



Alexandria, Annandale,
Loudoun & Woodbridge Campuses

Municipal Separate Storm Sewer System Annual Report

For

General Permit No. VAR040095

Permit Year

July 1, 2018 through June 30, 2019

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, 2019

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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)

Permitee 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, 2018 through June 30, 2019

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: Director of Facilities Planning and Support Services

Signature:



Date:

9-30-2019

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	Completion Status
1	Public education on stormwater runoff	Media materials	Brochure distributed via email to all students, faculty and staff.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	TMDLs and Local Impaired Waters	Speaking Engagement	Talk given to students who installed storm drain stenciling about IDDEs and TDMLs.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Good Housekeeping and Pollution Prevention	Media materials	Stormwater Survey and link to website sent via email to all students, faculty and staff.	<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 communications accomplished to the intended public audience indicated in the MS4 Program Plan? Yes (Effective) No (Ineffective)

If any communications were determined to be ineffective, describe changes necessary to the MS4 Program. Include the response 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 (See Appendix B) Not Applicable (No inputs/complaints received.)

If yes, were responses provided? Yes (See Appendix B) 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 4.

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	Metric	Collaboration	Beneficial
Booth at Green Festival at Annandale Campus	200+	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Booth at Earth Day Event at Alexandria Campus	125+	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Annandale Student Green Club Stream Clean-Up Event at Manassas Campus	32	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Storm Drain Marking by students at Annandale Campus	5	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 4.

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input 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 type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" 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

2.2.7. 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 responses Yes or Not Applicable?

Yes (Effective) No (Ineffective)

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response 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 yard 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) Not Applicable (No illicit discharges.)

Table 5: Illicit Discharges

Illicit Discharge #1

Part I.E.3.e(3)(a) Source: Sediment laden stormwater runoff from an offsite construction project on Fillmore Avenue flooded the Beauregard Garage on the Alexandria campus.

Part I.E.3.e(3)(b) Date Observed & Date Reported: 7/18/2018

Part I.E.3.e(3)(c) Detected during Screening, Reported by Public or Other (Describe): Reported by the Facility Manager.

Part I.E.3.e(3)(d) Investigation Resolution: NOVA procured a contractor to clean-up the garage and properly dispose of the sediment. The City of Alexandria issued a Notice to Comply to the offsite construction contractor. The contractor upgraded the site's ESC controls.

Part I.E.3.e(3)(e) Description of Follow-up Activities: NOVA is pursuing legal action to cover the costs associated with the clean-up efforts.

Part I.E.3.e(3)(f) Date Investigation Closed: 8/20/2018

Illicit Discharge #2

Part I.E.3.e(3)(a) Source: Sediment laden stormwater runoff from an offsite construction project on Fillmore Avenue flooded the Beauregard Garage on the Alexandria campus as a result of silt fence and sediment trap failure.

Part I.E.3.e(3)(b) Date Observed & Date Reported: 9/04/2018

Part I.E.3.e(3)(c) Detected during Screening, Reported by Public or Other (Describe): Reported by the Facility Manager.

Part I.E.3.e(3)(d) Investigation Resolution: NOVA procured a contractor to clean-up the garage and properly dispose of the sediment laden. The City of Alexandria issued a Notice to Comply to the offsite construction contractor. The contractor corrected the site's ESC controls.

Part I.E.3.e(3)(e) Description of Follow-up Activities: NOVA is pursuing legal action to cover the costs associated with the clean-up effort.

Part I.E.3.e(3)(f) Date Investigation Closed: 9/15/2018

Illicit Discharge #3

Part I.E.3.e(3)(a) Source: Petroleum laden equipment stored in the bed of a truck spilled petroleum laden stormwater onto the ground after a rain event.

Part I.E.3.e(3)(b) Date Observed & Date Reported: 10/11/2018

Part I.E.3.e(3)(c) Detected during Screening, Reported by Public or Other (Describe): Reported by the Facility Manager.

Part I.E.3.e(3)(d) Investigation Resolution: Absorbent was applied to the petroleum sheen, swept and properly disposed of.

Part I.E.3.e(3)(e) Description of Follow-up Activities: None.

Part I.E.3.e(3)(f) Date Investigation Closed: 10/11/2018

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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 responses Yes or Not Applicable?

Yes (Effective) No (Ineffective)

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response 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:

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 is 37.

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

The total number and type of enforcement actions implemented:

The total number of enforcement actions implemented is 1.

The total number of Notices of Violation (Red flags) issued is 1.

The total number of Stop Work Orders (Black flags) issued is 0.

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

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

Was the response to whether 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?

Yes (Effective) No (Ineffective)

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response 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 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 47.

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 8.

Table 8: Maintenance Activities Performed on Stormwater Management Facilities	
Stormwater Management Facility	Significant Maintenance Activity
NVCC-SWM-AL-9	Repaired the damaged lid on the riser structure to prevent access to animals and debris. Repair completed October 2018
NVCC-SWM-AN-1	Regraded the bottom of the dry detention basin where an erosive channel had developed. Repair completed May 2019.

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?

Yes No 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, Date Submitted: No Not Applicable (No SWM facilities constructed or BMPs implemented.)

2.5.6. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 9.

Table 9: 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 (In accordance w/ new MS4 General Permit) <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 responses Yes or Not Applicable?

Yes (Effective) No (Ineffective)

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response 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 10) No Not Applicable (No modifications required.)

Table 10: Good Housekeeping Operational Procedures Developed or Modified

1. Training was changed from annually to biennially.
2. The training quiz was removed from the program as a tool to measure effectiveness.
3. The requirements for modifying the Program was removed in accordance with the 2019-2023 MS4 General Permit.
4. The language was changed to better explain the difference between a good housekeeping action that prevents an IDDE versus a reportable IDDE, which forms to use, who to report to in each scenario and when.
5. Updated sources that are not considered IDDEs in accordance with new regulatory definitions.
6. Added to and expanded on several operation and maintenance procedures, added a maintenance schedule language and commonly generated pollutants list.
7. Updated several waste management disposal procedures pertinent to new regulatory requirements.

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 11) No Not Applicable (No new high priority facilities)

Table 11: New SWPPPs Developed

SWPPP Name	SWPPP Address

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) Not Applicable (No high priority facilities delisted)

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 12.

Table 12: SWPPPs Modified or Delisted	
SWPPPs Modified/Delisted	Rationale for Delisting

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 NMPs in place. No new NMPs required this reporting year.)

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 13.

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 13.

Table 13: New Turf and Landscape Nutrient Management Plans		
Location	Total Acreages	Date Approved
5000 Dawes Avenue, Alexandria, VA 22311	9.27	7/30/2018
8333 Little River Turnpike, Annandale, VA 22003	13.74	7/30/2018
21200 Campus Dive, Sterling, VA 20164	51.87	7/30/2018
15200 Neabsco Mills Road, Woodbridge, VA 22191	12.76	7/30/2018

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 14.

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 14.

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 14.

Table 14: Training Events		
Date	# of Attendees	Training Objective
5/16/19	63	Good Housekeeping Pollution Prevention & IDDE

2.6.6. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 15.

Table 15: 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 <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 (Not 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 <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 <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 responses Yes or Not Applicable?

Yes (Effective) No (Ineffective)

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response 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 16) Not Applicable (Existing BMPs meet required 5% reductions. Refer to Table 16)

The estimated reduction of pollutants of concern achieved by each BMP reported in pounds per year is provided in Table 16.

Table 16: 2018-2019 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

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 Not Applicable (No credits acquired.)

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 17.

Table 17: 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?	July 2020
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?	July 2021
4	5% reduction requirement complete. Ensure means and methods are in place to meet 40% reduction including additional BMPs if necessary.	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 18.

Table 18: Chesapeake Bay TMDL Action Plan BMPs Planned for 2019-2020
None. Reduction satisfied by existing BMPs.

3.1.5. Chesapeake Bay TMDL Action Plan Measurable Goals

The Chesapeake Bay TMDL Action Plan measurable goals are provided in Table 19.

Table 19: 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 type="checkbox"/> Yes <input checked="" 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 Chesapeake Bay TMDL Special Condition responses Yes or Not Applicable?

Yes (Effective) No (Ineffective)

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response in Section 1.5.

3.2. Local TMDL Action Plan

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 TMDL is provided in Table 20.

Table 20: Neabsco Creek Watershed Bacteria TMDL Action Plan Summary of Actions		
BMP	Summary of Actions	Progress Status
1	Assess target audience’s knowledge through quizzes at the end of training sessions, as described in NOVA’s PEOB	Quizzes not conducted. Plan to remove this BMP in the May 2020 revision. Not an effective metric.
2	Maintain Bacteria TMDL Action Plan on website	Completed
3	Reported/observed potential bacteria illicit discharges resolved	Ongoing. None Observed.
4	Screened outfalls with potential bacteria discharges investigated and resolved	Ongoing. None Observed.
5	Publicly reported potential bacteria illicit discharges resolved	Ongoing. None Reported.
6	Reported potential bacteria illicit discharges from construction activities resolved	Ongoing. None Reported.
7	Ensure SWPPPs provided for applicable construction sites	Completed
8	Verify land disturbance projects are compliant with VSMP Stormwater Management Regulations	Completed
9	Annual inspection of all stormwater management facilities. Maintenance performed on facilities, as deemed necessary from inspection.	Completed
10	Reduction, over time, of items of concern resulting from annual SWPPP inspections.	Yes. Plan to remove this BMP in the May 2020 revision. Not an effective metric.
11	Increase, over time, in the "knowledge score" resulting from quizzes given during training events.	Quizzes not conducted. Plan to remove this BMP in the May 2020 revision. Not an effective metric.
12	Elimination of bacteria related illicit discharges from contractor activity	Ongoing. None Reported.
13	Implementation of Action Plan BMPs beyond those described in the Minimum Control Measure BMPs: prohibition of potential sources; increased frequency of staff training & enhanced public education and outreach plan	Ongoing. Removed increased training in the Program Plan and plan to remove in May 2020 revision.

Appendix A: Documentation of Public Education and Outreach Activities

From: NOVAInfo

Sent: Friday, November 30, 2018 10:01 AM

Subject: Required Env Compliance Email: Stormwater Runoff Impacts

Dear Faculty and Staff:

NOVA's stormwater discharges are regulated by the Virginia Department of Environmental Quality (DEQ) through the General Virginia Pollutant Discharge Elimination System (VPDES) Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4s). Under part of our MS4 General Permit we must develop, implement, and enforce an MS4 Program designed to reduce the discharge of pollutants from our storm sewer system (MS4) to the maximum extent practicable, to protect water quality, ensure compliance with water quality standards and to satisfy the appropriate water quality requirements of the Clean Water Act and its attendant regulations. The MS4 Program includes six minimum control measures (MCMs) which we must implement annually, one of which is a public education and outreach program on stormwater impacts. Please review the below information. If you would like to comment on this email please submit your comments to 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.

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 multifaceted 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.

Environmental Compliance Officer
Northern Virginia Community College

Facilities Planning and Support Services
8333 Little River Turnpike, CW Building, Rm 312
Annandale, Virginia 22003-3796
703-764-5095 Direct
703-434-1443 Cell
703-323-3121 Fax
dtrimble@nvcc.edu

From: NOVAInfo

Sent: Friday, November 30, 2018 10:01 AM

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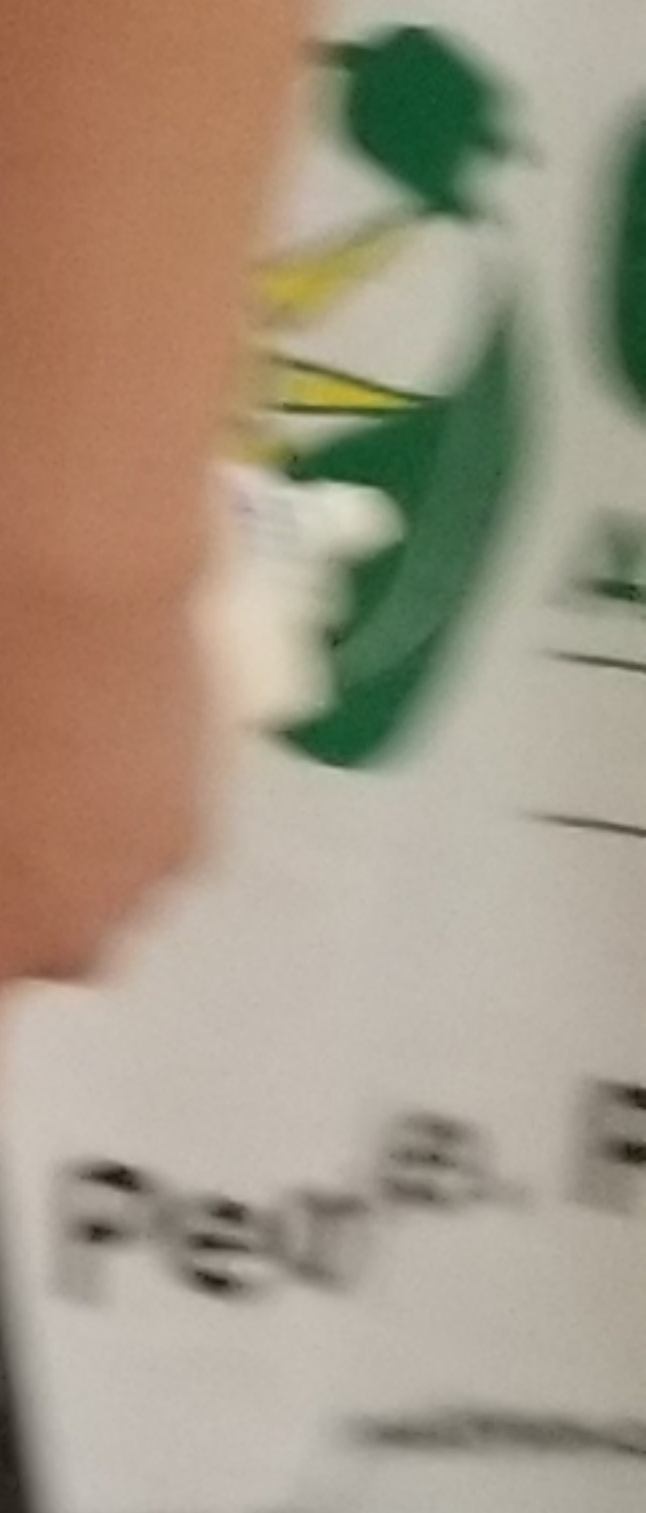
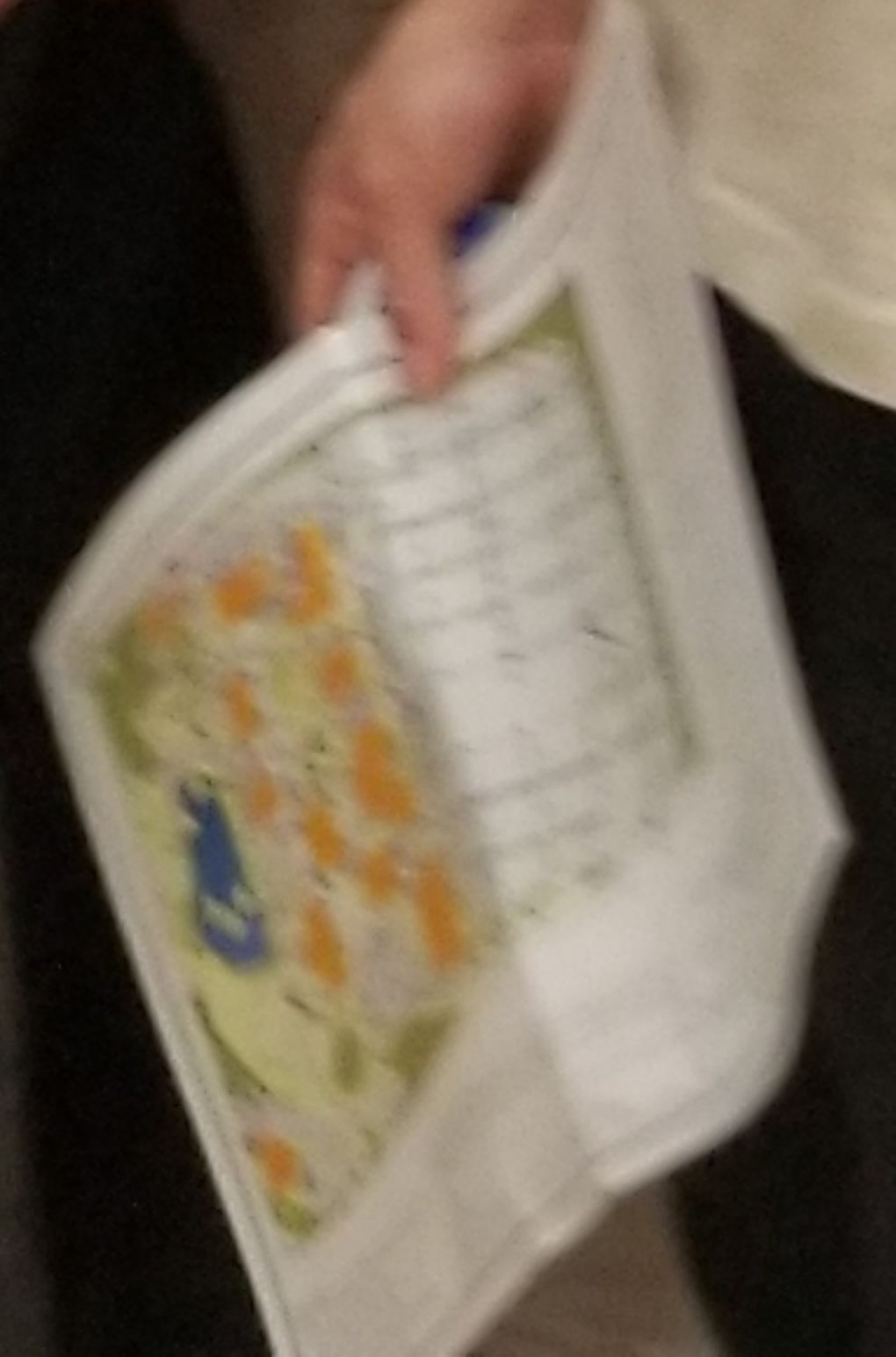
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Nature TRAIL



From: Trimble, David <dtrimble@nvcc.edu>
Sent: Wednesday, April 3, 2019 3:26 PM
To: Thompson, Kathy A. <kathompson@nvcc.edu>
Subject: Stormwater Survey

Kathy

As we discussed last week, I need to send out the following emails regarding our stormwater survey to all Students and to all Faculty & Staff.

Students,

As part of the Municipal Separate Storm Sewer System(MS-4) Stormwater Permit Program for the Northern Virginia Community College, NOVA is required to issue a survey that will inform NOVA and EEE Consulting Inc. (Architect & Engineering firm) of the knowledge students have pertaining to stormwater management. The information received from survey monkey will determine what areas of stormwater management we need to concentrate on in an effort to assist NOVA in its public outreach and education program for the college community. As a student at NOVA, please take a few moments to take the survey. The survey will be available through April 19, 2019. Click on the link below to take the survey.

https://www.surveymonkey.com/r/NVCC_2019_Stormwater_Survey

For more information about NOVA's Stormwater Program, visit our website at <https://www.nvcc.edu/stormwater/>.

If you have any questions or comments, please contact me at stormwater@nvcc.edu.

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Northern Virginia Community College
Facilities Planning and Support Services
8333 Little River Turnpike, CW Building
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Faculty and Staff,

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David C. Trimble, P.G.
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For more information about NOVA's Stormwater Program, visit our website at <https://www.nvcc.edu/stormwater/>.

If you have any questions or comments, please contact me at stormwater@nvcc.edu.

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Appendix B: Documentation of Public Involvement Activities

From: Rwaka Furaha <rbr2961@email.vccs.edu>
Sent: Sunday, September 9, 2018 8:10 PM
To: stormwater
Subject: Chesapeake Bay Stormwater Action Plan comment

Dear Sir or Madam:

I'm writing to comment on the Chesapeake Bay plan as requested by NOVA. After reading the draft plan presented to me, I find it flattering that we met the reduction percentage proposed for the first cycle (2013-2018).

Taking the first step to protect the environment should be indeed what NOVA is about. I find that street sweeping is a well thought BMP and also, I admire other BMPs that have been implemented thus far such as the use of a bioretention means at NOVA campuses. My suggestions on how to improve the TMDL action plan fall in the MCM section. Since human activities are the main cause, if not the only cause, to the Chesapeake Bay water pollution, treating the humans should be equally important as treating the waterways. To convey my point better, I will borrow a quote by the great Canadian physician, Sir William Osler, who once said, " The good physician treats the disease; the great physician treats the patient who has the disease."

In order to make this great plan even more efficient, I find that the following points should be considered.

1. Regarding MCM1(PEOP): Storm sewers should be label in such a manner that allows the NOVA community to determine whether the load discharged into sewers reaches the Chesapeake Bay tributaries; and if so, how it impacts the Chesapeake Bay (especially the wild life)? I have seen this practice in our area but I'm not sure if it is done at NOVA campuses. Not so far ago, I learned the difference between storm sewers and sanitary sewers; and noticing that waters collected by storm sewers impact the wild life (I have heard Oysters are a species threatened to disappear because of the Chesapeake Bay water pollution) has changed how I live my life. Because of my coming to the awareness of the impact of water pollution on wild life, I have chosen to not litter and to live a greener life in general.
2. Regarding MCM3(IDDE): I find that IDDE should go beyond the Student's Handbook as I believe few students actually read the Handbook(personal belief). In addition to the student's handbook, using posters to bring awareness would be more effective.

Thank you for allowing me to share my humble opinion on the plan.

Sincerely;

Rwaka

From: Sarah Mays <smm24286@email.vccs.edu>
Sent: Friday, August 31, 2018 11:44 AM
To: stormwater
Subject: comments on the Chesapeake Bay TMDL plan

the plan talked about reducing the amount of pollutants being emitted from storm drains, but you should also consider implementing rain gardens on and around the campus. They're gardens of native plants placed around storm drains that are the first barrier to prevent other pollutants from entering the drain by absorbing the excess nutrients from runoff. This prevents excess pollutants from entering storm drains. It's easy, it's efficient, and it's not as costly as you might think if you plan it well. You could even enlist NOVA students to help create these as a volunteer activity. The school already offers community service opportunities. This would be an easy addition.

From: Long, Virginia H.
Sent: Thursday, August 30, 2018 10:43 AM
To: stormwater
Subject: NOVA Action Plan

The street sweeping plan proposed seems very well thought-out to me. Though I have no experience in this field at all, I applaud and greatly appreciate all that NOVA is doing toward helping to make the Chesapeake Bay cleaner and safer.

Virginia Long
Adjunct professor

From: Patricia Heick <ps2912@email.vccs.edu>
Sent: Sunday, September 16, 2018 10:20 AM
To: stormwater
Subject: NOVA Chesapeake Bay Stormwater Action Plan

Good morning,

Thank you for the opportunity to provide feedback concerning this very important matter. In briefly reviewing this draft, it is my understanding that the proposal to reduce pollutants at the various NOVA campuses is by implementing a street sweeping program. A few questions concerning this program are:

How often will this be completed and measured?

Could the sweeping effect further distribute pollutants on surrounding areas?

How will the captured pollutants be disposed of to ensure no further contamination?

In addition to the proposed street sweeping, are there other available best practices to further reduce pollutants such as the use of additional vegetation and maximization of existing green space?

Some of this may already be addressed by the notations in Table 24, but thank you again.

Pat Heick

From: Bradford, Arnold J.
Sent: Tuesday, September 4, 2018 12:26 PM
To: stormwater
Subject: Question about Stormwater Plan

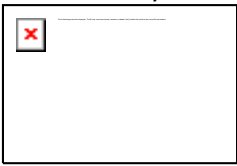
Perhaps I am missing something obvious, but why aren't the Manassas Campus and the Medical Campus participating in this plan?

Arnold Bradford
LO, ELI

From: Keith Hylton <kjh2132@email.vccs.edu>
Sent: Wednesday, August 29, 2018 4:19 PM
To: stormwater
Subject: Re: Woodbridge campus.

I stopped applying Fertilizer on my 1/4 lot three years ago and never had a problem of my lawn looking any different than the others. I also don't spring cut until the grass seeds complete their process. The whole fertilizer and grass seed business is a scam. Just stop the process on the campus's and there's your problem solved with Watershed rules.

Thank you,
Keith Hylton
Sent from my iPhone



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On Aug 29, 2018, at 8:14 AM, stormwater <stormwater@nvcc.edu> wrote:

Actually we do apply fertilizer and we have a Nutrient Management Plan for each campus to ensure the proper application times and quantities based on soil sample results.

From: Autobahn Ranger <kjh2132@email.vccs.edu>
Sent: Tuesday, August 28, 2018 11:31 PM
To: stormwater <stormwater@nvcc.edu>
Subject: Woodbridge campus.

I would love to be more involved with this process.

The first questions I have after looking at the guides, I don't see where the pollutants are coming from. Besides the parking lot's and there car/oil/gas dropping that could run into the drains' I don't see where the Nitrogen and Phosphorus's are coming from. I thought there was no need to fertilize the grounds at the campus. It's not like there a golf course?

Thank you,

Keith Hylton

From: stormwater
Sent: Friday, September 21, 2018 3:08 PM
To: Rwaka Furaha
Subject: RE: Chesapeake Bay Stormwater Action Plan comment

Thank you for your comments.

In regard to your first point, the stormwater inlets on each campus are labeled (though some have been lost or worn away and need to be replaced). The labels state "No Dumping – Drains to". Some labels are specific to the campus such as Annandale which drains to Accotink Creek, and some are generic and just says drains to "Waterways" or more generally to the Chesapeake Bay. We plan to relabel all the inlets within the next six months.

We have developed some posters along these lines and will be distributing them later this year. We also may use the campus TV monitors to post messages as well.

From: Rwaka Furaha <rbr2961@email.vccs.edu>
Sent: Sunday, September 9, 2018 8:10 PM
To: stormwater <stormwater@nvcc.edu>
Subject: Chesapeake Bay Stormwater Action Plan comment

Dear Sir or Madam:

I'm writing to comment on the Chesapeake Bay plan as requested by NOVA. After reading the draft plan presented to me, I find it flattering that we met the reduction percentage proposed for the first cycle (2013-2018).

Taking the first step to protect the environment should be indeed what NOVA is about. I find that street sweeping is a well thought BMP and also, I admire other BMPs that have been implemented thus far such as the use of a bioretention means at NOVA campuses. My suggestions on how to improve the TMDL action plan fall in the MCM section. Since human activities are the main cause, if not the only cause, to the Chesapeake Bay water pollution, treating the humans should be equally important as treating the waterways. To convey my point better, I will borrow a quote by the great Canadian physician, Sir William Osler, who once said, " The good physician treats the disease; the great physician treats the patient who has the disease."

In order to make this great plan even more efficient, I find that the following points should be considered.

1. Regarding MCM1(PEOP): Storm sewers should be label in such a manner that allows the NOVA community to determine whether the load discharged into sewers reaches the Chesapeake Bay tributaries; and if so, how it impacts the Chesapeake Bay (especially the wild life)? I have seen this practice in our area but I'm not sure if it is done at NOVA campuses. Not so far ago, I learned the difference between storm sewers and sanitary

sewers; and noticing that waters collected by storm sewers impact the wild life (I have heard Oysters are a species threatened to disappear because of the Chesapeake Bay water pollution) has changed how I live my life. Because of my coming to the awareness of the impact of water pollution on wild life, I have chosen to not litter and to live a greener life in general.

2. Regarding MCM3(IDDE): I find that IDDE should go beyond the Student's Handbook as I believe few students actually read the Handbook(personal belief). In addition to the student's handbook, using posters to bring awareness would be more effective.

Thank you for allowing me to share my humble opinion on the plan.

Sincerely;

Rwaka

From: stormwater
Sent: Friday, August 31, 2018 2:48 PM
To: Sarah Mays
Subject: RE: comments on the Chesapeake Bay TMDL plan

Thank you for your comment.

As a matter of fact we have bioretention basins (rain gardens) on all our campuses except the Medical Education campus and we have Filterra units on the Annandale and Loudoun campuses. Filterra units are essentially a rain garden within the storm inlet. Not sure what campus you are on, but if you want more information please contact me directly and I can show you where they are.

David C. Trimble, P.G.
Environmental Compliance Officer
Northern Virginia Community College

Facilities Planning and Support Services
8333 Little River Turnpike, CW Building, Rm 312
Annandale, Virginia 22003-3796
703-764-5095 Direct
703-434-1443 Cell
703-323-3121 Fax
dtrimble@nvcc.edu

From: Sarah Mays <smm24286@email.vccs.edu>
Sent: Friday, August 31, 2018 11:44 AM
To: stormwater <stormwater@nvcc.edu>
Subject: comments on the Chesapeake Bay TMDL plan

the plan talked about reducing the amount of pollutants being emitted from storm drains, but you should also consider implementing rain gardens on and around the campus. They're gardens of native plants placed around storm drains that are the first barrier to prevent other pollutants from entering the drain by absorbing the excess nutrients from run-off. This prevents excess pollutants from entering storm drains. It's easy, it's efficient, and it's not as costly as you might think if you plan it well. You could even enlist NOVA students to help create these as a volunteer activity. The school already offers community service opportunities. This would be an easy addition.

From: stormwater
Sent: Friday, September 21, 2018 2:44 PM
To: Patricia Heick
Subject: RE: NOVA Chesapeake Bay Stormwater Action Plan

Thank you for your comments. I hope my responses below answer your questions.

How often will this be completed and measured? We are currently doing monthly sweeping of the campuses to collect data and determine what frequency of sweeping events will be necessary. The results are measured by tracking the weight of material recovered in pounds from which we can calculate the pollutant removals.

Could the sweeping effect further distribute pollutants on surrounding areas? We use a vacuum system for sweeping so no further contamination of surrounding areas will occur.

How will the captured pollutants be disposed of to ensure no further contamination? Sweeping materials are disposed of in the local landfill.

In addition to the proposed street sweeping, are there other available best practices to further reduce pollutants such as the use of additional vegetation and maximization of existing green space? We have a variety of stormwater best management practices in use at our campuses including bioretention basins (rain gardens), filterra units, underground detention facilities, detention basins, wet ponds, infiltration systems, rainwater harvesting facilities, vegetated roofs, stormwater filters, and permeable pavers. Facilities is always looking at methods to enhance the landscaping across the campuses to take advantage of existing spaces and/or increase the green spaces. We also are planting trees on the campuses to help reduce stormwater runoff and pollutants through infiltration and absorption, and reduce heat island effects of parking lots, sidewalks, and rooftops, while providing wildlife habitats. NOVA also has a Good Housekeeping/Pollution Prevention Manual and Nutrient Management Plan which are designed to reduce pollutants and prevent the release of pollutants in the first place.

If you would like more information, please contact me.

David C. Trimble, P.G.
Environmental Compliance Officer
Northern Virginia Community College

Facilities Planning and Support Services
8333 Little River Turnpike, CW Building, Rm 312
Annandale, Virginia 22003-3796
703-764-5095 Direct
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dtrimble@nvcc.edu

From: Patricia Heick <ps2912@email.vccs.edu>
Sent: Sunday, September 16, 2018 10:20 AM

To: stormwater <stormwater@nvcc.edu>

Subject: NOVA Chesapeake Bay Stormwater Action Plan

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Some of this may already be addressed by the notations in Table 24, but thank you again.

Pat Heick

From: stormwater
Sent: Tuesday, September 4, 2018 2:33 PM
To: Bradford, Arnold J.
Subject: RE: Question about Stormwater Plan

The Manassas and Medical Education Campuses are not part of the plan as these campuses are not covered under NOVA's MS4 Permit. The Medical Education Campus is only one building and is considered a discrete system and exempt from coverage under the permit. The Manassas Campus is outside of the Urbanized Census Area for Manassas and is therefore exempt from the permit requirements as well.

-----Original Message-----

From: Bradford, Arnold J.
Sent: Tuesday, September 4, 2018 12:26 PM
To: stormwater <stormwater@nvcc.edu>
Subject: Question about Stormwater Plan

Perhaps I am missing something obvious, but why aren't the Manassas Campus and the Medical Campus participating in this plan?

Arnold Bradford
LO, ELI

From: stormwater
Sent: Wednesday, August 29, 2018 8:15 AM
To: Autobahn Ranger
Subject: RE: Woodbridge campus.

Actually we do apply fertilizer and we have a Nutrient Management Plan for each campus to ensure the proper application times and quantities based on soil sample results.

From: Autobahn Ranger <kjh2132@email.vccs.edu>
Sent: Tuesday, August 28, 2018 11:31 PM
To: stormwater <stormwater@nvcc.edu>
Subject: Woodbridge campus.

I would love to be more involved with this process.

The first questions I have after looking at the guides, I don't see where the pollutants are coming from. Besides the parking lot's and there car/oil/gas dropping that could run into the drains' I don't see where the Nitrogen and Phosphorus's are coming from. I thought there was no need to fertilize the grounds at the campus. It's not like there a golf course?

Thank you,

Keith Hylton

From: Patrick Greenwalt <pgg210@email.vccs.edu>
Sent: Thursday, September 13, 2018 7:01 PM
To: stormwater
Subject: Stormwater Management sources.

Noaa- <https://www.noaa.gov/media-release/noaa-usgs-and-partners-predict-larger-summer-dead-zone-for-chesapeake-bay>

From: Patrick Greenwalt <pgg210@email.vccs.edu>
Sent: Thursday, September 13, 2018 6:37 PM
To: stormwater
Subject: Stormwater management.

Good evening,

My name is Patrick Greenwalt and I am commenting on the Chesapeake Stormwater Action Plan (CSAP).

I first want to comment on the privilege Northern Virginia Community College to have students speak out on such topics.

I believe this community can do good under the circumstances for the environment. It is our duty to preserve such value of the land at which live off of.

As cautiously aware of the condition of most waterways in the Virginia region, I believe that Chesapeake Stormwater Action Plan (CSAP) would most benefit many of the waterfronts in the region and the CSAP plan to reduce the nutrients which flow into the many of the streams in Virginia.

I believe that the CSAP action to inform the public about such topic would be highly advisable. The more people who are aware, the more people will have a better understand and possibly take action.

It is important to understand how vital our watershed works. When pollution enters our stream, these pollutants will flow to the Chesapeake Bay which then will flow out into the Atlantic ocean. This is a serious matter because this year scientist estimate that the Chesapeake bay will have 1.83 square miles of low oxygen levels, or “dead zones”. If we fail to protect our natural water watershed systems then we fail to live on Earth.

From: Autobahn Ranger <kjh2132@email.vccs.edu>
Sent: Tuesday, August 28, 2018 11:31 PM
To: stormwater
Subject: Woodbridge campus.

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Thank you,

Keith Hylton



NOVA'S ANNUAL GREEN FESTIVAL 2019

Biodiversity and Urbanization

Thursday, April 25, 2019

9:15 a.m. – 3:00 p.m.

Annandale Campus - CE Building

Keynote Speaker: Dr. Joan Maloof – 9:30 a.m. CE Theater

Founder/Executive Director, Old-Growth Forest Network

Speaking for the Trees...and Other Living Things

Native Plants & Stormwater Presentation – 10:30 a.m. CE Theater

Lunch & Panel Discussion – 11:45 a.m. CE Forum

Film: “The Last Stand: Ancient Redwoods and the Bottom Line”

1:00 p.m. CE Theater

Information Fair – 10:00 a.m. – 3 p.m. CE Gym

*FREE & OPEN TO THE PUBLIC, WITH OPEN PARKING
IN ALL B LOTS & THE CAMPUS GARAGE*

*FOR ADDITIONAL INFORMATION & TO REGISTER TO WIN A PRIZE
VISIT WWW.NVCC.EDU/GREEN-FESTIVAL/2019*

NOVA | **Northern Virginia
Community College**

EARTH DAY

@ NOVA Alexandria



Save the Date!

Tuesday, April 16, 2019

**FILM & DISCUSSION/WASTE AUDIT
RESOURCE TABLES/ PLEDGE TABLE**



InNOVate and Green Clubs Participate in Nature Trail Cleanup

[December 17, 2018](#) [helaker 0 Comments](#) [manassas campus](#)

InNOVate, Green club members and their friends participated in the cleanup of the Nature Trail at the Manassas Campus. It was the trail's largest-ever clean-up effort. About 30 student volunteers braced the cold weather and took time out of their Sunday morning to make the campus cleaner. This was part of ASEZ (Save the Earth from A to Z) university student volunteer group of the World Mission Society Church of God's campaign, "Reduce Crime Together Movement," that is held at 300 campuses in 19 countries around the world. It empowers students to be the initial change that can influence the world. Part of the movement carried out on Sunday is called "Mother's Street Cleanup," where students carry out the work with the mind of a mother, who selflessly serves and unconditionally loves her children.

NOVA Police Lieutenant John Weinstein was on hand to present public safety tips. By signing the letter of support for this global movement, he backed ASEZ and the clubs' activities, encouraging students to continue their great work.

The Nature Trail was covered by autumn leaves, affecting its visibility alongside trash near the stream. Volunteers gathered five bags worth of trash and cleared the leaves and fallen logs along the walkway so that students and faculty members can walk safely on the trail. Participants

enjoyed the cleanup and got to see firsthand changes they made for the school and for the community.

The InNOVAte club of Annandale Campus plans to continue volunteer activities throughout the semesters and years to come.

For more information on both clubs, please contact Peter Lee, InNOVAte club President at InnovateNova@gmail.com or jl22989@email.vccs.edu; and Zachary Keller, Green Club President at zkeller@nvcc.edu.

Special thanks to Ramunda Young, Campus and Community Relations; Jonathan Harvey, Faculty Advisor to the Green club (both at Manassas); and Maria Nieto-Shahsavarian, Faculty Advisor to InNOVAte club for lending a helping hand in organizing this cleanup.

For more information on the ASEZ movement, please visit ASEZ.org to learn about other initiatives and global efforts.



Northern Virginia
Community College
Annandale Campus
→ West Drive
↑ Exit to
Wakefield Chapel Rd.

STOP

NO LEFT TURN

← 710 →









A man in a light grey polo shirt and blue jeans stands on the left, holding a map. The map shows a grid of streets with various colored markers (green, orange, blue) indicating specific locations or zones. He is looking down at the map.

A man in a dark blue polo shirt and grey pants is kneeling on the concrete. He is pointing with his right hand at a small, circular sticker on the ground. The sticker is blue and green with some text and a logo. A black bag is on the ground next to him.

A man in a blue and white checkered short-sleeved shirt and khaki pants stands on the right, holding a document. The document has a map on it and some text. He is looking towards the man kneeling.