



Alexandria, Annandale,
Loudoun & Woodbridge Campuses

Municipal Separate Storm Sewer System Annual Report

For

General Permit No. VAR040095

Permit Year

July 1, 2021 through June 30, 2022

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, 2022

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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, 2021 through June 30, 2022


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: 9-30-2022 _____

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	Speaking Engagement	Presentations to the Provosts and staff at each campus on stormwater and environmental compliance	6 Presentations, Approximately 60 Participants	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	TMDLs and Local Impaired Waters	Speaking Engagement	Stormwater Impacts brochure disseminated & TMDL discussion with students	100 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 Annandale 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	Fall Environmental Film Festival 11/17/2021 & 11/18/2022	Educational	85 participants	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Stream & Nature Trail Clean-up 4/29/2022	Restoration	14 participants & 5 bags of trash	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Spring Green Festival 4/19/22 & 4/20/22	Educational	150 participants	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4	Snow Operations Meeting Annandale Campus 12/13/2021	Educational	17 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: Sediment from milling Beauregard Street for repaving washed into the Beauregard parking garage at the Alexandria campus during a heavy rain event.

Part I.E.3.e(3)(b) Date Observed & Date Reported: 9/23/2021

Part I.E.3.e(3)(c) Detected during Screening, Reported by Public or Other (Describe): Reported by Facilities staff from the college.

Part I.E.3.e(3)(d) Investigation Resolution: City of Alexandria was notified. The City and Virginia Paving cleaned out the garage and inlets on 9/27/2021.

Part I.E.3.e(3)(e) Description of Follow-up Activities: The contractor removed all sediment from the garage and inlets.

Part I.E.3.e(3)(f) Date Investigation Closed: 9/27/2021

Illicit Discharge #2

Part I.E.3.e(3)(a) Source: Sediment discharge from offsite to Outfall #2 at the Loudon campus during a heavy rain event.

Part I.E.3.e(3)(b) Date Observed & Date Reported: 8/18/2021

Part I.E.3.e(3)(c) Detected during Screening, Reported by Public or Other (Describe): Reported by Facilities staff from the college.

Part I.E.3.e(3)(d) Investigation Resolution: Loudoun County officials were notified of the illicit discharge. County officials never responded with any explanation nor resulted in any investigation on their part.

Part I.E.3.e(3)(e) Description of Follow-up Activities: No further activities were conducted. NOVA's investigation suspected a construction site south of the campus may have been responsible.

Part I.E.3.e(3)(f) Date Investigation Closed: 10/30/2021

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
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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
Permeable Paver Sidewalk Extension - Woodbridge Campus	2	0	0	0
LA Building Façade Loudoun Campus	17	0	0	0
Temporary Parking Lot Loudoun Campus	6	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 9/27/2022 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 (Existing plans in place.)

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

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
2/2022	1	Pesticide Training

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 type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> Yes <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 type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (No training required. Certification proof maintained on file.) <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.) =	11.17	1.50	1,290.82
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.) =	25,711		
	TN (lbs./yr.)	TP (lbs./yr.)	TSS (lbs./yr.)
Provided Reduction (lbs.) =	44.99	18.00	5,399
Future 40% Reduction (lbs.) =	77.44	9.37	8,963.40
% Achieved towards 40% (%) =	58	192	60

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?	<input checked="" type="checkbox"/> Yes (July 2022) <input type="checkbox"/> No
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 checked="" type="checkbox"/> Yes <input 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 (2021-2022) <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. 	<input checked="" type="checkbox"/> Yes (6/30/2022) <input type="checkbox"/> No
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)	<input checked="" type="checkbox"/> Yes (6/30/2021) <input type="checkbox"/> No
4	<ul style="list-style-type: none"> • Salt Management Program Progress provided on the MS4 Annual Report • Action Plan Updated as Necessary • Snow Operations Staff Training 	<input checked="" type="checkbox"/> Yes (10/1/2022) <input type="checkbox"/> No
5	<ul style="list-style-type: none"> • Salt Management Program Progress provided on the MS4 Annual Report • 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 • 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

Table 24: Accotink Creek Watershed Chloride TMDL Action Plan Program Progress

#	Summary of Progress
1	The Working Group consists of the Chief Facilities Officer, Associate Director of Operations, Manager - Environmental Services, Environmental Specialist, Annandale Campus Facility Manager, Annandale Campus Grounds Supervisor, and the Director of Parking and Transportation.
2	Conducted a snow operations training session December 13th for the Annandale Campus B&G staff concerning snow operations. Items discussed at the meeting included snow plowing methods, equipment, drivers and their assigned areas on campus, and priorities for plowing.
3	The Working Group met June 17th and discussed NOVA's Accotink Creek Chloride TMDL Action Plan, SaMS, and what activities NOVA will have to complete to come into compliance. The group discussed the previous winter's activities and reported salt usage by campus and types of salt used. Discussed equipment types and needs, equipment calibration, current SOPs for procedures and training, and what types of recordkeeping will be required. This information will be used to begin the development of a Salt Management Program.

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

Yes No ()

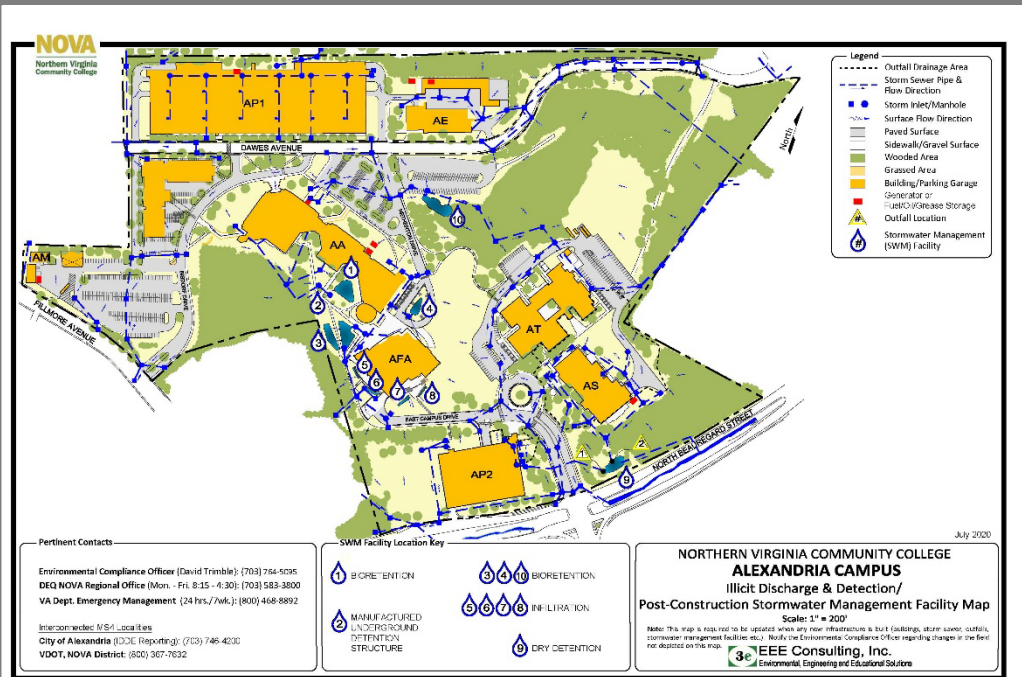
Are the MS4 Program measurable goals effective?

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

Environmental Services



- Stormwater Compliance
- Dam Safety
- UST/AST Compliance
- ESC Compliance
- Hazardous Waste
- Pollution Prevention
- Underground utilities, Landscaping, Trees, GIS, Safety



Vehicle Fleet

- Manage 204 vehicle fleet
- Surplussed old vehicles
- Optimize Fleet
- Data/Records/Analysis
- Maintenance

High Priority Stormwater Issue #2

Stormwater Impacts

Receiving waters downstream of storm sewer systems are impacted by the increased volume and velocity of runoff, along with the pollutants transported within the runoff.

Flooding: Stormwater runoff from intense rainfall can exceed the carrying capacity of the stormwater system and waterways which can lead to the flooding of roads, yards and structures.

Erosion: Uncontrolled stormwater rapidly increases the amount of runoff flowing into a stream which can wash away stream the bank and transport the sediment downstream impacting aquatic habitat and water quality.

Pollution: Stormwater runoff flows across surfaces such as parking lots and roadways. It mobilizes contaminants such as animal waste, chemicals, pesticides, hydraulic oil, trash and sediment. These contaminants are then transported downstream to streams, rivers and ultimately the ocean. These contaminants can harm aquatic habitats and prevent recreational use in waterways.



NOVA's Stormwater Program

The Environmental Protection Agency (EPA) and the Virginia Department of Environmental Quality (DEQ) regulate stormwater runoff, including runoff from NOVA's storm sewer system. In response, NOVA implements a comprehensive stormwater management program. NOVA's program addresses stormwater with a multi-faceted approach that includes:

- Public education and outreach on stormwater impacts;
- Public involvement/participation in activities targeted to improve stormwater quality;
- Detection and elimination of illicit (non-stormwater) discharges to the storm sewer;
- Requirements for construction site runoff controls;
- Requirements to provide long-term stormwater management practices for new construction;
- Standard operating procedures to minimize/eliminate negative impacts from campus and contractor activities;
- Implementation of stormwater best management practices to reduce pollutant loads.

For questions or comments concerning NOVA's Stormwater Management Program or to learn about volunteer opportunities, contact NOVA's Environmental Compliance Officer at: stormwater@nvcc.edu.

Stormwater Runoff Impacts

and the Impact You Can Make



Information concerning NOVA's Stormwater Management Program can be found on NOVA's website at: <http://www.nvcc.edu/stormwater/>

What Is Stormwater Runoff?

Stormwater runoff is precipitation such as rain or snow that does not soak into the ground or otherwise become captured in tree canopy or evaporate from the ground when settled in depressions. Stormwater runoff is dramatically increased as a result of human development of land. The increase is caused as a result of hardened (impervious) surfaces such as roadways, parking lots and rooftops. Managed grassy areas are also often hardened during the development phase, reducing the soils ability to infiltrate rainfall. The result is an increased volume of rainfall running off into local creeks and streams.

Did you know?

Stormwater runoff that enters a storm inlet is not directed to a treatment plant like the water flushed down the toilet. Storm sewer systems typically directly discharge to the nearest surface waterway. We have all seen an oil sheen on the asphalt in a parking lot and, yes, the contaminant causing that sheen will soon be in the nearby creek in which you may like to fish or swim. Have you ever dumped something down a storm drain? Did you know pet waste contributes to bacterial impairments in streams? Do you wash your car over a storm drain? Are there any other contaminants you leave exposed to precipitation? If so, you are contributing to the degradation of our waterways!

What is an Illicit Discharge?

Illicit discharges can threaten public safety, public health, and the environment. An illicit discharge is any substance other than stormwater that enters the storm sewer system or receiving waterbody. Illicit discharges can occur on account of specific activities that can result in the exposure of materials to precipitation that could be transported through stormwater runoff. Examples include:

- Vehicle or equipment washing;
- Hydraulic fluid or fuel leaks from vehicles and equipment;
- Excessive application of pesticides, herbicides and fertilizers; and
- Dumping of trash or other waste

Allowable non-stormwater discharges include fire-fighting activities, water line flushing, and landscape or lawn irrigation. These discharges may flow into the storm sewer or waterway without consequence.

Illicit discharges are prohibited on NOVA campuses and enforcement is implemented with corrective or disciplinary action consistent with the NOVA Policy 11.9.1 Pollution Prevention incorporated into the student, faculty and staff handbooks. <http://www.nvcc.edu/policies/docs/pollution-prevention-policy.pdf>

Illicit discharges should be reported to NOVA immediately so that appropriate corrective actions can be taken. Corrective actions are taken as necessary by NOVA.

What Steps Can You Take?

Report Illicit Discharges: If you see an illicit discharge, a potential source for an illicit discharge, or witness illegal dumping, you should contact the appropriate personnel in accordance with NOVA's Pollution Prevention Policy <http://www.nvcc.edu/policies/docs/pollution-prevention-policy.pdf>.

Do not cause an illicit discharge: Be mindful when performing activities that could introduce pollutants to stormwater runoff:

- Pick up and properly dispose of pet waste.
- Clean up vehicle fluid or fuel leaks and spills.
- Properly dispose of hazardous substances such as automotive oil, cooking oil, paint, cleaners, etc.
- Apply pesticides, herbicides, and fertilizers per the manufacturer's specifications.



High Priority Stormwater Issue #3

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 in a driveway or parking lot.

To report a potential illicit discharge or improper disposal at



Contact Facilities Management
on your campus or email: stormwater@nvcc.edu

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 carrying disease and harm to
wildlife and the environment.

Help Improve Stormwater Run Off

Place litter and cigarette butts in trash receptacles.
If receptacles aren't visible, take
them home. Take your car to the car wash instead of washing it in a
drainage or parking lot.

To learn more about
how to prevent pollution



Visit www.nova.edu/ehp
for more information.

NEWS FLASH

STUDENT LIFE

GIVE YOURSELF MORE CREDIT

REGISTER FOR SUMMER & FALL CLASSES TODAY!



Need Help or Information? Contact

Registration & Registration

951.247.1234 or reg@nova.edu

Academics

951.247.1234 or academics@nova.edu

Director of Financial Aid, Office of Student

Assistance

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Are you a student?

Take a moment to register for summer and fall classes today!

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Classes Today!

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NOVA HAS YOUR BACK.

Student Support Resources



HELP PAYING FOR CLASSES

Get the information you need to apply for financial aid and enroll in NOVA's flexible payment plan.

Visit www.nova.edu/financial

or www.nova.edu/financial



HELP ACCESSING FREE TUTORING

From math to writing to science to history to psychology, NOVA has extensive support for students seeking extra help. Access our free tutoring services and more.

Visit www.nova.edu/tutoring



HELP WITH LIVING EXPENSES

If financial hardship, NOVA has resources you can use to help with housing, food, transportation, and more.

Visit www.nova.edu/ehp



HELP WITH MENTAL HEALTH CARE

NOVA offers free counseling and support groups for students who experience stress or mental health issues.

Visit www.nova.edu/ehp



NOVA

College of Arts and Sciences

www.nova.edu

Appendix B: Documentation of Public Involvement Activities

Public Involvement Activity #1

FROM EXECUTIVE PRODUCER ANTHONY

WASTE

The Story of Food Waste

Nov. 17th



NVCC FALL ENVIRONMENTAL FILM FESTIVAL!

NOVEMBER 17TH & 18TH
7-9 PM | VIRTUAL

← REGISTER AT INDIVIDUAL LINKS →

One movie per night with discussion in Zoom Chat for the exchange of ideas



Nov. 18th



NOVA
Northern Virginia
Community College

only know the end of the story... and that's just the beginning.

A PALE BLUE DOT



LAURENCE & DE VITO INCORPORATED • VIRGINIA SCREENPLAYS

“WASTED! THE STORY OF FOOD WASTE aims to change the way people buy, cook, recycle and eat food. Through the eyes of chef-heroes like Anthony Bourdain, Dan Barber, Mario Batali, Massimo Bottura and Danny Bowien...” — Amazon editorial review

“THE STORY OF PLASTIC is a life-changing film depicting one of the world’s most pressing environmental issues.”— storyofstuff.org

...ck-out doc that should be shown in every U.S. ... at least once.” — Film Pulse

Sponsored by the AN Green & Beautification Committee & The Office of Sustainability

Public Involvement Activity #3

THE GREENING OF NOVA



NOVA's Annual GREEN FESTIVAL 2022

A Virtual Green Festival - Zoom Registration Required

Tuesday, April 19, 2022

[Register Here](#)

7:00 - 8:30 p.m.

Film: Wasted! The Story of Food Waste

Wednesday, April 20, 2022

[Register Here](#)

11:00 - 11:10 a.m.

Welcome!

Dr. Karen Bushaw-Newton

11:10 - 11:55 a.m.

Moving Beyond Gas

Ways to get around in the DC area

Sonya Breehey - [Coalition for Smarter Growth](#)

11:55 - 12:00 p.m.

Raffle #1

12:00 - 12:55 p.m.

Sustainable Food

Michael Biddick, Owner - [Blend 111](#)

12:55 - 1:00 p.m.

Raffle #2

1:00 - 1:55 p.m.

Sustainable You

Adam Vogel - Master Naturalist

Justin Garrity, President - [Veteran Compost](#)

1:55 - 2:00 p.m.

Raffle #3

2:00 - 2:30 p.m.

NOVA's Sustainable Initiatives &

Closing Remarks

Rob Johnson, Director of [Sustainability](#) and [Auxiliary Services](#), NVCC

2:30 p.m.

Raffle #4



This event is free and open to the public.

For additional information and to register, visit

www.nvcc.edu/green-festival/

NOVA | Northern Virginia
Community College

Public Involvement Activity #4

Snow Meeting Roster

Annandale Campus

Date: 12/13/2021

Umeed Iqbal
Harold Foster
Warren Ellinger
Matthew Petty
Scott Sheridan
Danny Merenda
Jay Hines
Mark Firaben
Mike Matias
Mike Colbert
Nam Vo
Aleks Pisarski
Ricky Johnson
Glenn Waltersdorff
Daniel Robertson
Evan Wright
David Trimble