

Photos on cover (from top left): Outfall Restoration; Stream Restoration; Inlet; Stormy the Raindrop; Secondary Containment; Erosion & Sediment Inspection; Stream Restoration.

(Photo Credit Fairfax County)

Report prepared and compiled by:
Stormwater Planning Division
Department of Public Works and Environmental Services
Fairfax County, Virginia 22035
703-324-5500, TTY 711
www.fairfaxcounty.gov/dpwes/stormwater
September 29, 2023



To request this information in an alternate format call 703-324-5500, TTY 711.

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Fairfax County, Virginia
2023 Municipal Separate Storm Sewer System (MS4)
Program Plan and Annual Report
September 29, 2023

VSMP Permit No: VA0088587
Effective Date: April 1, 2015
Expiration Date: March 31, 2020
Administratively Continued
Reporting Period: July 1, 2022 through June 30, 2023



2023 MS4 Program Plan and Annual Report

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INTRODUCTION

The following Municipal Separate Storm Sewer System (MS4) combined Program Plan update and Annual Report is submitted to the Virginia Department of Environmental Quality (DEQ) in compliance with Fairfax County’s Virginia Stormwater Management Program (VSMP) MS4 permit (VA0088587). The permit was reissued on April 1, 2015 and shifted the reporting period from a calendar year to a fiscal year reporting cycle. As required by Part I.E.1) of the permit, this report covers the period from July 1, 2022 through June 30, 2023 and describes the continued activities performed to satisfy the county’s permit requirements, as well as updates needed to satisfy new requirements. The county is currently operating under an administrative continuance of the existing permit in anticipation of permit renewal. Program Plan modifications are identified by their due date in the Permit Year columns.

In order to facilitate tracking of the updated Program Plan elements and associated reporting requirements, the Annual Report and Program Plan have been combined into a single document that includes the permit language, the county’s Program Plan, the permit reporting requirements and the county’s Annual Report on each requirement. The combined MS4 Program Plan and Annual Report is presented as a table that can be navigated using the MS4 Action ID assigned to each reporting requirement. This approach has multiple benefits including ensuring that all permit requirements are addressed, facilitating update of the Program Plan in conjunction with each Annual Report, and simplifying regulatory review by including all of the information relevant to each requirement in one place. The table contains the following columns:

Column Heading	Content
MS4 Action ID:	This column follows the structure of Part I of the permit and assigns an ID to each permit requirement. In some cases, permit sections that include multiple requirements have been broken out into separate MS4 Action IDs for clarity.
Permit Requirement:	This column contains the language as it appears in each section of the permit. <i>Permit language is shown in italics.</i>
Responsible Party:	This column identifies the department, division or subdivision responsible for maintaining compliance with each permit requirement.
2023 Program Plan Elements:	This column describes the county’s program for compliance with each permit requirement for the 2023 reporting period. Where the program description or supporting materials do not fit in the table, they are included as a numbered appendix beginning with the letter “P” for Program Plan.
Permit Year:	This column is a group of five smaller columns (one for each year of the permit) and is used to visually highlight specific due dates (in green) and to identify the annual timeline for implementation of individual actions (in blue). When an action is not implemented during a specific year, the column is shaded in gray.
Specific Reporting Requirement:	Like the “Permit Requirement” column, this column contains the language for each specific reporting requirement that appears in the permit. Where there is no specific reporting requirement, the column is shaded gray. <i>Permit language is shown in italics.</i>
2023 Annual Report:	This column contains a report on the activities performed to comply with each permit requirement. Where the reported activities or supporting materials do not fit in the table, they are included as a numbered appendix beginning with the letter “R” for Annual Report. Where reporting on an action is not required during the reporting period, the column is shaded in gray.

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date		Annual Timeline			Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)
				Permit Year						
				1	2	3	4	5		
	A. DISCHARGES AUTHORIZED UNDER THIS STATE PERMIT									
	A.1. Authorized Discharges									
A.1.a.	<i>This state permit authorizes the discharge of stormwater from all existing and new municipal separate stormwater point source discharges to surface waters from the Municipal Separate Storm Sewer System (MS4) owned or operated by the Fairfax County in Virginia.</i>									
A.1.b.	<i>The following discharges, whether discharged separately or commingled with municipal stormwater, are also authorized by this state permit for discharge through the MS4:</i>									
A.1.b.1.	<i>Non-stormwater discharges and stormwater discharges associated with industrial activity (defined at 9 VAC25-31-10) that are authorized by a separate Virginia Pollutant Discharge Elimination System (VPDES) permit;</i>									
A.1.b.2.	<i>Discharges from construction activities that are regulated under the Virginia Stormwater Management Program (VSMP) (9 VAC25-870 et seq.) and authorized by a separate VSMP authority permit or state permit; and</i>									
A.1.b.3.	<i>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:</i> (a) water line flushing; (b) landscape irrigation; (c) diverted stream flows; (d) rising ground waters; (e) uncontaminated ground water infiltration (as defined at 40 CFR Part 35.2005(20)); (f) uncontaminated pumped ground water; (g) discharges from potable water sources; (h) foundation drains; (i) air conditioning condensation; (j) irrigation water; (k) springs; (l) water from crawl space pumps; (m) footing drains; (n) lawn watering; (o) individual residential car washing; (p) flows from riparian habitats and wetlands; (q) dechlorinated swimming pool discharges; (r) street wash water; (s) discharges or flows from fire fighting activities; and (t) other activities generating discharges identified by the Department as not requiring VPDES authorization.	SWPD	<ul style="list-style-type: none"> Non-stormwater discharges are tracked as part of the Illicit Discharge and Improper Disposal program. See MS4 Action ID B.2.e.1. 							

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)
A.1.b.4.	Materials from a spill are not authorized unless the discharge of material resulting from a spill is necessary to prevent loss of life, personal injury, or severe property damage. The permittee shall take, or require the responsible party to take, all reasonable steps to minimize or prevent any adverse effect on human health or the environment in accordance with the permittee's program under Part I.B.2.f). (Spill Prevention and Response). This state permit does not transfer liability for a spill itself from the party(ies) responsible for the spill to the permittee nor relieve the party(ies) responsible for a spill from the reporting requirements of 40 CFR Part 117 and 40 CFR Part 302. The permittee is responsible for any reporting requirement listed under Part II.G of this state permit.						
A.2. Permittee Responsibilities							
A.2.	This state permit establishes the specific requirements applicable to the permittee for the term of this state permit. The permittee is responsible for compliance with this state permit. The permittee shall implement and update the MS4 Program Plan (as set forth in Part I.B) to ensure compliance with this state permit. The Department has determined that implementation of the MS4 Program Plan reduces the discharge of pollutants to the maximum extent practicable. Where wasteloads have been allocated for pollutant(s) of concern in an approved Total Maximum Daily Load (TMDL), the permittee shall implement the special conditions as set forth in Part I.D of this state permit. Compliance with the requirements of this state permit shall also constitute adequate progress for this permit term towards complying with the assumptions and requirements of the applicable TMDL wasteload allocations such that the discharge does not cause or contribute to violations of the water quality standards.						
A.2-1.	The permittee shall clearly define the roles and responsibilities of each of the permittee's departments, divisions or subdivisions in maintaining permit compliance. If the permittee relies on another party to implement portions of the MS4 Program Plan, both parties must document the agreement in writing. The agreement shall be retained by the permittee with the MS4 Program Plan. Roles and responsibilities shall be updated as necessary. Where the permittee relies on another party to implement a portion of this state permit, responsibility for compliance with this state permit shall remain with the permittee.	SWPD	<ul style="list-style-type: none"> Current roles and responsibilities, and responsible agencies, are described in the "Responsible Party" and "2023 Program Plan Elements" columns of this Program Plan. See Appendix P1 for the current list of responsible parties, their acronyms and the program elements that they implement. The county has written agreements with the following organizations to support implementation of portions of the MS4 Program Plan: <ul style="list-style-type: none"> Northern Virginia Soil and Water Conservation District (NVSWCD) Clean Fairfax Council Northern Virginia Regional Commission (NVRC) Clean Water Partners Fairfax County Park Authority (FCPA) Fairfax County Public Schools (FCPS) 			Each annual report shall include a current list of roles and responsibilities.	See the "Responsible Party" and "2023 Program Plan Elements" columns of this document, as well as Appendix P1, for the current list of responsible parties, their acronyms, and the program elements that they implement.

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)
A.2-2.	<i>In the event the permittee is unable to meet conditions of this state permit due to circumstances beyond the permittee's control, a written explanation of the circumstances that prevented permit compliance shall be submitted to the Department in the annual report. Circumstances beyond the permittee's control may include abnormal climatic conditions; weather conditions that make certain requirements unsafe or impracticable; or unavoidable equipment failures caused by weather conditions or other conditions beyond the reasonable control of the permittee (operator error and failure to properly maintain equipment are not conditions beyond the control of the permittee). The failure to provide adequate program funding, staffing or equipment maintenance shall not be an acceptable explanation for failure to meet permit conditions. The Board will determine, at its sole discretion, whether the reported information will result in an enforcement action. In addition, the permittee must report noncompliance which may adversely affect surface waters or endanger public health in accordance with Part II.I.</i>	SWPD	If Fairfax County is unable to meet the conditions of this permit due to circumstances beyond its control, the county will provide a list of circumstances that prevented permit compliance.			<i>Each annual report shall include a list of those circumstances of non-compliance outside of the permittee's control.</i>	There were no circumstances of non-compliance beyond the county's control during the reporting period.
A.3. Legal Authority							
A.3.	<i>The permittee shall maintain and utilize its legal authority authorized by the Commonwealth of Virginia to control discharges to and from the MS4 in the manner established by the specific requirements of this state permit. The legal authority shall enable the permittee to:</i>						
A.3.a.	<i>Control the contribution of pollutants to the MS4;</i>	LDS (124, 104) DPWES (124, 65, 109.1); FRD (62); HD (43.1, 46, 68.1, 69.1)	<ul style="list-style-type: none"> The Stormwater Management Ordinance (Chapter 124), Erosion and Sediment Control Ordinance (Chapter 104), Fire Protection Ordinance (Chapter 62), Plumbing and Gas Provisions Ordinance (Chapter 65), Food and Food-Service Establishments Ordinance (Chapter 43.1), Health or Safety Menaces Ordinance (Chapter 46), Individual Sewage Disposal Facilities Ordinance (Chapter 68.1), Water Recreation Facilities Ordinance (Chapter 69.1), and Solid Waste Management Ordinance (Chapter 109.1) provide the authority to prohibit illicit discharges and connections, as well as illegal dumping. These ordinances are available online at www.municode.com/library (search for Fairfax County) or at this weblink: Fairfax County - Code of Ordinances. 				

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)			
A.3.b.	Prohibit illicit discharges to the MS4;	LDS (124, 104) DPWES (124, 65, 109.1); FRD (62); HD (43.1, 46, 68.1, 69.1)	<ul style="list-style-type: none"> The following ordinances provide authority to prohibit illicit discharges and connections, as well as illegal dumping. The Stormwater Management Ordinance (Chapter 124), Erosion and Sediment Control Ordinance (Chapter 104), Fire Protection Ordinance(Chapter 62), Plumbing and Gas Provisions Ordinance(Chapter 65), Food and Food-Service Establishments Ordinance (Chapter 43.1), Health or Safety Menaces Ordinance (Chapter 46), Individual Sewage Disposal Facilities Ordinance (Chapter 68.1), Water Recreation Facilities Ordinance (Chapter 69.1), and Solid Waste Management Ordinance (Chapter 109.1). These ordinances are available online at www.municode.com/library (search for Fairfax County) or at this weblink: Fairfax County - Code of Ordinances. 	▶	▶	▶	▶	▶		
A.3.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;	LDS (124, 104) DPWES (124, 65, 109.1); FRD (62); HD (43.1, 46, 68.1, 69.1)	<ul style="list-style-type: none"> The Stormwater Management Ordinance (Chapter 124), Erosion and Sediment Control Ordinance (Chapter 104), Fire Protection Ordinance (Chapter 62), Plumbing and Gas Provisions Ordinance (Chapter 65), Food and Food-Service Establishments Ordinance (Chapter 43.1), Health or Safety Menaces Ordinance (Chapter 46), Individual Sewage Disposal Facilities Ordinance (Chapter 68.1), Water Recreation Facilities Ordinance (Chapter 69.1), and Solid Waste Management Ordinance (Chapter 109.1) provide the authority to control the discharge of spills and the dumping or disposal of materials other than stormwater into the MS4. These ordinances are available online at www.municode.com/library (search for Fairfax County) or at this weblink: Fairfax County - Code of Ordinances. 	▶	▶	▶	▶	▶		

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)
A.3.d.	Require compliance with conditions in ordinances, permits, contracts, inter-jurisdictional agreements, or orders; and	LDS (124, 104) DPWES (124, 65, 109.1); FRD (62); HD (43.1, 46, 68.1, 69.1)	<p>The county has the authority to require compliance related to implementing the permit requirements, including but not limited to:</p> <ul style="list-style-type: none"> • <u>Conditions in ordinances</u> (including permits and orders issued under ordinances): The county has authority as authorized by state law and as stated in local ordinances, including options for escalating enforcement steps as appropriate in the county's exercise of its enforcement discretion as the regulator of covered third party activities. Local enforcement authority includes: <ul style="list-style-type: none"> o Stormwater Management Ordinance (Chapter 124): see Article 8 – Violations and Penalties. o Erosion and Sediment Control Ordinance (Chapter 104): see § 104-1-12. - Penalties, Injunctions, and Other Legal Actions. o Fire Protection Ordinance(Chapter 62): see § 62-1-1. – Penalty: § 62-2-5. – Powers of arrest. o Plumbing and Gas Provisions Ordinance (Chapter 65): see Article 7. – Penalties. o Food and Food-Service Establishments Ordinance (Chapter 43.1): see Article 4 – Penalties; § 8-4 Inspection and Correction of Violations. o Health or Safety Menaces Ordinance (Chapter 46): see § 46-1-3 – Abatement of health or safety menaces. o Individual Sewage Disposal Facilities Ordinance (Chapter 68.1): see § 68.1-1-3. – Penalties. o Water Recreation Facilities Ordinance (Chapter 69.1): see § 69.1-1-22. – Penalties. o Solid Waste Management Ordinance(Chapter 109.1): see Article 9 – Enforcement. • <u>Contracts and inter-jurisdictional agreements</u>: To the extent authorized by state law, the county has authority to enter into and carry out contracts and, in event of breach of any contract by a counterparty, to enforce such contracts according to the provisions thereof and by legal action for breach of contract in the county's discretion. 		<p>▶ ▶ ▶ ▶ ▶</p>		

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)			
A.3.e.	Carry out all inspections, surveillance, and monitoring procedures necessary to determine compliance and noncompliance with permit conditions including the prohibition on illicit discharges to the MS4.	LDS (124, 104) DPWES (124, 65, 109.1); FRD (62); HD (43.1, 46, 68.1, 69.1)	The county has authority to conduct inspections/monitoring etc. related to implementing the permit requirements, including but not limited to: <ul style="list-style-type: none"> Stormwater Management Ordinance (Chapter 124): see § 124-1-8. – Right of Entry; § 124-2-5. – Monitoring, Reports, Investigations, and Inspections; § 124-9-4 – Standards for Inspection of Industrial and Commercial Property Discharging to the county MS4. Erosion and Sediment Control Ordinance (Chapter 104): see § 104-1-5. – Monitoring and inspections. Fire Protection Ordinance(Chapter 62): see § 62-2-5 Powers of arrest (addresses investigation of environmental crimes). Food and Food-Service Establishments Ordinance (Chapter 43.1): see § 8-4 Inspection and Correction of Violations.; § 8-402.11. – Allowed at Reasonable Times after Due Notice. Health or Safety Menaces Ordinance (Chapter 46): see § 46-1-2 – Inspection for health or safety menaces. Individual Sewage Disposal Facilities Ordinance (Chapter 68.1): see § 68.1-2-3. – Inspection of individual sewage disposal systems by Administrative Authority. Water Recreation Facilities Ordinance (Chapter 69.1): see § 69.1-1-22. – Inspections. 	▶	▶	▶	▶	▶		
A.3-1.	The permittee shall review and update its ordinances and other legal authorities such as permits, orders, contracts, and inter-jurisdictional agreements as necessary to continue providing adequate legal authority to control discharges to and from the MS4.	SWPD	Fairfax County's current ordinances and other legal authorities provide adequate legal authority to control discharges to and from the MS4. Ordinances and other legal authorities will be reviewed annually as part of the Program Plan review.	▶	▶	▶	▶	▶		
A.4. MS4 Program Resources										
A.4.	The permittee shall submit to the Department a copy of each fiscal year's budget including its proposed capital and operation and maintenance expenditures necessary to accomplish the activities required by this state permit. The permittee shall describe its method of funding the stormwater program with the copy of the fiscal year budget.	SWPD	The fiscal year's budget will be provided as required.	▶	▶	▶	▶	▶	A copy of the fiscal year's budget including its proposed capital and operation and maintenance expenditures necessary to accomplish the activities required by this state permit shall be submitted with each annual report.	In FY 2006 the Fairfax County Board of Supervisors dedicated the value of one penny of the real estate tax, or approximately \$20 million annually, to stormwater capital projects. As part of the FY 2010 Adopted Budget Plan, a new service district was created to support the stormwater management program, as authorized by §15.2-2400 et seq. of the Code of Virginia. As part of the FY 2024 budget, the Board of Supervisors established the stormwater service district levy at \$0.0325 (three and a quarter cents) per \$100 of assessed real estate value. The stormwater service district will generate approximately \$100,802,650 million in FY 2024 that will be dedicated to funding the entire stormwater management program. This includes both staff operating requirements and stormwater capital projects. A copy of the FY 2024 Fairfax County Adopted Budget Plan (Vol. 2), Stormwater Services Budget has been included in Appendix R1 and is available online at: Fund 40100: Stormwater Services - FY 2024 Adopted Budget Plan (fairfaxcounty.gov)

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)	
A.5. Permit Maintenance Fees								
A.5.	Permit maintenance fees shall be paid in accordance with Part XIII of the VSMP regulations (9 VAC 25-870-700 et seq.).	SWPD	The permit maintenance fee will be paid as required.	▶	▶	▶	Fairfax County's MS4 permit maintenance fee was paid with check number 2200632351 dated August 24, 2022.	
A.6. MS4 Program Plan								
A.6.	The permittee shall maintain, implement and enforce an MS4 Program Plan accurately documenting the MS4 Program including all additions, changes and modifications. For the purposes of this state permit, the MS4 Program Plan is considered a single document, but may actually consist of separate documents (e.g., dry weather screening plans, wet weather monitoring plans, TMDL Action Plans, annual reports). Policies, ordinances, strategies, checklists, watershed plans and other documents may be incorporated by reference provided the latest revision date is included in the MS4 Program Plan and all documents are available upon request. Specific reference shall be made to any ordinance more stringent than the Virginia Stormwater Management Act (§62.1-44.15:24 et seq.) and VSMP regulations (9 VAC 25-870 et seq.), the Virginia Erosion and Sediment Control Law (§ 62.1-44.15:51 et seq.) and Regulations (9 VAC 25-840 et seq.) and the Chesapeake Bay Preservation Act (§ 62.1-44.15:67 et seq.) and Chesapeake Bay Preservation Area Designation and Management Regulations (9 VAC 25-830 et seq). The MS4 Program Plan is an enforceable part of this state permit. Updates to the MS4 program plan shall be submitted to the Department for review and approval in accordance with the due dates established by this state permit. Updates to the MS4 Program Plan shall become effective and enforceable upon written approval from the Department. The most recent MS4 Program Plan shall be posted on the permittee's website and provided in another location easily accessible to the public.	SWPD	<ul style="list-style-type: none"> This document is Fairfax County's MS4 Program Plan, which has been developed to document the county's MS4 Program as it exists at the end of the second full year of this permit cycle. The county reserves its full discretion to modify this plan in accordance with applicable laws (including Virginia Code Titles 15.2 and 62.1), applicable regulations, and the terms of this permit. After submission to DEQ with the county's 2032 Annual Report, the MS4 Program Plan will be posted to the county's website. A hard copy of the MS4 Program Plan is available in the Virginia Room located on the second floor of the City of Fairfax Regional Library, 10360 North St, Fairfax, VA 22030. See MS4 Action ID B.2.j.4 	▶	▶	▶	<ul style="list-style-type: none"> Utilizing the annual report due March 31, 2015 as a baseline, the permittee's annual report due October 1, 2016 under this state permit shall include the necessary updates to describe implementation of this MS4 Program Plan and meet the conditions described in this section. 	<p>Fairfax County's 2023 MS4 Program Plan is contained in the "Program Plan Elements" column of this document and is available to the public on the Fairfax County website at the following link: https://www.fairfaxcounty.gov/publicworks/stormwater/ms4-program-plan-and-annual-reports</p> <ul style="list-style-type: none"> A hardcopy of the 2023 MS4 Program Plan is located in the Virginia Room located on the second floor of the City of Fairfax Regional Library, 10360 North St, Fairfax, VA 22030. The county submitted an updated MS4 Program Plan (Reapplication Program Plan) on October 1, 2019 that included benchmarks and milestones for the next permit cycle as required in Part II.M of the permit. This Reapplication Program Plan included suggested changes to permit language for the next permit cycle and should be reviewed as part of permit reissuance.
A.7. MS4 Program Review and Updates								
A.7.	MS4 Program Review: The permittee will review the current MS4 Program Plan annually, in conjunction with the preparation of the annual report required under Part I.E of this state permit.	SWPD	The MS4 Program Plan will be reviewed annually and updated as needed.	▶	▶	▶	Fairfax County has reviewed the MS4 Program Plan in accordance with the requirements of the renewed permit. This review resulted in no additional changes:	
A.7.a.	MS4 Program Updates and Modifications: Modifications to the MS4 Program Plan are expected throughout the life of this state permit as part of the iterative process to reduce							

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)
	<p><i>pollutant loading and protect water quality. As such, modifications made in accordance with this state permit as a result of the iterative process do not require modification of this state permit unless the Department determines the changes meet the criteria referenced in 9 VAC 25-870-630 or 9 VAC 25-870-650.</i></p> <p><i>Updates and modifications to the MS4 Program Plan may be made during the life of the permit in accordance with the following procedures:</i></p> <ol style="list-style-type: none"> <i>1) Adding (but not eliminating or replacing) components, controls, or requirements to the MS4 Program Plan may be made by the permittee at any time. Additions shall be reported as part of the annual report.</i> <i>2) Updates and modifications to specific standards and specifications, schedules, operating procedures, ordinances, manuals, checklists and other documents routinely evaluated and modified are authorized under this state permit provided that the updates and modifications are performed in a manner (i) that is consistent with the conditions of this state permit, (ii) that ensure public notice and participation requirements established in this state permit are followed, and (iii) that the updates and modifications are documented in the annual report.</i> <i>3) Replacing, or eliminating without replacement, any ineffective or infeasible strategies, policies and Best Management Practices (BMPs) specifically identified in this state permit with alternate strategies, policies and BMPs may be requested at any time. Such requests shall include the following:</i> <ol style="list-style-type: none"> <i>(a) An analysis of how and/or why the BMPs, strategies, or policies are ineffective or infeasible including information on whether the BMPs, strategies, or policies are cost prohibitive;</i> <i>(b) Expectations on the effectiveness of the replacement BMPs, strategies, or policies;</i> <i>(c) An analysis of how the replacement BMPs are expected to achieve the goals of the BMPs to be replaced;</i> <i>(d) A schedule for implementing the replacement BMPs, strategies and policies; and</i> <i>(e) An analysis of how the replacement strategies and policies are expected to improve the permittee's ability to meet the goals of the strategies and policies being replaced.</i> <p><i>Requests or notifications shall be made in writing to the Department and signed in accordance with 9 VAC 25-870-370 of the VSMP regulations. Modification to the MS4 Program Plan shall become effective and enforceable upon written approval from the Department. Major</i></p>						

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)
	<i>modifications to the MS4 Program Plan as defined in 9 VAC 25-870-10 may require that the permit be reopened and modified pursuant to 9 VAC 25-870-630.</i>						
A.7.b.	<p>MS4 Program Updates Requested by the Department of Environmental Quality: <i>In a manner and following procedures in accordance with the Virginia Administrative Processes Act, the VSMP regulations and other applicable State laws, statutes and regulations, the Department may request changes to the MS4 Program Plan to assure compliance with the statutory requirements of the Virginia Stormwater Management Act and associated regulations and to:</i></p> <ol style="list-style-type: none"> <i>1) Address impacts on receiving water quality caused by discharges from the MS4;</i> <i>2) Include more stringent requirements necessary to comply with new State or Federal statutory or regulatory requirements; or</i> <i>3) Include such other conditions necessary to comply with State or Federal statutory or regulatory requirements.</i> <p><i>Proposed changes requested by the Department shall be made in writing and set forth the basis for and objective of the modification as well as the proposed time schedule for the permittee to develop and implement the modification. The permittee may propose alternative program modifications and/or time schedules to meet the objective of the requested modification, but any such modifications are at the discretion of the Department.</i></p>						
	<p>B. STORMWATER MANAGEMENT <i>The following subparts describe the requirements for the permittee to implement in its MS4 Program during this state permit term:</i></p>						
	B.1. Planning						

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)															
B.1-1.	No later than 12-months after the effective date of this state permit, the permittee shall submit to the Department a summary of potential stormwater management projects which may be selected from the permittee's watershed management plans to be completed during the term of the permit. Projects addressing stormwater quantity may be included if there is a water quality benefit to the project. At a minimum, the permittee shall address the following for each project in the summary: type of project or BMP, number of acres which the BMP treats, impervious and pervious acreage treated by the potential project, condition of the downstream channel, amount of total pollutant reduction, feasibility for implementation, and estimated cost of implementation. The summary shall include a prioritized list of the identified projects for consideration of implementation.	SWPD	The summary of potential stormwater management projects which may be selected from the permittee's watershed management plans to be completed during the term of the permit is provided in Appendix P2.	March 31, 2016 ★			Although not a specific reporting requirement in the permit, a summary of potential stormwater management projects was submitted to the Department no later than 12 months after the effective date of this state permit.															
B.1-2.	The permittee shall continue to seek public comment in development of the plans. A copy of the completed plans shall be placed on the permittee's website no later than 30 days after it is submitted to the Department.	SWPD	All of the watershed management plans have been completed and links to the completed plans are provided on the county's website: https://www.fairfaxcounty.gov/publicworks/stormwater/watersheds	March 31, 2016 ★	▶	▶	▶	▶	The permittee shall provide the Department a web link to the plans no later than 12 months after the effective date of this state permit and with each annual report.	The following web link to the county's watershed management plans was submitted to DEQ on March 30, 2016: https://www.fairfaxcounty.gov/publicworks/stormwater/watersheds												
B.2. MS4 Program Implementation																						
B.2.a. Construction Site Runoff and Post Construction Runoff from Areas of New Development and Development on Prior Developed Lands																						
B.2.a.1.	The permittee shall implement a local erosion and sediment control program consistent with the Virginia Erosion and Sediment Control Law § 62.1-44.15:51 of the Code of Virginia and Virginia Erosion and Sediment Control Regulations 9 VAC 25-840 et seq. and a stormwater management program consistent with the Virginia Stormwater Management Act § 62.1-44.15:24 of the Code of Virginia and Virginia Stormwater Management Program Regulations 9 VAC 25-870 et seq.	LDS	<ul style="list-style-type: none"> The county continues to implement and enforce Fairfax County Code Chapter 104, Erosion and Sediment Control, and Chapter 124, Stormwater Management Ordinance. The county's erosion and sediment control program and stormwater management program have been approved by DEQ as consistent with the Virginia Erosion and Sediment Control Law, the Virginia Stormwater Management Act, and their attendant regulations. The county uses 2,500 square feet, which is the threshold for land disturbing activities to be regulated under the county's erosion and sediment control program, as the threshold for reporting the number of regulated land disturbing activities and the total number of acres disturbed. 	▶	▶	▶	▶	▶	<ul style="list-style-type: none"> Each annual report shall contain the number of regulated land disturbing activities approved and the total number of acres disturbed. Each annual report shall contain the number of land disturbing activity inspections conducted and the number and type of each enforcement action taken. 	<table border="1"> <tr> <td>Number of regulated land disturbing activities approved:</td> <td>947</td> </tr> <tr> <td>Total number of acres disturbed:</td> <td>1,364</td> </tr> <tr> <td>Number of VESCP inspections conducted:</td> <td>13,204</td> </tr> <tr> <td>Number of VSMP inspections conducted:</td> <td>392</td> </tr> <tr> <td>Number of VESCP Notices of Violation Issued:</td> <td>133</td> </tr> <tr> <td>Number of VSMP Notices of Violation Issued:</td> <td>15</td> </tr> </table>	Number of regulated land disturbing activities approved:	947	Total number of acres disturbed:	1,364	Number of VESCP inspections conducted:	13,204	Number of VSMP inspections conducted:	392	Number of VESCP Notices of Violation Issued:	133	Number of VSMP Notices of Violation Issued:	15
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B.2.a.2.	The permittee shall identify in the MS4 Program Plan all legal authorities for erosion and sediment control and stormwater management that are more stringent than those required under 9 VAC 25-840 et seq. and/or 9 VAC 25-870 et seq. that have been adopted in accordance with § 62.1-44.15:65 and/or § 62.1-44.15:33 of the Code of Virginia.	LDS	The county has identified current county requirements that are more stringent than state law/regulations in an Erosion and Sediment Control Ordinance Stringency Table and a Stormwater Management Ordinance Stringency Table (see Appendix P3 and P4).	▶	▶	▶	▶	▶	Each annual report shall include a summary of actions taken by the permittee to implement Part I.B.2.a)1) and 2) of this state permit.	Fairfax County has implemented a local Virginia E&S Control Program (VESCP) and a local Virginia Stormwater Management Program (VSMP) consistent with the applicable state regulations. The VESCP and VSMP programs are fully approved by DEQ and are implemented by the Department of Land Development Services (LDS).												

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)
B.2.a-a.	See MS4 Action ID B.2.h.2.a.1.	MSMD	See MS4 Action ID B.2.h.2.a.1.	October 1, 2016 ★		The annual report due October 1, 2016 shall include the permittee's strategy to address maintenance of stormwater management controls that are designed to treat stormwater runoff solely from the individual residential lot on which they are located.	
B.2.a-b.	Part I.D.1)(i) of the permit requires inclusion in the Chesapeake Bay TMDL Action Plan of a list of future projects that qualify as grandfathered in accordance with 9 VAC 25-870-48.	LDS	The county's list of known land disturbing projects that qualify under the 'Grandfathering' provision of the VSMP regulations found at 9VAC25-870-48 were submitted with the 2016 Annual Report.	October 1, 2016 ★		The annual report due October 1, 2016 shall include a list of all known land disturbing projects that qualify under the 'Grandfathering' provision of the VSMP regulations found at 9 VAC 25-870-48.	
B.2.b. Retrofitting on Prior Developed Lands							
B.2.b.	From the list of stormwater management projects included in the analysis required in Part I.B.1, the permittee shall complete at least thirty (30) projects no later than the expiration date of this state permit. Projects implemented to meet the requirements of Part I.D of this state permit (TMDL Action Plan and Implementation for the Chesapeake Bay Special Condition or TMDL Action Plans other than the Chesapeake Bay TMDL) may be used to meet the requirements of this special condition. For retrofit projects that do not serve to meet the requirements of Part I.D, the permittee shall submit a summary of projects implemented during the reporting period with each annual report including type of land use being retrofitted, retrofit performed, completion date or anticipated completion date, total acreage retrofitted, total impervious and pervious acreage, and location by latitude and longitude (in decimal degrees).	SWPD	<ul style="list-style-type: none"> The county will implement at least 30 projects from the list of projects required in Part I.B.1 no later than the expiration date of this permit. Stormwater retrofit projects are implemented to restore streams and provide stormwater management through the construction of a range of practices from onsite green infrastructure to regional detention ponds. Retrofits to existing stormwater management facilities are also implemented to improve water quality. These can include the use of shallow wetland marshes to enhance nutrient uptake and provide an increase in water absorption and transpiration. A secondary benefit of wetland marshes and naturally vegetated pond floors is the creation of habitat for wildlife. 			<p>Each annual report shall include a status update for those projects for which implementation began during the reporting period.</p> <ul style="list-style-type: none"> Fairfax County reported completion of 30 projects from the list of projects submitted in compliance with Part I.B.1 of the permit during FY18. All projects implemented serve to meet the requirements of Part I.D. of the permit. 	
B.2.c. Roadways							
B.2.c.	Streets, roads, and parking lots maintained by the permittee shall continue to be operated and maintained in a manner to minimize discharge of pollutants, including those pollutants related to deicing or sanding activities.	MSMD	The county meets this requirement through implementation of the actions described below.				

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)
B.2.c.1.	No later than 12-months after the effective date of this state permit, the permittee shall develop and maintain an accurate list of permittee maintained roads, streets, and parking lots that includes the street name, the miles of roadway not treated by BMPs, and miles of roadway treated with BMPs.	MSMD	<ul style="list-style-type: none"> The majority of public roads in the county (interstate, primary, secondary, and residential) are maintained and operated by the Virginia Department of Transportation (VDOT), which is covered by a separate Phase II MS4 permit. Fairfax County is responsible for maintaining several miles of discontinuous road segments, many of which are unpaved. The county's street maintenance program is an interim program designed to provide essential maintenance, pending acceptance of the road segment into Virginia's Secondary Road System. The county currently operates and maintains parking lots associated with county facilities (such as government centers, libraries, fire stations, police stations, health centers, bus transit facilities, park and ride lots, commuter rail stations, public housing facilities, and staffed park locations). Fairfax County maintains a list of permittee maintained roads, streets and parking lots that complies with the permit requirements. 	March 31, 2016 ★	▶▶▶▶		
B.2.c.2.	No later than 36-months after the effective date of this state permit, the permittee shall develop and implement written protocols for permittee maintained road, street, and parking lot maintenance, equipment maintenance and material storage designed to minimize pollutant discharge.	MSMD	The county will complete the development of appropriate SOPs by March 31, 2018.		March 31, 2018 ★	The permittee shall include a copy of the written protocols identified in Part I.B.2.c)(2) with the annual report due October 1, 2018.	During FY18, the County developed Outdoor Material Storage; Parking Lot and Street Sweeping; Roadway and Parking Lot Construction and Maintenance; and Vehicle and Equipment Repair and Maintenance Procedures as required by the permit. The procedures can be found in Appendices P5-P8.
B.2.c.3.	Materials utilized for deicing and sanding activities shall remain covered from precipitation until application.	MSMD	Deicing materials are stored in bulk in large, covered bins at all facilities operated by MSMD, the FCPA mobile crew storage facility, FCPS central bulk storage facility and the I-95 landfill. For all county storage sites, sand and deicing materials remain covered unless being loaded. After loading, any excess material is swept or shoveled back into the storage pile or container and covered.	▶▶▶▶			
B.2.c.4.	The permittee shall not apply any deicing agent containing urea or other forms of nitrogen or phosphorus to parking lots, roadways, and sidewalks or other paved surfaces.	MSMD	<ul style="list-style-type: none"> Fairfax County currently uses sand as an abrasive and calcium chloride or rock salt for deicing roadways. The county has changed from calcium chloride to magnesium chloride for deicing walkways; however, this change is not feasible for roadways where public safety is the first priority. Fairfax County does not apply deicing agents containing urea or other forms of nitrogen or phosphorus to parking lots, roadways, and sidewalks or other paved surfaces. 	▶▶▶▶			
B.2.d. Pesticide, Herbicide, and Fertilizer Application							
B.2.d.	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, parks, and other permittee property, as follows:	SWPD	The county meets this requirement through implementation of the actions described below.				

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)
B.2.d.1.	<i>The permittee shall develop and implement turf and landscape nutrient management plans that have been developed by a certified nutrient management planner in accordance with § 10.1-104.2 of the Code of Virginia on all lands owned or operated by the permittee where nutrients are applied to a contiguous area greater than one acre in accordance with the following schedule:</i>						
B.2.d.1.a.	<i>No later than 12-months after the effective date of this state permit the permittee shall identify all permittee lands where nutrients are applied to a contiguous area of more than one acre. A latitude and longitude shall be provided for each such piece of permittee land.</i>	SWPD	County staff has identified all county lands where nutrients are applied to a contiguous area of more than one acre. A latitude and longitude have been provided for each area.	March 31, 2016 ★	▶▶▶▶	<i>The report due October 1, 2016 shall contain a list of all permittee lands and applicable acreage on which nutrients are applied to more than one contiguous acre.</i>	
B.2.d.1.b.	<i>The permittee shall develop and implement turf and landscape nutrient management plans on all permittee lands where nutrients are applied to a contiguous area of more than one acre. The following measurable goals are established for the development and implementation of turf and landscape nutrient management plans.</i>	SWPD	<ul style="list-style-type: none"> County staff has started the development and implementation of turf and landscape nutrient management plans for county lands where nutrients are applied to a contiguous area of more than one acre – see MS4 Action ID B.2.d.1.a. The plans will be developed to meet the schedule outlined in MS4 Action IDs B.2.d.1.b.1-3. 	▶▶▶▶	▶▶▶▶	<i>Each annual report submitted after October 1, 2016 shall report on compliance with the turf and landscape nutrient management plan implementation schedule and include a list of the permittee's properties for which turf and landscape nutrient management plans have been implemented during the reporting year and the cumulative total of acreage under turf and landscape nutrient management plans.</i>	<ul style="list-style-type: none"> Fairfax County has developed nutrient management plans for 100% of the lands where nutrients are applied to a contiguous area of more than one acre. See Appendix R2 for the full list of county land requiring nutrient management plans and the status of nutrient management plan implementation.
B.2.d.1.b.1.	<i>No later than 24-months after the effective date of this state permit, not less than 15% of all identified acres will be covered by turf and landscape nutrient management plans.</i>	SWPD	See MS4 Action ID B.2.d.1.b.	▶	March 31, 2017 ★	See MS4 Action ID B.2.d.1.b.	
B.2.d.1.b.2.	<i>No later than 36-months after the effective date of this state permit, not less than 40% of all identified acres will be covered by turf and landscape nutrient management plans.</i>	SWPD	See MS4 Action ID B.2.d.1.b.	▶▶	▶	March 31, 2018 ★	See MS4 Action ID B.2.d.1.b.
B.2.d.1.b.3.	<i>No later than 48-months after the effective date of this state permit, not less than 75% of all identified acres will be covered by turf and landscape nutrient management plans.</i>	SWPD	See MS4 Action ID B.2.d.1.b.	▶▶▶	▶	March 31, 2019 ★	See MS4 Action ID B.2.d.1.b.

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)
B.2.d.1.c.	The permittee shall annually track the following:	SWPD	<ul style="list-style-type: none"> The county will track the information described in MS4 Action IDs B.2.d.1.c.1-3. This information will be used for Specific Reporting Requirements for MS4 Action IDs B.2.d.1.a. and B.2.d.1.b. 	▶	▶	▶	See MS4 Action IDs B.2.d.1.a. and B.2.d.1.b.
B.2.d.1.c.1.	The total acreage of permittee lands upon which nutrients are applied and controlled using general county guidelines or standard operating procedures;	SWPD	County staff will track the total acreage where nutrients are applied on identified county lands with a contiguous area greater than one acre.	▶	▶	▶	See MS4 Action IDs B.2.d.1.a. and B.2.d.1.b.
B.2.d.1.c.2.	The acreage of permittee lands where turf and landscape nutrient management plans are required; and	SWPD	County staff will track the acreage where turf and landscape nutrient management plans are required.	▶	▶	▶	See MS4 Action IDs B.2.d.1.a. and B.2.d.1.b.
B.2.d.1.c.3.	The acreage of permittee lands covered by turf and landscape nutrient management plans that have been implemented.	SWPD	County staff will track the acreage of county lands covered by turf and landscape nutrient management plans.	▶	▶	▶	See MS4 Action IDs B.2.d.1.a. and B.2.d.1.b.
B.2.d.2.	The permittee shall continue to employ good housekeeping/pollution prevention measures in the application, storage, transport and disposal of pesticides, herbicides and fertilizers.	SWPD	<ul style="list-style-type: none"> All pesticide and herbicide applications are performed by certified technicians. The county maintains general guidelines and procedures to be followed in the application, storage, transport and disposal of pesticides, herbicides and fertilizers. County personnel and private contractors follow the Virginia Department of Conservation and Recreation's nutrient management training and certification and the Virginia Department of Agriculture's guidelines for certification and training of pesticide applicators. 	▶	▶	▶	
B.2.d.3.	The permittee may regulate the use, application, or storage of fertilizers pursuant to §3.2-3602 of the Code of Virginia.	SWPD	No additional local fertilizer requirements are in place at this time beyond state requirements.	▶	▶	▶	
B.2.d.4.	The permittee shall track the acreage of permittee lands managed under Integrated Pest Management Plans.	SWPD	Fairfax County tracks the acreage of county lands managed under Integrated Pest Management Plans.	▶	▶	▶	Each annual report shall include the number of acres managed under Integrated Pest Management Plans. - Green Springs Garden manages 31 acres of IPMs - Laurel Hill manages 281.9 acres of IPMs
B.2.e. Illicit Discharges and Improper Disposal							
B.2.e.	Discharges to the MS4 not authorized by this state permit shall be effectively prohibited.	FRD; DPWES; HD	The county will continue to implement and enforce Fairfax County Fire Prevention Ordinance (Chapter 62), Stormwater Management Ordinance (Chapter 124), Food and Food-Service Establishments Ordinance (Chapter 43.1), Individual Sewage Disposal Facilities Ordinance (Chapter 68.1), Water Recreation Facilities Ordinance (Chapter 69.1), Sanitary Sewers and Sewage Disposal Ordinance (Chapter 67.1), and Solid Waste Management Ordinance (Chapter 109). The county will update these authorities as needed and to the extent allowed by state enabling authority.	▶	▶	▶	

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)
B.2.e.1.	<i>In accordance with Part I.A.1.b), certain non-stormwater discharges to the MS4 need not be addressed as illicit discharges or improper disposal. The MS4 Program Plan shall identify any non-stormwater discharges listed under Part I.A.1.b), where the permittee has imposed any conditions on the discharges to the MS4. The permittee shall prohibit, on a case-by-case basis, any individual non-stormwater discharge (or class of non-stormwater discharges) otherwise allowed under this paragraph that is determined to be contributing significant amounts of pollutants to the MS4.</i>	SWPD	<ul style="list-style-type: none"> The county has not imposed any conditions on non-stormwater discharges to the MS4 that are authorized under Part I.A.1.b) of the permit. The county will prohibit on a case-by-case basis or by class any non-stormwater discharge otherwise allowed under the permit that the county determines to be contributing significant amounts of pollutants to the MS4 based on factual findings from an analysis of relevant data and that the county determines are necessary to protect water quality. 	▶	▶ ▶ ▶ ▶ ▶		
B.2.e.2.	<i>The permittee shall continue implementing a sanitary sewer inspection program to minimize the exfiltration from the sanitary system to the MS4. The permittee shall inspect a minimum of 750,000 linear feet of sanitary sewer during this permit cycle.</i>	WCD	<ul style="list-style-type: none"> The county will continue to implement the Sanitary Sewer Infiltration Abatement Program. A minimum of 750,000 linear feet of sanitary sewer will be inspected during this permit cycle. 	▶	▶ ▶ ▶ ▶ ▶	<i>Each annual report shall include the amount of linear feet of sanitary sewer inspected during the reporting year.</i>	Fairfax County inspected 1,235,446 linear feet of existing sanitary sewers during the reporting year.
B.2.e.3.	<i>The permittee shall continue to implement a program to reduce the discharge of floatables (e.g. litter and other human-generated solid refuse) in accordance with Part I.C.3.</i>	SWPD; MSMD	<p>The county will continue to implement a program to reduce the discharge of floatables consisting of the following two elements:</p> <ul style="list-style-type: none"> The county removes floatables and other litter from county-operated stormwater management facilities. The county has a memorandum of understanding with the Clean Fairfax Council to implement a litter control and recycling education program (see MS4 Action ID B.2.j.1.f.) and to monitor the discharge of floatables from the MS4 (see MS4 Action ID C.3.a.) 	▶	▶ ▶ ▶ ▶ ▶		
B.2.e.4.	<i>The permittee shall prohibit the dumping or disposal of used motor vehicle fluids, household hazardous wastes, sanitary sewage, grass clippings, leaf litter, and animal wastes into the MS4. The permittee shall ensure the implementation of programs to collect used motor vehicle fluids (such as oil and antifreeze) for recycling, reuse, or proper disposal and to collect household hazardous waste materials (including paint, solvents, pesticides, herbicides, and other hazardous materials) for recycling, reuse, or proper disposal. Such programs shall be readily available to all private residents and shall be publicized and promoted on a regular basis not less than twice per year.</i>	DSWCR	<ul style="list-style-type: none"> The county will continue to implement and enforce the county Fire Prevention Ordinance (Chapter 62), Stormwater Management Ordinance (Chapter 124), Sanitary Sewers and Sewage Disposal Ordinance (Chapter 67.1), and Solid Waste Management Ordinance (Chapter 109). The county will review these authorities and update as needed and to the extent allowed by state enabling authority. The county will continue to implement a program that collects used motor vehicle fluids and household hazardous waste (HHW) materials from private residents for recycling, reuse, or proper disposal. The program will be publicized and promoted on the county's website and through other means (press releases, newspaper advertising, etc.) at least twice per year. See MS4 Action ID B.2.j.a.d for information on promotion of the county's Household Hazardous Waste Program. 	▶	▶ ▶ ▶ ▶ ▶		

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)		
B.2.e.5.	The permittee shall continue to implement a program to locate and eliminate illicit discharges and improper disposal into the MS4. This program shall include dry weather screening activities to locate portions of the MS4 with suspected illicit discharges and improper disposal, as described in Part I.B.2.l)(1) of this state permit.	SWPD	<ul style="list-style-type: none"> The county will continue to implement its dry weather screening program as described in MS4 Action ID B.2.l.1.a. The county will continue to respond to reports of suspected illicit discharges and improper disposal (IDID). Initial IDID reports document what is known about the suspected IDID and help identify the party responsible for addressing the discharge. If a significant pollutant load (including but not limited to a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance or a hazardous substance) from a property enters state waters, DEQ shall be notified immediately upon discovery of the discharge (or no later than 24 hours), and follow up in writing (sent by mail or email). Investigations of suspected IDIDs begin with a visual inspection of the selected point of connection to the MS4 for evidence of an illicit discharge and recording of observations. If flow is present, water chemistry tests can be performed in the field or samples may be collected and preserved on ice while the source is tracked down based on visual or olfactory cues. The source of the discharge is tracked down by testing farther up the storm drain network. Discharges are sampled from upstream manholes in the storm drain network to narrow down the source of the discharge to a specific pipe segment between two manholes or the input source. After the source of an illicit discharge has been identified, the appropriate agency is contacted to address the discharge. 	▶	▶	▶	▶	▶	
B.2.e.6.	The permittee shall require the elimination of illicit discharges and improper disposal practices within 30-days of discovery. Where elimination of an illicit discharge within 30-days is not possible, the permittee shall require an expeditious schedule for removal of the discharge. In the interim, the permittee shall require the operator of the illicit discharge to take all reasonable and prudent measures to minimize the discharge of pollutants to the MS4.	SWPD	Once the source of the IDID has been located and the responsible party identified, the county works with the responsible party to ensure that the discharge is eliminated within 30 days. Where elimination is not possible within 30 days, the party responsible for the illicit discharge shall be required to generate an expeditious schedule and to take all reasonable and prudent measures to minimize the discharge of pollutants to the MS4.	▶	▶	▶	▶	▶	<p><i>Each annual report shall include a list of illicit discharges identified, the source, a description of follow-up activities and whether the illicit discharge has been eliminated.</i></p> <ul style="list-style-type: none"> Fairfax County investigated and closed 93 reports of illicit discharge or improper disposal during the reporting period. Two investigations that were ongoing when the previous reporting year ended have been closed. See Appendix R3 for the list of confirmed illicit discharges and improper disposals during the reporting year including the source, follow-up activities, and status.

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)
B.2.f. Spill Prevention and Response							
B.2.f.	The permittee shall continue to implement a program that coordinates with the Fire Department and other permittee operated departments to prevent, contain, and respond to spills that may discharge into the MS4. The spill response program may include a combination of spill response actions by the permittee (and/or another public or private entity), and legal requirements for private entities within the permittee's jurisdiction.	FRD	<ul style="list-style-type: none"> The county meets this requirement through implementation of applicable Fairfax County Fire Prevention Division Policies, Operations, and Procedures and the Fire Investigations Section (FIS) Operation & Procedure Manual, Section 11 – Environmental Crimes. In that section it discusses who to contact, documentation, Illicit discharge, the VA fire prevention code on responsibility for cleanup, and VDOT. In Appendix D is the Hazmat Notification Matrix., MS4 Permit Requirements). These materials document how spill prevention and response is coordinated among county agencies. The county's overall spill prevention and response program is described in two sections of the Fairfax County Fire Prevention Division Policies, Operations, and Procedures. These include: (1) Hazardous Materials Investigation Program Description; and, (2) Hazardous Materials Services Section Hazardous Materials Release, Oversight, and Monitoring Program Description. The FIS Training Manual addresses specific MS4 permit requirements, including coordination of spill prevention, containment, and response as well as training and reporting requirements. The FRD Hazardous Materials Response Team (HMRT) responds to reported incidents of hazardous material releases, spills, and discharges. Spill prevention at county facilities is addressed in MS4 Action ID B.2.i.2.c. 	October 1, 2016 ★	▶▶▶▶	Beginning with the annual report due October 1, 2016, each annual report shall include a list of spills, the source (identified to the best of the permittee's ability), and a description of follow-up activities taken.	<ul style="list-style-type: none"> The Fairfax County Fire and Rescue Department responded to 7 spills to the county's MS4 during the reporting period. See Appendix R4 for the list of spill responses during the reporting year including the source and follow-up activities.
B.2.g. Industrial & High Risk Runoff							
B.2.g.	The permittee shall implement a program to identify and control pollutants in stormwater discharges to the MS4 from industrial and high risk runoff facilities (e.g., municipal landfills; other treatment, storage, or disposal facilities for municipal waste; hazardous waste treatment, storage, disposal and recovery facilities; facilities that are subject to EPCRA Title III, Section 313) and any other industrial or commercial discharges the permittee determines are contributing a significant pollutant loading to the MS4.	SWPD	The county meets this requirement through implementation of the actions described below.				

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)
B.2.g.1.	The permittee shall maintain, and update as necessary, a list of all known industrial and high-risk dischargers to the MS4. This list shall include VPDES industrial stormwater permits.	SWPD	The county maintains a list of known industrial and high risk dischargers to the county MS4 and updates the list as needed. The list encompasses any industrial and/or commercial stormwater dischargers not regulated under the Virginia State Water Control Law that the county determines may be contributing a significant pollutant loading to the county MS4, including major automotive facilities. Major updates of the list will be performed at least once per five-year permit cycle. The county obtains information about potential industrial and high risk dischargers from private commercial sources; state VPDES permit lists; lists maintained by EPA of EPCRA Title III, Section 313 facilities; and referrals from other county programs such as Illicit Discharge and Improper Disposal (IDID).				The annual report due October 1, 2016 shall include a list of all known industrial and high risk dischargers including any non-VPDES regulated industrial and commercial stormwater dischargers determined by the permittee as contributing a significant pollutant load and that discharge to the MS4 system, a schedule of inspections and procedures for inspecting outfalls.
B.2.g.2.	No later than 12-months after the effective date of this state permit, the permittee shall develop and implement a prioritized schedule and procedure to inspect outfalls of facilities with VPDES industrial stormwater permits at the point of connection to the MS4. Prioritization may be based on historical discharges, local water quality impairments, industrial category or other methods selected by the permittee. The permittee shall inspect all VPDES industrial stormwater permitted outfalls connected to its MS4 a minimum of once every five years.	SWPD	<ul style="list-style-type: none"> The county meets this requirement through implementation of "Standard Operating Procedures for Industrial and High Risk Runoff (IHRR) Program MS4 Point of Connection and Facility Inspections" (see Appendix P9). The document in Appendix P9 establishes the procedures by which county staff establish priorities for IHRR inspections. 	March 31, 2016 ★			<p>Beginning with the annual report due October 1, 2016, each annual report shall include a report on implementation of the inspection schedule and include a list of the facilities and/or facility outfalls inspected during the reporting period.</p> <ul style="list-style-type: none"> Fairfax County inspected the points of connection to the MS4 from 35 facilities on the IHRR list during the reporting period. See Appendix R5 for the list of IHRR facilities inspected during the reporting period.
B.2.g.3.	The permittee shall review copies of discharge monitoring reports (DMRs) submitted to the permittee by VPDES industrial stormwater permitted facilities as part of the permittee's investigations of significant pollutant loadings. The permittee may conduct additional monitoring, or may require the facility to conduct additional monitoring, of any stormwater discharges it believes may be a source of significant pollutant loadings.	SWPD	The county meets this requirement through implementation of guidelines by which county staff request, review and track DMRs and notify DEQ of DMRs that were not submitted.				
B.2.g.4.	The permittee shall coordinate with the Department to report any non-VPDES permitted industrial facility from which the permittee has evidence that a significant pollutant load is entering the MS4 system. Inspections of facilities for which the permittee has evidence of significant pollutant loading may be carried out in conjunction with other permittee programs.	SWPD	<ul style="list-style-type: none"> The county meets this requirement through implementation of "Standard Operating Procedures for Industrial and High Risk Runoff (IHRR) Program MS4 Point of Connection and Facility Inspections" (see Appendix P9). The document in Appendix P9 establishes the procedures by which county staff identify non-VPDES permitted industrial facilities with evidence that a significant pollutant load is entering the MS4 system and procedures to refer these facilities to DEQ. 				

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)			
B.2.g.5.	<p>The permittee shall refer the following facilities to the Department of Environmental Quality, Northern Regional Office, for Department compliance review under the Virginia State Water Control Law:</p> <p>(a) Facilities and operations having non-stormwater discharges that do not have coverage under an existing VPDES permit.</p> <p>(b) Facilities and operations identified pursuant to 40 CFR Part 122.26(b)(14) with manufacturing, processing, or raw materials storage outside that do not have coverage under an existing VPDES industrial stormwater permit.</p> <p>(c) Any VPDES industrial stormwater permit facility where there is evidence of significant pollutant loadings to the MS4.</p> <p>(d) Facilities that do not submit signed copies of DMRs to the permittee as required under a VPDES industrial stormwater permit.</p>	SWPD	<ul style="list-style-type: none"> The county meets this requirement through implementation of "Standard Operating Procedures for Industrial and High Risk Runoff (IHRR) Program MS4 Point of Connection and Facility Inspections" (see Appendix P9). The document in Appendix P9 establishes the procedures by which county staff identify facilities meeting the requirements for referral to DEQ under Part I.B.2.g)5) of the MS4 permit and procedures to refer these facilities to DEQ. 	▶	▶	▶	▶	▶	Each annual report shall include a list of referrals to the Department.	Fairfax County referred zero (0) facilities to DEQ during the reporting period.
B.2.g.6.	<p>The permittee shall maintain a list of any industrial and/or commercial stormwater dischargers not regulated under the Virginia State Water Control Law that it determines may be contributing a significant pollutant loading to the MS4. This list may be individual discharges or categories of discharges.</p> <p>(a) Outfalls from these facilities shall be included in the prioritized inspection schedule.</p> <p>(b) The list shall include, but shall not be limited to, major automotive facilities such as repair shops, body shops, auto detailers, tire repair shops and service stations.</p> <p>(c) The permittee shall require control measures as necessary and/or appropriate for stormwater discharges from these dischargers.</p>	SWPD	<ul style="list-style-type: none"> The county will include industrial and commercial stormwater dischargers that the county determines are contributing a significant pollutant loading to the MS4 with the list described in MS4 Action ID B.2.g.1. These outfalls will be included in the prioritized inspection schedule in MS4 Action ID B.2.g.2. Control measures shall be required as necessary and/or appropriate for stormwater discharges from these dischargers in accordance with the enforcement authority identified in MS4 Action ID B.2.e. 	▶	▶	▶	▶	▶		
B.2.h. Stormwater Infrastructure Management										
B.2.h.	The permittee shall continue to maintain and implement programs to maintain the permittee's stormwater infrastructure and to update the accuracy and inventory of the storm sewer system.									
B.2.h.1.	For stormwater management (SWM) facilities and infrastructure maintained by the permittee including residential properties where SWM facilities, BMP and Storm Drainage Systems qualify for permittee maintenance (excluding apartments and mobile home parks), the following conditions apply:	MSMD	The county meets this requirement through implementation of the actions described below.							

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline				Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)																																																																																																																						
B.2.h.1.a.	The permittee shall provide for adequate long-term operation and maintenance of SWM facilities owned or operated by the permittee in accordance with written inspection and maintenance procedures included in the MS4 Program Plan.	MSMD	<ul style="list-style-type: none"> The county provides long-term operation and maintenance of county facilities in accordance with the "Post-Construction Stormwater Inspection and Maintenance Policies and Procedures" (see Appendix P10). MSMD inspects and maintains SWM facilities on county property or within county easements. The procedures are updated as needed. 	March 31, 2016 ★	▶	▶	▶	▶	The annual report due October 1, 2016 shall include the written inspection and maintenance procedures.																																																																																																																							
B.2.h.1.b.	The permittee shall, at a minimum, inspect annually all SWM facilities owned or operated by the permittee. The permittee may choose to implement an alternative schedule to inspect these SWM facilities based on a risk assessment that includes facility type and expected maintenance needs provided that the alternative schedule is included in the MS4 Program Plan in accordance with plan modifications as listed in Part I.A.7.a) of this state permit.	MSMD	<ul style="list-style-type: none"> The inspection frequency of county-maintained SWM facilities within the inventory is dependent on the type of facility. The county inspects county facilities that have routine maintenance programs every other year. Regional ponds and facilities that do not have routine maintenance programs are inspected annually. The alternative inspection schedule and the risk assessment upon which it is based are included in the "Post-Construction Stormwater Inspection and Maintenance Policies and Procedures" (see Appendix P10). During inspections, MSMD and their contractors identify and document any necessary non-routine maintenance work. Each inspection form is tailored to the type of facility being inspected and has a standardized prioritization process. 		▶	▶	▶	▶	<p>Each annual report shall include a list of activities including inspections, maintenance, and repair of stormwater infrastructure operated by the permittee as required in Part I.B.2.h)1), including the type and number of stormwater structures inspected and maintained; the total number of stormwater structures owned or operated by the permittee.</p> <table border="1"> <thead> <tr> <th>Type of stormwater structure (defined for the purposes of this report as the type of stormwater management facility)</th> <th>Number Inspected</th> <th>Number Maintained</th> <th>Number Repaired</th> <th>Total Number Owned or Operate d by County</th> </tr> </thead> <tbody> <tr><td>AS (Soil Compost Amendment)</td><td>17</td><td>-</td><td>-</td><td>17</td></tr> <tr><td>BR (Bioretention)</td><td>143</td><td>143</td><td>2</td><td>146</td></tr> <tr><td>CS (Cistern System)</td><td>2</td><td>-</td><td>1</td><td>3</td></tr> <tr><td>DP (Dry Pond - peak shaver/extended detention/enhanced extended detention)</td><td>706</td><td>1,429</td><td>339</td><td>1,436</td></tr> <tr><td>FC-PL566 (PL566 Dams)</td><td>6</td><td>6</td><td>6</td><td>6</td></tr> <tr><td>FTW (Floating Treatment Wetland)</td><td>4</td><td>4</td><td>-</td><td>4</td></tr> <tr><td>GR (Vegetated Roof)</td><td>16</td><td>15</td><td>7</td><td>16</td></tr> <tr><td>MB (Manufactured BMP)</td><td>34</td><td>-</td><td>4</td><td>34</td></tr> <tr><td>OS (Open Space/Meadow)</td><td>6</td><td>-</td><td>-</td><td>6</td></tr> <tr><td>PP (Permeable Pavement)</td><td>118</td><td>115</td><td>30</td><td>120</td></tr> <tr><td>RF (Reforestation)</td><td>58</td><td>-</td><td>-</td><td>58</td></tr> <tr><td>RT (Rooftop Detention)</td><td>1</td><td>-</td><td>-</td><td>1</td></tr> <tr><td>SF (Sand Filter)</td><td>10</td><td>2</td><td>-</td><td>11</td></tr> <tr><td>ST (Synthetic Turf)</td><td>1</td><td>-</td><td>-</td><td>1</td></tr> <tr><td>TF (Tree Box Filter/Filtrerra)</td><td>235</td><td>237</td><td>11</td><td>237</td></tr> <tr><td>TR (Infiltration Practice/Trench)</td><td>100</td><td>3</td><td>11</td><td>101</td></tr> <tr><td>UG (Underground Detention)</td><td>113</td><td>-</td><td>6</td><td>116</td></tr> <tr><td>VS (Vegetated Swale)</td><td>73</td><td>73</td><td>1</td><td>73</td></tr> <tr><td>WL (Constructed Wetland)</td><td>1</td><td>2</td><td>-</td><td>3</td></tr> <tr><td>WP (Wet Pond)</td><td>19</td><td>20</td><td>5</td><td>30</td></tr> <tr><td>WS (Wet Swale)</td><td>7</td><td>-</td><td>1</td><td>7</td></tr> <tr><td>TOTAL</td><td>1,670</td><td>2,049</td><td>425</td><td>2,431</td></tr> </tbody> </table>	Type of stormwater structure (defined for the purposes of this report as the type of stormwater management facility)	Number Inspected	Number Maintained	Number Repaired	Total Number Owned or Operate d by County	AS (Soil Compost Amendment)	17	-	-	17	BR (Bioretention)	143	143	2	146	CS (Cistern System)	2	-	1	3	DP (Dry Pond - peak shaver/extended detention/enhanced extended detention)	706	1,429	339	1,436	FC-PL566 (PL566 Dams)	6	6	6	6	FTW (Floating Treatment Wetland)	4	4	-	4	GR (Vegetated Roof)	16	15	7	16	MB (Manufactured BMP)	34	-	4	34	OS (Open Space/Meadow)	6	-	-	6	PP (Permeable Pavement)	118	115	30	120	RF (Reforestation)	58	-	-	58	RT (Rooftop Detention)	1	-	-	1	SF (Sand Filter)	10	2	-	11	ST (Synthetic Turf)	1	-	-	1	TF (Tree Box Filter/Filtrerra)	235	237	11	237	TR (Infiltration Practice/Trench)	100	3	11	101	UG (Underground Detention)	113	-	6	116	VS (Vegetated Swale)	73	73	1	73	WL (Constructed Wetland)	1	2	-	3	WP (Wet Pond)	19	20	5	30	WS (Wet Swale)	7	-	1	7	TOTAL	1,670	2,049	425	2,431				
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B.2.h.1.c.	The permittee shall conduct maintenance on SWM facilities owned or operated by the permittee as necessary.	MSMD	<ul style="list-style-type: none"> MSMD performs routine maintenance on ponds, tree box filters, bioretention facilities, vegetated swales, green roofs, and permeable pavement within the public inventory. Depending on the type and age of the facility, maintenance is performed from once up to five times per year. County SWM facilities are maintained in accordance with the "Post-Construction Stormwater Inspection and Maintenance Policies and Procedures" (see Appendix P10). 		▶	▶	▶	▶	See MS4 Action ID B.2.h.1.b.	See MS4 Action ID B.2.h.1.b.																																																																																																																						

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date					Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)		
											Activity	Linear Feet	Percent
B.2.h.1.d.	The permittee shall continue its stormwater system inspection program and shall inspect no less than 15% of the MS4 annually and 100% of the system during the term of the permit.	MSMD	<ul style="list-style-type: none"> The county has an ongoing program to digitally video and physically inspect the storm sewer system. As part of this process, MSMD is using GIS to develop a Physical Condition Assessment (PCA) layer for segments of each pipe, storm sewer structure and channel for use in prioritizing assets most in need of repair or rehabilitation. MSMD maintains mapping of the county stormwater infrastructure. This infrastructure inventory is continuously updated based on recorded easements, new as-built plans and condition assessments performed through internal closed-circuit television surveillance and walking/field verification. When defining the condition of the system and determining corrective actions, MSMD staff distinguishes between deficiencies that are structural in nature and those that can be addressed through operations and maintenance activities. 	▶	▶	▶	▶	▶	Each annual report shall include a list of activities including inspections, maintenance, and repair of stormwater infrastructure operated by the permittee as required in Part I.B.2.h)1), including the total linear feet of storm sewer system owned and/or operated by the permittee; and the linear feet of storm sewer system inspected.	Total storm sewer system owned and/or operated by county:	8,490,240	100.0	
										Total storm sewer system inspected:	1,964,160	23.1	
										Cumulative storm sewer system inspected since 4/1/2015.	14,672,150	172.8	
										Total storm sewer system maintained:	79,200	0.93	
										Total storm sewer system repaired:	9,188	0.16	
B.2.h.1.e.	The permittee shall dispose of all wastes and wastewaters collected during stormwater system cleaning in accordance with local, state, and federal laws and regulations.	MSMD	County staff and contractors dispose of wastes and wastewaters collected from stormwater system cleaning in accordance with local, state and federal laws and regulations.	▶	▶	▶	▶	▶					
B.2.h.1.f.	The permittee shall obtain any required state or federal permit(s) necessary to complete maintenance activities.	MSMD	The county obtains all permits necessary to complete maintenance activities.	▶	▶	▶	▶	▶					
B.2.h.2.	For SWM facilities not maintained by the permittee and that discharge into the MS4, the following conditions apply:	MSMD	The county meets this requirement through implementation of the actions described below.										
B.2.h.2.a.	The permittee shall continue to implement a program to ensure proper maintenance of each privately maintained SWM facility that discharges into the MS4 system as documented in the MS4 Program Plan.	MSMD	<ul style="list-style-type: none"> The county's program to ensure proper maintenance of privately maintained SWM facilities is provided in the "Post-Construction Stormwater Inspection and Maintenance Policies and Procedures" (see Appendix P10). Before a privately-maintained facility can be constructed in the county, a private maintenance agreement (PMA) is required to be executed and recorded in the land records of the county. Not all privately-owned and maintained facilities in the county have PMAs, due to changing requirements occurring in the 1980s. The PMA gives the county the legal authority to inspect, and if necessary, maintain the facility and requires that the facility be maintained in good working condition. 	▶	▶	▶	▶	▶					

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline				Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)	
B.2.h.2.a.1.	Beginning with the effective date of this state permit and in accordance with 9 VAC 25-870-112 B, maintenance agreements may be used but are not required for stormwater control measures that are designed to treat stormwater runoff solely from the individual residential lot on which they are located provided that the permittee has developed and implemented a strategy to address maintenance of such stormwater management controls. Should the permittee choose a strategy other than a maintenance agreement, such a strategy shall be provided in writing no later than 12 months after the effective date of this state permit and shall include periodic inspections, homeowner outreach and education, or other methods targeted at promoting the long term maintenance of such facilities.	MSMD	<ul style="list-style-type: none"> The county currently requires maintenance agreements for stormwater control measures that are designed to treat stormwater runoff solely from the individual residential lot on which they are located. Inspection and follow-up procedures are provided in the "Post-Construction Stormwater Inspection and Maintenance Policies and Procedures" (Appendix P10). In accordance with 9VAC25-870-112 B, the county has the discretion to adopt an alternative strategy for stormwater control measures that are designed to treat stormwater runoff solely from the individual residential lot on which they are located. The county has chosen to continue to require PMAs for these facilities at this time and any changes to the county's strategy will be reported to DEQ and reflected in updates to this Program Plan. 	October 1, 2016 ★	▶	▶	▶	▶	The annual report due October 1, 2016 shall include the permittee's strategy to address maintenance of stormwater management controls that are designed to treat stormwater runoff solely from the individual residential lot on which they are located.		
B.2.h.2.a.2.	For SWM facilities that are privately maintained and for which maintenance agreements have been established between the permittee and the owner, the permittee shall inspect all privately maintained facilities no less than once per 5 years and conduct follow-up activities to ensure the required maintenance has been completed. Inspections may be conducted by the permittee or their designee as defined in 9 VAC 25-870-114.	MSMD	<ul style="list-style-type: none"> The county's inspection and follow-up procedures are provided in "Post-Construction Stormwater Inspection and Maintenance Policies and Procedures" (Appendix P10). Private facilities are routinely scheduled for inspection by a contractor or by in-house staff, with the goal of inspecting each privately-maintained facility at least once every five years. A detailed inspection report, including photographs, plans and a geographic information system (GIS) map is provided to the owner(s) upon completion of each inspection. The report informs the owner(s) of any maintenance deficiencies observed during the inspection and provides a timeline for addressing deficiencies. The county has an enforcement program in place if owners fail to voluntarily comply with our requests to complete noted deficiencies. The enforcement program is based on whether the facility is functioning as designed or not. 	▶	▶	▶	▶	▶	<ul style="list-style-type: none"> Each annual report shall include a list of activities including inspections performed and notifications of needed maintenance and repair of stormwater facilities not operated by the permittee as required by Part I.B.2.h)2). Each annual report shall provide a summary of actions taken by the permittee to address failure of privately maintained SWM facilities owners to abide by maintenance agreements. 	Number of privately maintained stormwater management facilities inspected:	1,144
									Notifications of needed maintenance and repair of privately maintained SWM facilities:	425	
									Actions taken by the county to address failure of privately maintained SWM facilities owners to abide by maintenance agreements:	3	
B.2.h.2.a.3.	For SWM facilities that are privately maintained and for which maintenance agreements have not been established between the permittee and the owner, the permittee shall implement a pilot program consisting of the following:	MSMD	The county meets this requirement through implementation of the actions described below.								

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline			Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)
B.2.h.2.a.3.i.	No later than 12-months after the effective date of the permit, the permittee shall develop draft procedures and policies that are designed to ensure that inspection and maintenance of privately maintained SWM facilities without maintenance agreements are being conducted. The draft procedures and policies should identify any expected limitations to the permittee's ability to implement these procedures and policies and should propose options to overcome these limitations;	MSMD	<ul style="list-style-type: none"> Fairfax County maintains and implements procedures and policies to ensure the inspection and maintenance of privately maintained SWM facilities without maintenance agreements are being conducted. If owners are not maintaining facilities as needed and PMAs are not recorded, the county can pursue compliance with stormwater management requirements that are specified on approved plans through the enforcement of Zoning Ordinance §17-108(6) and §18-901(3). The enforcement policy outlined in the procedures describes Notices of Inspection, Notices of Maintenance Verification, Notices of Violation, an appeals process, penalties and potential program limitations. 	March 31, 2016 ★					
B.2.h.2.a.3.ii.	No later than 15-months after the effective date of the permit, the permittee shall implement these draft procedures and policies including the proposed options identified in subsection Part I.B.2.h)2)a)(3)(i) above; and	MSMD	Fairfax County maintains and implements procedures and policies developed in MS4 Action ID B.2.h.2.a.3.i.	June 30, 2016 ★	▶				
B.2.h.2.a.3.iii.	No later than 36-months after the effective date of the permit, the permittee shall modify the draft policy and procedures required by Part I.B.2.h)2)a)(3)(i) for the inspection of privately maintained SWM facilities based on the findings of Part I.B.2.h)2)a)(3)(ii) and finalize the inspection procedures.	MSMD	Fairfax County maintains and implements procedures and policies developed in MS4 Action ID B.2.h.2.a.3.i.			March 31, 2018 ★	▶	▶	
B.2.h.3.	No later than 18 months after the effective date of this permit, the permittee shall map the MS4 service area and each MS4 outfall. The following information shall be tracked for each MS4 outfall: (a) An individual identification number, local watershed, HUC and receiving water; (b) The latitude and longitude in decimal degrees; and (c) New outfalls shall be tracked upon their inclusion into the MS4.	MSMD	<ul style="list-style-type: none"> Fairfax County has identified all outfalls owned or operated by Fairfax County that discharge to surface waters (i.e. MS4 outfalls). Each MS4 outfall has an individual identification number, the local watershed, HUC and receiving water in which it is located are identified, and its latitude and longitude are provided in in decimal degrees. The county has delineated the drainage area to each of its MS4 outfalls (i.e. the MS4 service area). The county updates the mapping layers to incorporate new outfalls once as-built plans are provided by the party responsible for constructing the new outfall. 	September 30, 2016 ★	▶	▶	▶	The MS4 service area map including outfalls and information included in Part I.B.2.h)3) shall be submitted no later than 18 months after the effective date of this state permit. The information shall be submitted as an electronic file in one of the following formats: shapefile, geodatabase, .xls, .xlsx, .csv, .mdx, .dbf, delimited text, XML, or other file approved by the Department.	

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)
B.2.h.4.	No later than 24 months after the effective date of this state permit, the permittee shall identify the following for each local watershed, sixth order HUC and Chesapeake Bay Segment: (a) The number of impervious, pervious and total acres served by the MS4 as of June 30, 2009. (b) The number of impervious, pervious and total acres treated by stormwater controls as of June 30, 2009.	MSMD	<ul style="list-style-type: none"> Fairfax County will use the MS4 service area mapping completed in MS4 Action ID B.2.h.3 and the county's 2009 impervious cover layer to estimate the impervious, pervious and total acres served by the MS4 as of June 30, 2009 by local watershed, sixth-order HUC and Chesapeake Bay Segment. The county will use data from its stormwater asset management system and GIS to estimate the impervious, pervious and total acres treated by stormwater controls as of June 30, 2009 by local watershed, sixth order HUC and Chesapeake Bay Segment. 	March 31, 2017 ★		The annual report due October 1, 2017 shall include the information included in Part I.B.2.h) 4). The information shall be submitted in a format specified by the Department.	The number of impervious, pervious and total acres served by the MS4 as of June 30, 2009, as well as the number of impervious, pervious and total acres treated by stormwater controls as of June 30, 2009 was submitted in the 2017 report.
B.2.h.5.	No later than 54 months after the effective of this state permit, the permittee shall update each of the following: (a) The number of impervious, pervious and total acres served by the MS4 for each Fairfax County local watershed, sixth order HUC and Chesapeake Bay segment. (b) The number of impervious, pervious and total acres treated by stormwater controls.	MSMD	The update of the acreage estimates developed under MS4 Action ID B.2.h.4 above will capture "New Sources" in accordance with Part I.D.1. of the county's MS4 permit and as defined and described in DEQ's Chesapeake Bay TMDL Special Condition Guidance (GM 15-2005).		September 30, 2019 ★	The annual report due October 1, 2019 shall include an updated list of all information requested in Part I.B.2.h)5).	This was submitted during FY19, see Appendix P11 for a list of the number of impervious, pervious and total acres served by the MS4 for each Fairfax County local watershed, sixth order HUC and Chesapeake Bay segment, as well as the number of impervious, pervious and total acres treated by stormwater controls.
B.2.i. County Facilities							
B.2.i.	Facilities owned or operated by the permittee shall be operated and maintained as follows:	MSMD	The county meets this requirement through implementation of the actions described below.				
B.2.i.1.	Good Housekeeping (a) The discharge of permittee vehicle wash water into the MS4 at permittee facilities without authorization from a separate VPDES permit shall be prohibited. (b) The discharge of wastewater into the MS4 at county facilities without authorization by a separate VPDES permit shall be prohibited. (c) The dumping of collected yard waste and grass clippings into the MS4 shall be prohibited. (d) Fluids leaked from permittee vehicles shall be prevented from entering the storm sewer system. Leaked fluids shall be cleaned up and disposed of properly, as soon as possible but no later than 24-hours after discovery.	MSMD	The county meets this requirement through implementation of the countywide "Stormwater Protection Policy" (PM No.25-01) which prohibits the discharge or disposal of specific substances into the county's storm sewer system and offers guidance on how to comply with these prohibitions. This policy applies to all county employees, facilities and vehicles and is posted on the County's intranet and included in county employee training.	▶	▶	▶	▶
B.2.i.1.e.	No later than the expiration date of this state permit, the permittee shall install and maintain markings on all stormwater inlets located on high priority municipal facilities, as defined at Part I.F, and on permittee properties with greater than 2-acres of impervious surface.	MSMD	<ul style="list-style-type: none"> County properties with greater than 2-acres of impervious surface have been identified. Markers will be installed by volunteers or county personnel. Markers will be installed on stormwater inlets on high priority municipal facilities specified in B.2.i.2.a and county properties with greater than 2 acres of impervious surface. 	▶	▶	▶	▶
B.2.i.2.	High Priority Municipal Facilities	MSMD	The county meets this requirement through implementation of the actions described below.			March 31, 2020 ★	

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date		Annual Timeline		Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)
B.2.i.2.a.	No later than 12-months after the effective date of this state permit, the permittee shall identify all high priority municipal facilities that do not require a separate VPDES industrial stormwater permit;	MSMD	<ul style="list-style-type: none"> High priority municipal facilities are defined in Part I.F of the permit as "any facility owned and operated by the permittee or regulated under this state permit that includes composting facilities, equipment storage and maintenance facilities, materials storage yards, pesticide storage facilities, public works yards, recycling facilities, salt storage facilities, solid waste handling and transfer facilities, and vehicle storage and maintenance yards." The list of high priority municipal facilities that do not require a separate VPDES industrial stormwater permit was determined by answering the following three questions for each developed property owned or operated by Fairfax County: <ol style="list-style-type: none"> Does the facility meet the permit definition for a high priority municipal facility? If so, then the facility was included on the list. Does the facility have coverage under a separate VPDES Industrial Stormwater Permit? If so, then the facility was removed from the list. Are the activities occurring at the facility temporary or seasonal in nature? If so, then the facility was removed from the list. The county submitted a list of 18 high priority municipal facilities in the FY 2016 Annual Report. 	March 31, 2016 ★		▶	▶	The annual report due October 1, 2016 shall include a list of all high priority municipal facilities.	<ul style="list-style-type: none"> Fairfax County's list of high priority municipal facilities was provided in the FY 2016 Annual Report. The county's MS4 program was inspected by DEQ on February 8th and 9th 2017. As a result of the inspection, the county has determined that some county-owned and operated facilities may not have been included in the high priority evaluation because they did not appear in a geographic information system (GIS) query of county-owned parcels. The list that was provided in response to the post inspection records request contained 484 county facilities. Upon further investigation, we have identified an additional 245 facilities, for a total of 729 facilities requiring evaluation. The county has revised the list of county-owned and operated facilities that include composting facilities, equipment storage and maintenance facilities, materials storage yards, pesticide storage facilities, public works yards, recycling facilities, salt storage facilities, solid waste handling and transfer facilities, and vehicle storage and maintenance yards based on this more comprehensive list of county facilities.

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)
B.2.i.2.b.	<p><i>Within 12 months of state permit coverage, the operator shall identify which of the high priority municipal facilities have a high potential of discharging pollutants. High priority municipal facilities that have a high potential for discharging pollutants are those facilities identified in subsection (a) above that are not covered under a separate VPDES permit and which any of the following materials or activities occur and are expected to have exposure to stormwater resulting from rain, snow, snowmelt or runoff:</i></p> <p>(1) <i>Areas where residuals from using, storing or cleaning machinery or equipment remain and are exposed to stormwater;</i></p> <p>(2) <i>Materials or residuals on the ground or in stormwater inlets from spills or leaks;</i></p> <p>(3) <i>Material handling equipment (except adequately maintained vehicles);</i></p> <p>(4) <i>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);</i></p> <p>(5) <i>Materials or products stored outdoors (except final products intended for outside use where exposure to stormwater does not result in the discharge of pollutants);</i></p> <p>(6) <i>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;</i></p> <p>(7) <i>Waste material except waste in covered, non-leaking containers (e.g., dumpsters);</i></p> <p>(8) <i>Application or disposal of process wastewater (unless otherwise permitted); or</i></p> <p>(9) <i>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.</i></p>	MSMD	<ul style="list-style-type: none"> Each of the high priority municipal facilities identified in MS4 Action ID B.2.i.2.a was further evaluated to identify which of these facilities have a high potential of discharging pollutants using the criteria found in Part I.B.2.i.2)b) of the MS4 permit. This evaluation determined that 21 of the 729 high priority municipal facilities also have a high potential of discharging pollutants. The county's list of 14 high priority municipal facilities with a high potential of discharging pollutants was provided in the FY 2016 Annual Report. 	March 31, 2016 ★	▶▶▶▶	<p>Although not a specific reporting requirement in the permit, the list of Fairfax County high priority municipal facilities with a high potential of discharging pollutants was provided in the FY 2016 Annual Report.</p>	<ul style="list-style-type: none"> Fairfax County's list of high priority municipal facilities with a high potential of discharging pollutants was provided in the FY 2016 Annual Report. The revised list of high priority municipal facilities has been further evaluated to determine which facilities have a high potential of discharging pollutants. High priority municipal facilities that have a high potential for discharging pollutants are those facilities that are not covered under a separate Virginia Pollutant Discharge Eliminations System (VPDES) permit and at which any of the activities listed in Part I.B.2.i.2.b(1-9) occur and are expected to have exposure to stormwater resulting from rain, snow, snowmelt or runoff. The revised list of high priority municipal facilities that have a high potential of discharging pollutants is in Appendix R6.

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)
B.2.i.2.c.	The permittee shall develop and/or update and implement individual stormwater pollution prevention plans for each high-priority municipal facility identified under Part I.B.2.i)2)(b) no later than 36-months after the effective date of this state permit. Stormwater pollution prevention plans (SWPPP) shall include: (1) A site description that includes a site map identifying all outfalls, direction of flows, existing source controls, and receiving water bodies; (2) A discussion and checklist of potential pollutants and pollutant sources; (3) A discussion of all potential non-stormwater discharges; (4) A maintenance schedule for all existing source controls; (5) All policies and procedures implemented at the facility to ensure source reduction; (6) An inspection schedule and checklist to ensure that all source reductions are continually implemented and all source controls are appropriately maintained. The date of each inspection and associated findings and follow-up shall be logged in each SWPPP; (7) Appropriate training as required in Part I.B.2.k); (8) Procedures to conduct an annual comprehensive site compliance evaluation; (9) Procedures to conduct dry weather screening; and (10) All modifications made as the result of any release or spill.	MSMD	The county will develop and implement SWPPPs for each high priority municipal facility identified as required in MS4 Action ID B.2.i.2.b. no later than March 31, 2018. The SWPPPs will include the information (items 1-10) listed in Part I.B.2.i)2)(c) of the county's MS4 permit.		<p>Timeline for B.2.i.2.c. shows a due date of March 31, 2018 (indicated by a green bar with a star). Annual reporting requirements are shown as blue bars with right-pointing triangles in the subsequent years.</p>		The county evaluated the implementation of the SWPPPs, and the list of all sites can be found in Appendix R6.
B.2.i.2.d.	A copy of each SWPPP shall be kept at each high-priority municipal facility and be kept updated.	MSMD	A copy of the high priority municipal facility SWPPP will be kept at each facility requiring one. Where the SWPPP cannot be physically kept on site, a copy of the high priority municipal facility SWPPP will be kept on file by the department that manages the site.		<p>Timeline for B.2.i.2.d. shows annual reporting requirements as blue bars with right-pointing triangles in the subsequent years.</p>		
B.2.j. Public Education/Participation							
B.2.j.	The permittee shall implement a public education program with the goal of increasing the stormwater knowledge of target audiences and changing behavior to result in pollutant reductions. The permittee may fulfill all or part of the requirements of this state permit through regional outreach programs involving two or more MS4 localities.	SWPD	The county meets this requirement through implementation of the actions described below.		<p>Timeline for B.2.j. shows annual reporting requirements as blue bars with right-pointing triangles in the subsequent years.</p>		

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline				Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)
B.2.j.1.	The permittee shall identify, schedule, implement, evaluate and modify, as necessary, public outreach activities designed to meet the following public education and outreach goals:	SWPD	The county's public education program raises awareness about stormwater challenges throughout the county and offers opportunities for residents to become involved in efforts to restore and protect local waterways, the Occoquan Reservoir, the Potomac River and the Chesapeake Bay. A number of county organizations and partners contribute to the public education program including SWPD, DPWES Solid Waste Management Program (SWMP), FCPA and NVSWCD. County staff uses a variety of methods to provide public education on stormwater management and watershed basics including in-person presentations, print publications, television, radio and online resources. A new public education tool was implemented in May 2019; EnviroPod is a frequent podcast devoted exclusively to environmental topics that encourage public participation in the county's environmental efforts. The county evaluates its program annually and modifies it as necessary.	Update program by March 31, 2016 ★	▶	▶	▶	▶	Beginning with the annual report due October 1, 2016, each annual report shall include a list of permittee public outreach and education activities and the estimated number of individuals reached through the activities. An evaluation of program effectiveness, as outlined in the MS4 Program Plan, with recommendations for future changes shall also be included.	<ul style="list-style-type: none"> During FY 2023, Fairfax County worked with Clean Water Partners to assess stormwater knowledge and behavior and preferences for receiving information. This effort will identify the effectiveness of the program, as well as influence future changes to the program. A summary of the survey results can be found in Appendix R7. See Appendix R8 for a summary of outreach and education activities and estimated number of individuals reached for each of the ten messages required in Part I.B.2.j)1) of the permit. The new programs are highlighted in blue.
B.2.j.1.a.	Promote, publicize, and facilitate public reporting of the presence of illicit discharges or improper disposal of materials into the MS4;	SWPD	Fairfax County uses multiple media outlets (county Channel 16, print, website) to promote public reporting of potential illicit discharges, supported by an internal communication plan to ensure referrals of calls and other contacts are routed appropriately.	March 31, 2016 ★	▶	▶	▶	▶	See MS4 Action ID B.2.j.1.	See MS4 Action ID B.2.j.1.
B.2.j.1.b.	Continue to promote individual and group involvement in local water quality improvement initiatives including the promotion of local restoration and clean-up projects, programs, groups, meetings and other opportunities for public involvement;	NVSWCD	Fairfax County maintains a website for volunteer opportunities and utilizes multiple media outlets to promote individual and group involvement in local water quality improvement initiatives.	March 31, 2016 ★	▶	▶	▶	▶	See MS4 Action B.2.j.1..	See MS4 Action ID B.2.j.1.
B.2.j.1.c.	Develop an outreach program for public and private golf courses located within the county that discharge to the permittee's MS4 to encourage implementation of integrated management practice (IMP) plans and techniques to reduce runoff of fertilizer and pesticides;	FCPA	Fairfax County implements a proactive program to reach public and private golf course managers/superintendents to promote IMP and to educate on the MS4 and water quality.	March 31, 2016 ★	▶	▶	▶	▶	See MS4 Action ID B.2.j.1.	See MS4 Action ID B.2.j.1.
B.2.j.1.d.	Promote, publicize, and facilitate the proper management and disposal of used oil and household hazardous wastes;	SWMP	Fairfax County maintains proactive measures targeting residents to inform them of disposal services provided, proper disposal practices and management of material in preparation for disposal. Fairfax County supports the Clean Water Partners whose outreach programs include a focus on proper management and disposal of used oil and HHW.	March 31, 2016 ★	▶	▶	▶	▶	See MS4 Action ID B.2.j.1.	See MS4 Action ID B.2.j.1.

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline				Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)																
B.2.j.1.e.	Promote and publicize the proper disposal of pet waste and household yard waste;	SWMP	The county maintains proactive outreach through various media outlets targeting pet owners and households on proper management of pet waste and yard waste. Outreach and education on these topics are also performed by support to regional efforts through Clean Water Partners, for example.	March 31, 2016 ★	▶	▶	▶	▶	See MS4 Action ID B.2.j.1.	See MS4 Action ID B.2.j.1.																
B.2.j.1.f.	Promote and publicize the use of the permittee's litter prevention program;	CFC	Fairfax County, through an agreement with the Clean Fairfax Council (CFC), promotes and publicizes litter prevention strategies as well as promotion through various media outlets (county Channel 16, print, website and EnviroPod podcasts).	March 31, 2016 ★	▶	▶	▶	▶	See MS4 Action ID B.2.j.1.	See MS4 Action ID B.2.j.1.																
B.2.j.1.g.	Promote and publicize methods for residential car washing that minimize water quality impacts;	SWPD	Fairfax County uses various media for promotion of car washing methods that minimize impacts on water quality, including avoidance of discharges to storm drains and use of commercial car washes.	March 31, 2016 ★	▶	▶	▶	▶	See MS4 Action ID B.2.j.1.	See MS4 Action ID B.2.j.1.																
B.2.j.1.h.	Promote and publicize the proper use, application, and disposal of pesticides, herbicides, and fertilizers by public, commercial, and private applicators and distributors;	SWPD	Fairfax County uses various media for promotion of the proper management techniques for handling pesticides, herbicides and fertilizers to reduce impact on water quality. Partners include NVSWCD and the Clean Water Partners on proper techniques for application, storage and disposal.	March 31, 2016 ★	▶	▶	▶	▶	See MS4 Action ID B.2.j.1.	See MS4 Action ID B.2.j.1.																
B.2.j.1.i.	Encourage private property owners to implement voluntary stormwater management techniques and/or retrofits; and	NVSWCD	<ul style="list-style-type: none"> Fairfax County uses existing media (county Channel 16, print, website) to encourage private property owners to implement voluntary stormwater management techniques and/or retrofits. The county works in partnership with NVSWCD to provide encouragement to private property owners to implement voluntary stormwater management techniques through workshops, brochures and other assistance. In the process of assisting owners of existing stormwater facilities that may need upgrades or would benefit from improvements, the county educates owners on options and encourages implementation. 	March 31, 2016 ★	▶	▶	▶	▶	<ul style="list-style-type: none"> Beginning with the annual report due October 1, 2016, each annual report shall provide a summary of voluntary retrofits completed on private property used to demonstrate pollutant reduction requirements. Note that any voluntary project for which the permittee seeks to use for pollutant reduction requirements must be tracked and reported. Beginning with the annual report due October 1, 2016, each annual report shall provide a summary of voluntary stormwater management techniques encouraged on private property. 	<p>Fairfax County has chosen not to use voluntary retrofits completed on private property to demonstrate pollutant reduction requirements at this time and as a result has not provided a summary of specific voluntary retrofits. Should the county choose to seek credit for voluntary retrofits completed on private property towards its pollutant reduction requirements in the future, such projects will be reported to DEQ and reflected in the appropriate update to the county's MS4 Program Plan.</p> <table border="1"> <thead> <tr> <th>Voluntary Stormwater Management Techniques Encouraged on Private Property</th> <th>Number of New Private Properties Participating in FY 2023</th> </tr> </thead> <tbody> <tr> <td>Rain Garden</td> <td>6 residential</td> </tr> <tr> <td>Rain Barrels</td> <td>249 distributed</td> </tr> <tr> <td>Conservation Landscaping</td> <td>17 residential, 2 HOAs, 1 Place of Worship</td> </tr> <tr> <td>Impervious Surface Removal</td> <td>2 residential</td> </tr> <tr> <td>Dry Wells</td> <td>1 residential</td> </tr> <tr> <td>Porous Pavers</td> <td>1 residential</td> </tr> <tr> <td>Infiltration Trench</td> <td>1 residential</td> </tr> </tbody> </table>	Voluntary Stormwater Management Techniques Encouraged on Private Property	Number of New Private Properties Participating in FY 2023	Rain Garden	6 residential	Rain Barrels	249 distributed	Conservation Landscaping	17 residential, 2 HOAs, 1 Place of Worship	Impervious Surface Removal	2 residential	Dry Wells	1 residential	Porous Pavers	1 residential	Infiltration Trench	1 residential
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MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline				Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)
B.2.j.1.j.	Target strategies towards local groups of commercial, industrial, and institutional entities likely to have significant stormwater impacts.	SWPD	Fairfax County maintains an outreach program to targeted audiences on pollution prevention through distribution of materials during inspections, on line and at public events.	March 31, 2016 ★	▶	▶	▶	▶	See MS4 Action ID B.2.j.1.	See MS4 Action ID B.2.j.1.
B.2.j.2.	The permittee shall post a copy of this state permit on its web page no later than 30-days after the effective date of this state permit and continue to retain a copy of the permit online for the duration of this state permit.	SWPD	<ul style="list-style-type: none"> The county's MS4 permit (VA0088587), effective April 1, 2015, was posted to the county website on April 7, 2015. The permit is available at https://www.fairfaxcounty.gov/publicworks/sites/publicworks/files/assets/documents/pdf/reports/ms4/va0088587-fairfax-permit.pdf 	April 30, 2015 ★	▶	▶	▶	▶		
B.2.j.3.	The permittee shall post copies of each annual report on its website no later than 30 days after the report submittal to the Department and continue to retain copies of the annual reports online for the duration of this state permit.	SWPD	<ul style="list-style-type: none"> Annual reports are posted to the county website within 30 days of submittal to DEQ. Annual reports are available at https://www.fairfaxcounty.gov/publicworks/stormwater/ms4-program-plan-and-annual-reports 		▶	▶	▶	▶		
B.2.j.4.	The permittee shall post the most current MS4 Program Plan on its website no later than 30 days after the effective date of this permit and maintain a current copy on the website. If the MS4 Program Plan is modified or revised, the updated plan shall be posted within 30 days of the revision(s). Copies of the most current MS4 Program Plan shall be made available for public review upon request of interested parties in compliance with all applicable open records requirements.	SWPD	<ul style="list-style-type: none"> The county's most current MS4 Program Plan was posted to the county website on April 7, 2015. Updates to the MS4 Program Plan will be posted to the county's website within 30 days of submittal to DEQ. The MS4 Program Plan is available at: https://www.fairfaxcounty.gov/publicworks/stormwater/ms4-program-plan-and-annual-reports 		▶	▶	▶	▶		
B.2.k. Training										
B.2.k.	The permittee shall conduct stormwater training for permittee employees. The training requirement may be fulfilled all or in part through regional training programs involving two or more MS4 localities; provided, however, that the permittee shall remain individually liable for its failure to comply with the training requirements in this state permit. The permittee shall determine the appropriate employees to receive the following types of training based on the specific topic for which training is to be provided:	SWPD	The county meets this requirement through implementation of the actions described below.							

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline				Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)							
B.2.k.8.	The appropriate emergency response employees shall have training in spill response. A summary of the training and/or certification program provided to emergency response employees shall be included in the first annual report.	FRD	<ul style="list-style-type: none"> The FRD FHMIS Hazardous Materials Technical Support Branch will provide bi-annual MS4 training to Fire Prevention Division Inspectors and the Hazardous Materials Response Team. This training will include addressing spill prevention recommendations. This training shall be documented as part of the 1031 Fire Inspector training for the fire inspectors. There is also an MS4 training component for the Annual Hazmat First Responder Refresher Training requirements for all Fire Department Operational Personnel. 	March 31, 2016 ★	▶	▶	▶	▶	The annual report due October 1, 2016 shall include documentation of employee emergency spill response training and/or certification.	Fairfax County implements emergency spill response training for firefighters through the online Target Solutions system.							
									<table border="1"> <thead> <tr> <th>Training Provided</th> <th>Date</th> <th>Number of Individuals Trained</th> </tr> </thead> <tbody> <tr> <td>Hazardous Materials First Responder Operations (FRO)</td> <td>Training is provided online through Target Solutions, and trainings are completed throughout the fiscal year.</td> <td>1,586</td> </tr> </tbody> </table>	Training Provided	Date	Number of Individuals Trained	Hazardous Materials First Responder Operations (FRO)	Training is provided online through Target Solutions, and trainings are completed throughout the fiscal year.	1,586		
Training Provided	Date	Number of Individuals Trained															
Hazardous Materials First Responder Operations (FRO)	Training is provided online through Target Solutions, and trainings are completed throughout the fiscal year.	1,586															
B.2.k.9.	Documentation shall be kept of all training events including the training date, number of employees attending the training, and the objective of the training event for a period of three years after each training event. Additionally, all events shall be listed in the annual report for the year in which the training event occurred.	SWPD	Training documentation is kept on file by the appropriate office. A list of training events will be provided in the MS4 Annual Reports.	March 31, 2016 ★	▶	▶	▶	▶	See MS4 Action IDs B.2.k.1, B.2.k.2 and B.2.k.8	See MS4 Action IDs B.2.k.1, B.2.k.2 and B.2.k.8 See MS4 Action IDs B.2.k.1, B.2.k.2 and B.2.k.8							
B.2.I. Water Quality Screening Programs																	
B.2.I.	The following screening programs shall be implemented in addition to the monitoring required by Part I.C:																
B.2.I.1.	Dry Weather Screening Program: The permittee shall continue ongoing efforts to detect the presence of illicit connections and unauthorized discharges to the permittee's MS4.	SWPD	The county meets this requirement through implementation of the actions described below.														
B.2.I.1.a.	The permittee shall continue to implement a program of dry weather screening in areas of concern as identified by the permittee including but not limited to: commercial car washes, car dealerships, pet kennels, restaurants, areas with a history of complaints, and areas upstream of sensitive ecosystems. The permittee shall screen at a minimum, 100 of the county's MS4 outfalls each year.	SWPD	<ul style="list-style-type: none"> The county's Dry Weather Screening Program has three distinct field components: sample water flowing at outfalls, retesting of any outfalls that test positive for one or more analytes and tracking down of illicit discharges/ connections as necessary. Field screening begins after vegetation has started to die back and the outfalls are both visible and accessible. This also coincides with the time of year with the lowest average precipitation making it less likely that sampling will be prevented by a rain event. Sampling shall not take place if it has rained 0.1 inches or more in the past 48 hours. If any analyte exceeds program criteria the outfall must be retested for any of the analytes that were in exceedance within 48 hours. If a high concentration of an analyte is confirmed through retesting, the source of the discharge is tracked down by testing farther up the storm drain network. Discharges are sampled from upstream manholes in the storm drain network to narrow down the source of the discharge to a specific pipe segment between two manholes or the input source. After the source of an illicit discharge has been identified, the appropriate agency is contacted to address the discharge. 		▶	▶	▶	▶	▶	Each annual report shall include a list of locations upon which dry weather screening was conducted, the results and any follow-up actions including maintenance and/or repair of infrastructure or outfalls performed as a result of the dry weather screening.	During FY23, the county monitored 100 outfalls. See Appendix R9 for the Dry Weather Screening Program Report.						

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)			
B.2.1.1.b.	Criteria for selection of outfalls to be screened as required by Part I.B.2.1)1)(a) above shall include but is not limited to the following: (1) List of sites requiring further investigation, as previously identified; (2) Age and density of development with the likelihood of illicit connections such as older residential, commercial and industrial areas; (3) Outfalls representing the general land uses of Fairfax County; (4) Poorly maintained gas stations, service stations, and shopping centers; (5) Presence of environmentally sensitive features downstream; and (6) History of complaints received on illicit discharges.	SWPD	MS4 outfalls to be inspected are selected for sampling in part based on the presence of potential dry weather pollutant sources in their drainage area such as commercial car washes, car dealerships, pet kennels, restaurants, areas with a history of complaints, and areas upstream of sensitive ecosystems. Criteria for selection of outfalls to be screened include but are not limited to the following: 1. Outfalls identified in previous years dry weather screening and requiring further investigation; 2. Outfalls in older and more densely developed areas of the county where the likelihood of finding illicit connections is higher; 3. Outfalls with drainage areas that represent the general land uses of Fairfax County, primarily residential, with some commercial and industrial areas; 4. Outfalls with drainage areas that include gas stations, service stations, and shopping centers identified by the Industrial and High Risk Runoff (IHRR) program as being potential pollutant sources; 5. Outfalls upstream of environmentally sensitive features such as Huntley Meadows Park, stream valley parks, the Occoquan Reservoir, and resource protection areas (RPAs); and 6. Outfalls in areas with a history of complaints received on illicit discharges (referred from Illicit Discharge and Improper Disposal [IDID] program).	▶	▶	▶	▶	▶		
B.2.1.2.	Wet Weather Screening Program: In addition to the monitoring required in Part I.C., the permittee shall continue to investigate, and address areas within their jurisdiction that are suspected to be contributing excessive levels of pollutants to the MS4. No later than 12 months after the effective date of this permit, the permittee shall develop written procedures for a wet weather screening program which shall include standard operating procedure to be used for initial screening and follow-up purposes. The written procedures shall be incorporated as part of the MS4 Program Plan.	SWPD	The written wet weather screening procedures are provided in Appendix P12.	March 31, 2016 ★	▶	October 1, 2017 ★	▶	▶	<ul style="list-style-type: none"> No later than 12 months after the effective date of the state permit, the permittee shall submit to the Department the written procedures for wet weather screening. Beginning with the annual report due October 1, 2017, each annual report shall include a list of locations upon which wet weather screening was conducted, the results, weather conditions at the time sample was collected to include date and approximate time of most recent storm event preceding sample collection, long term trends analyses, and any follow-up actions including maintenance and/or repair of infrastructure or outfalls performed as a result of the wet weather screening. 	<ul style="list-style-type: none"> See Appendix R10 for the Wet Weather Screening Program Report.
B.2.m. Infrastructure Coordination										

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)
B.2.m.	<i>The permittee shall coordinate with the Virginia Department of Transportation (VDOT) regarding issues of MS4 physical-interconnectivity as described below:</i>	SWPD	The county meets this requirement through implementation of the actions described below.				
B.2.m.1.	<i>Annual Coordination Meeting – The permittee shall meet annually with VDOT 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.</i>	SWPD	Fairfax County will meet annually with VDOT as required.	▶	▶	▶	▶
B.2.m.2.	<i>Mapping – The permittee shall inform VDOT of the status of its mapping program, identifying any uncertainty regarding ownership or actual location of MS4 components associated with the physically-interconnected MS4s, and working to resolve such uncertainty. The permittee shall coordinate with VDOT to identify any areas within the permittee’s municipal boundaries that drain to the VDOT MS4.</i>	SWPD	<ul style="list-style-type: none"> At the annual meeting (MS4 Action ID B.2.m.1), VDOT will be informed of the status of the county’s mapping program. The county will work with VDOT to resolve ownership and location uncertainties. 	▶	▶	▶	▶
B.2.m.3.	<i>Chesapeake Bay TMDL Action Plans – The permittee shall inform VDOT of the means, methods, and schedule by which the permittee 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. The permittee shall coordinate with VDOT to identify any areas within the permittee’s municipal boundaries that drain to the VDOT MS4 and are unaccounted for in the Chesapeake Bay TMDL Action Plan developed by VDOT or the permittee. The unaccounted areas shall be quantified (acres) in the Chesapeake Bay TMDL Action Plan submitted by the permittee.</i>	SWPD	<ul style="list-style-type: none"> Upon completion, the county will provide a copy of the county’s Chesapeake Bay TMDL Action Plan to VDOT. Fairfax County will work with VDOT to identify areas that drain to the VDOT MS4 and are unaccounted for in the county’s Chesapeake Bay TMDL Action Plan. The county will provide the estimated acreage of these unaccounted areas in the county’s Chesapeake Bay TMDL Action Plan. 	▶	▶	▶	▶
B.2.m.4.	<i>Other TMDL Action Plans – The permittee shall inform VDOT 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.</i>	SWPD	Fairfax County will provide copies of the county’s non-Chesapeake Bay TMDL Action Plans to VDOT.	▶	▶	▶	▶
B.2.m.5.	<i>Credit for TMDL Implementation – Permit specific BMP retrofit requirements shall not be double-counted in the calculation of load reductions. If the permittee undertakes the project, the permittee shall be entitled to full credit for the project, but may share credit with VDOT on mutually agreeable terms, which shall be in writing.</i>	SWPD	The county will not count VDOT projects as credit for TMDL implementation unless mutually agreeable terms have been established in writing. Any agreements will be detailed in the county’s Chesapeake Bay TMDL Action Plan.	▶	▶	▶	▶

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)			
B.2.m.6.	<i>Illicit Discharge Detection & Elimination – The permittee shall continue to be responsible for implementing a program for illicit discharge detection and elimination, including dry weather field screening, for the permittee’s portion of the physically-interconnected MS4. As part of the annual coordination meeting, described in item (1) above, the permittee shall coordinate with VDOT on the identification of high risk industrial facilities. The permittee shall establish procedures for notifying VDOT when an illicit discharge is identified in the VDOT MS4.</i>	SWPD	<ul style="list-style-type: none"> VDOT will be notified of any identified illicit discharges from their MS4 per the Dry Weather Screening Protocol. At the annual meeting (see MS4 Action ID B.2.m.1), the county will coordinate with VDOT on the identification of high risk industrial facilities. 	▶	▶	▶	▶	▶	See MS4 Action ID B.2.m.8	See MS4 Action ID B.2.m.8
B.2.m.7.	<i>Water Quality Monitoring – The permittee shall conduct water quality monitoring as required by Part I.B.2.i) and Part I.C of this state permit. The permittee shall make available to VDOT all monitoring data collected from areas where the physically-interconnected MS4 discharges to the VDOT MS4 or received flow from the VDOT MS4. The permittee and VDOT are encouraged to cooperate with one another to establish a joint monitoring network.</i>	SWPD	The county will provide monitoring data collected from areas impacted by VDOT discharges through web links and Annual Report results.	▶	▶	▶	▶	▶	See MS4 Action ID B.2.m.8	See MS4 Action ID B.2.m.8
B.2.m.8.	<i>Annual Reports – As part of its Annual Report, the permittee shall document any coordination efforts with VDOT that occurred during the reporting year pursuant to requirements (1) through (7) above.</i>	SWPD	The county will document the required coordination efforts with VDOT in Annual Reports.	▶	▶	▶	▶	▶	As part of its Annual Report, the permittee shall document any coordination efforts with VDOT that occurred during the reporting year pursuant to requirements of Part I.B.2)m)(1) through (7).	See Appendix R11 for summaries of the meeting held by the county with VDOT on May 12, 2023
C. MONITORING REQUIREMENTS										
C.1. Biological Stream Monitoring										
C.1.	<i>The permittee shall continue to implement a biological stream monitoring program to evaluate the condition of select stream sites within Fairfax County as follows:</i>	SWPD	The county meets this requirement through implementation of the actions described below.							
C.1.a.	<i>Five (5) stream sites within Fairfax County shall be selected for monitoring during the term of this permit.</i>	SWPD	The selected sites and procedures are provided in Appendix P13.		October 1, 2016 ★				<i>The annual report due October 1, 2016 shall include the list of sites to be monitored during the term of the state permit and monitoring protocols.</i>	
C.1.b.	<i>Monitoring shall be conducted twice per year with one sample collected between July 1st and December 31st and one sample collected between January 1st and June 30th each year at each selected stream site.</i>	SWPD	Monitoring will take place twice per year at each of the five sites beginning in FY 2017. One monitoring event will take place between July 1 and December 31 and one monitoring event will take place between January 1 and June 30.		July, 1 2016 ★	▶	▶	▶	<i>Beginning with the annual report due October 1, 2017, each annual report shall include a summary of the monitoring results and analyses and an interpretation of that data with respect to long-term patterns/trends.</i>	See Appendix R12 for a summary of the biological stream monitoring results.

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)
C.1.c.	The permittee shall use a biological stream monitoring approach based on the "USEPA's Rapid Bioassessment Protocols for Use in Streams and Wadeable Rivers" or other method approved by the Department, and shall include an assessment of the benthic macroinvertebrate community and habitat assessment.	SWPD	The biological monitoring approach will be based on the "USEPA's Rapid Bioassessment Protocols for Use in Streams and Wadeable Rivers".				
C.2. In-Stream Monitoring							
C.2.	The permittee shall continue to implement an in-stream monitoring program to evaluate the condition of select streams within Fairfax County as follows:	SWPD	The county meets this requirement through implementation of the actions described below.				
C.2.a.	Five (5) stream sites within Fairfax County shall be selected for monitoring during the term of this permit.	SWPD	The selected sites and procedures are provided in Appendix P14.	October 1, 2016 ★	▶	▶	The annual report due October 1, 2016 shall include the list of sites to be monitored during the term of the state permit and monitoring protocols.
C.2.b.	Monitoring shall be conducted once per two months between January 1st and December 31st at each monitoring location.	SWPD	<ul style="list-style-type: none"> Fairfax County will continue its in-stream monitoring to evaluate the condition of select stream sites within the county. Monitoring will take place once per two months between January 1 and December 31 beginning in FY 2017. 	July, 1 2016 ★	▶	▶	Beginning with the annual report due October 1, 2017, each annual report shall include a summary of the monitoring results and analyses and an interpretation of that data with respect to long-term patterns/trends.
C.2.c.	Monitoring shall be performed for the following parameters: 1) pH 2) Dissolved Oxygen 3) Temperature 4) Total Suspended Solids 5) Ammonia as Nitrogen 6) Nitrate plus Nitrite Nitrogen 7) Total Kjeldahl Nitrogen 8) Total Nitrogen (calculated) 9) Dissolved Phosphorus 10) Total Phosphorus 11) Escherichia coli	SWPD	The monitoring program measures the parameters specified in the permit – see Appendix P14.				
C.2.d.	Monitoring for the parameters listed in Part I.C.2.c) shall be in accordance with Part II.A of this state permit.	SWPD	Monitoring is conducted in accordance with Part II.A of the permit – see Appendix P14.				See Appendix R13 for a summary of the in-stream monitoring results.

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)
C.2.e.	The permittee may replace a sampling location with a new proposed location after 15 samples are collected and analyzed. Written notification of the monitoring plan revisions shall be given to the Department in writing and shall include a statistical analysis of the monitoring results, conclusions regarding the data, the proposed new monitoring location, and the reasoning for site location choice.	SWPD	Fairfax County will follow the procedures specified in the permit if it proposes to replace a sampling location.				<ul style="list-style-type: none"> In 2023, the Long Branch monitoring location was relocated to a spot approximately ¼ mile upstream (north of Braddock Road). The change was necessary because of planned road construction that would impact sampling at the original location. This SOP is in the process of being updated and approved. The update will be included in the FY2024 Annual Report. See Appendix P13 Instream Monitoring for statistical analysis of the monitoring results, conclusions regarding the data, the proposed new monitoring location. The reasoning for the site location choice is listed above, and included in Appendix P13 Instream Monitoring.
C.3. Floatables Monitoring							
C.3.	No later than 24 months after the effective date of the permit, the permittee shall develop and implement a floatables monitoring program. The intent of the monitoring program is to determine the loading of floatables from the MS4 to streams within Fairfax County. The permittee will implement the floatables monitoring program as follows:	SWPD	Fairfax County developed and implemented a floatables monitoring program by March 31, 2017.	March 31, 2017 ★	▶ ▶ ▶		
C.3.a.	Monitoring shall be conducted at five (5) monitoring sites located at MS4 outfalls and/or streams receiving discharges from the MS4.	SWPD	Monitoring sites were selected to allow determination of the loading of floatables from the MS4 to streams within Fairfax County.	October 1, 2016 ★	▶ ▶ ▶	The annual report due October 1, 2016 shall include an update on the development of the floatables monitoring program.	
C.3.b.	Monitoring shall be conducted once per quarter after program implementation.	SWPD	Floatables monitoring is to be conducted once per quarter in accordance with the protocols provided in Appendix P15.		October 1, 2017 ★	▶ ▶	The annual report due October 1, 2017 shall include the monitoring protocols for the floatables monitoring program. See Appendix P15 for the monitoring protocols for the floatables monitoring program.
C.3.c.	The monitoring program shall include the count of floatables visually observed and length or area of sites assessed.	SWPD	Floatables monitoring includes the count of floatables visually observed and the length or area of sites assessed.			October 1, 2018 ★	▶ Beginning with the annual report due October 1, 2018, each following annual report shall include a list of sites monitored, a summary of the monitoring protocols used, and a summary of the monitoring results and analyses. See Appendix R14 for a summary of the floatables monitoring results and the list of sites.

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)
	C.4. Structural and Source Controls Compliance Monitoring and Tracking						
C.4.a-a.	<p>The permittee shall maintain an updated electronic database of all known permittee and privately maintained stormwater management (SWM) facilities. The database shall include the following:</p> <ol style="list-style-type: none"> 1) The SWM facility type, address, and latitude and longitude (in decimal degrees); 2) The total pervious and impervious acres treated; 3) The date brought online (MMYYYY). If the date is unknown, the permittee shall use June 2005 as the date brought online for all previously existing SWM facilities; 4) The hydrologic unit code (HUC 6) in which the SWM facility is located; 5) The name of any impaired water segments within each HUC listed on the most recent 305(b)/303(d) Water Quality Assessment Integrated Report to which the SWM facility discharges; 6) Whether the SWM facility is permittee or privately maintained; 7) Whether the SWM facility discharges into the permittee's MS4; 8) Whether a maintenance agreement exists if the SWM is privately maintained; and 9) The date of last inspection by permittee authorities. <p>All known SWM facilities brought online during each reporting year shall be submitted with the appropriate annual report as an electronic file in one of the following formats: shapefile, geodatabase, .xls, .xlsx, .csv, .mdx, .dbf, delimited text, XML, or other file approved by the Department.</p>	MSMD	<ul style="list-style-type: none"> The county uses a combination of ArcGIS and a proprietary asset management system to maintain its stormwater facility inventory. The county asset management system (Infor-EAM) and GIS has been updated to include all of the required tracking metrics listed in the permit requirement (1-9). The county will provide a list of SWM facilities brought online each reporting year (July 1 – June 30). Facilities that provide solely peak flow control will not be included in the report in accordance with Part I.C.4.b) of the permit. 			<ul style="list-style-type: none"> Each annual report shall include a summary of the program to ensure maintenance of private stormwater management facilities. Each annual report shall include a summary of the program to ensure maintenance of stormwater management facilities maintained by the permittee. Beginning with the annual report due October 1, 2016, each annual report shall include a copy of the updated database in electronic format. 	<ul style="list-style-type: none"> See MS4 Action ID B.2.h.2.a.2. for a summary of the program to ensure maintenance of private stormwater management facilities. See MS4 Action ID B.2.h.1.b. for a summary of the program to ensure maintenance of stormwater management facilities maintained by the county. See Appendix R15 for a copy of the updated database that contains the list of SWM facilities brought online during FY 20232. Facilities that provide solely peak flow control will not be included in the report in accordance with Part I.C.4.b) of the MS4 permit.

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)						
C.4.a-b.	No later than 36-months of the effective date of this state permit, the list shall be updated to include the required information for SWM facilities known to exist prior to the effective date of this state permit. The updated information shall be submitted with the fourth annual report.	MSMD	The county will update the list to include facilities known to exist prior to April 1, 2015 by March 31, 2018.		March 31, 2018 ★	The annual report due October 1, 2019 shall include an updated list of stormwater management facilities existing prior to the effective date of this permit.	<ul style="list-style-type: none"> Section C.4 of the permit (Structural and Source Controls Compliance Monitoring and Tracking) specifies data elements and other requirements for tracking stormwater management facilities in an electronic database. In addition to maintaining an electronic database, the County is required to include an updated list of stormwater management facilities existing prior to the effective date of this permit. Fairfax County maintains a database inventory of stormwater management facilities on a regular basis, adding new facilities brought online and updating facility inspection data. County staff coordinate annually with DEQ's NPS Modeling & Data Coordinator (William Keeling) to submit the most up-to-date information on the county's inventory (historic through annual reporting year) of stormwater management facilities to DEQ's online BMP Warehouse (https://apps.deq.virginia.gov/BMP/). Please note that the BMP warehouse did not exist when the county's MS4 permit was written but the County has complied with DEQ requests to submit the requested information electronically via the warehouse. On August 28, 2018, DEQ's NPS Modeling & Data Coordinator confirmed via email that the County submitted the updated inventory of Stormwater Management Facilities (5,020 facilities), including those existing prior to April 1, 2015 (permit effective date). 						
C.4.b.	Facilities that solely provide peak flow control as required by the Fairfax County Code are excluded from the requirements of this section. Inspection and maintenance requirements for these facilities shall be in accordance with all applicable state and local ordinances, regulations, and statutes.	MSMD	The county conducts inspections and maintenance of peak flow control facilities in accordance with the written protocols described in MS4 Action ID B.2.h.1.a. of this Program Plan.										
D. TMDL ACTION PLAN AND IMPLEMENTATION													
D.1. Chesapeake Bay Special Condition													
D.1.b.1.	No later than 24-months after the effective date of this state permit, the permittee shall develop and submit to the Department for its review and acceptance an approvable phased Chesapeake Bay TMDL Action Plan	SWPD	<ul style="list-style-type: none"> The Chesapeake Bay TMDL Action Plan was submitted to DEQ on March 31, 2017. The Chesapeake Bay TMDL Action Plan became effective and enforceable on August 15, 2017, when DEQ approved the plan. 	March 31, 2017 ★	▶ ▶ ▶	In accordance with Part I D.1.b)1), the permittee shall submit the Chesapeake Bay TMDL Action Plan no later than 24 months after the permit effective date.	Fairfax County's Draft Chesapeake Bay TMDL Action Plan was made available for public comment in December 2016, the final plan was submitted to DEQ on March 31, 2017, and DEQ approved the plan on August 15, 2017. It is available on the county website at: https://www.fairfaxcounty.gov/publicworks/sites/publicworks/files/assets/documents/pdf/reports/ms4/chesapeake-bay-tmdl.pdf						
D.1.d.2.	Beginning with the annual report due October 1, 2017, each annual report shall include a list of control measures implemented during the reporting period and the cumulative progress toward meeting the compliance targets for total nitrogen, phosphorus, and total suspended solids.	SWPD	Beginning with the annual report due October 1, 2017, each annual report will include a list of control measures implemented during the reporting period and the cumulative progress toward meeting the compliance targets for total nitrogen, phosphorus, and total suspended solids.		October 1, 2017 ★	▶ ▶	<p>Beginning with the annual report due October 1, 2017, each annual report shall include a list of control measures implemented during the reporting period and the cumulative progress toward meeting the compliance targets for total nitrogen, phosphorus, and total suspended solids.</p> <table border="1"> <thead> <tr> <th>TN (lbs/year)</th> <th>TP (lbs/year)</th> <th>TSS (lbs/year)</th> </tr> </thead> <tbody> <tr> <td>78,678.66</td> <td>18,397.07</td> <td>6,222,784.09</td> </tr> </tbody> </table> <p>See Appendix R16 for a summary of control measures implemented during the reporting period and the cumulative progress toward meeting the compliance targets for total nitrogen, phosphorus, and total suspended solids.</p>	TN (lbs/year)	TP (lbs/year)	TSS (lbs/year)	78,678.66	18,397.07	6,222,784.09
TN (lbs/year)	TP (lbs/year)	TSS (lbs/year)											
78,678.66	18,397.07	6,222,784.09											

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)	
D.1.d.3.	Beginning with the annual report due October 1, 2017, each annual report shall include a list of control measures that were implemented during the reporting cycle and the estimated reduction achieved by the control. For stormwater management controls, the report shall include the information required in Part I.C.4.a) and shall include whether an existing stormwater management control was retrofitted, and if so, the existing stormwater management control type retrofit used.	SWPD	Beginning with the annual report due October 1, 2017, each annual report will include a list of control measures that were implemented during the reporting cycle and the estimated reduction achieved by the control. For stormwater management controls, the report shall include the information required in Part I.C.4.a) and shall include whether an existing stormwater management control was retrofitted, and if so, the existing stormwater management control type retrofit used.		October 1, 2017 ★	▶ ▶	Beginning with the annual report due October 1, 2017, each annual report shall include a list of control measures that were implemented during the reporting cycle and the estimated reduction achieved by the control. For stormwater management controls, the report shall include the information required in Part I.C.4.a) and shall include whether an existing stormwater management control was retrofitted, and if so, the existing stormwater management control type retrofit used.	See Appendix R16 for a summary of control measures implemented during the reporting period and the estimated reduction achieved by each control.
D.1.d.4.	Beginning with the annual report due October 1, 2017, each annual report shall include a list of control measures that are expected to be implemented during the next reporting period and the expected progress toward meeting the compliance targets for total nitrogen, total phosphorus, and total suspended solids.	SWPD	Beginning with the annual report due October 1, 2017, each annual report will include a list of control measures that are expected to be implemented during the next reporting period and the expected progress toward meeting the compliance targets for total nitrogen, total phosphorus, and total suspended solids.		October 1, 2017 ★	▶ ▶	Beginning with the annual report due October 1, 2017, each annual report shall include a list of control measures that are expected to be implemented during the next reporting period and the expected progress toward meeting the compliance targets for total nitrogen, total phosphorus, and total suspended solids.	<ul style="list-style-type: none"> As reported in the 2017 Annual Report, Fairfax County has completed the control measures in the approved TMDL Action Plan which were over and above the 5% reduction requirement. The County will continue to report additional implemented projects annually. Appendix R16 contains a summary of control measures that are expected to be implemented during the next reporting period and the expected progress toward meeting the compliance targets for total nitrogen, total phosphorus, and total suspended solids.
D.2. TMDL Action Plans other than the Chesapeake Bay TMDL								
D.2.a.1.	No later than 24 months after the effective date of this state permit, the permittee shall submit to the Department TMDL Action Plans to address any new or modified requirements established under this Special Condition for pollutants identified in TMDL wasteload allocations approved prior to the effective date of this state permit.	SWPD	<ul style="list-style-type: none"> TMDL Action Plans other than the Chesapeake Bay TMDL Action Plan were submitted to DEQ on March 31, 2017. The TMDL Action Plans will become effective and enforceable upon written approval from DEQ. 		March 31, 2017 ★	▶ ▶ ▶	No later than 24 months after the effective date of this state permit, the permittee shall submit to the Department TMDL Action Plans to address any new or modified requirements established under this Special Condition for pollutants identified in TMDL wasteload allocations approved prior to the effective date of this state permit.	Fairfax County's TMDL Action Plans other than the Chesapeake Bay TMDL were submitted to DEQ on March 31, 2017.
D.2. f.2	Beginning with the annual report due October 1, 2017, the permittee shall report on the implementation of the TMDL Action Plans and associated evaluation including the results of any monitoring conducted as part of the evaluation.	SWPD	Beginning with the annual report due October 1, 2017, each annual report will include an update on the implementation of the TMDL Action Plans and associated evaluation including the results of any monitoring conducted as part of the evaluation.		October 1, 2017 ★	▶ ▶	Beginning with the annual report due October 1, 2017, the permittee shall report on the implementation of the TMDL Action Plans and associated evaluation including the results of any monitoring conducted as part of the evaluation.	See Appendix R17 for a summary of the implementation of the TMDL Action Plans.

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)														
E. ANNUAL REPORTING																					
E.1	<i>The permittee shall submit the annual report to the Department, in accordance with the following schedule:</i> <table border="1"> <tr> <td><i>Reporting Period</i></td> <td><i>Annual Report</i></td> </tr> <tr> <td><i>April 1, 2015 through June 30, 2015</i></td> <td><i>October 1, 2015</i></td> </tr> <tr> <td><i>July 1, 2015 through June 30, 2016</i></td> <td><i>October 1, 2016</i></td> </tr> <tr> <td><i>July 1, 2016 through June 30, 2017</i></td> <td><i>October 1, 2017</i></td> </tr> <tr> <td><i>July 1, 2017 through June 30, 2018</i></td> <td><i>October 1, 2018</i></td> </tr> <tr> <td><i>July 1, 2018 through June 30, 2019</i></td> <td><i>October 1, 2019</i></td> </tr> <tr> <td><i>July 1, 2019 through June 30, 2020</i></td> <td><i>October 1, 2020</i></td> </tr> </table>	<i>Reporting Period</i>	<i>Annual Report</i>	<i>April 1, 2015 through June 30, 2015</i>	<i>October 1, 2015</i>	<i>July 1, 2015 through June 30, 2016</i>	<i>October 1, 2016</i>	<i>July 1, 2016 through June 30, 2017</i>	<i>October 1, 2017</i>	<i>July 1, 2017 through June 30, 2018</i>	<i>October 1, 2018</i>	<i>July 1, 2018 through June 30, 2019</i>	<i>October 1, 2019</i>	<i>July 1, 2019 through June 30, 2020</i>	<i>October 1, 2020</i>	SWPD	The annual reports will be submitted in accordance with the schedule laid out in the permit.				
<i>Reporting Period</i>	<i>Annual Report</i>																				
<i>April 1, 2015 through June 30, 2015</i>	<i>October 1, 2015</i>																				
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<i>July 1, 2019 through June 30, 2020</i>	<i>October 1, 2020</i>																				
E.2.a.	<i>Each annual report shall include the following</i> a) <i>Background Information:</i> 1) <i>The permittee and permit number of the program submitting the annual report;</i> 2) <i>Any modifications to the MS4 Program Plan as a result of the annual report including a summary of progress toward development and update of MS4 Program Plan components as required by Part I.A.6.;</i> 3) <i>The reporting dates for which the annual report is being submitted; and</i> 4) <i>Certification as per Part II.K.</i>	SWPD	All annual reports will include the required background information.			<i>Each annual report shall include the required background information.</i>	<ul style="list-style-type: none"> This annual report is being submitted by Fairfax County, Virginia in accordance with VSMP Permit No. VA0088587. See MS4 Action ID A.7 for a summary of modifications to the MS4 Program Plan. This annual report covers July 1, 2022, through June 30, 2023. The certification required per Part II.K of the permit is contained in the cover letter accompanying this report. 														
E.2.b.	<i>A summary of progress toward development of new MS4 Program components developed in accordance with the due dates as specified in the permit;</i>	SWPD	The annual reports will include a summary of progress toward development of new MS4 Program components.																		
E.2.c.	<i>A summary of the components implemented under the MS4 Program Plan and an evaluation of the effectiveness of each component. The permittee should attempt to limit any component's narrative summary to no longer than two-pages plus any necessary tables and figures;</i>	SWPD	The annual reports will include a summary of components implemented and an evaluation of the effectiveness of each component.			<i>Each annual report shall include a summary of components implemented and an evaluation of the effectiveness of each component.</i>	<ul style="list-style-type: none"> Evaluation of program elements for effectiveness is a continuous process as implementation occurs. Staff meets on an annual basis to review and discuss the MS4 program. No significant changes in program approach or structure occurred during this reporting period. To see how the County has evaluated effectiveness for each permit element, see Appendix R18 for more detail. 														
E.2.d.	<i>A summary report of the monitoring programs listed under Part I.C.;</i>	SWPD	The annual reports will include a summary of the monitoring programs listed under Part I.C.			<i>Each annual report shall include a summary report of the monitoring programs listed under Part I.C.</i>	See MS4 Action IDs C.1-4 for a summary of the monitoring programs listed under Part I.C. of the permit.														
E.2.e.	<i>A summary of the implementation of each component listed under Part I.D.;</i>	SWPD	The annual reports will include a summary of the implementation of components under Part I.D.			<i>Each annual report shall include a summary of the implementation of each component listed under Part I.D.</i>	See MS4 Action IDs D.1.d.1-4., D.2.a.1. and D.2.f.2. for a summary of the implementation of each component listed under Part I.D. of the permit.														

MS4 Action ID	Permit Requirement	Responsible Party	2023 Program Plan Elements (July 1, 2022 through June 30, 2023)	Due Date	Annual Timeline	Specific Reporting Requirement	2023 Annual Report (July 1, 2022 through June 30, 2023)			
E.2.f.	<i>The Specific Reporting Requirements identified in this state permit.</i>	SWPD	The annual reports will include the Specific Reporting Requirements.	▶	▶	▶	▶	▶	<i>Each annual report shall include the Specific Reporting Requirements identified in this state permit.</i>	The Specific Reporting Requirements identified in the permit are contained in the Specific Reporting Requirement column of this table.