



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

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

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

www.deq.virginia.gov

Molly Joseph Ward
Secretary of Natural Resources

David K. Paylor
Director

June 29, 2017

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

Mr. Charles Kilpatrick, P.E.
Commissioner
Virginia Department of Transportation
1401 E. Broad Street.
Richmond, Virginia 23219

**CERTIFIED MAIL
RETURN RECEIPT REQUESTED**

Transmitted electronically: charlie.kilpatrick@vdot.virginia.gov

RE: Virginia Stormwater Management Program (VSMP) Permit Issuance
Municipal Separate Storm Sewer System (MS4) Permit No. VA0092975
Virginia Department of Transportation

Dear Commissioner Kilpatrick:

Your Virginia Stormwater Management Program (VSMP) MS4 permit is enclosed. Coverage under the MS4 General Permit (VAR040115) is automatically terminated as of the effective date of this individual permit in accordance with 9 VAC 25-870-410 B.3.d of the Virginia Stormwater Management Program regulations. Please read the permit carefully because you are responsible for meeting all permit conditions.

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days after the service of this permit which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to that period.

Alternatively, any owner under §62.1-44.15:44 of the Storm Water Control Law aggrieved by any action of the State Water Control Board taken without a formal hearing, or by inaction of the Board, may demand in writing a formal hearing of such owner's grievance, provided a petition requesting such hearing is filed with the Board. Said petition must meet the requirements set forth in 9VAC25-230-130 (Procedural Rule No. 1 – Petition for formal hearing). In cases involving actions of the Board, such petition must be filed within thirty days after notice of such action is mailed to such owner by certified mail.

If you have any questions about the permit, please call Ms. Jaime Bauer at (804) 698-4416 or jaime.bauer@deq.virginia.gov.

Sincerely,

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

Enclosures: Permit
Fact Sheet

cc: Chris Swanson (Chris.Swanson@vdot.virginia.gov)
EPA-3WP12



COMMONWEALTH of VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit No.: VA0092975
Effective Date: July 1, 2017
Expiration Date: June 30, 2022

**AUTHORIZATION TO DISCHARGE UNDER THE
VIRGINIA STORMWATER MANAGEMENT PROGRAM AND THE VIRGINIA STORMWATER MANAGEMENT ACT**

Pursuant to the Clean Water Act as amended and the Virginia Stormwater Management Act and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application and with the effluent limitations, monitoring requirements, and other conditions set forth in this state permit.

Permittee: Virginia Department of Transportation (VDOT)
Facility Name: Virginia Department of Transportation Municipal Separate Storm Sewer System
Location: Census Urbanized Areas as defined by the 2010 U.S. Census Bureau in the Commonwealth of Virginia

The owner is authorized to discharge stormwater to surface waters from the VDOT owned or operated storm sewer system located in the urbanized areas in Virginia as identified in the 2010 Census conducted by the U.S. Census Bureau, except those waters specifically named in State Water Control Regulations which prohibit such discharges.

The authorized discharge shall be in accordance with this cover page, Part I – Authorization, Effluent Limitations and Monitoring Requirements and Part II - Conditions Applicable To All VSMP MS4 Permits, as set forth herein.

A handwritten signature in black ink, appearing to read "Allan Brantley", written over a horizontal line.

Manager, Office of VDES Permits
Department of Environmental Quality

6/29/17

Date

PART I - AUTHORIZATION, EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

A. AUTHORIZATION TO DISCHARGE AND LEGAL AUTHORITIES

1. Authorized Discharges

- a. During the period beginning with the effective date of this permit and lasting until the permit expiration date, the permittee is authorized to discharge stormwater in accordance with this permit, from all existing and new municipal separate stormwater point source discharges to surface waters as listed in the permit's cover page from the small Municipal Separate Storm Sewer System (MS4) owned or operated by the Virginia Department of Transportation (VDOT) in the urbanized areas in Virginia as identified in the 2010 Census conducted by the U.S. Census Bureau (referred to as the Census Urbanized Area or CUA).
- b. The following discharges, whether discharged separately or commingled with municipal stormwater, are also authorized by this permit for discharge to surface waters:
 - i. Non-stormwater discharges and stormwater discharges associated with industrial activity (defined at 9 VAC 25-31-10) that are authorized by a separate Virginia Pollutant Discharge Elimination System (VPDES) permit;
 - ii. Discharges from construction activities that are regulated under the Virginia Stormwater Management Program (VSMP) (9 VAC 25-870 et seq.) and authorized by a separate VPDES permit; and
 - iii. The following non-stormwater discharges unless the State Water Control Board or the permittee determines the discharge to be a significant source of pollutants to surface waters:
 - 1) water line flushing;
 - 2) landscape irrigation;
 - 3) diverted stream flows;
 - 4) rising ground waters;
 - 5) uncontaminated ground water infiltration (as defined at 40 CFR Part 35.2005(20));
 - 6) uncontaminated pumped ground water;
 - 7) discharges from potable water sources;
 - 8) foundation drains;
 - 9) air conditioning condensation;
 - 10) irrigation water;
 - 11) springs;
 - 12) water from crawl space pumps;
 - 13) footing drains;
 - 14) lawn watering;
 - 15) individual residential car washing;
 - 16) flows from riparian habitats and wetlands;
 - 17) dechlorinated swimming pool discharges;
 - 18) street wash water including bridge washing;
 - 19) discharges or flows from firefighting activities; and
 - 20) those activities generating discharges identified by the DEQ as not requiring VPDES authorization.

2. Permittee Responsibilities

This state permit establishes the specific requirements applicable to the permittee for the term of this permit. The permittee is responsible for compliance with this permit. The DEQ has determined that implementation of the MS4 Program Plan, provided that the plan meets the requirements of this permit, will reduce the discharge of pollutants to the Maximum Extent Practicable (MEP). Where wasteloads have been assigned

for pollutant(s) of concern in an approved Total Maximum Daily Load (TMDL), the permittee shall implement the special conditions as set forth in Parts I.D and E of this permit. Compliance with the requirements of this permit shall also constitute adequate progress for this permit term towards complying with the assumptions and requirements of the applicable TMDL wasteload allocations to ensure that the discharge does not cause or contribute to violations of the water quality standards.

3. Legal Authority

The permittee shall maintain and utilize its legal authority to control discharges to and from the MS4 to the extent allowable under federal, state, or local law, or regulation in the manner established by the specific requirements of this permit and in order to:

- a. Control the contribution of pollutants to the MS4;
- b. Prohibit illicit discharges to the MS4;
- c. Control the discharge of spills and the dumping or disposal of materials other than stormwater (e.g. industrial and commercial wastes, trash, used motor vehicle fluids, leaf litter, grass clippings, animal wastes, etc.) into the MS4;
- d. Require compliance with conditions in permits, contracts, inter-jurisdictional agreements, orders, or through legal remedies; and
- e. Carry out all inspections, surveillance, information request and monitoring procedures necessary to determine compliance and noncompliance with permit conditions including the prohibition on illicit discharges to the MS4.

No later than 24 months after the permit effective date, the permittee shall review and update its legal authorities, if necessary, such as permits, orders, contracts, and inter-jurisdictional agreements as necessary to continue providing adequate legal authority to control or support control of its discharges to and from the MS4.

B. MS4 PROGRAM PLAN AND ANNUAL REPORTING

1. The permittee shall maintain, implement, and enforce to the extent of its legal authority an MS4 Program Plan designed to reduce the discharge of pollutants from the regulated MS4 to the MEP to protect water quality in order to comply with the Virginia State Water Control Law and the federal Clean Water Act. This permit and the MS4 Program Plan apply to the roadway systems, support facilities, and other property owned or operated by the permittee located within the 2010 CUA. Roadway system includes all highways, primary and secondary roadways accepted by VDOT into their secondary street program, right of ways, catch basins, curbs, gutters, ditches, man-made channels or storm drains. The term "support facilities" shall include VDOT District Complexes, Residence Offices, Area Headquarters, Maintenance Complexes, Safety/Rest Areas, Park and Ride Sites, and permanent storage areas/lots. The MS4 Program Plan may consist of separate documents incorporated by reference provided that the latest revision date of those documents is included in the MS4 Program Plan and all documents are made available to DEQ within 5 business days of request, unless otherwise authorized in this permit.
2. The MS4 Program Plan shall include the following:
 - a. The name and title of the responsible official who will ensure compliance with the requirements of this permit.
 - b. For each of the Minimum Control Measures in Part I.C, the following information shall be included:

- i. A description of the BMP(s) and/or strategies that the permittee is required to implement in order to demonstrate compliance;
 - ii. Any standard operating procedures or policies necessary to implement the BMP(s) or strategies;
 - iii. The measurable goal by which each BMP or strategy will be evaluated;
 - iv. The person(s) and/or positions or departments responsible for implementing each BMP or strategy;
 - v. The date (month and year) by which each BMP or strategy will be implemented including as appropriate time lines and milestones for implementation of BMPs.
 - c. A list of documents incorporated by reference including the version and date of the document being incorporated and how documents incorporated by reference can be reviewed;
 - d. If the permittee relies on another party to implement portions of the MS4 Program Plan, documentation signed by both parties; and
 - e. A list of revision dates and summary of revisions made to the MS4 Program Plan.
3. No later than 12 months following the effective date of this permit, the permittee shall submit the MS4 Program Plan updated in accordance with the requirements of Part I.B.2 to DEQ.
4. No later than 30 days after submittal to DEQ, the current approved MS4 Program Plan shall be posted on the permittee's dedicated stormwater webpage.
5. Revisions to the MS4 Program Plan are expected throughout the life of this permit as part of the iterative process to reduce pollutant loading and protect water quality. As such, revisions made in accordance with this permit as a result of the iterative process do not require modification of this permit. The permittee shall document revisions to the MS4 Program Plan in accordance with Part I.B.2.e above and as part of the Annual Report as described in Part I.B.6 below, including an explanation as to why a specific BMP was replaced or eliminated.
6. The permittee shall submit an Annual Report to the DEQ, no later than October 1st of each year. The report shall cover the previous year from July 1st to June 30th and include the following:
 - a. General Information including:
 - i. The permittee, system name, and permit number;
 - ii. The reporting dates for which the annual report is being submitted;
 - iii. A summary of revisions to the MS4 Program Plan, with accompanying explanation as a result of the annual evaluation; and
 - iv. A signed certification as per Part II.K.
 - b. Reporting requirements as specified in Part I.C. to demonstrate compliance with each minimum control measure in Part I.C of this permit;
 - c. An evaluation of the effectiveness of each strategy or practice;
 - d. A status report on the implementation of the Chesapeake Bay TMDL Action Plan in accordance with Part I.D of this permit; and
 - e. A status report on the implementation of the Local TMDL Action Plans in accordance with Part I.E. of this permit.
7. For the purposes of this permit, the MS4 Program Plan and Annual Report shall be maintained separately and submitted to the DEQ as required by this permit as two separate documents.

C. MINIMUM CONTROL MEASURES

1. Public Education and Outreach – In an effort to increase public knowledge on ways to reduce pollutants discharged in stormwater, the permittee shall engage in the following education activities:
 - a. The permittee shall maintain a webpage dedicated to MS4 and stormwater, as it pertains to roads, highways, and permittee owned or operated facilities on the VDOT website. The following information shall be posted on the webpage:
 - i. The effective MS4 permit issued to VDOT;
 - ii. The most current MS4 Program Plan;
 - iii. The annual report for each year of the current permit term; and
 - iv. Instructions on how to report illicit discharges, improper disposal, or spills to the MS4 or other potential stormwater pollution concerns.
 - b. No later than six (6) months after this permit's effective date, the permittee shall develop and implement the following programs:
 - i. Identification and public reporting of the presence of illicit discharges and/or improper disposal of materials into the MS4;
 - ii. Proper disposal of trash, debris, and litter; and
 - iii. Informational signage for proper disposal of pet waste and litter, debris and trash at the following rest areas owned or operated by the permittee in or around the CUA:
 - 1) Dale City;
 - 2) Fredericksburg;
 - 3) New Kent*;
 - 4) Manassas;
 - 5) Bristol;
 - 6) Abingdon;
 - 7) Troutville*;
 - 8) Winchester

Those rest areas above denoted with an "" are not physically located within a CUA; therefore, the municipal stormwater discharges from these rest areas are not regulated by this permit.*
 - c. The permittee may fulfill all or part of the requirements in Part I.C.1.b above through regional outreach involving other MS4 permittees, state or federal agencies, citizen groups or other organizations.
 - d. The MS4 Program Plan as required by Part I.B shall include written procedures for implementing the public education and outreach activities described above.
 - e. For each reporting period, the corresponding annual report shall include a summary of the following activities:
 - i. Link to the dedicated VDOT stormwater webpage required in Part I.C.1.a;
 - ii. Promotion of the proper disposal of pet waste;
 - iii. Promotion of the proper disposal of trash, debris, and litter;
 - iv. Education and outreach programs other than those listed in Part I.C.1.b to educate the public with the goal of reducing stormwater pollutant loads; improving water quality; and supporting local restoration. The summary should include a discussion if these additional activities are anticipated to continue in subsequent permit years;
 - v. Estimated number of individuals reached through the activities as required by Part I.C.1.b i, ii, and iii and how the number was calculated;
 - vi. Assessment of the effectiveness of the outreach program; and
 - vii. Identification of entities with which the permittee partnered, if any, to fulfill the requirements of Part I.C.1.

2. Public Involvement and Participation

- a. Public involvement – The permittee shall take the following steps to promote public involvement:
 - i. Promote and maintain an Adopt-A-Highway program within the CUA as part of a statewide program to encourage citizens and organizations to keep roads, highways, roadside ditches, and the MS4 free from litter;
 - ii. Promote and support a public storm drain stenciling program through the Land Use Permit Program to promote public awareness of stormwater pollution;
 - iii. Participate in the development of local TMDLs in watersheds located within the CUA and in which the permittee's MS4 discharges; and
 - iv. Annually promote a minimum of four (4) local area stream cleanups, sponsored by the permittee or other organizations, to the general public and employees on the permittee's MS4/stormwater website and/or social media.
 - b. The MS4 Program Plan as required by Part I.B of this permit shall include written procedures for implementing the public involvement and participation activities described above in Part I.C.2.a.
 - c. For each reporting period, the corresponding annual report shall include:
 - i. The number of miles adopted statewide in the Adopt-A-Highway program for the reporting period, including a description of where, and an analysis of whether public participation has increased or decreased in the previous 5 years;
 - ii. The name of any local TMDL technical advisory committees on which the permittee participated;
 - iii. The name of any local TMDLs and/or watershed implementation plans on which the permittee participated;
 - iv. A summary of any other activities other than those listed in Part I.C.2.a of this permit in which the permittee participated (e.g. workshops, meetings) or which the permittee sponsored with the goal of reducing stormwater pollutant loads; improving water quality; and supporting local water quality restoration. The summary should include a discussion if these additional activities are anticipated to continue in subsequent permit years;
 - v. Identification of local area stream cleanups promoted, including date of the event, and how they were promoted; and
 - vi. Identification of entities with which the permittee partnered to fulfill the requirements of Part I.C.2 of this permit.
3. Illicit Discharge Detection and Elimination (IDDE) – The permittee shall develop and implement, a program to detect and eliminate illicit discharges (as defined in 9 VAC 25-870-10) to the extent allowable under federal, state, and local law, and regulation to its MS4 as follows:
- a. Prohibit non-storm water discharges into the MS4, except as described in Part I.A.1.b of this permit. Prohibition shall be implemented through the development and implementation of VDOT policies, procedures, Land Use Permit Program, VDOT hired service contracts (and legal remedies provided therein) to ensure discharges are eliminated. If elimination of an illicit discharge is determined to be beyond the legal authorities of the permittee, the permittee shall notify the local government under which's jurisdiction the illicit discharge is occurring and/or any state or federal agency with regulatory authority to address the discharge.
 - b. Consistent with its legal authority, maintain an IDDE manual that includes procedures for identifying and eliminating any illicit discharge discovered to the permittee's MS4. The procedures shall include:
 - i. Identifying, locating, and referring to the local governments, state, or federal agencies of illicit discharges as soon as possible but no later than 30 days where elimination is beyond the permittee's options for legal authority;
 - ii. Eliminating dry weather flows not authorized in Part I.A.1.b discovered by employees during maintenance of roadways or drainage systems within 30 days of discovery where elimination is within the permittee's control;

- iii. Receiving and investigating complaints of illicit discharges from the public within 5 days of receipt; and
 - iv. Reporting to DEQ within 24 hours of the discovery of any illicit discharge of sewage through illegal connection into the permittee's MS4.
- c. No later than twelve (12) months after this permit's effective date, the permittee shall develop and implement a training program for VDOT maintenance operators in how to identify illicit discharges and the procedures to follow when an illicit discharge is identified. The training program shall include:
- i. Development of procedures for responding to illicit discharges, if different from the procedures developed in accordance with Part I.C.3.b above;
 - ii. Training of appropriate maintenance operators shall occur no less than once during this five year permit term; and
 - iii. Distribution of materials to VDOT maintenance operators of procedures to identify and eliminate illicit discharges for easy reference while in the field.
- d. The permittee shall continue to implement a program that coordinates with the Virginia Department of Emergency Management (VDEM), local fire departments, and other local government departments to prevent, contain, and respond to spills that may discharge into the MS4 via roadside ditches. The spill response program may include a combination of spill response actions by the permittee, and/or another public or private entity. For purposes of this permit, fluids from vehicular accidents shall not be handled through the IDDE tracking and reporting required in Part I.C.3.
- e. No later than six (6) months after this permit's effective date, the permittee shall develop and implement written procedures to maintain an up-to-date Geographic Information System (GIS) map of the permittee's separate storm sewer system that includes the following:
- i. The permittee's MS4 service area based on the CUA as determined by the U.S. Census Bureau's 2010 census;
 - ii. Location of all outfalls owned or operated by the permittee discharging to state waters;
 - iii. Known points of discharge to downstream, directly adjacent MS4s;
 - iv. A unique identifier for each outfall and point of discharge;
 - v. Names of receiving waters to which the outfalls discharge; and
 - vi. Stormwater management facilities owned or operated by the permittee.
- f. The MS4 Program Plan as required by Part I.B. of this permit shall include:
- i. A description of the permittee's legal authorities and available remedies and any limitations that may prevent the permittee from prohibiting or eliminating discharges to the MS4;
 - ii. An IDDE Manual including written procedures for illicit discharge detection and elimination described in Part I.C.3.b above;
 - iii. A description of the permittee's role as it relates to spill response in accordance with Part I.C.3.d above; and
 - iv. The GIS map required by Part I.C.3.e above shall be incorporated into the MS4 Program Plan by reference. The map or associated GIS files shall be made available to the DEQ within 14 business days of upon request.
- g. For each reporting period, the corresponding annual report shall include:
- i. A list of illicit discharges identified and investigated in accordance with Part I.C.3.b.above, the source of the illicit discharge, a description of follow-up activities and the results of the investigation;
 - ii. A description of significant spills to the MS4 in which the permittee was the responsible party, the source of the spill, a description of follow-up activities and the resolution of the incident; and
 - iii. A confirmation statement that the GIS map of the storm sewer system is being updated in accordance with the written procedures required in Part I.C.3.e above.

4. Construction Site Stormwater Runoff Control

- a. The permittee shall implement the Standards and Specifications Program for Erosion and Sediment Control in accordance with the regulatory requirements in 9 VAC 25-840 et seq. and 9 VAC 25-880 et seq. for construction site stormwater runoff control within the regulated MS4 area within the 2010 CUA.
- b. No later than 12 months after the permit effective date, the permittee shall develop procedures to perform periodic compliance inspections of VDOT projects consistent with inspection requirements applicable to VESCP and VSMP Authorities no less than once per quarter. Procedures shall include identification of roles and responsibilities for completing the inspections.
- c. No later than 24 months after the permit effective date, the permittee shall develop a mechanism to track compliance inspections and associated deficiencies.
- d. The MS4 Program Plan as required by Part I.B. shall include:
 - i. A reference to incorporate the most current DEQ approved Standards and Specifications. The permittee shall update the DEQ approval date in the MS4 Program Plan within 30 days of DEQ approval; and
 - ii. Procedures for performing compliance inspections and a mechanism to track associated deficiencies as required by Part I.C.4.b and c. Procedures for the mechanism may be incorporated by reference into the MS4 Program Plan if housed in separate documentation.
- e. For each reporting period, the annual report shall include:
 - i. The number of regulated land disturbing projects within the regulated MS4 area within the 2010 CUA, excluding those activities that are exempt from § 62.1-44.15:34 C.7, initiated by the permittee and the total number of acres disturbed;
 - ii. The number of land disturbing activity compliance inspections performed by the permittee;
 - iii. The number of inspections where erosion and sediment control and Construction Stormwater General Permit deficiencies were discovered through compliance inspections performed by the permittee;
 - iv. The number of corrective actions and a summary of the types of corrective actions that were executed; and
 - v. A confirmation statement that land disturbing projects that occurred during the reporting period have been conducted in accordance with the current DEQ approved Standards and Specifications for Erosion and Sedimentation Control.

5. Post Construction Runoff from Areas of New Development and Development on Prior Developed Lands

- a. The permittee shall implement the Standards and Specifications Program for Post Construction Runoff from Areas of New Development and Development on Prior Developed Lands in accordance with the regulatory requirements for post development in 9 VAC 25-870 et seq. for water quality and water quantity within the regulated MS4 area within the 2010 CUA.
- b. The MS4 Program Plan as required by Part I.B. shall incorporate by reference the most current and DEQ approved Standards and Specifications for the control of post construction stormwater runoff from areas of new development and development on prior developed lands. The permittee shall update the DEQ approval date in the MS4 Program Plan within 30 days of DEQ approval.
- c. The permittee shall inspect each stormwater management (SWM) facility owned or operated by the permittee no less than once per year.
- d. The permittee shall document the inspection of the SWM facilities to include:

- i. Inspection date;
 - ii. Type of structure and unique identifier;
 - iii. Location;
 - iv. Presence or absence of structural deficiencies;
 - v. Determination of whether maintenance of the SWM facility is needed; and
 - vi. If maintenance of the SWM facility is needed, a description of the maintenance needed; and the date in which maintenance was performed or scheduled to be performed.
- e. For purposes of Part I.C.5.d, “maintenance” means maintenance of the SWM facilities and associated structural stormwater controls including, but not limited to, activities such as repair and replacement of failed controls, mowing grass filter strips; removal of litter and debris from dry ponds, forebays and water quality inlets; periodic stabilization and revegetation of eroded areas; periodic removal and replacement of filter media from infiltration trenches and filtration ponds; periodic removal of trash and sediment; deep tilling of infiltration basins to maintain capacity; vacuuming or jet hosing of porous pavement or concrete grid pavements; and, removal of litter and debris from wet weather conveyances.
- f. The permittee shall maintain an updated electronic database of permittee owned or operated stormwater management (SWM) facilities for control of post construction stormwater runoff. The database shall include the following:
- i. The SWM facility type;
 - ii. Location including latitude, and longitude (in decimal degrees);
 - iii. The total pervious and impervious acres treated by the SWM (to the nearest one-tenth of an acre);
 - iv. The date brought online (MMYYYY). If the date is unknown, the permittee shall use June 1, 2005 as the date brought online for all previously existing SWM facilities;
 - v. The hydrologic unit code (HUC 6) in which the SWM facility is located; and
 - vi. The date of last inspection of the SWM facility by the permittee.
- g. Using the DEQ Construction Stormwater Database or other application as specified by DEQ, the permittee shall report each SWM facility installed for the control of post construction stormwater runoff following the conclusion of the land disturbing activity project in accordance with VSMP requirements.
- h. No later than October 1st of each year, the permittee shall electronically report the information listed in Part I.C.5.f above for BMPs brought online between July 1st and June 30th of each year using the DEQ BMP Warehouse and associated reporting template for any BMPs not reported in accordance with Part I.C.5.g above.
- i. For each reporting period, each annual report shall include:
- i. The number of SWM facilities inspected by the permittee;
 - ii. A summary of SWM facility maintenance activities performed when necessary to address structural deficiencies or other significant maintenance activities;
 - iii. A confirmation statement that land disturbing projects that occurred during the reporting period have been conducted in accordance with the current DEQ approved Standards and Specifications for Post Development Stormwater Management;
 - iv. A confirmation statement that the permittee submitted information for SWM facilities implemented in accordance with the Standards and Specifications for the control of post construction stormwater runoff from areas of new development and development on prior developed lands through the Virginia Construction Stormwater General Permit database in accordance with Part I.C.5.g above; and
 - v. A confirmation statement that the permittee electronically reported BMPs using the DEQ BMP Warehouse in accordance with Part I.C.5.h above and the date on which the information was submitted.

6. Pollution Prevention and Good Housekeeping

- a. The permittee shall maintain and implement written procedures for all support facilities within the regulated MS4 area within the 2010 CUA owned or operated by the permittee that are designed to:
 - i. Prevent illicit discharges;
 - ii. Ensure the proper disposal or management of waste materials, including landscape waste and waste generated as the result of land disturbing activities;
 - iii. Prevent the discharge of wastewater, including municipal vehicle wash water, into the MS4 without authorization by a separate VPDES permit;
 - iv. Require the development and implementation of best management practices when discharging water used during maintenance of roadway system (e.g. dewatering of trenches); and
 - v. Minimize the discharge of pollutants in stormwater from bulk storage areas (e.g., erodible materials such as salt storage, topsoil stock piles) through the use of best management practices.
- b. The dumping of yard waste and grass clippings into the MS4 shall be prohibited.
- c. Fluids leaked from permittee owned vehicles or fueling stations shall be prevented from entering the storm sewer system to the maximum extent practical. Leaked, free moving fluids shall be cleaned up and properly disposed of immediately upon discovery, and in accordance with the facility's stormwater pollution prevention plan, if applicable. The permittee shall maintain a log at the site to document clean-up efforts related to leaked fluids. Where stains have resulted after the clean-up of leaked fluids, the SWPPP shall document the general area of visible staining for long term historical understanding. The annual comprehensive site compliance evaluations shall evaluate the need to encapsulate historical staining.
- d. Vehicle washing at facilities owned or operated by the permittee shall be prohibited unless washing activities occur on a wash pad that is constructed, operated, and maintained in accordance with the VDOT Vehicle Wash Pad Siting, Construction, and Operation Guidance, or if the discharge is authorized by a separate VPDES permit.
- e. High Priority Facilities & SWPPPs – No later than one (1) year after the effective date of this permit, the permittee shall develop and/or update and implement stormwater pollution prevention plans (SWPPPs) for each high priority facility that is owned or operated by the permittee with a high potential of discharging pollutants as described below:
 - i. High Priority Facilities shall include the following facility types:
 - 1) composting facilities;
 - 2) equipment storage and maintenance facilities;
 - 3) materials storage yards;
 - 4) pesticide storage facilities;
 - 5) maintenance yards;
 - 6) recycling facilities;
 - 7) salt storage facilities;
 - 8) solid waste handling and transfer facilities; and
 - 9) vehicle storage and maintenance yards.
 - ii. High Priority Facilities with a high potential for discharging pollutants are where 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 (authorized under a VPDES permit); 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.
- iii. If during the term of this permit, the permittee acquires or re-opens a facility meeting the qualifications of a high priority facility with a high potential to discharge described in Part I.C.6.f.i and ii above, the permittee shall develop and implement a SWPPP within 6 months of commencing operation activities at the site. Until such SWPPP is developed, the requirements of Part I.C.6.a shall apply.
- iv. Stormwater pollution prevention plans shall include:
- 1) A site description that includes a site map identifying storm sewer appurtenances including storm sewer inlets and 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) A maintenance schedule for all existing BMPs;
 - 5) All policies and procedures implemented at the facility to ensure source reduction;
 - 6) An inspection schedule and checklist to ensure that all BMPs are implemented and appropriately maintained;
 - 7) The date of each inspection and associated findings and follow-up shall be logged in each SWPPP;
 - 8) Appropriate training as required in Part I.C.6.h of this permit;
 - 9) Procedures to conduct an annual comprehensive site compliance evaluation including a visual inspection of stormwater outfalls at the site and determination if any revisions to the SWPPP are necessary; and
 - 10) Revisions to processes or BMPs, as necessary, made as the result of any release or spill into the MS4.
- v. A copy of each SWPPP shall be kept at each manned high priority facility owned or operated by the permittee and shall be kept up to date. SWPPPs for unmanned facilities shall be kept at the controlling manned facility. The locations for unmanned SWPPP shall be identified in the MS4 Program with the list of all high priority facilities that requires SWPPPs.
- f. Roadways - Streets, roads, and parking lots maintained by the permittee shall continue to be operated and maintained in a manner to meet roadway operational and safety requirements while minimizing the discharge of pollutants, including those pollutants related to deicing or sanding activities. The permittee shall:
- i. Continue to implement written protocols for roads, streets, and parking lots maintained by the permittee designed to minimize pollutant discharge;
 - ii. Provide for deicing materials to remain covered from precipitation or maintained within a BMP control area until application; and
 - iii. Not apply any deicing agent containing urea or other forms of nitrogen or phosphorus to parking lots, roadways, and sidewalks or other paved surfaces.
- g. Pesticide, Herbicide, and Fertilizer Application - The permittee shall continue to control the discharge of pollutants related to the storage and application of pesticides, herbicides, and fertilizers applied to permittee rights of way and support facilities, as follows:
- i. The permittee shall maintain and implement turf and landscape nutrient management plans that

- meet the requirements set forth in § 10.1-104.2 of the Code of Virginia and the attendant Nutrient Management Training and Certifications Regulations in 4 VAC 50-85 et seq.;
- ii. For turf establishment resulting from roadside land disturbing projects and construction sites, the permittee shall follow the recommendations for fertilization application rates as described in the Virginia Nutrient Management Standards and Criteria, Revised July 2014 and the Urban Nutrient Management Handbook, dated May 2011;
 - iii. The permittee shall ensure the application of pesticides and herbicides is conducted in accordance with the manufacture's recommendations; and
 - iv. The permittee shall maintain and implement good housekeeping/pollution prevention protocols for the application, storage, transport and disposal of pesticides, herbicides and fertilizers in order to prevent unpermitted discharges of the materials to surface waters.
- h. Training - The permittee shall maintain MS4 and stormwater training plans to train employees and VDOT contractors working within the regulated MS4 area within the 2010 CUA on proper stormwater management techniques for each category as set for in Part I.C.6.h.i through ix. based on their job task and responsibilities. The permittee shall annually review and update the training as necessary to meet the requirements of this permit and the MS4 Program. If training efforts are different for employees and contractors, those differences shall be identified in the training plan.
- i. The permittee shall conduct training in the recognition and reporting of illicit discharges at least once per five (5) years;
 - ii. The permittee shall conduct training in good housekeeping and pollution prevention practices that are to be employed during road, street, and parking lot maintenance at least once per two (2) years;
 - iii. The permittee shall conduct training on proper and improper disposal of materials once per two (2) years;
 - iv. The permittee shall conduct training on proper spill response to minimize the discharge of pollutants to the MS4 and state waters once per two (2) years;
 - v. The permittee shall conduct training in good housekeeping and pollution prevention practices that are to be employed in and around facilities owned or operated by the permittee at least once per two (2) years;
 - vi. The permittee shall ensure that those individual who apply pesticides and herbicides on behalf of VDOT are properly trained or certified per the Virginia Pesticide Control Act (§ 3.2-3900 et seq. of the Code of Virginia) and requirements as established by the Virginia Pesticide Control Board;
 - vii. The permittee shall ensure that the necessary training and certification requirements for erosion and sediment control and stormwater management are implemented through the Erosion and Sediment Control and Stormwater Management Standards and Specifications in accordance with 62.1-44.15:53 and 62.1-44.15:31, respectively; and
 - viii. The appropriate maintenance employees shall have appropriate training in spill response.

The requirement to conduct training may be fulfilled in total or in part through hired consultants or regional training programs involving two or more MS4 permittees; however, the permittee is individually liable for its failure to comply with the training requirements in this permit.

- i. The MS4 Program Plan as required by Part I.B. shall include the following:
 - i. The written protocols for good housekeeping and pollution prevention in accordance with Part I.C.6.a;
 - ii. A list of all high priority facilities within the regulated MS4 area within the 2010 CUA owned or operated by the permittee identified in accordance with Part I.C.6.e.i;
 - iii. A list of all high priority facilities owned or operated by the permittee with a high potential to discharge pollutants identified in accordance with Part I.C.6.e.ii (including whether facility is manned or unmanned);
 - iv. SWPPPs developed in accordance with Part I.C.6.e for those high priority facilities with a high potential to discharge. The SWPPPs may be incorporated by reference into the MS4 Program Plan provided that the name of the facility, location, and date of the SWPPP are provided in the

- MS4 Program Plan;
 - v. The VDOT Vehicle Wash Pad Siting, Construction, and Operation Guidance;
 - vi. Protocols to reduce the discharge of pollutants associated with roads, streets and parking lot maintenance in accordance with Part I.C.6.f above;
 - vii. A list of support facilities greater than one acre owned or operated by the permittee on which nutrients are applied;
 - viii. NMPs developed in accordance with Part I.C.6.g for those support facilities greater than one acre owned or operated by the permittee on which nutrients are applied. The NMPs may be incorporated by reference into the MS4 Program Plan provided that the site location and date of the NMP are provided in the MS4 Program Plan;
 - ix. Protocols to reduce the discharge of pollutants associated with the application of pesticide, herbicide, and fertilizer in accordance with Part I.C.6.g above; and
 - x. A training plan in accordance with Part I.C.6.h above that identifies the employees and/or positions requiring each type of training.
- j. For each reporting period, the corresponding annual report shall include:
- i. A list of any new good housekeeping or pollution prevention protocols developed by the permittee to reduce the discharge of pollutants associated with permittee owned or operated facilities;
 - ii. A confirmation statement that the written protocols developed in accordance with Part I.C.6.a above were followed to reduce the discharge of pollutants associated with permittee owned or operated facilities;
 - iii. A list of any new high priority facilities owned or operated by the permittee and the date on which the SWPPP was or will be developed;
 - iv. A confirmation statement that the SWPPPs for all high priority facilities have been developed and is up to date;
 - v. A list of any new lands greater than one acre owned or operated by the permittee on which nutrients are applied and the date on which NMP was or will be developed;
 - vi. A confirmation statement that the written protocols developed in accordance with Part I.C.6.f above were followed to reduce the discharge of pollutants associated with for roads, streets and parking lot maintenance;
 - vii. A confirmation statement that the written protocols developed in accordance with Part I.C.6.g above were followed to reduce the discharge of pollutants associated with pesticide, herbicide, and fertilizer application; and
 - viii. A summary of the training events occurring during the reporting period that includes the date of the training event, the number of employees attending the training, and the objective of the training event.
7. Infrastructure Coordination – The permittee shall coordinate with the following medium and large Phase I MS4 permittees, including Arlington County, Chesterfield County, Fairfax County, Henrico County, Prince William County, City of Chesapeake, City of Hampton, City of Newport News, City of Norfolk, City of Portsmouth, and the City of Virginia Beach, as described below regarding issues of MS4 physical-interconnectivity:
- a. Annual Coordination Meeting – VDOT shall meet annually with each Phase I MS4 permittee identified above for purposes of overall coordination on priority issues for the permittee’s MS4 program plan (including operations and maintenance elements) and TMDL action planning relevant to the interconnectivity of the MS4s. Meetings may be conducted individually with permittees or in a group meeting and face to face meetings, conference calls, or using electronic meeting technology may constitute a meeting.
 - b. Mapping – VDOT shall inform each Phase I MS4 permittee of the status of VDOT’s mapping program, identifying any uncertainty regarding ownership or actual location of MS4 components associated with the physically-interconnected MS4s, and work to resolve such uncertainty. VDOT shall coordinate with each Phase I MS4 permittee as appropriate to identify any areas within the Phase I MS4 permittee’s municipal

boundaries that drain to the VDOT MS4. For purposes of this permit “physically-interconnected” shall mean that one MS4 is connected to a second MS4 in such a manner that it allows for direct discharges to the second system.

- c. Chesapeake Bay TMDL Action Plans – VDOT shall inform each Phase I MS4 permittee of the means, methods, and schedule by which it will implement the reductions required by the Chesapeake Bay TMDL Special Condition (Part I.D.1) when those means and methods may impact the physically-interconnected MS4s. The parties are encouraged to cooperate with one another where the siting or design of best management practices (BMPs) may be accelerated or otherwise improved by mutual cooperation.

VDOT shall coordinate with each Phase I MS4 permittee to identify any areas within the Phase I MS4 permittee municipal boundaries that drain to the VDOT MS4 and are unaccounted for in the Chesapeake Bay TMDL Action Plan developed by VDOT or the Phase I MS4 permittee.

- d. Other TMDL Action Plans – VDOT shall inform each Phase I MS4 permittee of TMDL Action Plans and major milestones implemented for other (i.e., non-Chesapeake Bay) TMDLs when those plans may impact the physically-interconnected MS4s. The parties are encouraged to cooperate with one another where the siting or design of BMPs may be accelerated or improved by mutual cooperation.
- e. Credit for TMDL Implementation – BMPs and strategies implemented to meet the reduction requirements of Part I.D or Part I.E of this permit shall not be double-counted by two MS4 permittees in the calculation of load reductions for that particular TMDL Action Plan. If VDOT undertakes the project, it shall be entitled to full reductions from the project, but may share reductions with other permittees on mutually agreeable terms, which shall be in writing.
- f. Illicit Discharge Detection & Elimination – VDOT shall implement a program for illicit discharge detection and elimination in accordance with Part I.C.3 of this permit, for VDOT’s portion of the physically-interconnected MS4. As part of the annual coordination meeting, described in item Part I.C.7.a above, VDOT shall coordinate with each Phase I MS4 permittee on the identification of high risk industrial facilities. VDOT shall establish procedures for notifying each Phase I MS4 permittee when an illicit discharge is identified in the Phase I permittee’s MS4.
- g. Small MS4 (Phase II) Coordination – VDOT shall participate in coordination efforts initiated by those permittees operating an MS4 with which the VDOT MS4 is physically interconnected on those items listed in Part I.C.7.b through f. In addition, VDOT is encouraged to initiate coordination efforts with other Small Phase II MS4 permittees to the maximum extent practical.
- h. Annual Reports – For each reporting period, the annual report shall include VDOT’s documented coordination efforts with each MS4 permittee pursuant to requirements Part I.C.7. a through g above.

D. CHESAPEAKE BAY TMDL SPECIAL CONDITION

1. No later than 12 months after the effective date of this permit, the permittee shall reduce the load of total nitrogen, total phosphorus and total suspended solids from existing developed lands served by the MS4 as of June 30, 2009 based on the 2000 Census Urbanized Area by at least 5% of the Level 2 Scoping Run Reductions. The required reduction shall be calculated using the tables below:

a. Table 1a: Calculation Sheet for Estimating Existing Source Loads and Reduction Requirements for the James River, Lynnhaven, Little Creek, and Poquoson Coastal Basins

Pollutant	Subsource	Loading Rate ¹ (lbs/ac/yr)	Total Existing Acres Served by MS4 as of 6/30/09	Loading (lbs/ac/yr)	MS4 Required Chesapeake Bay Total Loading Rate Reduction	5% of L2 Required Reduction by 6/30/2018 (lb/ac/yr)	Total Reduction Required by 6/30/2018 (lbs)
Nitrogen	Regulated Urban Impervious	9.39			9%	0.042255	
	Regulated Urban Pervious	6.99			6%	0.02097	
Phosphorus	Regulated Urban Impervious	1.76			16%	0.01408	
	Regulated Urban Pervious	0.5			7.25%	0.0018125	
Total Suspended Solids	Regulated Urban Impervious	676.94			20%	6.7694	
	Regulated Urban Pervious	101.08			8.75%	0.442225	

¹ Edge of Stream Loading rate based on the Chesapeake Bay Watershed Model Progress Run 5.3.2

b. Table 1b: Calculation Sheet for Estimating Existing Source Loads and Reduction Requirements for the Potomac River Basin

Pollutant	Subsource	Loading Rate ¹ (lbs/ac/yr)	Total Existing Acres Served by MS4 as of 6/30/09	Loading (lbs/ac/yr)	MS4 Required Chesapeake Bay Total Loading Rate Reduction	5% of L2 Required Reduction by 6/30/2018 (lb/ac/yr)	Total Reduction Required by 6/30/2018 (lbs)
Nitrogen	Regulated Urban Impervious	16.86			9%	0.07587	
	Regulated Urban Pervious	10.07			6%	0.03021	
Phosphorus	Regulated Urban Impervious	1.62			16%	0.01296	
	Regulated Urban Pervious	0.41			7.25%	0.00148625	
Total Suspended Solids	Regulated Urban Impervious	1,171.32			20%	11.7132	
	Regulated Urban Pervious	175.8			8.75%	0.769125	

¹ Edge of Stream Loading rate based on the Chesapeake Bay Watershed Model Progress Run 5.3.2

c. Table 1c: Calculation Sheet for Estimating Existing Source Loads and Reduction Requirements for the Rappahannock River Basin

Pollutant	Subsource	Loading Rate ¹ (lbs/ac/yr)	Total Existing Acres Served by MS4 as of 6/30/09	Loading (lbs/ac/yr)	MS4 Required Chesapeake Bay Total Loading Rate Reduction	5% of L2 Required Reduction by 6/30/2018 (lb/ac/yr)	Total Reduction Required by 6/30/2018 (lbs)
Nitrogen	Regulated Urban Impervious	9.38			9%	0.04221	
	Regulated Urban Pervious	5.34			6%	0.01602	
Phosphorus	Regulated Urban Impervious	1.41			16%	0.01128	
	Regulated Urban Pervious	0.38			7.25%	0.0013775	
Total Suspended Solids	Regulated Urban Impervious	423.97			20%	4.2397	
	Regulated Urban Pervious	56.01			8.75%	0.24504375	

¹ Edge of Stream Loading rate based on the Chesapeake Bay Watershed Model Progress Run 5.3.2

d. Table 1d: Calculation Sheet for Estimating Existing Source Loads and Reduction Requirements for the York River Basin

Pollutant	Subsource	Loading Rate ¹ (lbs/ac/yr)	Total Existing Acres Served by MS4 as of 6/30/09	Loading (lbs/ac/yr)	MS4 Required Chesapeake Bay Total Loading Rate Reduction	5% of L2 Required Reduction by 6/30/2018 (lb/ac/yr)	Total Reduction Required by 6/30/2018 (lbs)
Nitrogen	Regulated Urban Impervious	7.31			9%	0.032895	
	Regulated Urban Pervious	7.65			6%	0.02295	
Phosphorus	Regulated Urban Impervious	1.51			16%	0.01208	
	Regulated Urban Pervious	0.51			7.25%	0.00184875	
Total Suspended Solids	Regulated Urban Impervious	456.68			20%	4.5668	
	Regulated Urban Pervious	72.78			8.75%	0.3184125	

¹ Edge of Stream Loading rate based on the Chesapeake Bay Watershed Model Progress Run 5.3.2

e. Reductions shall be achieved in each river basin as calculated in Part I.D.1.a through d above;

- f. Loading values greater than or equal to 10 pounds calculated in accordance with Part I.D.1 of this permit shall be calculated and reported to the nearest pound without regard to mathematical rules of precision. Loading values of less than 10 pounds reported in accordance with Part I.D.1 of this permit shall be calculated and reported to at least two significant digits.
- g. To demonstrate compliance with Part I.D.1, the permittee may apply reductions achieved in accordance with and under the General VPDES Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems effective July 1, 2013; and
- h. Reductions in pollutant loadings achieved in excess of the minimum reductions required by Part I.D.1 shall be applied toward the reduction in pollutant loadings required in Part I.D.2 below.
2. No later than the expiration date of this permit, the permittee shall reduce the load of total nitrogen, total phosphorus and total suspended solids from existing developed lands served as of June 30, 2009 by the MS4 based on the **2010** Census Urbanized Area by at least **36% (cumulative)** of the Level 2 Scoping Run Reductions. The required reduction shall be calculated using the tables below:

a. **Table 2a: Calculation Sheet for Estimating Existing Source Loads and Reduction Requirements for the James River, Lynnhaven, and Little Creek, Basins**

Pollutant	Subsource	Loading Rate ¹ (lbs/ac/yr)	Total Existing Acres Served by MS4 as of 6/30/09	Loading (lbs/ac/yr)	MS4 Required Chesapeake Bay Total Loading Rate Reduction	36% of L2 Required Reduction by 6/30/2022 (lb/ac/yr)	Cumulative Reduction Required by 6/30/2022 (lbs)
Nitrogen	Regulated Urban Impervious	9.39			9%	0.304236	
	Regulated Urban Pervious	6.99			6%	0.150984	
Phosphorus	Regulated Urban Impervious	1.76			16%	0.101376	
	Regulated Urban Pervious	0.5			7.25%	0.01305	
Total Suspended Solids	Regulated Urban Impervious	676.94			20%	48.73968	
	Regulated Urban Pervious	101.08			8.75%	3.18402	

¹Edge of Stream Loading rate based on the Chesapeake Bay Watershed Model Progress Run 5.3.2

b. Table 2b: Calculation Sheet for Estimating Existing Source Loads and Reduction Requirements for the Potomac River Basin

Pollutant	Subsource	Loading Rate ¹ (lbs/ac/yr)	Total Existing Acres Served by MS4 as of 6/30/09	Loading (lbs/ac/yr)	MS4 Required Chesapeake Bay Total Loading Rate Reduction	36% of L2 Required Reduction by 6/30/2022 (lb/ac/yr)	Cumulative Reduction Required by 6/30/2022 (lbs)
Nitrogen	Regulated Urban Impervious	16.86			9%	0.546264	
	Regulated Urban Pervious	10.07			6%	0.217512	
Phosphorus	Regulated Urban Impervious	1.62			16%	0.093312	
	Regulated Urban Pervious	0.41			7.25%	0.010701	
Total Suspended Solids	Regulated Urban Impervious	1171.32			20%	84.33504	
	Regulated Urban Pervious	175.8			8.75%	5.5377	

¹ Edge of Stream Loading rate based on the Chesapeake Bay Watershed Model Progress Run 5.3.2

c. Table 2c: Calculation Sheet for Estimating Existing Source Loads and Reduction Requirements for the Rappahannock River Basin

Pollutant	Subsource	Loading Rate ¹ (lbs/ac/yr)	Total Existing Acres Served by MS4 as of 6/30/09	Loading (lbs/ac/yr)	MS4 Required Chesapeake Bay Total Loading Rate Reduction	36% of L2 Required Reduction by 6/30/2022 (lb/ac/yr)	Cumulative Reduction Required by 6/30/2022 (lbs)
Nitrogen	Regulated Urban Impervious	9.38			9%	0.303912	
	Regulated Urban Pervious	5.34			6%	0.115344	
Phosphorus	Regulated Urban Impervious	1.41			16%	0.081216	
	Regulated Urban Pervious	0.38			7.25%	0.009918	
Total Suspended Solids	Regulated Urban Impervious	423.97			20%	30.52584	
	Regulated Urban Pervious	56.01			8.75%	1.764315	

¹ Edge of Stream Loading rate based on the Chesapeake Bay Watershed Model Progress Run 5.3.2

d. Table 2d: Calculation Sheet for Estimating Existing Source Loads and Reduction Requirements for the York and Poquoson River Basin

Pollutant	Subsource	Loading Rate ¹ (lbs/ac/yr)	Total Existing Acres Served by MS4 as of 6/30/09	Loading (lbs/ac/yr)	MS4 Required Chesapeake Bay Total Loading Rate Reduction	36% of L2 Required Reduction by 6/30/2022 (lb/ac/yr)	Cumulative Reduction Required by 6/30/2022 (lbs)
Nitrogen	Regulated Urban Impervious	7.31			9%	0.236844	
	Regulated Urban Pervious	7.65			6%	0.16524	
Phosphorus	Regulated Urban Impervious	1.51			16%	0.086976	
	Regulated Urban Pervious	0.51			7.25%	0.013311	
Total Suspended Solids	Regulated Urban Impervious	456.68			20%	32.88096	
	Regulated Urban Pervious	72.78			8.75%	2.29257	

¹ Edge of Stream Loading rate based on the Chesapeake Bay Watershed Model Progress Run 5.3.2

- e. Reductions shall be achieved in each river basin as calculated in Part I.D.2.a through d above;
- f. Loading values greater than or equal to 10 pounds calculated in accordance with Part I.D.1 of this permit shall be calculated and reported to the nearest pound without regard to mathematical rules of precision. Loading values of less than 10 pounds reported in accordance with Part I.D.1 of this permit shall be calculated and reported to at least two significant digits; and
- g. Reductions achieved in accordance with Part I.D.1 above shall be applied to the 36% cumulative requirement regardless of revisions to the load rates, reduction rates, service area estimates, and land cover estimates including reductions achieved in accordance with and under the General VPDES Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems effective July 1, 2013.

3. Chesapeake Bay Watershed TMDL Action Plan

- a. No later than 12-months after the effective date of this permit, the permittee shall submit to the DEQ for its review an amended Chesapeake Bay TMDL Action Plan that addresses a cumulative reduction of at least 36% of the total Level 2 Scoping Run reductions as calculated in Part I.D.2.a through d. above. The action plan shall include:
 - i. Any new or modified legal authorities, such as permits, orders, contracts and inter-jurisdictional agreements, implemented or needing to be implemented to meet the requirements of Part I.D.2.
 - ii. The contact person(s) and/or positions or departments responsible for the Action Plan.
 - iii. The BMPs and/or other strategies to be implemented by the permittee prior to the expiration of this permit to meet the reductions calculated in Part I.D.2.a through d above and not previously submitted in the original action plan, including as applicable:
 - 1) Project name;
 - 2) Location;
 - 3) Percent Removal Efficiency, as applicable; and
 - 4) Demonstration (calculated in accordance with Part I.D.1.f) of the reduction in load provided by the BMP.

- iv. Anticipated schedule of implementation of BMPs and/or strategies identified as required by Part I.D.3.a.ii above.
 - b. The permittee shall provide an opportunity for public comment on the additional BMPs and/or strategies proposed to meet the reductions not previously approved by the DEQ in the first phase Chesapeake Bay TMDL (5% reduction) action plan for no less than 15 days. The public comment period may occur concurrently with DEQ's review of the Chesapeake Bay TMDL Action Plan. Upon the end of the public comment period, the permittee shall submit the following to DEQ:
 - i. A summary of all comments received as a result of the public comment period;
 - ii. The permittee's response to the public comments;
 - iii. Identification of any public meetings to address comments; and
 - iv. Any revisions made to the amended Chesapeake Bay TMDL Action Plan as a result of the public comments.
 - c. In lieu of the amended Chesapeake Bay TMDL Action Plan required in Part I.D.3.a above, the permittee may submit a separate second phase Chesapeake Bay TMDL action plan if the following criteria are met:
 - i. The document is clearly identified as the Second Phase Chesapeake Bay TMDL Action Plan;
 - ii. The document incorporates by reference the first phase Chesapeake Bay TMDL Action Plan and includes the date of the DEQ's approval of the first action Chesapeake Bay TMDL Plan;
 - iii. The combined first and second phase Chesapeake Bay TMDL Action Plans demonstrates a reduction of no less than the cumulative reductions calculated in Part I.D.2.a through d above.
 - iv. The document includes the status of implementation of the first phase Chesapeake Bay TMDL Action Plan and summary of the reductions achieved for total nitrogen, total phosphorus, and total sediment as of the date of submittal; and
 - v. The action plan incorporates all of the items listed in Part I.D.3.a.i. through iv. above.
4. The Chesapeake Bay TMDL Action Plan shall be incorporated by reference into the MS4 Program Plan required by Part I.B. of this permit.
5. For each reporting period, the corresponding annual report shall include the following information:
 - a. A list of BMPs and/or strategies implemented during the reporting period and the estimated reduction of pollutant(s) achieved by each reported in pounds per acre per year;
 - b. The progress toward meeting the required cumulative reductions for total nitrogen, total phosphorus, and total suspended solids; and
 - c. A list of control measures that are planned to be implemented during the next reporting period.

E. LOCAL TMDL SPECIAL CONDITION

1. The permittee shall develop and implement a local TMDL action plan for each pollutant for which wasteloads have been allocated to the permittee's MS4 in TMDLs approved by the Environmental Protection Agency (EPA) and listed in Attachment A of this permit as described below:
 - a. For TMDLs approved by the EPA prior to July 1, 2013, the permittee shall update the previously approved local TMDL action plans in order to meet the conditions of Part I.E.2, 3, 4, and 5, as applicable, no later than 12 months after the permit effective date.
 - b. For TMDLs approved by EPA on or after July 1, 2013 and prior to April 1, 2017, the permittee shall develop and initiate implementation of action plans for each pollutant for which wasteloads have been allocated to the permittee's MS4 in order to meet the conditions of Part I.E.2, 3, 4, and 5, as applicable no later than 24 months after the permit effective date.
2. Each local TMDL action plan developed by the permittee shall include the following:
 - a. The TMDL project name;
 - b. The EPA approval date of the TMDL;
 - c. The WLA allocated to the permittee and corresponding percent reduction, if applicable;
 - d. An inventory map of all permittee owned or operated facilities, including roadway systems, located within the TMDL watershed;
 - e. An evaluation of each facility and roadway categories (e.g., interstate, primary, secondary) identified in Part I.E.2.d above to determine if it is a significant source of the pollutant of concern with the potential to discharge stormwater to the permittee's MS4 and not covered under a separate VPDES permit for the discharge of industrial stormwater;
 - f. An outreach strategy to enhance the public's education (including employees) on methods to eliminate and reduce discharges of the pollutant;
 - g. A list of interim milestone activities to address the pollutant to be implemented prior to the expiration of this permit; and
 - h. The contact person(s) and/or positions or departments for the Action Plan.
3. Local Bacterial TMDLs
 - a. For each bacterial TMDL (fecal coliform, enterococci, or *E. coli*) that allocates a WLA to VDOT's MS4, the permittee shall develop a TMDL action plan that includes:
 - i. The items listed in Part I.E. 2 above;
 - ii. Identification of the Minimum Control Measures implemented under Part I.C. 1 through 6 of this permit that also accomplish reductions in potential loadings of bacteria;
 - iii. A description of BMPs commonly used to control anthropogenic sources of bacteria; and
 - iv. Any BMPs the permittee has implemented or plans to implement to reduce the loading of bacteria from anthropogenic sources under the permittee's legal authority in the TMDL watershed.
 - b. At facilities with onsite septic in a local watershed with a bacteria TMDL that allocates a WLA to VDOT's MS4, ensure the septic tank system is inspected once every 5 years, and pumped out if necessary, and maintain a log of inspections and maintenance for the septic system.

4. Local Sediment TMDLs

- a. For each sediment TMDL that allocates a WLA to VDOT's MS4, the permittee shall develop a TMDL Action Plan that includes:
 - i. The items listed in Part I.E. 2 above;
 - ii. Identification of the Minimum Control Measures implemented under Part I.C. 1 through 6 of this permit that also accomplish reductions in potential loadings of sediment;
 - iii. Identification of BMPs from the Virginia BMP Clearinghouse, approved by the Chesapeake Bay Program, or approved by DEQ commonly used to control sediment and their appropriateness for use to reduce loadings of the pollutant(s) from sources under the permittee's legal authority in the TMDL watershed; and
 - iv. Any BMPs the permittee has implemented or plans to implement to reduce the loading of sediment under the permittee's legal authority in the TMDL watershed;
 - v. The calculation of reductions achieved by the BMPs identified in Part I.E.4.a.iv using DEQ approved calculation methodologies.
- b. If excessive loading of sediment from a land disturbing activity (i.e. more than to be expected from a project with an implemented ESC plan) that is the responsibility of the permittee is discovered in a local watershed with a sediment TMDL that allocates a WLA to VDOT's MS4, the permittee shall investigate the area of concern at the site within 24 hours of discovery and ensure all erosion and sediment control best management practices are being implemented in accordance with the permittee's approved standards and specifications required by Part I.C.4 of this permit. If corrective action is necessary, the permittee shall initiate corrective actions no later than 5 business days after the initial investigation; and
- c. If excessive loading of sediment from a land disturbing activity that is not the responsibility of the permittee is discovered discharging into the permittee's MS4 in a local watershed with a sediment TMDL that allocates a WLA to VDOT's MS4, the permittee shall notify the local municipality with jurisdiction over erosion and sediment control activities.

5. Local Polychlorinated Biphenyl (PCB) TMDLs - For each PCB TMDL that allocates a WLA to VDOT's MS4, the permittee shall develop a TMDL Action Plan that includes:

- a. The items listed in Part I.E. 2 above; and
- b. An inventory of significant sources of PCB owned or operated by the permittee that drains to the MS4. The inventory shall include the following:
 - i. Identification of the significant source;
 - ii. Whether or not the significant source is from active operations or activities previously conducted at the site that have been terminated (i.e. legacy activities); and
 - iii. If the significant source is part of the active operations, a description of the measures to be implemented to prevent exposure to stormwater and the discharge of PCBs from the site.

If VDOT becomes aware of an industrial site that is discharging PCBs through stormwater into the permittee's MS4 in a local watershed with a PCB TMDL that allocates a WLA to VDOT's MS4,, the permittee shall notify DEQ in writing within 45 days of the permittee's finding.

6. The permittee shall provide an opportunity for public comment on the local TMDL action plans required in accordance with Part I.E1. above for no less than 15 days. The public comment period may occur concurrently with DEQ's review of the Local TMDL Action Plans. Upon the end of the public comment period, the permittee shall submit the following to DEQ:
 - i. A summary of all comments received as a result of the public comment period;
 - ii. The permittee's response to the public comments;
 - iii. Identification of any public meetings to address comments; and
 - iv. Any revisions made to the Local TMDL Action Plan as a result of the public comments.

7. TMDL Action Plans may be implemented in multiple phases over more than one permit cycle using the adaptive iterative approach provided adequate progress is made to reduce pollutant discharges in a manner that is consistent with the assumptions and requirements of the applicable TMDL.
8. No later than 48 months after the permit effective date, the permittee shall submit to DEQ an assessment of the effectiveness of each local TMDL action plan in reducing the pollutants for which a WLA is assigned. Assessment methods may include the following:
 - a. BMP, outfall, or ambient water quality data from monitoring conducted by the permittee, DEQ, citizen monitoring groups, or other third parties conducted according to procedures approved under 40 CFR Part 136 or alternative methods approved by the EPA. Where an approved 40 CFR Part 136 method does not exist, the permittee shall use a method consistent with the TMDL;
 - b. Modeling tools to estimate reductions of the pollutant(s) of concern from implementation of the MS4 Program Plan and/or action plan;
 - c. The evaluation of newly available information; or
 - d. Other methodologies approved in advance of submittal by DEQ
9. The MS4 Program Plan as required by Part I.B of this permit shall incorporate each local TMDL action plan. Local TMDL action plans may be incorporated by reference into the MS4 Program Plan provided that the program plan includes the date of the most recent local TMDL action plan and identification of the location where a copy of the local TMDL action plan may be obtained.
10. For each reporting period, each annual report shall include a summary of actions conducted to implement each local TMDL action plan(s).

PART II-CONDITIONS APPLICABLE TO ALL VSMP MS4 PERMITS

A. MONITORING

1. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
2. Monitoring shall be conducted according to procedures approved under 40 CFR Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.
3. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will ensure accuracy of measurements.
4. Samples taken as required by this permit shall be analyzed in accordance with 1VAC30-45, Certification for Noncommercial Environmental Laboratories, or 1VAC30-46, Accreditation for Commercial Environmental Laboratories.

B. RECORDS

1. Monitoring records/reports shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The individual(s) who performed the sampling or measurements;
 - c. The date(s) and time(s) analyses were performed;
 - d. The individual(s) who performed the analyses;
 - e. The analytical techniques or methods used; and
 - f. The results of such analyses.
2. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation; copies of all reports required by this permit; and records of all data used to complete the registration statement for this permit, for a period of at least 3 years from the date of the sample, measurement, report or request for coverage. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. REPORTING MONITORING RESULTS

1. The permittee shall submit the results of the monitoring required by this permit with the annual report unless another reporting schedule is specified elsewhere in this permit.
2. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the DEQ; or in any format provided that the date, location, parameter, method, and result of the monitoring activity are included.
3. If the permittee monitors any pollutant specifically addressed by this permit more frequently than required by this permit using test procedures approved under 40 CFR Part 136 or using other test procedures approved

by the U.S. Environmental Protection Agency or using procedures specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted on the DMR or reporting form specified by the DEQ.

4. Calculations for all limitations that require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. DUTY TO PROVIDE INFORMATION

The permittee shall furnish to the DEQ, within a reasonable time, any information that the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from its discharge on the quality of surface waters, or such other information as may be necessary to accomplish the purposes of the Clean Water Act and Virginia Stormwater Management Act. The permittee shall also furnish to the DEQ upon request, copies of records required to be kept by this permit.

E. COMPLIANCE SCHEDULE REPORTS

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. UNAUTHORIZED STORMWATER DISCHARGES

Pursuant to § 62.1-44.5 of the Code of Virginia, except in compliance with a permit issued by the board, it shall be unlawful to discharge stormwater into state waters from a MS4.

G. REPORTS OF UNAUTHORIZED DISCHARGES

Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance or who discharges or causes or allows a discharge that may reasonably be expected to enter surface waters, shall notify the DEQ of the discharge immediately upon discovery of the discharge, but in no case later than within 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the DEQ, within five days of discovery of the discharge. The written report shall contain:

1. A description of the nature and location of the discharge;
2. The cause of the discharge;
3. The date on which the discharge occurred;
4. The length of time that the discharge continued;
5. The volume of the discharge;
6. If the discharge is continuing, how long it is expected to continue;
7. If the discharge is continuing, what the expected total volume of the discharge will be; and
8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the DEQ under the immediate reporting requirements of other regulations are exempted from this requirement.

H. REPORTS OF UNUSUAL OR EXTRAORDINARY DISCHARGES

If any unusual or extraordinary discharge including a "bypass" or "upset", as defined herein, should occur from a BMP and the discharge enters or could be expected to enter surface waters, the permittee shall promptly notify, in no case later than 24 hours, the DEQ by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse effects on aquatic life and the known number of fish killed. The permittee shall produce a written report and submit it to the DEQ within five days of discovery of the discharge in accordance with Part II.1.2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;
2. Breakdown of processing or accessory equipment;
3. Failure or taking out of service some or all of the BMP; and
4. Flooding or other acts of nature.

I. REPORTS OF NONCOMPLIANCE

The permittee shall report any permit noncompliance, which may adversely affect surface waters or may endanger public health.

1. An oral report shall be provided within 24 hours to the DEQ from the time the permittee becomes aware of the circumstances. The following shall be included as information, which shall be reported within 24 hours under this paragraph:
 - a. Any unanticipated bypass; and
 - b. Any upset which causes a discharge to surface waters.
2. A written report shall be submitted within 5 days and shall contain:
 - a. A description of the noncompliance and its cause;
 - b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
 - c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II.I if the oral report has been received within 24 hours and no adverse impact on surface waters has been reported.

3. The permittee shall report all instances of noncompliance not reported under Part II.1.2 in writing at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II.2.

NOTE: The immediate (within 24 hours) reports required in Parts II G, H and I may be made to the DEQ's Regional Office. Reports may be made by telephone, fax, or online at <http://www.deq.virginia.gov/Programs/PollutionResponsePreparedness/MakingaReport.asp>. For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting

requirement. For emergencies, the Virginia Department of Emergency Management maintains a 24 hour telephone service at 1-800-468-8892.

4. Whenever the permittee becomes aware of a failure to submit any relevant facts, or submitted incorrect information in any report to the DEQ, it shall promptly submit such facts or information.

J. NOTICE OF PLANNED CHANGES

1. The permittee shall give notice to the DEQ as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:
 - a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:
 - i. After promulgation of standards of performance under § 306 of the Clean Water Act that are applicable to such source; or
 - ii. After proposal of standards of performance in accordance with § 306 of the Clean Water Act that are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal.
 - b. The permittee plans alteration or addition that would significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notifications requirements specified elsewhere in this permit; or
2. The permittee shall give advance notice to the DEQ of any planned changes in the permitted facility or activity, which may result in noncompliance with permit requirements.

K. SIGNATORY REQUIREMENTS

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

- a. The authorization is made in writing by a person described in Part II.K.1;
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the permittee. (A duly authorized representative may thus be either a named individual or any individual occupying a named position); and
 - c. The written authorization is submitted to the DEQ.
3. Changes to authorization. If an authorization under Part II.K.2 is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II.K.2 shall be submitted to the DEQ prior to or together with any reports, or information to be signed by an authorized representative.
 4. Certification. Any person signing a document under Parts II.K.1 or 2 shall make the following certification:

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

L. DUTY TO COMPLY

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Virginia Stormwater Management Act and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the Virginia Stormwater Management Act but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

The permittee shall comply with effluent standards or prohibitions established under § 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions even if this permit has not yet been modified to incorporate the requirement.

M. DUTY TO REAPPLY

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. EFFECT OF A PERMIT

This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

O. STATE LAW

Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by § 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II.U), and "upset" (Part II.V) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. OIL AND HAZARDOUS SUBSTANCE LIABILITY

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law or section 311 of the Clean Water Act.

Q. PROPER OPERATION AND MAINTENANCE

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems, which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. DISPOSAL OF SOLIDS OR SLUDGES

Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering surface waters.

S. DUTY TO MITIGATE

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit, which has a reasonable likelihood of adversely affecting human health or the environment.

T. NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. BYPASS

1. "Bypass", as defined in 9 VAC 25-870-10, means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II.U.2 and U.3.
2. Notice
 - a. Anticipated Bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.
 - b. Unanticipated Bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II.I.

3. Prohibition of bypass.
 - a. Bypass is prohibited, and the Board or its designee may take enforcement action against a permittee for bypass, unless:
 - i. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - ii. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance; and
 - iii. The permittee submitted notices as required under Part II.U.2.
 - b. The Board or its designee may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II.U.3 a.

V. UPSET

1. An upset, as defined in 9 VAC 25-870-10, constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II.V.3 are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.
2. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation.
3. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - a. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - b. The permitted facility was at the time being properly operated;
 - c. The permittee submitted notice of the upset as required in Part II.I; and
 - d. The permittee complied with any remedial measures required under Part II.S.
4. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. INSPECTION AND ENTRY

The permittee shall allow the Director or an authorized representative (including an authorized contractor acting as a representative of the Director) upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the Virginia Stormwater Management Act, any substances or parameters at any location.

For purposes of this subsection, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. PERMIT ACTIONS

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. TRANSFER OF PERMITS

1. Permits are not transferable to any person except after notice to the DEQ. Except as provided in Part II.Y.2, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the Virginia Stormwater Management Act and the Clean Water Act.
2. As an alternative to transfers under Part II.Y.1, this permit may be automatically transferred to a new permittee if:
 - a. The current permittee notifies the DEQ at least thirty (30) days in advance of the proposed transfer of the title to the facility or property unless permission for a later date is granted by the Board;
 - b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
 - c. The Board does not notify the existing permittee and the proposed new permittee of its intent to deny the new permittee coverage under the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II.Y.2.b.

Z. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

Attachment A: Local TMDLs with WLAs assigned to VDOT's MS4

Project Name	Watershed Name	Pollutant	Permit Current WLA	Units	Percent Reduction	WLA Aggregated with:	EPA Approval Date	SWCB Approval Date	DEQ Region
Stroubles Creek Watershed	Stroubles Creek	Sediment	210.88	tons/year	54%	VAR040019, VAR040049	1/28/2004	6/17/2004	WCRO
Opequon and Abrams Creek Watersheds, Bacteria	Abrams Creek	E. Coli	3.1E+12	cfu/year	96%	VAR040053	2/18/2004	12/20/2005	VRO
	Abrams Creek	Sediment	442.7	tons/year	25%	VAR040053	2/18/2004	6/28/2005	VRO
Opequon and Abrams Creek Watersheds, Aquatic Life	Lower Opequon Creek Watershed and Tributaries	Sediment	269.2	tons/year	15%	VAR040053	2/18/2004	6/28/2005	VRO
Goose Creek and Little River Watersheds	Goose Creek	Sediment	287.4	tons/year	Developed: 30% Construction: 35%	VAR102991, VAR100796, VAR040059, VAR051426, VAR051427, VAR050980, VAR101380, VAR102543, VAR101452, VAR101399, VAR100810	4/26/2004	8/31/2004	NVRO
	Goose Creek	Sediment	123.6	tons/year	Developed: 30% Construction: 35%	VAR040067, VAR051013, VAR101445, VAR102855, VAR101530, VAR100797, VAR102006, VAR100804, VAR100805, VAR101478, VAR101670	4/26/2004	8/31/2004	NVRO
Crab Creek Watershed	Crab Creek	Sediment	55.14	tons/year	50%	VAR040025	8/10/2004	12/2/2004	WCRO
	Crab Creek	E. Coli	3.40 E+08	cfu/year	99%	VAR040025	8/10/2004	12/2/2004	WCRO
Upper Roanoke River Watershed	Roanoke River	Sediment	4	tons/year	69.5%	Individual allocation	5/10/2006	9/7/2006	WCRO
	Roanoke River	Sediment	27	tons/year	69.5%	Individual allocation	5/10/2006	9/7/2006	WCRO
	Roanoke River	E. Coli	1.07E+10	cfu/year	98.8%	Individual allocation	8/2/2006	6/27/2007	WCRO
	Ore Branch	E. Coli	4.35E+8	cfu/year	99.5%	Individual allocation	8/2/2006	6/27/2007	WCRO
	Wilson Creek	E. Coli	1.17E+9	cfu/year	99.5%	Individual allocation	8/2/2006	6/27/2007	WCRO
Bull Run	Bull Run	Sediment	508.9	tons/year	77.1%	VA0088595, VAR040100	9/26/2006	6/27/2007	NVRO
	Bull Run	Sediment	108.3	tons/year	77.1%	VAR040070	9/26/2006	6/27/2007	NVRO
	Bull Run	Sediment	210	tons/year	77.1%	VAR040063, VAR040095	9/26/2006	6/27/2007	NVRO
	Bull Run	Sediment	422.2	tons/year	77.1%	VAR040067	9/26/2006	6/27/2007	NVRO
	Bull Run	Sediment	14.2	tons/year	77.1%	VAR040064	9/26/2006	6/27/2007	NVRO
	Bull Run	Sediment	4096.6	tons/year	77.1%	VA0088587, VAR040104	9/26/2006	6/27/2007	NVRO
Popes Head Creek	Popes Head Creek	Sediment	1546.5	tons/year	27.7%	VA0088587, VAR040104	9/26/2006	6/27/2007	NVRO
	Popes Head Creek	Sediment	22.3	tons/year	27.7%	VAR040064	9/26/2006	6/27/2007	NVRO

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Project Name	Watershed Name	Pollutant	Permit Current WLA	Units	Percent Reduction	WLA Aggregated with:	EPA Approval Date	SWCB Approval Date	DEQ Region
Occoquan River watershed	Broad Run (1)	E. Coli	1.15E+10	cfu/year	81%	VAR040063	11/15/2006	7/31/2008	NVRO
	Broad Run (1)	E. Coli	5.55E+11	cfu/year	81%	VA0088595, VAR040100	11/15/2006	7/31/2008	NVRO
	Occoquan River	E. Coli	1.72E+11	cfu/year	94%	VA0088595,VAR040100	11/15/2006	7/31/2008	NVRO
	Occoquan River	E. Coli	2.95E+10	cfu/year	94%	VAR040063	11/15/2006	7/31/2008	NVRO
	Bull Run	E. Coli	6.82E+9	cfu/year	88.8%	VAR040063,VAR040095	11/15/2006	7/31/2008	NVRO
	Bull Run	E. Coli	1.6E+10	cfu/year	88.8%	VA0088595 , VAR040100	11/15/2006	7/31/2008	NVRO
	Bull Run	E. Coli	3.55E+0	cfu/year	88.8%	VAR040070	11/15/2006	7/31/2008	NVRO
	Bull Run	E. Coli	1.32E+10	cfu/year	88.8%	VAR040067	11/15/2006	7/31/2008	NVRO
	Bull Run	E. Coli	7.61E+10	cfu/year	88.8%	VA0088587 , VAR040104	11/15/2006	7/31/2008	NVRO
	Popes Head Creek	E. Coli	1.03E+10	cfu/year	94%	VAR040064	11/15/2006	7/31/2008	NVRO
	Popes Head Creek	E. Coli	6.83E+11	cfu/year	94%	VA0088587 , VAR040104	11/15/2006	7/31/2008	NVRO
Potomac River Watershed	Pimmit Run	PCB	0.36	gram/year	99.5%	VA0088579, VAR040062, VAR040111	10/31/2007	04/11/2008	NVRO
	Pimmit Run	PCB	0.973	gram/year	98.8%	VA0088587, VAR040104, VAR040064, VAR040111	10/31/2007	04/11/2008	NVRO
	Middle/Lower DC Tidal Potomac	PCB	7.33	gram/year	99.5%	VA0088579, VAR040068, VAR040103, VAR040064, VAR040111	10/31/2007	04/11/2008	NVRO
	Four Mile Run/Lower DC Tidal Potomac	PCB	6.27	gram/year	95.3%	VA0088579, VAR040068, VAR040103, VAR040064, VAR040111	10/31/2007	04/11/2008	NVRO
	Four Mile Run/Lower DC Tidal Potomac	PCB	2.98	gram/year	95.2%	VAR040057, VAR040062, VAR040111	10/31/2007	04/11/2008	NVRO
	Four Mile Run/Lower DC Tidal Potomac	PCB	0.293	gram/year	95.2%	VAR040065, VAR040064	10/31/2007	04/11/2008	NVRO
	Four Mile Run/Lower DC Tidal Potomac	PCB	0.943	gram/year	95.3%	VA0088587, VAR040104, VAR040064	10/31/2007	04/11/2008	NVRO
	Hooff Run/Hunting Creek	PCB	6.79	gram/year	85.7%	VAR040057, VAR040064	10/31/2007	04/11/2008	NVRO

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Project Name	Watershed Name	Pollutant	Permit Current WLA	Units	Percent Reduction	WLA Aggregated with:	EPA Approval Date	SWCB Approval Date	DEQ Region
	Hooff Run/Hunting Creek	PCB	5.65	gram/year	85.8%	VA0088587, VAR040104, VAR040064	10/31/2007	04/11/2008	NVRO
	Dogue Creek/Lower Hunting Creek/Little Hunting Creek/Upper MD Tidal Potomac	PCB	37.4	gram/year	56.5%	VA0088587, VAR040104, VAR040093, VAR040064, VAR040111	10/31/2007	04/11/2008	NVRO
	Lower Hunting Creek/Lower DC Tidal Potomac	PCB	0.503	gram/year	89.8%	VAR040057, VAR040064, VAR040111	10/31/2007	04/11/2008	NVRO
	Accotink Bay/Gunston Cove/Pohick Creek/Pohick Bay	PCB	8.11	gram/year	5%	VA0088587, VAR040104, VAR040093, VAR040106, VAR040064	10/31/2007	04/11/2008	NVRO
	Belmont Bay/Occoquan Bay/Neabsco Creek/Occoquan River/Middle, Upper MD Tidal Potomac River	PCB	1.64	gram/year	83.3%	VA0088587, VAR040104, VAR040064	10/31/2007	04/11/2008	NVRO
	Belmont Bay/Occoquan Bay/Occoquan River/Middle MD Tidal Potomac	PCB	5.61	gram/year	85.8%	VA0088595, VAR040100, VAR040064	10/31/2007	04/11/2008	NVRO
	Chopawamsic Creek/Powells Creek/Quantico Creek/Middle MD Tidal Potomac	PCB	3.09	gram/year	5%	VA0088595, VAR040100, VAR040069, VAR040105, VAR040064	10/31/2007	04/11/2008	NVRO
	Chopawamsic Creek/Aquia Creek/Potomac	PCB	5.98	gram/year	5%	VAR040056, VAR040071, VAR040061	10/31/2007	04/11/2008	NVRO
	James River	Burton Creek	E. Coli	7.37E+11	cfu/year	98%	VAR040008	12/4/2007	7/31/2008

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Project Name	Watershed Name	Pollutant	Permit Current WLA	Units	Percent Reduction	WLA Aggregated with:	EPA Approval Date	SWCB Approval Date	DEQ Region
Watershed (Lynchburg)	Judith Creek	E. Coli	3.1E+11	cfu/year	94%	VAR040008	12/4/2007	7/31/2008	SCRO
	Tomahawk Creek	E. Coli	8.34E+11	cfu/year	95%	VAR040008	12/4/2007	7/31/2008	SCRO
	Blackwater Creek	E. Coli	3.06E+12	cfu/year	91%	VAR040008	12/4/2007	7/31/2008	SCRO
	Fishing Creek	E. Coli	1.03E+12	cfu/year	80%	VAR040008	12/4/2007	7/31/2008	SCRO
	Ivy Creek	E. Coli	6.25E+11	cfu/year	98%	VAR040008	12/4/2007	7/31/2008	SCRO
	James River	E. Coli	8.32E+13	cfu/year	80%	VAR040008	12/4/2007	7/31/2008	SCRO
Tidal Freshwater Rappahannock River Watershed	Rappahannock River, Tidal Fresh	E. Coli	3.89E+11	cfu/year	62.8%	VAR040058, VAR040071, VAR040094, VAR040056	5/5/2008	4/28/2009	NVRO
Rivanna River Watershed	Rivanna River	Sediment	24090	lbs/year	59.3%	Individual allocation	6/11/2008	4/27/2009	VRO
	Rivanna River	Sediment	2555	lbs/year	59.3%	Individual allocation	6/11/2008	4/27/2009	VRO
	Rivanna River	E. Coli	5.1E+11	cfu/year	95%	VAR040051, VAR04073, VAR0074, VAR040108	01/05/2009	4/28/2009	VRO
	Rivanna River	E. Coli	3.27E+12	cfu/year	95%	VAR040051, VAR04073, VAR0074, VAR040108	01/05/2009	4/28/2009	VRO
	Beaver Creek	E. Coli	2.2E+10	cfu/year	95%	VAR040051, VAR04073, VAR0074, VAR040108	01/05/2009	4/28/2009	VRO
	Meadow Creek	E. Coli	3.83E+12	cfu/year	95%	VAR040051, VAR04073, VAR0074, VAR040108	01/05/2009	4/28/2009	VRO
Neabsco Creek Watershed	Neabsco Creek	E. Coli	1.05E+12	cfu/day	75%	VA0088595, VAR040100, VAR040095	7/10/2008	4/28/2009	NVRO
Difficult Run	Difficult Run	Sediment	3594.2	tons/year	32%	VA0088587, VAR040104, VAR040064, VAR040066, VAR040111	11/7/2008	4/27/2009	NVRO
	Difficult Run	E. Coli	9.44E+12	cfu/year	90%	VAR040064, VA0088587, VAR040066, VAR040104, VAR040111	11/7/2008	4/28/2009	NVRO
Accotink Creek (Lower)	Accotink Creek (Lower)	E. Coli	1.73E+12	cfu/year	97%	VA0088587, VAR040104, VAR040095, VAR040093	12/18/2008	4/28/2009	NVRO
Tidal Four Mile Run Watershed	Tidal Four Mile Run	E. Coli	2.23E+13	cfu/year	88%	VA0088579, VAR040111	6/14/2010	9/30/2010	NVRO
	Tidal Four Mile Run	E. Coli	1.53E+13	cfu/year	94%	VAR040057, VAR040111	6/14/2010	9/30/2010	NVRO

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James River and Tributaries, City of Richmond	Falling Creek	E. Coli	1.36E+13	cfu/year	22.8%	VA0088609	11/4/2010	6/29/2012	PRO
	Falling Creek	E. Coli	1.79E+12	cfu/year	22.8%	VAR040005	11/4/2010	6/29/2012	PRO
	No Name Creek	E. Coli	3.27E+11	cfu/year	86.7%	VA0088609	11/4/2010	6/29/2012	PRO
	Gillies Creek	E. Coli	6.28E+10	cfu/year	92.8%	VAR040005	11/4/2010	6/29/2012	PRO
	Gillies Creek	E. Coli	5.78E+11	cfu/year	92.8%	VA0088617	11/4/2010	6/29/2012	PRO
	Goode Creek	E. Coli	2.27E+12	cfu/year	92.4%	VAR040005	11/4/2010	6/29/2012	PRO
	Reedy Creek	E. Coli	2.596E+12	cfu/year	0.1%	VA0088609	11/4/2010	6/29/2012	PRO
	Reedy Creek	E. Coli	5.836E+13	cfu/year	0.1%	VAR040005	11/4/2010	6/29/2012	PRO
	Almond Creek	E. Coli	1.18E+12	cfu/year	66.5%	VA0088617	11/4/2010	6/29/2012	PRO
	Almond Creek	E. Coli	6.44E+10	cfu/year	66.5%	VAR040005	11/4/2010	6/29/2012	PRO
	Tidal James River	E. Coli	1.36E+12	cfu/year	36.2%	VA0088617	11/4/2010	6/29/2012	PRO
	Tidal James River	E. Coli	2.65E+12	cfu/year	36.2%	VA0088609	11/4/2010	6/29/2012	PRO
	Tidal James River	E. Coli	9.43E+11	cfu/year	36.2%	VAR040005	11/4/2010	6/29/2012	PRO
	Lower James River	E. Coli	3.5E+13	cfu/year	97.5%	VA0088617	11/4/2010	6/29/2012	PRO
	Lower James River	E. Coli	1.98E+13	cfu/year	97.5%	VA0088609	11/4/2010	6/29/2012	PRO
Lower James River	E. Coli	1.79E+13	cfu/year	97.5%	VAR040005	11/4/2010	6/29/2012	PRO	
Hunting Creek, Cameron Run, Holmes Run	Cameron Run	E. Coli	5.12E+12	cfu/year	83%	VAR040065	11/10/2010	8/4/2011	NVRO
	Cameron Run	E. Coli	9.6E+13	cfu/year	83%	VA0088587, VAR040104	11/10/2010	8/4/2011	NVRO
	Cameron Run	E. Coli	3.2E+13	cfu/year	83%	VAR040057	11/10/2010	8/4/2011	NVRO
	Hunting Creek	E. Coli	5.12E+12	cfu/year	83%	VAR040065	11/10/2010	8/4/2011	NVRO
	Hunting Creek	E. Coli	1.02E+14	cfu/year	83%	VA0088587, VAR040104, VAR040111	11/10/2010	8/4/2011	NVRO
	Hunting Creek	E. Coli	3.73E+13	cfu/year	92%	VAR040057, VAR040111	11/10/2010	8/4/2011	NVRO
	Hunting Creek	E. Coli	3.68E+11	cfu/year	98%	VA0088579	11/10/2010	8/4/2011	NVRO
	Holmes Run	E. Coli	5.12E+12	cfu/year	83%	VAR040065	11/10/2010	8/4/2011	NVRO
	Holmes Run	E. Coli	5.47E+13	cfu/year	83%	VA0088587, VAR040104	11/10/2010	8/4/2011	NVRO
	Holmes Run	E. Coli	2.4E+13	cfu/year	83%	VAR040057	11/10/2010	8/4/2011	NVRO
Hoffler Creek,	Hoffler Creek	Enterococci	2E+11	cfu/day	95.6%	VAR040029	12/14/2011	6/29/2012	TRO

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Project Name	Watershed Name	Pollutant	Permit Current WLA	Units	Percent Reduction	WLA Aggregated with:	EPA Approval Date	SWCB Approval Date	DEQ Region
Cities of Portsmouth and Suffolk	Hoffler Creek	Enterococci	3E+11	cfu/day	95.6%	VA0088668	12/14/2011	6/29/2012	TRO
Chickahominy River and Tributaries	Chickahominy River and Tributaries	E. Coli	1.26E+10	cfu/year	Not Available	VAR040005	9/19/2012	3/25/2013	PRO
	Chickahominy River and Tributaries	E. Coli	3.43E+10	cfu/year	Not Available	VAR040011, VAR040012	9/19/2012	3/25/2013	PRO
	Chickahominy River and Tributaries	E. Coli	1.04E+11	cfu/year	Not Available	VA0088617	9/19/2012	3/25/2013	PRO
Tye River Watershed in Nelson and Amherst counties	Rutledge Creek	E. Coli	8.54E+9	cfu/year	Not Available	Individual allocation	9/20/2013	4/4/2014	SCRO
Sugarland Run, Mine Run, and Pimmit Run in Arlington, Fairfax, and Loudoun counties	Sugarland Run	E. Coli	8.89E+11	cfu/year	97.3%	VAR040060, VAR040104,	9/26/2013	4/4/2014	NVRO
	Sugarland Run	E. Coli	1.76E+12	cfu/year	97.3%	VAR040067	9/26/2013	4/4/2014	NVRO
	Sugarland Run	E. Coli	2.01E+12	cfu/year	97.3%	VA0088587, VAR040104	9/26/2013	4/4/2014	NVRO
	Mine Run	E. Coli	9.12E+10	cfu/year	94.1%	VA0088587, VAR040104, VAR040111	9/26/2013	4/4/2014	NVRO
	Pimmit Run	E. Coli	2.35E+11	cfu/year	99.42%	VAR040111, VA0088579	9/26/2013	4/4/2014	NVRO
	Pimmit Run	E. Coli	8.8E+11	cfu/year	99.42%	VA0088587, VAR040104, VAR040111	9/26/2013	4/4/2014	NVRO
Potomac River Tributaries in Prince William and Stafford Counties	Powells Creek	E. Coli	3.08E+12	cfu/year	96.3%	VAR040100, VA0088595	9/26/2013	4/4/2014	NVRO
	Quantico Creek	E. Coli	1.23E+12	cfu/year	92.1%	VAR040117	9/26/2013	4/4/2014	NVRO
	Quantico Creek	E. Coli	2.43E+12	cfu/year	92.1%	VA0088595, VAR040100	9/26/2013	4/4/2014	NVRO
	Quantico Creek, South Fork	E. Coli	1.05E+12	cfu/year	29.7%	VA0088595, VAR040100	9/26/2013	4/4/2014	NVRO
	Potomac River, Unnamed Tributary	E. Coli	3.67E+11	cfu/year	61.4%	VAR040056, VAR040071	9/26/2013	4/4/2014	NVRO
	Austin Run	E. Coli	1.2E+11	cfu/year	99.9%	VAR040056, VAR040071	9/26/2013	4/4/2014	NVRO
	Potomac Creek	E. Coli	5.26E+11	cfu/year	1%	VAR040056	9/26/2013	4/4/2014	NVRO

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	Potomac Run	E. Coli	1.22E+11	cfu/year	98.7%	VAR040056	9/26/2013	4/4/2014	NVRO
	Accokeek Creek	E. Coli	3.02E+12	cfu/year	64.4%	VAR040056, VAR040071	9/26/2013	4/4/2014	NVRO
Chickahominy River	Chickahominy River	Sediment	2.03E+02	tons/year	55.76%	VA0088617	11/7/2013	3/28/2014	PRO
Poquoson River and Back Creek in York County	Back Creek	Fecal Coliform	1.33E+13	cfu/year	9.8%	VAR040028	3/19/2014	6/30/2014	TRO
	Poquoson River	Fecal Coliform	6.03E+13	cfu/year	36.7%	VAR040028	3/19/2014	6/30/2014	TRO
	Poquoson River	Fecal Coliform	4.7E+13	cfu/year	42.7%	VAR040024	3/19/2014	6/30/2014	TRO
Back River in York County and Cities of Hampton, Poquoson, and Newport News	Back River	Fecal Coliform	3.78E+13	cfu/year	17.5%	VAR040079, VA0088641	4/24/2014	6/30/2014	TRO
	Back River	Fecal Coliform	2.7E+13	cfu/year	21.8%	VAR040028	4/24/2014	6/30/2014	TRO
	Back River	Fecal Coliform	2.99E+14	cfu/year	40%	VAR040087, VA0088633	4/24/2014	6/30/2014	TRO
Back Bay, North Landing River, and tributaries	North Landing River (Middle)	E. Coli	2.14E+12	cfu/year	94%	VA0088625	6/26/2014	12/11/2014	TRO
	North Landing River (Middle)	E. Coli	2.32E+12	cfu/year	94%	VA0088676	6/26/2014	12/11/2014	TRO
	Pocaty River	Phosphorus	1.08	kg/year	63.96%	VA0088676	6/26/2014	12/11/2014	TRO
	Pocaty River	Phosphorus	52.86	kg/year	63.96%	VA0088625	6/26/2014	12/11/2014	TRO
	Beggars Bridge Creek	Enterococci	4.17E+11	cfu/year	97%	VA0088676	6/26/2014	12/11/2014	TRO
	Ashville Bridge Creek and Muddy Creek	Enterococci	5.7720E+11	cfu/year	98%	VA0088676	6/26/2014	12/11/2014	TRO
	Hell Point Creek, Upper and Lower	Enterococci	1.74E+12	cfu/year	98%	VA0088676	6/26/2014	12/11/2014	TRO
	Ashville Bridge Creek	Phosphorus	18.99	kg/year	42.89%	VA0088676	6/26/2014	12/11/2014	TRO
	Pocaty River	E. Coli	1.31E+12	cfu/year	87%	VA0088676	6/26/2014	12/11/2014	TRO
	Pocaty River	E. Coli	2.68E+10	cfu/year	87%	VA0088625	6/26/2014	12/11/2014	TRO
Little Otter River, Johns Creek, Wells	Buffalo Creek, Upper	Sediment	6.95	tons/year	Not Available	Individual allocation	2/3/2015	12/11/2014	SCRO

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Creek, and Buffalo Creek									
Shenandoah Tributaries	Crooked Run	E. Coli	1.16E+10	cfu/year	Not Available	Individual allocation	12/22/2015	10/1/2015	VRO
Pamunkey River and Tributaries	Upper Pamunkey River/North Anna	E. Coli	3.20E+12	cfu/year	62.33%	VAR040012	4/27/2015	12/11/2014	PRO
	Middle Pamunkey River	E. Coli	1.83E+12	cfu/year	66.23%	VAR040012, VAR040011	4/27/2015	12/11/2014	PRO
	Lower Pamunkey River	E. Coli	1.10E+11	cfu/year	68.00%	VAR040012	4/27/2015	12/11/2014	PRO
Mattaponi River Watershed	Po River	E. Coli	2.9E+11	cfu/year	5%	Individual allocation	7/19/2016	6/27/2016	NVRO
	Poni River	E. Coli	2.01E+12	cfu/year	5%	Individual allocation	7/19/2016	6/27/2016	NVRO
Moore's Creek, Lodge Creek, Meadow Creek, and Schenks Branch	Lodge Creek	Sediment	45.55	tons/year	50.1%	VAR040074, VAR040051, VAR040073	7/26/2016	6/27/2016	VRO
	Meadow Creek	Sediment	442.64	tons/year	50.7%	VAR040073, VAR040051, VAR040074	7/26/2016	6/27/2016	VRO
	Schenks Branch	Sediment	126.73	tons/year	56.4%	VAR040074, VAR040051, VAR040073	7/26/2016	6/27/2016	VRO
	Moore's Creek	Sediment	713.81	tons/year	14.6%	VAR040074, VAR040108, VAR04005, VAR040073	7/26/2016	6/27/2016	VRO

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