



**Northern Virginia
Community College**

September 30, 2021

Ms. Anna M. Tuthill
Virginia Department of Environmental Quality
Northern Regional Office
13901 Crown Court
Woodbridge, VA 22193

Re: NOVA's MS4 2020-2021 Annual Report
General Permit No. VAR040095

Dear Ms. Tuthill:

Attached is NOVA's MS4 Annual Report for the period of July 1, 2020 through June 30, 2021.

If you have any questions or need any additional information, please contact me.

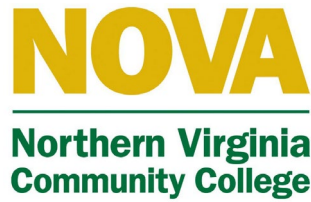
Sincerely,

David C. Trimble, P.G.
Manager, Environmental Services
Northern Virginia Community College

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Alexandria, Annandale,
Loudoun & Woodbridge Campuses

Municipal Separate Storm Sewer System Annual Report

For

General Permit No. VAR040095

Permit Year

July 1, 2020 through June 30, 2021

This annual report is submitted in accordance with 9VAC25-890-40 as part of the requirement for permit coverage to discharge stormwater to surface waters of the Commonwealth of Virginia consistent with the VAR04 General Permit effective per letter dated November 1, 2018.

Submitted: September 30, 2021

TABLE OF CONTENTS

1.0 GENERAL ANNUAL REPORTING REQUIREMENTS.....	1
1.1. General Information (Part I.D.2.a)	1
1.2. Reporting Period (Part I.D.2.b)	1
1.3. Signed Certification (Part I.D.2.c)	1
1.4. Reporting for MCMs #1 - #6 (Part I.D.2.d)	1
1.5. Evaluation of the MS4 Program Implementation (Part I.D.2.e)	2
2.0 MINIMUM CONTROL MEASURES	3
2.1. MCM #1: Public Education and Outreach	3
2.1.1. High Priority Stormwater Issues (Part I.E.1.g(1))	3
2.1.2. High Priority Stormwater Issue Communication Strategies (Part I.E. 1.g(2))	3
2.1.3. MCM #1 Evaluation (Part I.D.2.e)	3
2.2. MCM #2: Public Involvement and Participation	4
2.2.1. Public Input Summary (Part I.E.2.f(1))	4
2.2.2. MS4 Program Webpage (Part I.E.2.f(2)).....	4
2.2.3. Public Involvement Activities Implemented (Part I.E.2.f(3))	4
2.2.4. Public Involvement Activity Metric and Evaluation (Part I.E.2.f(4))	4
2.2.5. MS4 Collaboration (Part I.E.2.f(5)).....	5
2.2.6. MS4 Program Plan BMP Measurable Goals	5
2.2.7. MCM #2 Evaluation (Part I.D.2.e)	6
2.3. MCM #3: Illicit Discharge Detection and Elimination.....	7
2.3.1. MS4 Map and Information Table (Part I.E.3.e(1)).....	7
2.3.2. Dry Weather Screening (Part I.E.3.e(2))	7
2.3.3. Illicit Discharges (Part I.E.3.e(3)).....	7
2.3.4. MS4 Program Plan BMP Measurable Goals	8
2.3.5. MCM #3 Evaluation (Part I.D.2.e)	8
2.4. MCM #4: Construction Site Stormwater Runoff Control.....	9
2.4.1. Implementation of Standards and Specifications (Part I.E.4.a(3))	9
2.4.1.1. Conforming Land Disturbance Projects (Part I.E.4.d(1)(a)).....	9
2.4.1.2. Non-Conforming Land Disturbance Projects (Part I.E.4.d(1)(b))	9
2.4.2. Site Stormwater Runoff Inspections (Part I.E.4.d(2))	9
2.4.3. Enforcement Actions (Part I.E.4.d(3)).....	10
2.4.4. MCM #4 Evaluation (Part I.D.2.e)	10
2.5. MCM #5: Post-Construction Stormwater Management.....	11
2.5.1. Implementation of Standards and Specifications (Part I.E.5.a(3))	11
2.5.2. Stormwater Management Facility Inspections (Part I.E.5.i(2)).....	11
2.5.3. Stormwater Management Facility Maintenance (Part I.E.5.i(3))	11
2.5.4. Virginia Construction Stormwater General Permit Database (Part I.E.5.i(4))	12
2.5.5. DEQ BMP Warehouse (Part I.E.5.i(5)).....	12

2.5.6. MS4 Program Plan BMP Measurable Goals	13
2.5.7. MCM #5 Evaluation (Part I.D.2.e)	13
2.6. MCM #6: Pollution Prevention and Good Housekeeping	14
2.6.1. Operational Procedures (Part I.E.6.q(1))	14
2.6.2. Newly Developed SWPPPs (Part I.E.6.q(2)).....	14
2.6.3. Modified or Delisted SWPPPs (Part I.E.6.q(3))	14
2.6.4. Newly Developed Nutrient Management Plans (Part I.E.6.q(4)).....	15
2.6.4.1. Nutrient Management Plan Acreage (Part I.E.6.q(4)(a)).....	15
2.6.4.2. Nutrient Management Plan Approval Date (Part I.E.6.q(4)(b))	15
2.6.5. Training Events (Part I.E.6.q(5))	16
2.6.5.1. Training Dates (Part I.E.6.q(5)(a)).....	16
2.6.5.2. Quantity Trained (Part I.E.6.q(5)(b)).....	16
2.6.5.3. Training Objective (Part I.E.6.q(5)(c))	16
2.6.6. MS4 Program Plan BMP Measurable Goals	17
2.6.7. MCM #6 Evaluation (Part I.D.2.e)	18
3.0 TMDL SPECIAL CONDITIONS.....	19
3.1. Chesapeake Bay TMDL Action Plan	19
3.1.1. BMPs Implemented and Estimated POC Reductions (Part II.A.13.a)	19
3.1.2. Nutrient Credits (Part II.A.13.b).....	19
3.1.3. POC Cumulative Reduction Progress (Part II.A.13.c)	20
3.1.4. Next Reporting Period Planned BMPs (Part II.A.13.d).....	21
3.1.5. Chesapeake Bay TMDL Action Plan Measurable Goals	21
3.1.6. Chesapeake Bay TMDL Action Plan Implementation Evaluation (Part I.D.2.e).....	21
3.2. Local TMDL Action Plans.....	22
3.2.1. Neabsco Creek Watershed Bacteria TMDL Implementation (Part II.B.9)	22
3.2.2. Accotink Creek Watershed Sediment TMDL Implementation (Part II.B.9).....	23
3.2.3. Accotink Creek Watershed Chloride TMDL Implementation (Part II.B.9).....	25

APPENDICES

Appendix A: Documentation of Public Education and Outreach Activities

Appendix B: Documentation of Public Involvement Activities

TABLES

Table 1: Summary of MS4 Program Plan Changes	2
Table 2: High Priority Stormwater Issues.....	3
Table 3: Public Involvement Activities Implemented	5
Table 4: MS4 Program Plan BMP Measurable Goals for MCM #2.....	5
Table 5: Illicit Discharges	7
Table 6: MS4 Program Plan BMP Measurable Goals for MCM #3.....	8
Table 7: Project(s) Not in Conformance with Approved Standards and Specifications.....	9
Table 8: Construction Project(s)	10
Table 9: Maintenance Activities Performed on Stormwater Management Facilities	11
Table 10: MS4 Program Plan BMP Measurable Goals for MCM #5.....	13
Table 11: Good Housekeeping Operational Procedures Developed or Modified	14
Table 12: New SWPPPs Developed	14
Table 13: SWPPPs Modified or Delisted.....	15
Table 14: New Turf and Landscape Nutrient Management Plans	15
Table 15: Training Events.....	16
Table 16: MS4 Program Plan BMP Measurable Goals for MCM #6.....	17
Table 17: Chesapeake Bay TMDL Action Plan POC Reductions.....	19
Table 18: 2019 – 2023 Chesapeake Bay TMDL Action Plan Implementation Schedule	20
Table 19: Chesapeake Bay TMDL Action Plan BMPs Planned for next reporting year	21
Table 20: Chesapeake Bay TMDL Action Plan Measurable Goals	21
Table 21: Neabsco Creek Watershed Bacteria TMDL Action Plan Summary of Actions	22
Table 22: Accotink Creek Watershed Sediment TMDL Action Plan Summary of Actions	23
Table 23: Accotink Creek Watershed Chloride TMDL Action Plan Summary of Actions	25

ACRONYMS

BMP	Best Management Practices
DEQ	Virginia Department of Environmental Quality
IDDE	Illicit Discharge Detection and Elimination
MCM	Minimum Control Measure
MS4	Municipal Separate Storm Sewer System
POC	Pollutants of Concern
SWPPP	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load
VPDES	Virginia Pollution Discharge Elimination System
WLA	Wasteload Allocation

1.0 GENERAL ANNUAL REPORTING REQUIREMENTS

1.1. General Information (Part I.D.2.a)

Permittee Name: Northern Virginia Community College

System Name: Virginia Community College System

Permit Number: VAR040095

1.2. Reporting Period (Part I.D.2.b)

The reporting period for which the annual report is being submitted:

July 1, 2020 through June 30, 2021

1.3. Signed Certification (Part I.D.2.c)

A signed certification as per Part III K:

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

Printed Name: Steven M. Patterson

Title: Chief Facilities Officer

Signature:  Date: 9-30-2021

1.4. Reporting for MCMs #1 - #6 (Part I.D.2.d)

Include information for each annual reporting item specified in Part I.E:

Reporting information for each Minimum Control Measure is provided in Section 2.0.

1.5. Evaluation of the MS4 Program Implementation (Part I.D.2.e)

An evaluation of the MS4 program implementation, including a review of each MCM to determine the MS4 program’s effectiveness and whether changes to the MS4 Program Plan are necessary:

An evaluation for each Minimum Control Measure is provided in Section 2.0. Changes that are necessary to be made to the MS4 Program Plan are summarized in Table 1.

Table 1: Summary of MS4 Program Plan Changes

No changes required.

2.0 MINIMUM CONTROL MEASURES

2.1. MCM #1: Public Education and Outreach

2.1.1. High Priority Stormwater Issues (Part I.E.1.g(1))

A list of high-priority stormwater issues addressed in the public education and outreach program:

A list of high-priority stormwater issues addressed in public education and outreach program is provided in Table 2.

2.1.2. High Priority Stormwater Issue Communication Strategies (Part I.E. 1.g(2))

A list of strategies used to communicate each high-priority stormwater issue:

A list of strategies used to communicate each high-priority stormwater issue is provided in Table 2. Appendix A includes documentation of the communication efforts described in Table 2.

Table 2: High Priority Stormwater Issues					
#	Stormwater Issue	Strategy	Communication	Metric	Beneficial
1	Public education on stormwater runoff	Signage	Permanent signs installed at bioretention facilities on the Loudoun campus	2 signs	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	TMDLs and Local Impaired Waters	Speaking Engagement	Presentation to NOVA Environmental Committee	12 Participants	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Pollution Prevention	Traditional Written Materials	Parking Lot Pollutant Flyer posted on bulletin boards on the Alexandria campus	50 flyers	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

2.1.3. MCM #1 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS4 Program’s effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #1 measurable goals completed in accordance with the MS4 Program Plan?
 Yes No ()

Are the MS4 Program measurable goals effective?
 Yes (Effective) No (Ineffective, necessary changes to the MS4 Program are included in Section 1.5.)

2.2. MCM #2: Public Involvement and Participation

2.2.1. Public Input Summary (Part I.E.2.f(1))

A summary of any public input on the MS4 program received (including stormwater complaints) and responses:

Were any MS4 Program inputs or stormwater complaints received from the public?

Yes No

If yes, were responses provided? Yes No

2.2.2. MS4 Program Webpage (Part I.E.2.f(2))

A webpage address to the MS4 program and stormwater website:

The webpage address is <https://www.nvcc.edu/stormwater/>

2.2.3. Public Involvement Activities Implemented (Part I.E.2.f(3))

A description of the public involvement activities implemented:

A description of the implemented public involvement activities is provided in Table 3.

2.2.4. Public Involvement Activity Metric and Evaluation (Part I.E.2.f(4))

A report of the metric as defined for each activity and an evaluation as to whether or not the activity is beneficial to improving water quality:

A report of the metric as defined for each activity and an evaluation as to whether or not the activity is beneficial to improving water quality is provided in Table 3. Appendix B includes documentation of the public involvement activities.

Table 3: Public Involvement Activities Implemented					
#	Activity Description/Date	Category	Metric	Collaboration	Beneficial
1	Stormwater Certification Class for Students 4/20/21	Educational	1 participant	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Fall Green Festival 10/8/20	Educational	Approx. 150 students, faculty & staff	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Spring Green Festival 3/24/20	Educational	Approx. 120 students, faculty & staff	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4	Storm Drain Marking 6/25/2021	Pollution Prevention	97 drain inlets, 6 participants	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

2.2.5. MS4 Collaboration (Part I.E.2.f(5))

The name of other MS4 permittees collaborated with in the public involvement opportunities:

If applicable, the name of other MS4 permittees collaborated with for any of the public involvement opportunities are provided in Table 3.

2.2.6. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 4.

Table 4: MS4 Program Plan BMP Measurable Goals for MCM #2		
BMP	Measurable Goal	Completeness Status
2.1	Was documentation of the public input or complaints on the MS4 program and MS4 Program Plan maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable
2.1	Is the effective MS4 permit and coverage letter on the webpage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2.1	Is the most current MS4 Program Plan on the webpage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2.1	Is the annual report for each year of the term covered by this permit no later than 30 days after submittal to the department on the webpage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable (First permit year)

2.1	Is there a mechanism for the public to report potential illicit discharges, improper disposal or spills to the MS4, complaints regarding land disturbing activities or other potential stormwater pollution concerns on the webpage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2.1	Is there a method for how the public can provide input of the MS4 Program Plan on the webpage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2.1	Is the latest Virginia Community College System Annual Standards and Specifications on the webpage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2.1	Is there a method for responding to public input?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

2.2.7. MCM #2 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS4 Program’s effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #2 measurable goals completed in accordance with the MS4 Program Plan?

Yes No ()

Are the MS4 Program measurable goals effective?

Yes (Effective) No (Ineffective, necessary changes to the MS4 Program are included in Section 1.5.)

2.3. MCM #3: Illicit Discharge Detection and Elimination

2.3.1. MS4 Map and Information Table (Part I.E.3.e(1))

A confirmation statement that the MS4 map and information table have been updated to reflect any changes to the MS4 occurring on or before June 30 of the reporting year:

Were the MS4 storm sewer map and outfall information table updated to reflect any changes to the MS4 occurring on or before June 30 of the reporting year?

Yes No ()

2.3.2. Dry Weather Screening (Part I.E.3.e(2))

The total number of outfalls screened during the reporting period as part of the dry weather screening program:

Were outfalls screened during the reporting period? Yes No ()

The number of outfalls screened during the reporting year as part of the dry weather screening program is 59. This represents 100% of the total outfalls.

2.3.3. Illicit Discharges (Part I.E.3.e(3))

A list of illicit discharges to the MS4 including spills reaching the MS4:

Were there any illicit discharges to the MS4 including spills reaching the MS4?

Yes (Refer to Table 5) No

Table 5: Illicit Discharges

Illicit Discharge #1

Part I.E.3.e(3)(a) Source: A white liquid was observed in a storm drop inlet on the north side of the CW building on the Annandale Campus.

Part I.E.3.e(3)(b) Date Observed & Date Reported: 11/16/2020

Part I.E.3.e(3)(c) Detected during Screening, Reported by Public or Other (Describe): Reported by a subcontractor who was working in the area and observed another contractor's worker pouring the liquid into the riprap channel above the drop inlet.

Part I.E.3.e(3)(d) Investigation Resolution: Upon investigation, the white liquid was observed in the drop inlet. No white liquid was observed in the creek downstream of the outfall. The contractor was immediately contacted. It was immediately determined that the contractor's

employees were cleaning equipment laden with drywall joint compound and dumping the waste liquid into the inlet.

Part I.E.3.e(3)(e) Description of Follow-up Activities: The contractor removed the white liquid from the drop inlet and the contractor directed his employees to stop dumping any liquid outdoors.

Part I.E.3.e(3)(f) Date Investigation Closed: 11/17/2020

2.3.4. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 6.

Table 6: MS4 Program Plan BMP Measurable Goals for MCM #3		
BMP	Measurable Goal	Completeness Status
3.1	Was a GIS compatible shapefile submitted to DEQ?	Completed
3.1	Was written notification provided to any downstream adjacent MS4 of any known interconnection established or discovered during the permit reporting year?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (No new or discovered) <input type="checkbox"/> No
3.2	Did all students, faculty and staff have access to the Pollution Prevention Policy #303 and Stormwater Pollution Prevention Policy #308?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.3	Were illicit discharge detection and elimination procedures implemented, enforced and documentation maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

2.3.5. MCM #3 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS4 Program’s effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #3 measurable goals completed in accordance with the MS4 Program Plan?
 Yes No ()

Are the MS4 Program measurable goals effective?
 Yes (Effective) No (Ineffective, necessary changes to the MS4 Program are included in Section 1.5.)

2.4. MCM #4: Construction Site Stormwater Runoff Control

2.4.1. Implementation of Standards and Specifications (Part I.E.4.a(3))

The MS4 implements a construction site stormwater runoff program in accordance with the most recent DEQ approved Standards and Specifications in compliance with the Virginia Erosion and Sediment Control Law and Virginia Erosion and Sediment Control Regulations.

2.4.1.1. Conforming Land Disturbance Projects (Part I.E.4.d(1)(a))

A confirmation statement that land disturbing projects that occurred during the reporting period have been conducted in accordance with the current department approved standards and specifications for erosion and sediment control:

Were all land disturbing projects that occurred during the reporting period conducted in accordance with the current department approved standards and specifications for erosion and sediment control?

Yes No (Refer to Table 7) Not Applicable (No land disturbing projects)

2.4.1.2. Non-Conforming Land Disturbance Projects (Part I.E.4.d(1)(b))

If one or more of the land disturbing projects were not conducted with the department standards and specifications, an explanation as to why the projects did not conform to the approved standards and specifications:

If no is checked above, an explanation as to why a project did not conform to the approved standards and specifications are provided in Table 7.

Table 7: Project(s) Not in Conformance with Approved Standards and Specifications

Project Name: Not Applicable

Explanation:

2.4.2. Site Stormwater Runoff Inspections (Part I.E.4.d(2))

Total number of inspections conducted:

The total number of site stormwater runoff inspections conducted for regulated land disturbance activities in accordance with the most recent DEQ approved Standards and Specifications are provided in Table 8.

2.4.3. Enforcement Actions (Part I.E.4.d(3))

The total number and type of enforcement actions implemented:

The total number enforcement actions implemented which include Notices of Violations (Red Flags) and Stop Work Orders (Black Flags) are 3.

The total number of Notices of Violations (Red Flags) and Stop Work Orders (Black Flags) are provided in Table 8.

Table 8: Construction Project(s)				
Project(s)	Total Number of Inspections	Total Number of Notices of Violation Issued (Red Flags)	Total Number of Stop Work Orders Issued (Black Flags)	Total Number of Enforcement Actions Per Project
Reynolds Building Renovation - Loudoun Campus	40	3	0	3
Dawes Avenue Parking Garage Ramp - Alexandria Campus	10	0	0	0

2.4.4. MCM #4 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS4 Program’s effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #4 measurable goals completed in accordance with the MS4 Program Plan?

Yes No ()

Are the MS4 Program measurable goals effective?

Yes (Effective) No (Ineffective, necessary changes to the MS4 Program are included in Section 1.5.)

2.5. MCM #5: Post-Construction Stormwater Management

2.5.1. Implementation of Standards and Specifications (Part I.E.5.a(3))

The MS4 implements the most recent DEQ approved standards and specifications in compliance with the Virginia Erosion and Sediment Control Law and Virginia Erosion and Sediment Control Regulations and a stormwater management facility inspection and maintenance program in accordance with Part I.E.5.b.

2.5.2. Stormwater Management Facility Inspections (Part I.E.5.i(2))

Total number of inspections conducted on stormwater management facilities owned or operated by the permittee:

Were inspections conducted on stormwater management facilities during the reporting year? Yes No

The total number of inspections conducted on stormwater management facilities are 48.

2.5.3. Stormwater Management Facility Maintenance (Part I.E.5.i(3))

A description of significant maintenance, repair, or retrofit activities performed on the stormwater management facilities owned or operated by the permittee to ensure it continues to perform as designed. This does not include routine activities such as grass mowing or trash collection:

Were significant maintenance, repair, or retrofit activities performed on any stormwater management (SWM) facilities during the reporting year?

Yes No () Not Applicable (No significant maintenance required)

If yes, a description of significant maintenance, repair, or retrofit activities performed on the stormwater management facilities owned or operated by the MS4 to ensure it continues to perform as designed is provided in Table 9.

Table 9: Maintenance Activities Performed on Stormwater Management Facilities

Stormwater Management Facility	Significant Maintenance Activity
Not Applicable	

2.5.4. Virginia Construction Stormwater General Permit Database (Part I.E.5.i(4))

A confirmation statement that the permittee submitted stormwater management facility information through the Virginia Construction Stormwater General Permit database for those land disturbing activities for which the permittee was required to obtain coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities in accordance with Part I E 5 f or a statement that the Permittee did not complete any projects requiring coverage under the General VPDES Permit for Discharges of Stormwater form Construction Activities:

Stormwater management facility information for stormwater facilities installed after July 1, 2014 was submitted through the Virginia Construction Stormwater General Permit database for land disturbing activities requiring a General VPDES Permit for Discharges of Stormwater from Construction Activities?

Not Applicable (Not a VMSP Authority)

2.5.5. DEQ BMP Warehouse (Part I.E.5.i(5))

A confirmation statement that the permittee electronically reported BMPs using the DEQ BMP Warehouse in accordance with Part I E 5 g and the date on which the information was submitted:

No later than October 1 of each year, stormwater management facilities and BMPs implemented to meet a TMDL load reduction between July 1 and June 30 of each year were electronically reported using the DEQ BMP Warehouse for any practices not reported in accordance with Part I.E.5.f (requirement 2.5.4) including stormwater management facilities from land disturbing activities less than one acre in accordance with the Chesapeake Bay Preservation Act regulations and for which a General VPDES Permit for Discharges of Stormwater from Construction Activities was not required?

Yes Inspection dates updated on 9/24/2021 No Not Applicable (No qualifying structural SWM facilities constructed.)

2.5.6. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 10.

Table 10: MS4 Program Plan BMP Measurable Goals for MCM #5		
BMP	Measurable Goal	Completeness Status
5.1	Was the post-construction stormwater management inspection and maintenance program implemented in accordance with approved standards and specifications?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5.2	Was the stormwater management facility tracking database updated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable (No new or discovered) <input type="checkbox"/> No

2.5.7. MCM #5 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS4 program’s effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #5 measurable goals completed in accordance with the MS4 Program Plan?

Yes No ()

Are the MS4 Program measurable goals effective?

Yes (Effective) No (Ineffective, necessary changes to the MS4 Program are included in Section 1.5.)

2.6. MCM #6: Pollution Prevention and Good Housekeeping

2.6.1. Operational Procedures (Part I.E.6.q(1))

A summary of any operational procedures developed or modified in accordance with Part I E 6 a during the reporting period:

Were any operational procedures developed or modified in accordance with Part I E 6 a during the reporting period?

Yes (Refer to Table 11) No (No modifications required.)

Table 11: Good Housekeeping Operational Procedures Developed or Modified

Not Applicable

2.6.2. Newly Developed SWPPPs (Part I.E.6.q(2))

A summary of any new SWPPPs developed in accordance Part I E 6 c during the reporting period:

Were any new SWPPPs developed in accordance Part I E 6 c during the reporting period?

Yes (Refer to Table 12) No () Not Applicable (No new high priority facilities)

Table 12: New SWPPPs Developed

SWPPP Name	SWPPP Address
Not Applicable	

2.6.3. Modified or Delisted SWPPPs (Part I.E.6.q(3))

A summary of any SWPPPs modified in accordance with Part I E 6 f or the rationale of any high priority facilities delisted in accordance with Part I E 6 h during the reporting period:

Were any SWPPPs modified after an unauthorized discharge, release or spill reported?

Yes (Refer to Table 12) No () Not Applicable (No modification required.)

Were any high priority facilities delisted in accordance with Part I.E.6.h during the reporting period?

Yes (Refer to Table 12) No

If yes, rationale is provided for any high priority facilities delisted in accordance with Part I.E.6.h during the reporting period in Table 13.

Table 13: SWPPPs Modified or Delisted	
SWPPPs Modified/Delisted	Rationale for Delisting
Not Applicable	Not Applicable

2.6.4. Newly Developed Nutrient Management Plans (Part I.E.6.q(4))

A summary of new turf and landscape nutrient management plans developed:

Were any new turf and landscape nutrient management plans developed?

Yes (Refer to Table 14) No () Not Applicable ()

2.6.4.1. Nutrient Management Plan Acreage (Part I.E.6.q(4)(a))

The location and the total acreage of each land area:

If yes is checked above, the location and total acreage of the land area for any newly developed nutrient management plan is provided in Table 14.

2.6.4.2. Nutrient Management Plan Approval Date (Part I.E.6.q(4)(b))

The date of the approved nutrient management plan:

If yes is checked above, the approval date of any newly developed nutrient management plan is provided in Table 14.

Table 14: New Turf and Landscape Nutrient Management Plans		
Location	Total Acreages	Date Approved
5000 Dawes Avenue Alexandria, VA 22311	9.27	7/29/2021
8333 Little River Turnpike Annandale, VA 22003	13.74	7/29/2021
21200 Campus Drive Sterling, VA 20164	50.81	7/29/2021
6901 Sudley Road Manassas, VA 20109	16.34	7/29/2021
6699 Springfield Center Drive Springfield, VA 22150	1.50	7/29/2021
15200 Neabsco Mills Road Woodbridge, VA 22191	11.57	7/29/2021

2.6.5. Training Events (Part I.E.6.q(5))

A list of the training events conducted in accordance with Part I.E.6.m, including the following information:

Was training conducted?

Yes No () Not Applicable (Not required this reporting year.)

A list of training events conducted in accordance with Part I.E.6.m is provided in Table 15.

2.6.5.1. Training Dates (Part I.E.6.q(5)(a))

The date of the training event:

If yes is checked above, the date of the training event is provided in Table 15.

2.6.5.2. Quantity Trained (Part I.E.6.q(5)(b))

The number of employees who attended the training event:

If yes is checked above, the number of employees who attended the training event is provided in Table 15.

2.6.5.3. Training Objective (Part I.E.6.q(5)(c))

The objective of the training event:

If yes is checked above, the objective of the training event is provided in Table 15.

Table 15: Training Events		
Date	# of Attendees	Training Objective
6/21/2021	67	Good Housekeeping Pollution Prevention, IDDE & TMDLs

2.6.6. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 16.

Table 16: MS4 Program Plan BMP Measurable Goals for MCM #6		
BMP	Measurable Goal	Completeness Status
6.1	Was good housekeeping and pollution prevention biennial training conducted this reporting year?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable (Not required this reporting year) <input type="checkbox"/> No
6.2	Was the annual comprehensive compliance evaluation conducted?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6.2	Was the SWPPP reviewed within 30 days after an unauthorized discharge, release or spill reported?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable (Not required) <input type="checkbox"/> No
6.2	Was the SWPPP updated within 90 days after an unauthorized discharge?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (Not required) <input type="checkbox"/> No
6.2	Were the MS4's properties reviewed this reporting year to determine if the properties meet the criteria of a high priority facility?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (MS4 campuses are high priority facilities.) <input type="checkbox"/> No
6.3	Was the nutrient management plan implemented through completion of application records?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable (No nutrients applied) <input type="checkbox"/> No
6.4	Were all signed contracts executed with contract good housekeeping and pollution prevention language?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6.5	Did all signed contracts executed for pesticide and herbicide application maintain proof of certifications on file?	<input checked="" type="checkbox"/> Yes

		<input type="checkbox"/> Not Applicable (No contracts executed) <input type="checkbox"/> No
6.6	Did training occur and were proof of certifications maintained on file for employees performing pesticide and herbicide applications?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable (No employees applied nutrients.) <input type="checkbox"/> No

2.6.7. MCM #6 Evaluation (Part I.D.2.e)

Review the MCM to determine the MS4 Program’s effectiveness and whether or not changes to the MS4 Program Plan are necessary:

Were all MCM #6 measurable goals completed in accordance with the MS4 Program Plan?

Yes No ()

Are the MS4 Program measurable goals effective?

Yes (Effective) No (Ineffective, necessary changes to the MS4 Program are included in Section 1.5.)

3.0 TMDL SPECIAL CONDITIONS

3.1. Chesapeake Bay TMDL Action Plan

3.1.1. BMPs Implemented and Estimated POC Reductions (Part II.A.13.a)

A list of BMPs implemented during the reporting period but not reported to the DEQ BMP Warehouse in accordance with Part I E 5 g and the estimated reduction of pollutants of concern achieved by each and reported in pounds per year:

Were any BMPs implemented during the reporting period but not reported to the DEQ BMP Warehouse in accordance with Part I.E.5.g? Yes (Refer to Table 17) No () Not Applicable (Existing BMPs meet required 5% reductions. Refer to Table 17.)

The estimated reduction of pollutants of concern achieved by each BMP reported in pounds per year is provided in Table 17.

Table 17: Chesapeake Bay TMDL Action Plan POC Reductions			
BMP #1: Existing BMPs			
	TN (lbs./yr.)	TP (lbs./yr.)	TSS (lbs./yr.)
Required 5% Reduction (lbs.) =	11.13	1.50	1,290.12
Provided Reduction (lbs.) =	11.89	2.62	1,363.12
BMP #2: Street Sweeping Using the Mass Loading Approach			
Provided lbs. of material swept (lbs.) =	28,445		
	TN (lbs./yr.)	TP (lbs./yr.)	TSS (lbs./yr.)
Provided Reduction (lbs.) =	49.78	19.91	5,973.45
Future 40% Reduction (lbs.) =	89.33	11.99	10,326.52
% Achieved towards 40% (%) =	56	166	58

3.1.2. Nutrient Credits (Part II.A.13.b)

If the permittee acquired credits during the reporting period to meet all or a portion of the required reductions in Part II A 3, A 4, or A 5, a statement that credits were acquired:

Were credits acquired during the reporting period to meet all or a portion of the required reductions in Part II A 3, A 4, or A 5? Yes No

3.1.3. POC Cumulative Reduction Progress (Part II.A.13.c)

The progress, using the final design efficiency of the BMPs, toward meeting the required cumulative reductions for total nitrogen, total phosphorus, and total suspended solids:

The progress, using the final design efficiency of the BMPs, toward meeting the required 40% reductions for total nitrogen, total phosphorus, and total suspended solids is provided in Table 18.

Table 18: 2019 – 2023 Chesapeake Bay TMDL Action Plan Implementation Schedule			
Step	General Description	Measurable Goal	Completion Date
1	5% reduction requirement complete. Evaluate lbs. swept.	Completed tracking documentation?	<input checked="" type="checkbox"/> Yes (July 2019) <input type="checkbox"/> No
2	5% reduction requirement complete. Make adjustments to frequency based on 2019 information obtained.	Completed tracking documentation with increase sweeping frequency?	<input checked="" type="checkbox"/> Yes (July 2020) <input type="checkbox"/> No
3	5% reduction requirement complete. Determine if 40% can be achieved w/ street sweeping alone. If not, evaluate alternate means to achieve 40% reduction. Secure funding for future implementation of new BMPs. Revise Action Plan accordingly.	Completed tracking documentation. If required, revise Action Plan?	<input checked="" type="checkbox"/> Yes (July 2021) <input type="checkbox"/> No
4	Revise Action Plan based on the newly issued DEQ Guidance Memo No. GM-20-2003 (Appendix V.G).	Completed tracking documentation and support documentation from any new BMPs employed to meet 40% reduction?	July 2022
5	Complete 40% reduction requirement with selected means and methods.	Completed tracking documentation and support documentation from any new BMPs employed to meet 40% reduction?	July 2023
6	Report on Chesapeake Bay TMDL 40% reduction achievement.	Recorded results in Annual Report?	October 2023

3.1.4. Next Reporting Period Planned BMPs (Part II.A.13.d)

A list of BMPs that are planned to be implemented during the next reporting period:

BMPs that are planned to be implemented during the next reporting period is provided in Table 19.

Table 19: Chesapeake Bay TMDL Action Plan BMPs Planned for next reporting year

Reductions satisfied by existing BMPs. Street sweeping planned for achieving 40% reduction.

3.1.5. Chesapeake Bay TMDL Action Plan Measurable Goals

The Chesapeake Bay TMDL Action Plan measurable goals are provided in Table 20.

Table 20: Chesapeake Bay TMDL Action Plan Measurable Goals

#	Measurable Goal	Completeness Status
1	Were public comments considered during the required 15-day comment period?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (Not required this reporting year) <input type="checkbox"/> No
2	Were cost effective BMPs selected to support model quantification to achieve the required pollutant reductions?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable (Not required this reporting year) <input type="checkbox"/> No
3	Was the required pollutant reduction reached for this reporting year?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

3.1.6. Chesapeake Bay TMDL Action Plan Implementation Evaluation (Part I.D.2.e)

Review the TMDL Special Condition to determine the Chesapeake Bay TMDL Action Plan’s effectiveness and whether or not changes to the Chesapeake Bay TMDL Action Plan are necessary:

Were all measurable goals completed in accordance with the Chesapeake Bay TMDL Action Plan?

Yes No ()

Are the MS4 Program measurable goals effective?

Yes (Effective) No (Ineffective, necessary changes to the MS4 Program are included in Section 1.5.)

3.2. Local TMDL Action Plans

3.2.1. Neabsco Creek Watershed Bacteria TMDL Implementation (Part II.B.9)

A summary of actions conducted to implement each local TMDL action plan:

A summary of actions conducted to implement the Neabsco Creek Watershed Bacteria TMDL is provided in Table 21.

Table 21: Neabsco Creek Watershed Bacteria TMDL Action Plan Summary of Actions		
BMP	Summary of Actions	Completion
1	Identify areas with high bird populations and evaluate deterrents, population controls, habitat modifications and other measures that may reduce bird-associated bacteria loading. Use Geese Management via trained dog harassment on campus 2 – 3 times daily, 7 days a week.	<input checked="" type="checkbox"/> Yes (July 2021) <input type="checkbox"/> No

Were all measurable goals completed in accordance with the Neabsco Creek Bacteria TMDL Action Plan?

Yes No ()

Are the MS4 Program measurable goals effective?

Yes (Effective) No (Ineffective, necessary changes to the MS4 Program are included in Section 1.5.)

3.2.2. Accotink Creek Watershed Sediment TMDL Implementation (Part II.B.9)

A summary of actions conducted to implement each local TMDL action plan:

A summary of actions conducted to implement the Accotink Creek Watershed Sediment TMDL is provided in Table 22.

Table 22: Accotink Creek Watershed Sediment TMDL Action Plan Summary of Actions			
Step	General Description	Measurable Goal	Completion Date
1	Develop Action Plan	Action Plan submitted to DEQ with public comment period.	<input checked="" type="checkbox"/> Yes (5/1/2021) <input type="checkbox"/> No
2	Evaluate the potential for addressing the WLA by modifying the current Street Sweeping Program	<ul style="list-style-type: none"> Determine the potential number of lane miles that can be swept. Incorporate guidance from DEQ GM20-2003 & develop tracking document. Consider Chesapeake Bay TMDL Action Plan WLA in conjunction with this Action Plan. 	June 30, 2022
3	Evaluate the potential for addressing the WLA by modifying the current Street Sweeping Program	<ul style="list-style-type: none"> Evaluate current equipment & staff availability. Evaluate budget to determine how much street sweeping can be accomplished. 	June 30, 2023
4	Evaluate the potential for addressing the WLA by modifying the current Street Sweeping Program	<ul style="list-style-type: none"> If required, plan to purchase dedicated sweeper. If required, hire additional staff to adequately address staffing needs to address the WLA. 	June 30, 2024
5	Implement modified Street Sweeping Program and evaluate progress in meeting WLA.	<ul style="list-style-type: none"> Begin staff training & modified street sweeping program. Explore options for additional BMPs as necessary. 	June 30, 2025
6	Implement modified Street Sweeping Program and evaluate	<ul style="list-style-type: none"> Continued staff training & modify street sweeping program as necessary. 	June 30, 2026

	progress in meeting WLA.	<ul style="list-style-type: none"> If required, evaluate options for additional BMPs as necessary. 	
7	Implement modified Street Sweeping Program and evaluate progress in meeting WLA.	<ul style="list-style-type: none"> Continued staff training & modify street sweeping program as necessary. If required, implement options for additional BMPs as necessary and feasible. 	June 30, 2027
8	TMDL End date	WLA met	June 30,2028
9	Ongoing evaluation of sediment reductions	Re-evaluate BMPs used to achieve sediment reductions and explore any necessary modifications to the program (new BMPs, modifying existing BMPs, etc.)	Ongoing

Were all measurable goals completed in accordance with the Accotink Creek Sediment TMDL Action Plan?

Yes No ()

Are the MS4 Program measurable goals effective?

Yes (Effective) No (Ineffective, necessary changes to the MS4 Program are included in Section 1.5.)

3.2.3. Accotink Creek Watershed Chloride TMDL Implementation (Part II.B.9)

A summary of actions conducted to implement each local TMDL action plan:

A summary of actions conducted to implement the Accotink Creek Watershed Chloride TMDL is provided in Table 23.

Table 23: Accotink Creek Watershed Chloride TMDL Action Plan Summary of Actions		
#	Action Item	Completion Date
1	Complete TMDL Action Plan	<input checked="" type="checkbox"/> Yes (5/1/2021) <input type="checkbox"/> No
2	Establish Salt Management Working Group and Schedule of Meetings	<input checked="" type="checkbox"/> Yes (10/1/2021) <input type="checkbox"/> No
3	Salt Management Working Group Reviews of SaMS and Development Salt Management Program (SMP)	June 30, 2022
4	<ul style="list-style-type: none"> • Salt Management Program Progress provided on the MS4 Annual Report (See 5.1.3) • Action Plan Updated as Necessary • Snow Operations Staff Training 	October 1, 2022
5	<ul style="list-style-type: none"> • Salt Management Program Progress provided on the MS4 Annual Report (See 5.1.3) • Action Plan Updated as Necessary • Snow Operations Staff Training 	October 1, 2023
6	<ul style="list-style-type: none"> • Salt Management Program Progress provided on the MS4 Annual Report (See 5.1.3) • Action Plan Updated as Necessary • Snow Operations Staff Training 	October 1, 2024
7	Develop Snow Operations Standard Operating Procedure Manual	June 30, 2025
8	<ul style="list-style-type: none"> • Salt Management Program Progress provided on the MS4 Annual Report (See 5.1.3) • Action Plan Updated as Necessary • Snow Operations Staff Training 	October 1, 2025
9	Implement SOPs	Winter 2025

Were all measurable goals completed in accordance with the Accotink Creek Chloride TMDL Action Plan?

Yes No ()

Are the MS4 Program measurable goals effective?

Yes (Effective) No (Ineffective, necessary changes to the MS4 Program are included in Section 1.5.)

Appendix A: Documentation of Public Education and Outreach Activities

High Priority Stormwater Issue #1

**BIORETENTION BASIN
STORMWATER
MANAGEMENT AREA**

**WATER MAY POND
AFTER STORM**

**THIS AREA IS NOT TO
BE DISTURBED**

PLEASE KEEP OUT

**BIORETENTION BASIN
STORMWATER
MANAGEMENT AREA**

**WATER MAY POND
AFTER STORM**

**THIS AREA IS NOT TO
BE DISTURBED**

PLEASE KEEP OUT

High Priority Stormwater Issue #2



Presented by:

David Trimble

NOVA Environmental Compliance Officer



NOVA MS4 Stormwater Program



October 2020

STORMWATER RUNOFF

- Stormwater runoff is rainfall that flows over the ground surface. It is created when rain falls on impervious surfaces such as roads, parking lots, rooftops, and other paved surfaces. The impervious surfaces prevent the water to soak into the ground. Runoff picks up fertilizers, pesticides, oil, dirt, bacteria, and other pollutants as it makes its way through storm drains and ditches – **untreated** – into our streams, rivers, lakes, and the ocean. Stormwater runoff is the number one cause of stream impairment in urban areas.

EFFECTS OF STORMWATER RUNOFF



Improperly disposed of **animal waste and human waste** from sanitary overflows cause high levels of bacteria (E.coli) in water bodies. Excessive E.coli makes water bodies unsafe for swimming and can sicken or kill people and wildlife.



Nitrogen and Phosphorous in **fertilizers** cause algae blooms in water bodies. Excessive algae produce toxins that sicken or kill people and wildlife.



EFFECTS OF STORMWATER RUNOFF

Sediment from construction sites, bare and denuded areas without vegetative cover, and streambank erosion due to high volumes of rainwater runoff caused by urbanization.



- **Carries other pollutants** to water bodies which adversely affects wildlife.
- **Clogs fish gills** which interferes with breathing and kills fish.
- **Creates a muddy bottom** which adversely affects spawning beds.
- **Reduces visibility** due to suspended particles affecting the ability of fish to locate prey.
- **Decreases the depth of the water** which increases water temperatures which forces fish and animals to find a more suitable environment to live.
- **Reduces light penetration** which adversely affects plant growth.
- **Interferes** with navigation, flood control, recreation and fishing industries.

APPLICABLE STORMWATER REGULATIONS

WHY WE HAVE TO?

Clean Water Act (CWA)
protects Virginia's waters



WHERE APPLICABLE?

MS4 General Permit Entity

- Localities & State Entities within urbanized areas
 - Special Conditions for TMDLs

- Chesapeake Bay Preservation Act
- Virginia Stormwater Management Act
- Virginia Stormwater Management Program
 - Virginia VSMP Regulations

MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4)

- Collects & conveys stormwater
 - Potential to convey pollutants downstream
 - Ultimately leads to a point discharge at a natural drainage way (outfall)
- Activities/operations draining to outfalls are regulated if within a Census Urbanized Area (MS-4 Area)



MS4 GENERAL PERMIT

Requires the operator to:

“ ... develop, implement, and enforce a MS4 Program designed to reduce the discharge of pollutants from the regulated small MS4 to the maximum extent practicable ...”

Maximum Extent Practicable (MEP)

- Ensures compliance to water quality standards if the MS4 Program:
 - Addresses Minimum Control Measures with Best Management Practices (BMP) implementation
 - Structural and nonstructural BMPs
 - Addresses Special Conditions for TMDLs



COMMONWEALTH of VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY

General Permit No.: VAR040095

Effective Date: November 1, 2018
Expiration Date: October 31, 2023

GENERAL VPDES PERMIT FOR DISCHARGES OF STORMWATER FROM
SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS

AUTHORIZATION TO DISCHARGE
UNDER THE VIRGINIA STORMWATER MANAGEMENT PROGRAM REGULATIONS, VIRGINIA
POLLUTANT DISCHARGE ELIMINATION SYSTEM REGULATIONS, AND THE VIRGINIA STATE
WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act, as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, permittees of small municipal separate storm sewer systems are authorized to discharge to surface waters within the boundaries of the Commonwealth of Virginia, except those waters specifically named in State Water Control Board regulations which prohibit such discharges.

The authorized discharge shall be in accordance with the registration statement filed with the department, this cover page, Part I - Discharge Authorization and Special Conditions, Part II - TMDL Special Conditions, and Part III - Conditions Applicable to All State and VPDES Permits, as set forth in this general permit.

MS4 GENERAL PERMIT

Special Conditions

- ➔ 1. Chesapeake Bay TMDL
- ➔ 2. Local Waterbody TMDLs

Minimum Control Measures

- ➔ 1. Public Education & Outreach
- ➔ 2. Public Involvement/Participation
- ➔ 3. Illicit Discharge Detection & Elimination
- ➔ 4. Construction Site Runoff Controls
- ➔ 5. Post-construction Runoff Controls
- ➔ 6. Pollution Prevention/Good Housekeeping

TOTAL MAXIMUM DAILY LOAD (TMDL)



Waterbody not meeting water quality standards



- **TMDL** is a plan (pollution diet) that establishes the maximum amount of a pollutant the waterbody can hold and meet water quality standards.
- **WLA** is the quantity of the pollutant (sediment, nitrogen, bacteria, etc.) that may be discharged.



Assign WLA for pollutant(s) of concern (POC) to point sources

CHESAPEAKE BAY PRESERVATION ACT

- Under the Chesapeake Bay Preservation Act and NOVA's MS4 General Permit, the college is subject to the Special Conditions for the Chesapeake Bay Total Maximum Daily Load (TMDL) for nitrogen, phosphorus, and sediment.
- Virginia committed to a phased approach for MS4s to comply with the required pollutant reductions, consisting of three five-year permit cycles to achieve necessary pollutant reductions. These reductions are to achieve 5% reduction of pollutant loadings in the first permit cycle, 40% at the end of the second permit cycle, and 100% reduction at the end of the third permit cycle.
- NOVA developed and implemented its Chesapeake Bay TMDL Action Plan for the first permit cycle (2013-2018) which achieved the required 5% reductions. NOVA developed its second phase Action Plan to achieve the additional 35% reductions required this permit cycle (2018-2023).

CHESAPEAKE BAY TMDL

- NVCC implements a Chesapeake Bay TMDL Action Plan to reduce the Pollutants of Concern (POCs) based on the amount of impervious area (hard surfaces like roads, sidewalks and building footprints) on campus.
- Currently, NVCC uses street sweeping as a Best Management Practice to achieve the required reductions.
- NVCC also abides by the construction laws and regulations that reduces the amount of sediment from construction activities.
- NVCC also implements a Nutrient Management Plan to reduce the amount of Nitrogen and Phosphorous applied in the form of fertilizer on the campus.

LOCAL IMPAIRED WATERWAYS

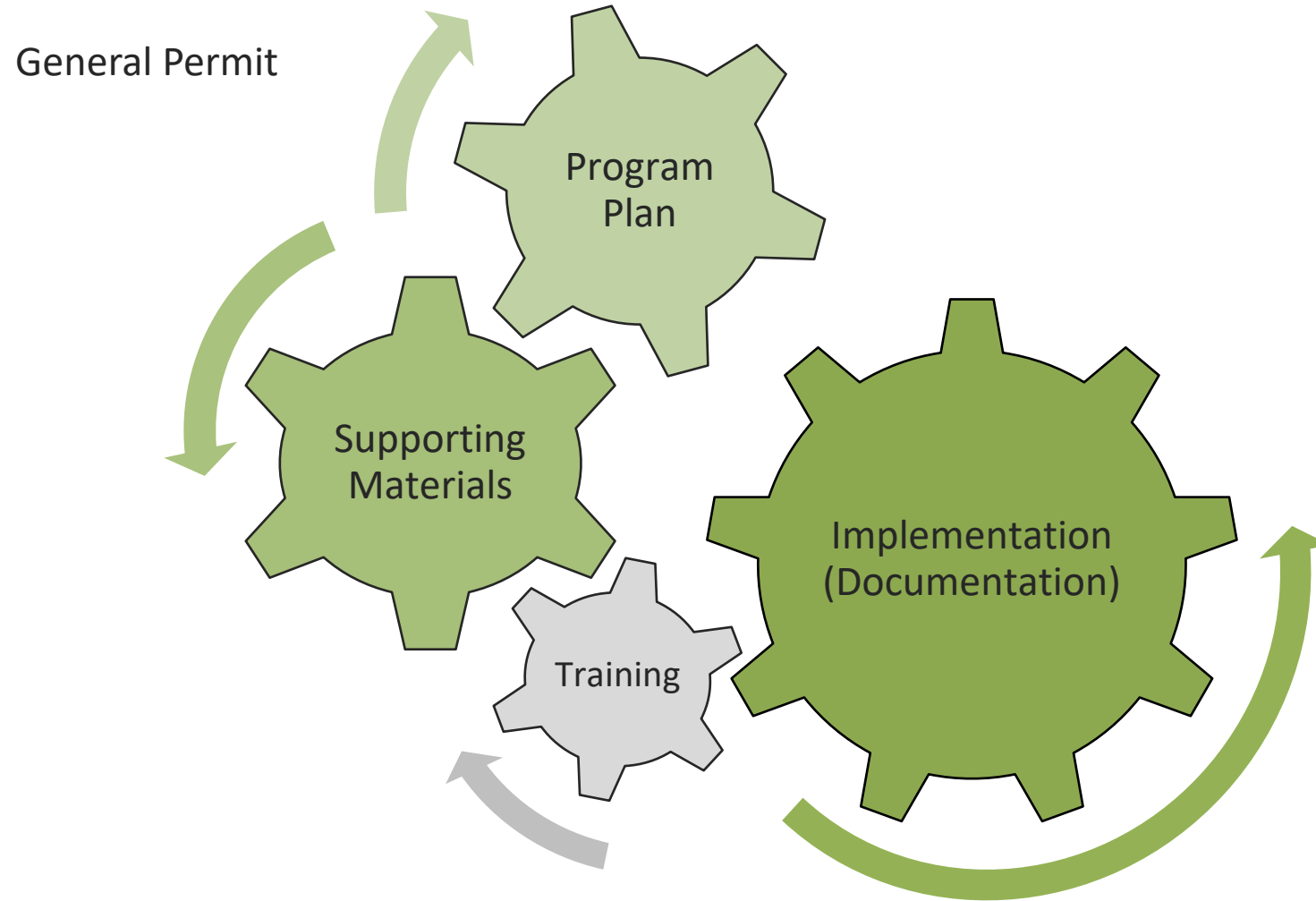
➤ **Woodbridge Campus** drains to the **Neabsco Creek** which is impaired for **E.coli (bacteria)**. TMDL Action Plan to minimize the discharge of bacteria that will be updated in accordance with the 2019 – 2023 MS4 General Permit.

- Steps taken to reduce pollution of impaired waterways:
 - Implemented a goose management program
 - Pick-up pet waste
 - Inspect sanitary sewer system for signs of overflows

➤ **Annandale Campus** drains to **Accotink Creek** which was recently approved for **Sediment** and **Chloride** TMDLs. NVCC will develop TMDL Action Plans for these pollutants of concern that will be implemented in 2021.

- Steps taken to reduce pollution of impaired waterways:
 - Increased construction controls of stormwater runoff;
 - Increased onsite storage of stormwater runoff and/or streambank restoration;
 - Development of snow operations SOPs (i.e., increased control and tracking of salt, use of brine operations)

MS4 PROGRAM COMPONENTS



PUBLIC EDUCATION AND OUTREACH

- NOVA shall implement a public education and outreach program designed to:
 - Increase the public's knowledge of how to reduce stormwater pollution, placing priority on reducing impacts to impaired waters and other local water pollution concerns;
 - Increase the public's knowledge of hazards associated with illegal discharges and improper disposal of waste, including pertinent legal implications; and
 - Implement a diverse program with strategies that are targeted toward individuals or groups most likely to have significant stormwater impacts.
 - Three water quality issues:
 1. Public education on stormwater runoff
 2. TMDLs and Local Impaired Waters
 3. Education on Good Housekeeping and Pollution Prevention

PUBLIC INVOLVEMENT AND PARTICIPATION

- NOVA must implement no less than four activities per year for two or more of the categories “Monitoring,” “Restoration,” Educational Events,” Disposal or Collection Events,” or “Pollution Prevention” to provide an opportunity for public involvement to improve water quality and support local restoration and clean-up projects.
- Examples of Educational events include booths at college events like the Green Festival, Restoration events includes stream clean ups, and Pollution Prevention events include storm drain marking be students.

GUIDANCE DOCUMENTS



Good Housekeeping & Pollution Prevention Manual

A Programmatic Overview of NOVA's Good Housekeeping and Pollution Prevention Practices



June 2019

NOVA - Alexandria Campus
5000 Dawes Avenue
Alexandria, VA 22311

NOVA - Annandale Campus
8333 Little River Turnpike
Annandale, VA 22003

NOVA - Loudoun Campus
21200 Campus Drive
Sterling, VA 20164

NOVA - Woodbridge Campus
2645 College Drive
Woodbridge, VA 22191

For concerns related to Good Housekeeping & Pollution Prevention or for reporting pollution into stormwater runoff contact David Trimble (Environmental Compliance Officer) at (703) 764-5095.



Post-Construction Stormwater Management Inspection & Maintenance Manual



June 2019

NOVA - Alexandria Campus
5000 Dawes Avenue
Alexandria, VA 22311

NOVA - Annandale Campus
8333 Little River Turnpike
Annandale, VA 22003

NOVA - Loudoun Campus
21200 Campus Drive
Sterling, VA 20164

NOVA - Woodbridge Campus
2645 College Drive
Woodbridge, VA 22191

For reporting pollution into stormwater runoff contact David Trimble (Environmental Compliance Officer) at (703) 764-5095.



Illicit Discharge Detection and Elimination Manual



June 2019

NOVA - Alexandria Campus
5000 Dawes Avenue
Alexandria, VA 22311

NOVA - Annandale Campus
8333 Little River Turnpike
Annandale, VA 22003

NOVA - Loudoun Campus
21200 Campus Drive
Sterling, VA 20164

NOVA - Woodbridge Campus
2645 College Drive
Woodbridge, VA 22191

For concerns related to Illicit Discharge Detection and Elimination or for reporting pollution into stormwater runoff contact David Trimble, Environmental Compliance Officer at (703) 764-5095.

**Northern
Virginia
Community
College**

IDDE PROGRAM MANUAL

- Written IDDE procedures to detect, identify, and address non-stormwater discharges
 - Methods for field observations/screening
 - Schedule (outfalls screened annually)
 - Data collection (field screening form)

 - Methods for investigation of source
 - Specific timeframe prioritization

 - Mechanisms for eliminations of source
 - Policies
 - Follow-up & documentation

GOOD HOUSEKEEPING AND POLLUTION PREVENTION MANUAL

- Training Plan

- Reporting/Documentation

- Inspection Guidance

- Maintenance & operations procedures as non-structural BMP
 - Manage vehicle washing and maintenance, dumpster operations/locations, power washing, fueling, chemical storage, and other applicable practices

- Waste Management
 - Oil, gas, and diesel
 - Absorbents
 - Other applicable wastes

POST-CONSTRUCTION STORMWATER MANAGEMENT INSPECTION AND MAINTENANCE MANUAL

➤ Reporting/Documentation

- Forms
- Documentation

➤ Inspection Guidance

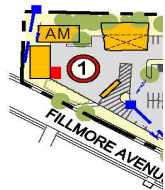
- Frequency

➤ Information on Facilities @ NOVA

➤ Inspection Forms

➤ Facility Maintenance

IMPLEMENTATION TOOLS: SWPPP MAPS



Site Evaluation Overview

Purpose

The intent of this reference guide is to provide quick access to descriptions of common pollutant sources and common controls and practices to address the pollutants for each location identified on the Stormwater Pollution Prevention Plan (SWPPP) map. If needed, additional information for each potential pollutant source or activity, including source controls, standard operating procedures, and removal/disposal of pollutants is provided in the College's Good Housekeeping and Pollution Prevention Manual (GHPP), latest edition.

Qualification for Performing Site Evaluation

The individual completing the Site Compliance Evaluation Form shall have participated in the College's Municipal Separate Storm Sewer System (MS4) Good Housekeeping/Pollution Prevention training that includes introduction to the GHPP College Specific Operation & Maintenance (O&M) Procedures Section included with this SWPPP, by reference.

Frequency and Protocol

The Site Compliance Evaluation Form shall be completed monthly. The completed form shall be provided to the Environmental Compliance Officer (ECO) immediately after the evaluation is completed. The ECO will provide follow-up for findings. Once follow-up is completed, it shall be indicated or noted on the Site Compliance Evaluation Form, as appropriate. **The Site Compliance Evaluation is not complete until appropriate follow-up to findings has been documented on the Evaluation Form.**

Reportable Spills & Discharges

If an onsite spill or occurring discharge to surface waters of any pollutant is observed, immediately contain the pollutant to prevent potential or further discharge. The ECO shall be notified immediately to:

- Determine the further actions necessary to eliminate the potential or occurring discharge and
- Determine if the discharge was equal to or in excess of a reportable quantity per Section III G of the MS4 General Permit.
 - If the discharge is reportable, the ECO will notify the DEQ within 24 hours and prepare the necessary report per Section III G of the MS4 General Permit for submission to DEQ. A copy of the report shall be maintained in a file with the SWPPP materials on site.

For emergencies, call 9-1-1.

SWPPP Map Quick Reference Guide

Salt Storage/Operations ①

Potential Pollutant and Sources: Salt.

Source Controls: C-container acts as the primary source control. Perimeter controls prevent transport of salt.

Best Management Practice(s): Regularly inspect to ensure proper maintenance of perimeter controls. Remove and dispose of materials that have migrated outside of perimeter controls daily. Place salt storage away from drain inlets and surface waters.

O&M Procedure Reference: Section 5.10

Outdoor Material Storage ①

Potential Pollutant and Sources: Petroleum products, solvents, corrosive material, grease or sediment from materials stored outdoors.

Source Controls: Perimeter controls or cover.

Best Management Practice(s): Store materials that could introduce pollutants to runoff indoors. Remove and properly dispose of pollutants on ground surface.

O&M Procedure Reference: Section 5.8

Outdoor Material Stockpiling ①

Potential Pollutant and Sources: Sand, grit, sediment or any other erodible material stored outdoors.

Source Controls: Perimeter controls to prevent transport of stockpiled materials. Cover to prevent exposure to precipitation.

Best Management Practice(s): Regularly inspect stockpile areas and ensure proper maintenance of perimeter controls. Remove and dispose of materials that have migrated outside of perimeter controls daily. Place stockpiles away from outfalls and surface waters.

O&M Procedure Reference: Section 5.9

Pertinent Contacts

Emergency: 9-1-1

City of Alexandria Fire Department (Non-Emergency): (703) 746-4444

NOVA Police (Non-Emergency): (703) 764-5000

NOVA Emergency Management & Safety: (703) 764-5043

Director of Facilities (Steve Patterson): (703) 323-3554

Environmental Compliance Officer (David Trimble): (703) 764-5095

DEQ (NOVA Regional Office): (703) 583-3800
(Mon. - Fri. 8:15 - 4:30)

VA Dept. Emergency Management: (800) 468-8892 (24 hrs./7wk.)

Interconnected MS4 Localities

City of Alexandria (IDDE Reporting): (703) 748-4200

VDOT (NOVA District): (800) 367-7632

Vehicle Washing ①

Potential Pollutant and Sources: Solvents, grease, sediment, petroleum product and cleaning agents.

Source Controls: Wash only in designated areas that drain to sanitary sewer or in lawn areas with water only.

Best Management Practice(s): Take state vehicles and equipment to the Annandale campus and wash in designated wash pad. Use a commercial washing facility. Wash vehicles/equipment on pervious surfaces, such as grass or gravel only with water (no soap, chemicals, etc.)

O&M Procedure Reference: Section 5.1

Dumpsters ①②③⑤⑦⑧

Potential Pollutant and Sources: Various liquids, solids and rust can leach onto the ground.

Source Controls: If leaking, use absorbent, scrub with a broom to remove as much of the contaminate as possible, and promptly recover all material. For recurring issues, provide drip pan or absorbent pad.

Best Management Practice(s): Keep dumpsters and trash cans covered and replace damaged containers.

O&M Procedure Reference: Section 5.5

Fueling ①③

Potential Pollutant and Sources: Fuel spills.

Source Controls: Maintain a spill kit in the immediate vicinity with posted instruction for use of the kit. Perform timely maintenance repairs to address leaks. Use secondary containment and/or cover with a tarp.

Best Management Practice(s): Cover spills completely with absorbent and subsequently scrub with a broom. Promptly remove and dispose of material in a waste receptacle for waste oil. For leaks, provide a drip pad or absorbent pad until repairs can be made. Dispose of collected fuel in a waste receptacle for waste oil.

O&M Procedure Reference: Section 5.4

Vehicle/Equipment Storage ①③④

Potential Pollutant and Sources: Petroleum product leaks from hydraulic hoses or vehicles/equipment in disrepair. Grease, sediment, rust and other pollutants on equipment.

Source Controls: Drip pans or absorbent pads placed under leaks and containment bags wrapped around leaking components if potential for intermingling with stormwater.

Best Management Practice(s): Repair equipment leaking fuel or oil. Utilize source controls while leaks occur and inspect regularly to ensure pollutants are not exposed to precipitation. Remove and properly dispose of pollutants on ground surface.

O&M Procedure Reference: Section 5.3

Outdoor Loading ②⑤⑦⑧

Potential Pollutant and Sources: Packaging material from loading, petroleum products from equipment/vehicles.

Source Controls: Drip pans, absorbent pads, and sweeping.

Best Management Practice(s): Load material in dry weather, sweep up trash and erodibles. Clean up vehicle or equipment leaks. Remove and properly dispose of pollutants on ground surface.

O&M Procedure Reference: Section 5.7

Silt Fence ⑥

Potential Pollutant and Sources: Sediment and other pollutants carried by sediment across parking lot.

Best Management Practice(s): Inspect after each rainfall event to ensure properly functioning. Repair damaged areas as necessary. Promptly replace any decomposed or ineffective fabric. Remove sediment deposits after each storm event. Do not let deposits reach half the height of the barrier.

VA Erosion & Sediment Control Handbook: Chapter 3.05

Outdoor Waste Grease Storage ②

Potential Pollutant and Sources: Grease containers stored outdoors.

Source Controls: Cover, secondary containment and spill kit in the immediate vicinity.

Best Management Practice(s): Remove and properly dispose of pollutants on ground surface.

O&M Procedure Reference: Section 6.13

SWPPP Inspect

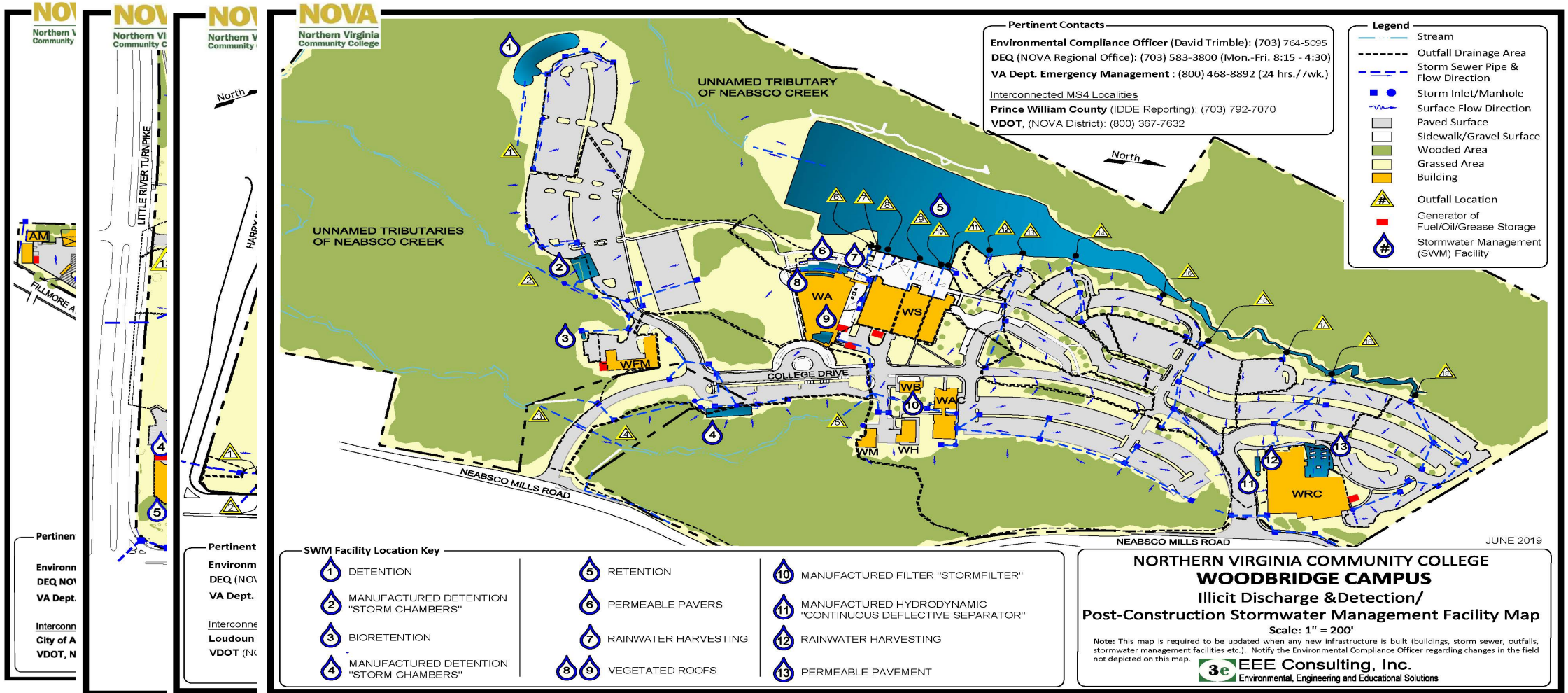
In addition to the map, the

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- Locations c
- Oil, hydrau
- Open (unc)
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SWPPP Inspect

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- exposure to st
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- Compliance Off
- Document on S

POST-CONSTRUCTION STORMWATER MANAGEMENT FACILITY (BMP) COMPLIANCE MAPS



STRUCTURAL BMPS



NUTRIENT MANAGEMENT PLAN

- Virginia regulations (Code of Virginia 10.1.104.4) require all **state colleges** to develop and implement a **Nutrient Management Plan (NMP)** for the application of fertilizers, herbicides, pesticides, and lime.
- NOVA's NMPs address only the nutrient management of **turf grass**, including athletic fields.
- NMPs are used as a resource for planning the quantity and timing of turfgrass nutrient application based on sound agronomic practices to reduce the amount of nutrients that ultimately negatively affect waterbodies.
- NMPs must be revised following major renovation or other changes to maintenance practices as they occur or every **three** years.
- Latest NMP covers the time period of July 2018 – July 2021.

COMPLIANCE INSPECTIONS AND DOCUMENTATION

- SWPPP INSPECTIONS – ANNUALLY/MONTHLY
- BMP INSPECTIONS – ANNUALLY/MONTHLY
- OUTFALL INSPECTIONS – ANNUALLY/MONTHLY
- ILLICIT DISCHARGE – INVESTIGATIONS AS NEEDED
- CONSTRUCTION SITE COMPLIANCE – EVERY TWO WEEKS OR AFTER A RUNOFF PRODUCING RAINFALL FOR EROSION AND SEDIMENT CONTROL AND FOR STORMWATER POLLUTION PREVENTION
- DOCUMENTATION – INSPECTION FORMS, REPORTING FORMS, MAINTENANCE TRACKING, NMP REPORTING FORMS,
- MS4 ANNUAL REPORT

QUESTIONS

David Trimble (Environmental Compliance Officer)

703-764-5095

dtrimble@nvcc.edu

Steven Patterson (Chief Facilities Officer, Facilities Planning & Support Services)

703-323-3554

spatterson@nvcc.edu

- Stormwater webpage: <https://www.nvcc.edu/stormwater/>

High Priority Stormwater Issue #3



CAMPUS ANNOUNCEMENTS & EVENTS

#7 All flyers must be approved & stamped by the STUDENT LIFE OFFICE (A1134). Noncompliant flyers will be removed. Thank you for your cooperation.

DON'T SPREAD GERMS AT WORK

If you're sick, stay home, rest, and remember to:

- Cover your cough and sneeze with a tissue or your sleeve.
- Wash your hands often with soap and water.
- Talk to your supervisor about working from home.

NOVA

Career Connection
NOVA's Career Development System

- Build Your Resume
- Practice Your Interview Skills
- Find Job And Internship Opportunities

NOVA Northern Virginia Community College

Sign-in to access your Career Connection tools today!
www.nvcc.edu/career-services

NEED HELP? USE REMOTE SERVICES

Call or go to the websites listed below for help.

Financial Aid: www.nvcc.edu/financial-aid

Registrar: www.nvcc.edu/registrar

Student Support Center: www.nvcc.edu/ssc

Admissions: www.nvcc.edu/admissions

Library: www.nvcc.edu/library

IT Support: www.nvcc.edu/it-support

Health Services: www.nvcc.edu/health-services

Disability Support: www.nvcc.edu/disability-support

Veteran & Military Support: www.nvcc.edu/veteran-military-support

NOVA

FALL 2020 RESOURCE LIST FOR STUDENT SERVICES

Alexandria Campus

For financial aid, student accounts, admissions, records of registration, please call the 24-hour Student Support Center at 1-800-523-3199. For other departments, please contact NOVA's Call Center at 703-523-3000. For more information, visit www.nvcc.edu/nvccservices.

Service	Contact Information
EMPLOYMENT SERVICES APPLYING FOR JOBS, INTERVIEWING, RESUME WRITING, CAREER COUNSELING	Human Resources Dept. 1100 Commonwealth Blvd. Alexandria, VA 22304 703-523-3000
OPEN COURSEWORK (OCW) COURSE CREDIT EVALUATION	Academic Services 1100 Commonwealth Blvd. Alexandria, VA 22304 703-523-3000
VIRTUAL ADVISING PROVIDING IN A CLASSTIME AND NON-CLASSTIME	Academic Services 1100 Commonwealth Blvd. Alexandria, VA 22304 703-523-3000
FINANCIAL AID APPLYING FOR FINANCIAL AID, SCHOLARSHIPS, AND GRANTS	Financial Aid 1100 Commonwealth Blvd. Alexandria, VA 22304 703-523-3000
BUSINESS OFFICE BUSINESS REGISTRATION, TAXES, AND COMPLIANCE	Business and Finance Services 1100 Commonwealth Blvd. Alexandria, VA 22304 703-523-3000
PARKING & VEHICLE SERVICES PARKING PERMITS, VEHICLE REGISTRATION, AND INSURANCE	Business and Finance Services 1100 Commonwealth Blvd. Alexandria, VA 22304 703-523-3000
BOOKSTORES TEXTBOOKS, SUPPLIES, AND MERCHANDISE	Business and Finance Services 1100 Commonwealth Blvd. Alexandria, VA 22304 703-523-3000
LIBRARY SERVICES TEXTBOOKS, SUPPLIES, AND MERCHANDISE	Business and Finance Services 1100 Commonwealth Blvd. Alexandria, VA 22304 703-523-3000
FINANCIAL SERVICES CHECKS, DEBIT CARDS, AND SAVINGS	Business and Finance Services 1100 Commonwealth Blvd. Alexandria, VA 22304 703-523-3000
DISABILITY SUPPORT SERVICES ACCOMMODATIONS AND SUPPORT	Human Resources Dept. 1100 Commonwealth Blvd. Alexandria, VA 22304 703-523-3000
VETERAN & MILITARY SUPPORT SERVICES SUPPORT FOR VETERANS AND MILITARY PERSONNEL	Human Resources Dept. 1100 Commonwealth Blvd. Alexandria, VA 22304 703-523-3000
WELL-BEING SERVICES HEALTH AND WELLNESS SUPPORT	Human Resources Dept. 1100 Commonwealth Blvd. Alexandria, VA 22304 703-523-3000

NOVA Northern Virginia Community College

Parking Lot Pollutants

WHEN YOU LEAVE A PARKING SPACE...

Do you leave trash or fluids behind?

These pollutants end up in storm drains and sewers.

Polluted storm water often flows directly to a river causing disease and harm to wildlife and the environment.

Help Improve Stormwater Run Off!

- Place litter and cigarette butts in trash receptacles.
- Promptly repair vehicle leaks.
- Take your car to the car wash instead of washing it on a driveway or parking lot.

NOVA



Appendix B: Documentation of Public Involvement Activities

Public Involvement Activity #1

INTERESTED IN ENV CLASSES OR STORMWATER MANAGEMENT? APRIL 20

April 14, 2021 / [Events](#)

Do you know of a student interested in a career in environmental consulting, environmental engineering, land development, property management or who are just interested in those fields? One of the major components of those programs is stormwater management and preventing pollution from entering our water bodies, i.e., “Only Rain down the Drain.”

Click here for more information about [NOVA's Stormwater Program](#).

This year, [Radford University's Sustainability Office](#) is collaborating with the [National Stormwater Center](#) to bring the “[Certified Stormwater Student](#)” program to Virginia college students.

On Tuesday, April 20 from 6 p.m. until 7:30 p.m., the National Stormwater Center will host a virtual course for Virginia students to learn about stormwater runoff, the Clean Water Act and the Municipal Separate Storm Sewer System (MS4). Participants will earn a student stormwater certification from the National Stormwater Center.

The course is free to all students.

[Register Here](#).

Submitted by:

Robert Johnson, Auxiliary Services, ROJohnson@nvcc.edu



NATIONAL STORMWATER CENTER

PRESENTS:

Certified Stormwater Student Class

Tuesday, April 20
Online

[https://attendee.gotowebinar.com/
register/4785333403052375564](https://attendee.gotowebinar.com/register/4785333403052375564)

6:00—7:30 PM

Course Overview

- ◇ Examine the Clean Water Act & NPDES
- ◇ Learn what stormwater is & its impacts
- ◇ Learn what illicit discharges are & understand where to look for discharges and how to report illicit discharges
- ◇ Discover ways to participate in your community



National Stormwater Center

105 East Broadway, Bel Air, Maryland 21014

1-888-397-9414, info@npdes.com, www.NPDES.com

Public Involvement Activity #2

From: [Johnson, Robert](#)
To: [Johnson, Robert](#)
Cc: [Robinette, Cheryl A.](#)
Subject: RE: NOVA Green Festival 2020 take 2!
Date: Thursday, October 8, 2020 9:27:49 AM
Attachments: [GreenFestival-Flyer-2020_102820.jpg](#)
[GreenFestival-Flyer-2020_.pdf](#)

Greetings again!

As we are adjusting to the current environment, the College's Green Festival has taken on a new format!

We will hold the event via Zoom on October 28th.

More information and the registration links are available here - <https://www.nvcc.edu/green-festival/> - and a distributable flyer is attached.

Thank you!

Rob Johnson
Director of Sustainability & Auxiliary Services
Northern Virginia Community College
703-425-5753 Office
rojohanson@nvcc.edu

From: Johnson, Robert
Sent: Wednesday, March 4, 2020 12:53 PM
To: Johnson, Robert <rojohanson@nvcc.edu>
Cc: Robinette, Cheryl A. <crobinette@nvcc.edu>
Subject: NOVA Green Festival 2020

Greetings!

With Spring nearly upon us, please mark your calendar and plan to join us for Northern Virginia Community College's **2020 Green Festival**, scheduled for **9 a.m. – 4 p.m., Wednesday, April 15, 2020, at NOVA's Annandale Campus**. The theme for this year's event is *"Waste and its impact on habitats."*

As many of you are aware, the purpose of NOVA's Annual Green Festival is to increase both the college and local community awareness of regional, national, and global environmental issues and provide information regarding ways that individuals can help preserve the environment. Participants at this community event will include faculty, staff, students and local community members. While our target audience is high school and college students, the event is free and open to the public.

The festival will be a combination of presentations, panel discussions, interactive

demonstrations, and informational displays. Ideally, it will help the audience to recognize ways they can conserve resources, promote change, and make a difference as individuals. More information is here – www.nvcc.edu/green-festival/2020 (and a printable/distributable flyer is attached).

As in the past, we invite you to join us for this topical and educational festival. If you have questions or would like to participate as an exhibitor in the information fair or on one of the panels, please contact me or crobinette@nvcc.edu.

And please forward as this event is open to the public!

Thank you!

Rob Johnson
Director of Sustainability & Auxiliary Services
Northern Virginia Community College
703-425-5753 Office
rojohanson@nvcc.edu



Photo credit: Gary Robinette

NOVA's Annual GREEN FESTIVAL 2020

WASTE AND ITS IMPACT ON HABITATS

Wednesday, October 28, 2020

10:15 a.m. – 3:00 p.m.

Online – Via Zoom

Keynote Speaker: Chad Pregracke – 10:15 a.m.
Cleaning America's Rivers

Everything Counts / Waste Prevention / Habitat Loss – 11:30 a.m.

Richard Reynolds, Wildlife Biologist, VDGIF – 1:00 p.m.
Bats and Wind Energy Development

Raptor Lecture / Live Birds – 2:00 p.m.
Secret Garden Birds and Bees

Your Keynote Speaker: Chad Pregracke

Chad Pregracke, the 2013 CNN Hero of the Year, is proof that one person can make a difference. At the age of 17, Chad started on a crusade to clean up the Mississippi river. Since then Chad's hard work, vision, humor, and leadership has evolved into a cultural movement that had resulted in 11 million pounds of garbage being cleaned out of America's rivers with over 100,000 volunteers and dozens of global corporations coming aboard to lend a hand.

Chad's not-for-profit organization, **Living Lands & Waters**, was started in 1998 and has evolved to be the only "industrial strength" river organization like it in the world with a multi-million-dollar operation. Chad remains the driving force behind the organization and divides his time between living on a house-berge with his crew and living with his wife Tammy at their river home on the Mississippi.



Free and open to the public.

For additional information and to register, visit www.nvcc.edu/green-festival/

Public Involvement Activity #3

From: [Johnson, Robert](#)
To: [Johnson, Robert](#)
Cc: [Robinette, Cheryl A.](#)
Subject: NVCC Green Festival 2021!
Date: Monday, March 8, 2021 9:12:44 AM
Attachments: [image005.png](#)
[image006.png](#)
[GreenFestival2021-Flyer ...pdf](#)

Greetings!

You are receiving this email either because you previously attended one of the Green Festival events or because I thought you might be interested in this year's event.

If you are no longer interested in receiving emails like this, please let me know and I will remove you from my distribution list.

With Spring nearly upon us, please mark your calendar and plan to join us for Northern Virginia Community College's **2021 Green Festival**, scheduled for **10 a.m. – 3 p.m., Wednesday, March 24, 2021, via Zoom**. The theme for this year's event is *"RESTORE THE EARTH: A Discussion of the Interconnections and Relationships Between Humans and Natural Processes."*

As many of you are aware, the purpose of NOVA's Annual Green Festival is to increase both the college and local community awareness of regional, national, and global environmental issues and provide information regarding ways that individuals can help preserve the environment. While our target audience is high school and college students, the event is free and open to the public.

The festival will be a combination of presentations and panel discussions. Ideally, it will help the audience recognize ways they can conserve resources, promote change, and make a difference as individuals. More information and Zoom registration links are here – www.nvcc.edu/green-festival/2021 (and a printable/distributable flyer is attached).

As in the past, we invite you to join us for this topical and educational festival.

And please forward this announcement or [share the Facebook event link!](#)

Thank you!

Robert Johnson

Director of Sustainability & Auxiliary Services

Northern Virginia Community College
4001 Wakefield Chapel Rd
Annandale, Virginia 22003-3796





Photo Credit: Gary Robinette

NOVA's Annual GREEN FESTIVAL 2021

RESTORE THE EARTH: A Discussion of the Interconnections and Relationships Between Humans and Natural Processes.

Schedule

Wednesday, March 24, 2021

10:15 a.m. - 3:00 p.m.

Online - Via Zoom

Keynote and Q&A

10:15 a.m. - 11:15 a.m.

Keynote Speaker - **Dr. Wallace Nichols**

How Being Near, In, On, or Underwater Can Make you Happier, Healthier, More Connected, and Better at What You Do

11:15 a.m. - 12:00 p.m.

Q&A Group Session with Attendees and Students

Afternoon Sessions

12:30 p.m. - 1:00 p.m.

Beekeeping In Virginia - **Martha Kiene**

EAS Master Beekeeper, President - Virginia State Beekeeping Association

1:00 p.m. - 2:00 p.m.

Sustainable Food, Farming & Forests - **Hala Elbarmil**

Greenhouse and Gardens Coordinator, GMU
Examples of Restoration and Natural Connection in an Urban Setting

2:00 p.m. - 3:00 p.m.

Leave No Trace - **Nancy Chamberlain**

Former NOVA Professor, Current GMU Professor
Leave No Trace Principles and How Individuals Interact with Nature and the Environment

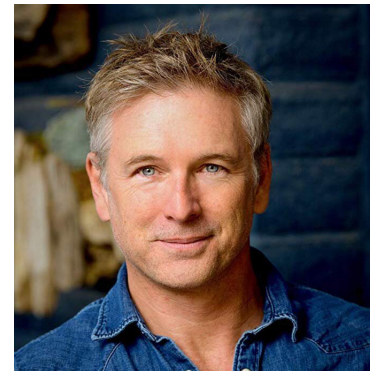
This event is free and open to the public.

For additional information and to register, visit

www.nvcc.edu/green-festival/

Your Keynote Speaker: Dr. Wallace Nichols

Dr. Wallace "J" Nichols is an innovative, silo-busting, entrepreneurial scientist, movement maker, renown marine biologist, voracious Earth and idea explorer, wild water advocate, bestselling author, sought after lecturer, and fun-loving Dad. He also likes turtles (a lot).



Dr. Nichols collaborates tirelessly to create the new story of water and share it with the world. This story includes the vast cognitive, emotional, psychological, social, physical, and spiritual benefits that we can all derive from healthy waters and oceans throughout our lives.

In 2017 Fijian Prime Minister Voreqe Bainimarama presented the Champion of Change Award at the World Oceans Festival on Governor's Island, New York to Dr. Nichols.

Nichols' experiences and creativity as a field research scientist, government consultant, founder and director of numerous businesses and nonprofit organizations, teacher, mentor, parent, and advisor all support his quest to build a stronger, more inclusive and diverse blue movement.

NOVA | Northern Virginia
Community College

Public Involvement Activity #4



06/25/2021 09:37



06/25/2021 09:37



06/25/2021 09:37