennial training to applicable employees in good housekeeping and pollution prevention practices that are to be employed in and around recreational facilities.*
- (8) *The appropriate emergency response employees shall have training in spill responses. A summary of the training or certification program provided to emergency response employees shall be included in the first annual report.*
- (9) *The operator shall keep documentation on each training event including the training date, the number of employees attending the training, and the objective of the training event for a period of three years after each training event.*

*The operator shall require that municipal contractors use appropriate control measures and procedures for stormwater discharges to the MS4 system. Oversight procedures shall be described in the MS4 Program Plan.*

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The following BMPs have been selected to address MCM#6:

- BMP 6(A)1 & 6(A)2 – Procedures for Operation and Maintenance Activities
- BMP 6(B) – Pollution Prevention at Maintenance Facilities
- BMP 6(C) – Turf and Landscape Management
- BMP 6(D)1 through 6(D)4 – Training of VDOT Forces
- BMP 6(E) – Oversight of VDOT Maintenance Contractors

**BMP 6(A)1 – Procedures for Operation and Maintenance Activities**

<b>Description and Measurable Goal:</b>	Develop and refine written procedures designed to minimize or prevent pollutant discharge from daily operations, equipment maintenance, and the application, storage, transport, and disposal of pesticides, herbicides, and fertilizers.
<b>Lead Division:</b>	Maintenance
<b>Reference Documents:</b>	Maintenance Best Practices Manual*

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Continue to develop and refine applicable sections of the Maintenance Best Practices Manual for MS4 regulated activities	This aspect of the BMP is currently implemented and is an ongoing effort.	A rewrite of the Maintenance Best Practices Manual was completed in March of 2014. No revisions have been made to the practices related to prevent pollutant discharge from daily operations, equipment maintenance, and the application, storage, transport, and disposal of pesticides, herbicides, and fertilizers since March 2014.

*Note: \* A copy of the Maintenance Best Practices Manual is available at Maintenance Division’s Central Office location. The Maintenance Best Practices Manual makes reference to the Waste Management and Pollution Prevention Guides discussed in BMP 6(A)2.*

**BMP 6(A)2 – Procedures for Operation and Maintenance Activities**

<b>Description and Measurable Goal:</b>	Develop and refine, as appropriate, written procedures designed to minimize or prevent pollutant discharge from daily operations, equipment maintenance, and the application, storage, transport, and disposal of pesticides, herbicides, and fertilizers.
<b>Lead Division:</b>	Environmental
<b>Reference Documents:</b>	Waste Management and Pollution Prevention Guides

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Continue to develop and refine applicable sections of Waste Management and Pollution Prevention Guides that apply to MS4 regulated activities	This aspect of the BMP is currently implemented and is an ongoing effort	The WMPPG has been revised to include a MS4/WMPPG Crosswalk chart, which provides a general overview of Specific MS4 Permit requirements and the associated WMPP Guides that can be used to assist compliance.  The most current version of the WMPPG is dated January 2015.

*Note: \* A copy of the Waste Management and Pollution Prevention Guides is available at Environmental Division's Central Office location.*

**BMP 6(B) – Pollution Prevention at Maintenance Facilities**

<b>Description and Measurable Goal:</b>	Develop and refine, as appropriate, procedures designed to minimize or prevent pollutant discharge from maintenance facilities, as applicable.
<b>Lead Division:</b>	Environmental
<b>Reference Documents:</b>	List of High Priority Facilities* Applicable Stormwater Pollution Prevention Plans (once developed)*

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Continue to develop and refine applicable sections of Waste Management and Pollution Prevention Guides that apply to activities at maintenance facilities	This aspect of the BMP is currently implemented and is an ongoing effort.	The WMPPG has been revised to include a MS4/WMPPG Crosswalk chart, which provides a general overview of Specific MS4 Permit requirements and the associated WMPP Guides that can be used to assist compliance.  The most current version of the WMPPG is dated January 2015.
Identify high priority facilities as defined by the small MS4 General Permit	The effort has been completed. The list will be annually evaluated to determine if additional facilities are determined to be high priority.	VDOT maintains a list of high-priority facilities. Currently, there are 69 facilities that are identified as high-priority facilities, and require SWPPP development and implementation.
Continue to develop and refine SWPPPs for high priority facilities	Develop SWPPPs for all applicable high priority facilities within 48 months from permit coverage.	VDOT has developed SWPPPs for all high-priority facilities in the Richmond District. VDOT will provide SWPPP training to District personnel in the first quarter of the next reporting year.  VDOT will develop and implement SWPPPs for the remaining Districts with high-priority facilities during the next reporting year.
Continue to perform annual MS4 compliance assessments at VDOT high priority facilities within the MS4 Areas	This aspect of the BMP is currently implemented and is an ongoing effort.	VDOT performed MS4 compliance assessment for all high-priority facilities within the MS4 areas.

*Notes: \* This list of the high-priority facilities and associated SWPPPs is available at Environmental Division's Central Office location.*

**BMP 6(C) – Turf and Landscape Management**

<b>Description and Measurable Goal:</b>	Develop and refine turf and landscape nutrient management plans (NMPs) that have been developed by a certified turf and landscape nutrient management planner.
<b>Lead Division:</b>	Maintenance
<b>Reference Documents:</b>	List of Applicable Lands that Require NMPs* Applicable Nutrient Management Plans (once developed)* Roadside Development Standards and Specifications**

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Identify all applicable lands where nutrients are applied to a contiguous area of more than one acre.	This effort has been completed. The list will be evaluated annually to determine if updates are required.	Nutrient Management Plans (NMPs) for two facilities remain active at the end of this reporting year. These facilities are the Hampton Roads Transportation Operations Center and the Norfolk Interstate Residency for a total acreage of 3.23.  A total of 47 NMPs for facilities expired during the permit year. Of the 47 NMPs, 42 were for Rest Areas/Welcome Centers covering an area of 151.4 acres and 5 were for Residencies/ District offices covering an area of 9.055 acres.
Continue to develop and refine NMPs on all lands where nutrients are applied to a contiguous area of more than one acre.	This aspect of the BMP is currently implemented and is an ongoing effort.	No new NMPs were required for VDOT Facilities during this reporting period.
Continue to develop and refine Nutrient Management Standards & Specifications as approved by DCR for roadside development during construction and maintenance activities.	This aspect of the BMP is currently implemented with approved district specific NMPs and is an ongoing effort.	The Roadside NMP and Construction NMP have been developed and approved by DCR. The revised Roadside and Construction NMP incorporate the most recent changes from the Urban Nutrient Management Handbook published by DCR. A Roadside Development committee is being formed to administer the development of all policies, specifications, standards and approved products lists necessary to implement the Construction and Roadside NMPs.

*Note: \* The list of the applicable lands and associated NMPs is available at Maintenance Division’s Central Office location.*

*\*\* The Roadside Development Standards & Specifications is available at Maintenance Division’s Central Office location.*

**BMP 6(D)1 – Training of VDOT Forces**

<b>Description and Measurable Goal:</b>	Continue to implement VDOT’s efforts to prevent and reduce stormwater pollution from VDOT-related activities.
<b>Lead Division:</b>	Environmental (for division specific elements of VDOT’s Employee Training Program for MS4 and Stormwater)
<b>Reference Documents:</b>	VDOT Employee Training Program for MS4 and Stormwater* Annual Environmental Training Plan** In-Stream Maintenance Training Materials “Environmental Compliance for Maintenance Activities” VDOT IDDE Manual VDOT IDDE Training Modules

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>																																																												
Develop and deliver a training plan to include, but not limited to, training on the IDDE program and appropriate spill prevention and responses.	Starting in the second year of permit coverage, VDOT will provide training to applicable field personnel.	<p>The following is a summary of training provided by the Environmental Division for the reporting year. There 664 attendees during the reporting year.</p> <table border="1"> <thead> <tr> <th><b>Name</b></th> <th><b>Training Date</b></th> <th><b># of Employees</b></th> </tr> </thead> <tbody> <tr><td>MS4 Training</td><td>7/9/14</td><td>54</td></tr> <tr><td>MS4 Training</td><td>9/3/14</td><td>16</td></tr> <tr><td>MS4 Training</td><td>9/18/14</td><td>13</td></tr> <tr><td>MS4 Training</td><td>9/25/14</td><td>21</td></tr> <tr><td>In-Stream Maintenance</td><td>2/4/15</td><td>100</td></tr> <tr><td>In-Stream Maintenance</td><td>3/3/15</td><td>24</td></tr> <tr><td>In-Stream Maintenance</td><td>3/10/15</td><td>30</td></tr> <tr><td>In-Stream Maintenance</td><td>3/17/15</td><td>16</td></tr> <tr><td>In-Stream Maintenance</td><td>3/17 – 3/18/15</td><td>104</td></tr> <tr><td>MS4/Waste Management</td><td>3/24/15</td><td>6</td></tr> <tr><td>In-Stream Maintenance</td><td>3/31/15</td><td>17</td></tr> <tr><td>MS4/Waste Management/SPCC</td><td>4/13/15</td><td>24</td></tr> <tr><td>MS4/Waste Management /SPCC</td><td>4/14/15</td><td>27</td></tr> <tr><td>IDDE Training</td><td>4/29/15</td><td>15</td></tr> <tr><td>In-Stream Maintenance</td><td>4/30/15</td><td>100</td></tr> <tr><td>MS4/Waste Management</td><td>5/7/15</td><td>13</td></tr> <tr><td>MS4/Waste Management</td><td>6/10/15</td><td>13</td></tr> <tr><td>In-Stream Maintenance</td><td>6/30/15</td><td>30</td></tr> <tr><td>IDDE Training/SPCC</td><td>6/30/15</td><td>12</td></tr> </tbody> </table> <p>The objective of instream maintenance training is to provide employees with the proper construction techniques when working in and around waterbodies. The objective of MS4 Training consists of two components: 1) Pollution Prevention and Good Housekeeping, to support pollution prevention and good housekeeping practices on maintenance operations within the right-of-way and at VDOT facilities, and 2) Illicit Discharge Detection and Elimination Training. Waste Management training covers waste management procedures and best management practices. SPCC training is delivered at facilities that operate under an SPCC plan.</p>	<b>Name</b>	<b>Training Date</b>	<b># of Employees</b>	MS4 Training	7/9/14	54	MS4 Training	9/3/14	16	MS4 Training	9/18/14	13	MS4 Training	9/25/14	21	In-Stream Maintenance	2/4/15	100	In-Stream Maintenance	3/3/15	24	In-Stream Maintenance	3/10/15	30	In-Stream Maintenance	3/17/15	16	In-Stream Maintenance	3/17 – 3/18/15	104	MS4/Waste Management	3/24/15	6	In-Stream Maintenance	3/31/15	17	MS4/Waste Management/SPCC	4/13/15	24	MS4/Waste Management /SPCC	4/14/15	27	IDDE Training	4/29/15	15	In-Stream Maintenance	4/30/15	100	MS4/Waste Management	5/7/15	13	MS4/Waste Management	6/10/15	13	In-Stream Maintenance	6/30/15	30	IDDE Training/SPCC	6/30/15	12
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*Note: \* A copy of The VDOT Employee Training Program for MS4 and Stormwater is available at Location & Design Division’s Central Office location.  
 \*\* A copy of the Annual Environmental Training Plan is available at Environmental Division’s Central Office location.*

**BMP 6(D)2 – Training of VDOT Forces**

<b>Description and Measurable Goal:</b>	Continue to develop and refine VDOT’s efforts to prevent and reduce stormwater pollution from VDOT-related activities.
<b>Lead Division:</b>	Maintenance (for division specific elements of VDOT’s Employee Training Program for MS4 and Stormwater)
<b>Reference Documents:</b>	VDOT Employee Training Program for MS4 and Stormwater* Annual Maintenance Training Plan**

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>																																	
Ensure that VDOT employees and contractors who apply pesticides and herbicides are properly trained or certified in accordance with the Virginia Pesticide Control Act.	This aspect of the BMP is currently implemented and is an ongoing effort.	<p>The following is a summary of trained and certified Roadside Management pesticide applicators. There are 28 trained applicators, of which 13 were re-certified during this reporting year.</p> <table border="1"> <thead> <tr> <th><b>District</b></th> <th><b>Currently Trained</b></th> <th><b>Re-certified</b></th> </tr> </thead> <tbody> <tr> <td>Bristol</td> <td>4</td> <td>4</td> </tr> <tr> <td>Culpeper</td> <td>3</td> <td>0</td> </tr> <tr> <td>Fredericksburg</td> <td>2</td> <td>2</td> </tr> <tr> <td>Hampton Roads</td> <td>3</td> <td>3</td> </tr> <tr> <td>Lynchburg</td> <td>3</td> <td>0</td> </tr> <tr> <td>Northern Virginia</td> <td>1</td> <td>1</td> </tr> <tr> <td>Richmond</td> <td>3</td> <td>0</td> </tr> <tr> <td>Salem</td> <td>5</td> <td>0</td> </tr> <tr> <td>Staunton</td> <td>3</td> <td>3</td> </tr> <tr> <td>Central Office</td> <td>1</td> <td>0</td> </tr> </tbody> </table>	<b>District</b>	<b>Currently Trained</b>	<b>Re-certified</b>	Bristol	4	4	Culpeper	3	0	Fredericksburg	2	2	Hampton Roads	3	3	Lynchburg	3	0	Northern Virginia	1	1	Richmond	3	0	Salem	5	0	Staunton	3	3	Central Office	1	0
<b>District</b>	<b>Currently Trained</b>	<b>Re-certified</b>																																	
Bristol	4	4																																	
Culpeper	3	0																																	
Fredericksburg	2	2																																	
Hampton Roads	3	3																																	
Lynchburg	3	0																																	
Northern Virginia	1	1																																	
Richmond	3	0																																	
Salem	5	0																																	
Staunton	3	3																																	
Central Office	1	0																																	

*Note: \* A copy of The VDOT Employee Training Program for MS4 and Stormwater is available at Location & Design Division’s Central Office location.  
 \*\* A copy of the Annual Maintenance Training Plan is available at Maintenance Division’s Central Office location.*

**BMP 6(D)3 – Training of VDOT Forces**

<b>Description and Measurable Goal:</b>	Continue to train VDOT forces to prevent and reduce stormwater pollution from VDOT-related activities.
<b>Lead Division:</b>	Construction (for division specific elements of VDOT’s Employee Training Program for MS4 and Stormwater)
<b>Reference Documents:</b>	VDOT Employee Training Program for MS4 and Stormwater*

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>																				
Ensure applicable construction personnel receive training on the IDDE program and appropriate spill responses discussed in BMP 6(D)1.	Starting in the second year of permit coverage, provide training to applicable field personnel.	<p>VDOT provided training on implementing VPDES construction permit requirements at permitted RLDA projects in all nine Districts. VDOT training elements include the Pollution Prevention (P2) Field Guide, the revised C-107 inspection form, the S107J30 Special Provision, and the revised SWPPP General Information Sheets.</p> <p>VPDES Construction Implementation Training:</p> <table border="1"> <thead> <tr> <th><u>Date</u></th> <th><u># of Attendees</u></th> </tr> </thead> <tbody> <tr><td>5/26/15</td><td>30</td></tr> <tr><td>5/27/15</td><td>33</td></tr> <tr><td>5/28/15</td><td>29</td></tr> <tr><td>5/29/15</td><td>33</td></tr> <tr><td>6/3/15</td><td>40</td></tr> <tr><td>6/4/15</td><td>36</td></tr> <tr><td>6/8/15</td><td>40</td></tr> <tr><td>6/9/15</td><td>24</td></tr> <tr><td>6/10/15</td><td>25</td></tr> </tbody> </table> <p>There were 290 individuals in total that were trained in VPDES construction permit requirements during the reporting year</p>	<u>Date</u>	<u># of Attendees</u>	5/26/15	30	5/27/15	33	5/28/15	29	5/29/15	33	6/3/15	40	6/4/15	36	6/8/15	40	6/9/15	24	6/10/15	25
<u>Date</u>	<u># of Attendees</u>																					
5/26/15	30																					
5/27/15	33																					
5/28/15	29																					
5/29/15	33																					
6/3/15	40																					
6/4/15	36																					
6/8/15	40																					
6/9/15	24																					
6/10/15	25																					

*Note: \* A copy of The VDOT Employee Training Program for MS4 and Stormwater is available at Location & Design Division’s Central Office location.*

### BMP 6(D)4 – Training of VDOT Forces

<b>Description and Measurable Goal:</b>	Continue to implement VDOT’s efforts to prevent and reduce stormwater pollution from VDOT-related activities.
<b>Lead Division:</b>	Learning Center (for division specific elements of VDOT’s Employee Training Program for MS4 and Stormwater)
<b>Reference Documents:</b>	VDOT Employee Training Program for MS4 and Stormwater*

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>																																				
Ensure that VDOT employees and consultants serving as plan reviewers and inspectors obtain the appropriate certifications as specified in VDOT’s annual ESC and SWM standards and specifications.	This aspect of the BMP is currently implemented and is an ongoing effort.	<p>A total of 839 VDOT individuals are certified through the DEQ ESC and/or SWM Certification Program The following list identifies the total number of VDOT individuals certified or re-certified this reporting period.</p> <table border="1"> <thead> <tr> <th><b>DEQ ESC/SWM Certifications</b></th> <th><b>Certified</b></th> <th><b>Recertified</b></th> </tr> </thead> <tbody> <tr> <td>SWM Program Administrator</td> <td>1</td> <td>0</td> </tr> <tr> <td>SWM Inspector</td> <td>3</td> <td>0</td> </tr> <tr> <td>SWM Plan Reviewer</td> <td>2</td> <td>0</td> </tr> <tr> <td>SWM Combined Administrator</td> <td>0</td> <td>0</td> </tr> <tr> <td>ESC Program Administrators</td> <td>0</td> <td>2</td> </tr> <tr> <td>ESC Inspector</td> <td>12</td> <td>249</td> </tr> <tr> <td>ESC Plan Reviewer</td> <td>0</td> <td>13</td> </tr> <tr> <td>ESC Combined Administrators</td> <td>1</td> <td>20</td> </tr> <tr> <td>Responsible Land Disturber</td> <td>8</td> <td>13</td> </tr> <tr> <td>Dual Combined Administrator</td> <td>1</td> <td>0</td> </tr> <tr> <td>Dual Inspector</td> <td>4</td> <td>0</td> </tr> </tbody> </table>	<b>DEQ ESC/SWM Certifications</b>	<b>Certified</b>	<b>Recertified</b>	SWM Program Administrator	1	0	SWM Inspector	3	0	SWM Plan Reviewer	2	0	SWM Combined Administrator	0	0	ESC Program Administrators	0	2	ESC Inspector	12	249	ESC Plan Reviewer	0	13	ESC Combined Administrators	1	20	Responsible Land Disturber	8	13	Dual Combined Administrator	1	0	Dual Inspector	4	0
<b>DEQ ESC/SWM Certifications</b>	<b>Certified</b>	<b>Recertified</b>																																				
SWM Program Administrator	1	0																																				
SWM Inspector	3	0																																				
SWM Plan Reviewer	2	0																																				
SWM Combined Administrator	0	0																																				
ESC Program Administrators	0	2																																				
ESC Inspector	12	249																																				
ESC Plan Reviewer	0	13																																				
ESC Combined Administrators	1	20																																				
Responsible Land Disturber	8	13																																				
Dual Combined Administrator	1	0																																				
Dual Inspector	4	0																																				
Provide training opportunities through the Erosion and Sediment Control Contractor Certification (ESCCC) Program.	This aspect of the BMP is currently implemented and is an ongoing effort.	The VDOT ESCCC Program provides an integral service to VDOT contractors, maintenance forces, and land-use permittees. The course topics include: the VESCLR, the erosion process, ESC control measures, and the VDOT contract enforcement process. The training is provided by four outside vendors who schedule classes through the year. There were 432 individuals trained during this reporting year.																																				

*Note: \* A copy of The VDOT Employee Training Program for MS4 and Stormwater is available at Location & Design Division’s Central Office location.*

**BMP 6(E) – Oversight of VDOT Maintenance Contractors**

<b>Description and Measurable Goal:</b>	Contractual oversight procedures for VDOT contractors for maintenance of roadway or operation and use of VDOT facilities.
<b>Lead Division:</b>	Maintenance
<b>Reference Documents:</b>	Maintenance contracts

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Continue to require that contractors use appropriate control measures and procedures for stormwater discharges to the VDOT's MS4 System.	This aspect of the BMP is currently implemented and is an ongoing effort	VDOT continues to require that contractors use appropriate control measures and procedures for stormwater discharges to the VDOT's MS4 System.

## SPECIAL CONDITIONS FOR APPROVED TMDLS

The MS4 Program requirements for the Special Conditions from the permit are partially summarized below.

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*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.*

- (1) The operator shall maintain an updated MS4 Program Plan that includes a specific TMDL Action Plan for pollutants allocated to the MS4 in approved TMDLs. TMDL Action Plans may be implemented in multiple phases over more than one state permit cycle using the adaptive iterative approach provided adequate progress to reduce the pollutant discharge in a manner consistent with the assumptions and requirements of the specific TMDL wasteload is demonstrated in accordance with subdivision 2 e of this subsection. These TMDL Actions Plans shall identify the best management practices and other interim milestone activities to be implemented during the remaining terms of this state permit.*

*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.*

- (1) In accordance with Table 1, the operator shall develop and submit to the department for its review and acceptance an approvable Chesapeake Bay TMDL Action Plan. Unless specifically denied in writing by the department, this plan becomes effective and enforceable 90 days after the date received by the department.*

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The following BMPs have been selected to address the Special Conditions for Approved TMDLs:

- BMP 7(A) – Action Plans for Approved Local TMDLs
- BMP 7(B) – Action Plan for Chesapeake Bay Watershed TMDL

**BMP 7(A) – Action Plans for Approved Local TMDLs**

<b>Description and Measurable Goal:</b>	Develop and implement applicable TMDL Action Plans for approved TMDLs that have assigned VDOT's MS4 a wasteload allocation.
<b>Lead Division:</b>	Environmental
<b>Reference Documents:</b>	List of approved local TMDLs that have assigned VDOT's MS4 a WLA* Local TMDL Action Plans (once developed)*

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Update Existing Local TMDL Action Plans ( <i>TMDLs approved before July 2008</i> )* in accordance with Special Conditions of Permit.	Update Existing Local TMDL Action Plans within 24 months of receiving permit coverage.	Existing Local TMDL Action Plan updates are in draft. None are due this reporting year.
Develop New Local TMDL Action Plans ( <i>TMDLs approved between July 2008 and June 2013</i> )* in accordance with Special Conditions of Permit.	Develop Local TMDL Action Plans within 36 months of receiving permit coverage.	None are due this reporting year.
Implement Local TMDL Action Plans.	Schedule to be identified during the development of the Local TMDL Action Plans.	Progress on implementation of the Updated Action Plans will be reported in the next annual report.

*Note: \* Environmental's Central Office maintains the list of the approved TMDLs that have assigned VDOT's MS4 a WLA and VDOT's associated Action Plan for each.*

**BMP 7(B) – Action Plan for Chesapeake Bay Watershed TMDL**

<b>Description and Measurable Goal:</b>	Develop and implement TMDL Action Plans for the Chesapeake Bay Watershed TMDL
<b>Lead Division:</b>	Environmental
<b>Reference Documents:</b>	Chesapeake Bay TMDL Action Plan (once developed)*

<b>Expected Efforts and Results in Meeting Measurable Goal</b>	<b>Implementation Schedule</b>	<b>Annual Report Information</b>
Develop Chesapeake Bay TMDL Action Plan for the four river basins.	Develop Action Plan within 24 months of receiving permit coverage.	Chesapeake Bay TMDL Action Plan is in draft. The final Action Plan is not due to DEQ this reporting period.
Implementation of Chesapeake Bay Watershed Action Plans.	Schedule to be identified during the development of the respective Basin Action Plans.	The Action Plan Implementation Schedule is in draft. The final Action Plan Schedule is not due to DEQ this reporting period.

*Note: \* A copy of the Chesapeake Bay TMDL Action Plan is available at Environmental Division's Central Office location.*

**Appendix A**  
**Outfall Clusters Cleared during Reporting Year**

***Clusters Cleared during Reporting Year***

<b><u>Census Urban Area</u></b>	<b><u>Total Clusters</u></b>	<b><u>Clusters previously (Worked)</u></b>	<b><u>Cluster Cleared in 2015 (Worked)</u></b>	<b><u>Percent Complete</u></b>
Blacksburg, VA	134	56	78	100%
Bristol, TN—VA	214	70	128	93%
Charlottesville, VA	182	157	20	97%
Danville, VA	59	55	4	100%
Fredericksburg, VA	475	383	91	100%
Harrisonburg, VA	133	103	2	79%
Kingsport, TN—VA	128	39	83	95%
Lynchburg, VA	214	159	54	100%
Richmond, VA	2084	1210	872	100%
Roanoke, VA	703	476	225	100%
Staunton--Waynesboro, VA	156	20	1	14%
Virginia Beach, VA	787	258	473	93%
Washington, DC--VA—MD	3532	2157	856	85%
Williamsburg, VA	250	13	207	88%
Winchester, VA	207	179	5	89%
<b><u>VDOT Total</u></b>	<b>9258</b>	<b>5335</b>	<b>3099</b>	<b>91%</b>

**Appendix B**  
**Points of Discharge (PODs) Inventoried during Reporting Year**

***PODs Inventoried during Reporting Year***

<b><u>Census Urban Area</u></b>	<b><u>PODs previously (reported)</u></b>	<b><u>2015 PODs</u></b>	<b><u>Total</u></b>
Blacksburg, VA	1	6	7
Bristol, TN—VA	0	5	5
Charlottesville, VA	6	0	6
Danville, VA	0	1	1
Fredericksburg, VA	9	4	13
Harrisonburg, VA	0	1	1
Kingsport, TN—VA	0	2	2
Lynchburg, VA	3	0	3
Richmond, VA	307	127	434
Roanoke, VA	1	31	32
Staunton--Waynesboro, VA	0	0	0
Virginia Beach, VA	3	120	123
Washington, DC--VA—MD	9	256	265
Williamsburg, VA	0	95	95
Winchester, VA	0	0	0
<b><u>VDOT Total</u></b>	<b><u>339</u></b>	<b><u>648</u></b>	<b><u>987</u></b>

**Appendix C**  
**Outfalls and Points of Discharges (PODs) Screened during Reporting Year**

***Outfalls and POD's Screened during Reporting Year***

<b><u>Census Urban Area</u></b>	<b><u>Outfalls</u></b>	<b><u>Pods</u></b>	<b><u>Total</u></b>
Blacksburg, VA	98	6	104
Bristol, TN—VA	219	5	230
Charlottesville, VA	0	0	0
Danville, VA	10	1	11
Fredericksburg, VA	37	4	41
Harrisonburg, VA	0	1	1
Kingsport, TN—VA	124	2	126
Lynchburg, VA	127	0	127
Richmond, VA	659	127	786
Roanoke, VA	254	31	285
Staunton--Waynesboro, VA	0	0	0
Virginia Beach, VA	389	120	509
Washington, DC--VA—MD	504	256	760
Williamsburg, VA	222	95	317
Winchester, VA	1	0	1
<b><u>VDOT Total</u></b>	<b><u>2,644</u></b>	<b><u>648</u></b>	<b><u>3,292</u></b>

**Appendix D**  
**New Stormwater Management Facilities Brought Online During the Reporting Year**

***New Stormwater Management Facilities Brought Online During the Reporting Year***

<b>Facility Type</b>	<b>Latitude</b>	<b>Longitude</b>	<b>Total Acres Treated</b>	<b>Pervious Acres Treated</b>	<b>Impervious Acres Treated</b>	<b>Date Brought Online</b>	<b>6th Order HUC</b>
Bioretention Basin	37.13397	-80.37286	2.1	0	2.1	8/1/2014	NE58
Extended Detention Basin	37.2792	-80.11538	10.15	6.671	3.479	9/29/2014	RU09
Extended Detention Basin	37.27063	-80.13973	2.32	0.64	1.68	9/29/2014	RU09
Bioretention Basin	38.4121	-78.8792	7.9	0	7.9	11/11/2014	PS22
Bioretention Basin	38.4122	-78.8756	2.15	0	2.15	11/11/2014	PS22
Grassed Swale	38.4123	-78.8782	0.7	0.32	0.38	11/11/2014	PS22
Grassed Swale	38.4117	-78.8758	0.89	0	0.89	11/11/2014	PS22
Bioretention Basin	38.4108	-78.8762	1.18	0	1.18	11/11/2014	PS22
Water Quality Swale	38.4108	-78.8772	5.4	2.16	3.24	11/11/2014	PS22
Other	38.7662	-77.1229	1.1	0.3	0.8	11/15/2014	PL27
Manufactured (hydro-dynamic) BMP	38.7663	-77.1232	1.1	0.3	0.8	11/15/2014	PL27
Other	38.7665	-77.1236	1.2	0.2	1	11/15/2014	PL27
Manufactured (hydro-dynamic) BMP	38.7663	-77.1238	1.2	0.2	1	11/15/2014	PL27
Other	38.7674	-77.1203	1.2	0.2	1	11/15/2014	PL27
Manufactured (hydro-dynamic) BMP	38.7674	-77.1203	1.2	0.2	1	11/15/2014	PL27
Bioretention Filter	38.47336	-77.41301	5	0.5	4.5	11/19/2014	PL57
Bioretention Filter	38.47274	-77.41328	1.3	0.1	1.2	11/19/2014	PL57
Bioretention Filter	38.475	-77.4125	0.2	0	0.2	11/19/2014	PL57
Bioretention Filter	38.47453	77.41403	0.9	0.1	0.8	11/19/2014	PL57
Bioretention Filter	38.47644	-77.41291	0.4	0.2	0.2	11/19/2014	PL57
Bioretention Filter	38.47696	-77.41215	2.8	0.3	2.5	11/19/2014	PL57
Bioretention Filter	38.47687	-77.41115	1	0.2	0.8	11/19/2014	PL57
Bioretention Filter	38.47616	-77.41228	0.6	0.1	0.5	11/19/2014	PL57
Bioretention Filter	38.47579	-77.41179	0.3	0.1	0.2	11/19/2014	PL57
Bioretention Filter	38.47594	-77.41168	0.4	0	0.4	11/19/2014	PL57
Other	38.47628	-77.41356	6.3	1.5	4.8	11/19/2014	PL57
Other	38.47481	-77.41283	1.6	0.4	1.2	11/19/2014	PL57
Dry Detention Basin	38.47711	-77.41177	5.3	0.5	4.8	11/19/2014	PL57
Extended Detention Basin	37.27125	-80.13928	14.56	11.25	3.31	12/18/2014	RU09
Extended Detention Basin	37.26613	-80.14358	8.22	7.525	0.695	1/21/2015	RU09
Manufactured (Filtering) BMP	38.89252	-77.44981	1.3	0.3	1	1/29/2015	PL45
Manufactured (Filtering) BMP	38.89268	-77.44935	0.3	0	0.3	1/29/2015	PL45
Extended Detention Basin	37.269	-80.1411	5.41	2.12	3.29	3/23/2015	RU09

Facility Type	Latitude	Longitude	Total Acres Treated	Pervious Acres Treated	Impervious Acres Treated	Date Brought Online	6th Order HUC
Manufactured (Filtering) BMP	38.88383	-77.08452	6.22	1.35	4.87	5/1/2015	PL24
Bioretention Filter	37.44793	-77.58414	1	0	1	5/1/2015	JL02
Grassed Swale	37.224	-76.788	1.32	1.01	0.31	5/20/2015	JL30
Grassed Swale	37.224	-76.788	1.78	1.31	0.47	5/20/2015	JL30
Bioretention Filter	37.15219	-76.44999	11.6	7.2	4.4	6/1/2015	CB21
Bioretention Filter	37.15975	-76.44106	3.5	1.8	1.7	6/1/2015	CB21

**Appendix E**  
**BMP Inventory and Inspections Performed during the Reporting Year**

**BMP Inventory and Inspections performed During the Reporting Year**

<b>Census Urban Area</b>	<b>Responsible District</b>	<b>No. of BMP's</b>	<b>Inspections Completed</b>
Blacksburg, VA	Salem	15	15
Bristol, TN—Bristol, VA	Bristol	5	5
	Rest Area	2	2
Charlottesville, VA	Culpeper	16	16
Danville, VA	Lynchburg	11	11
Fredericksburg, VA	Fredericksburg	28	28
	Rest Area	4	4
Harrisonburg, VA	Staunton	13	13
Kingsport, TN--VA	Bristol	4	4
Lynchburg, VA	Lynchburg	22	22
	Salem	10	10
Richmond, VA	Richmond*	152	109
Roanoke, VA	Salem	14	14
Staunton-Waynesboro, VA	Staunton	25	25
Virginia Beach, VA	Fredericksburg	3	3
	Hampton Roads	66	66
Washington, DC - VA -MD	Culpeper	16	16
	Fredericksburg	8	8
	Northern VA	424	427**
Williamsburg, VA	Hampton Roads	30	30
Winchester, VA	Rest Area	4	4
	Staunton	19	19
<b>Total</b>		<b>904</b>	<b>851</b>

\* Richmond District has 43 BMP's that are not due inspection until 2015/2016 winter inspection cycle.

\*\* 3 BMP's received two inspections during this report cycle. Also 14 BMP are owned by VDOT but maintained by TRANSURBAN and these will be inspected once every five year permit cycle.