Brightpoint COMMUNITY COLLEGE

Midlothian and Chester Campuses

Municipal Separate Storm Sewer System Annual Report

For

General Permit No. VAR040110

Permit Year

July 1, 2022 through June 30, 2023

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 29, 2023

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APPENDICES

TABLES

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: Brightpoint Community College

System Name: Virginia Community College System

Permit Number: VAR040110

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

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

July 1, 2022 through June 30, 2023

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: Arnold Kramer

Title: Director of Facilities and Safety

Signature:  Date: 9/28/23

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
None

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 the 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.

Table 2: High Priority Stormwater Issues

#	Stormwater Issue	Strategy	Communication	Metric	Beneficial
1	Public education of stormwater runoff	Traditional written materials	Information distributed via email to all students, faculty, and staff	Seen by approximately 14,600 students, faculty and staff	☒ Yes ☐ No
2	TMDLs and Local Impaired Waters	Media materials	Slides on monitors for 1 week in July 2022	Seen by approximately 500 students, faculty and staff	☒ Yes ☐ No
3	Pollution Prevention	Signage	Storm Drain Markers No Dumping! Drains to the Swift Creek Reservoir, Redwater & Ashton Creeks	15 installed at Midlothian Campus and 1 at the Chester Campus. Seen by approximately 7,000 students, faculty and staff	☒ Yes ☐ 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 ☒ Not Applicable

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.brightpoint.edu/index.php?/about/sustainability/

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	Category	Metric	Collaboration	Beneficial
ENV-121 General Environmental Science 1 3/29/2022 - 12/17/2022	Education	136 Students	Not Applicable	☒ Yes ☐ No
ENV-121 General Environmental Science 1 1/17/2023 - 5/9/2023	Education	164 Students	Not Applicable	☒ Yes ☐ No

Phi Theta Kappa Brown Island Park Cleanup - 4/2023	Restoration	5 Participants	Not Applicable	☒ Yes ☐ No
Clean the Bay Day at Rotary Park on Pocahontas Island, Petersburg - 6/3/2023	Restoration	Removed 700 - 800 pounds of trash, truck tires, rug, countertop, oven door, car battery, etc.	Friends of the Lower Appomattox River	☒ Yes ☐ 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?	☐ Yes ☐ No ☒ Not Applicable
2.1	Is the effective MS4 permit and coverage letter on the webpage?	☒ Yes ☐ No
2.1	Is the most current MS4 Program Plan on the webpage?	☒ Yes ☐ 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?	☒ Yes ☐ No ☐ 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	☒ Yes ☐ No

	regarding land disturbing activities or other potential stormwater pollution concerns on the webpage?	
2.1	Is there a method for how the public can provide input of the MS4 Program Plan on the webpage?	☒ Yes ☐ No
2.1	Is the latest Virginia Community College System Annual Standards and Specifications on the webpage?	☒ Yes ☐ 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 ☒ Not Applicable (No changes required)

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 11. 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
Part I.E.3.e(3)(a) Source:
Part I.E.3.e(3)(b) Date Observed & Date Reported:
Part I.E.3.e(3)(c) Detected during Screening, Reported by Public or Other (Describe):
Part I.E.3.e(3)(d) Investigation Resolution:
Part I.E.3.e(3)(e) Description of Follow-up Activities:
Part I.E.3.e(3)(f) Date Investigation Closed:

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?	☐ Yes ☒ Not Applicable (No new or discovered) ☐ No
3.2	Did all students, faculty and staff have access to the Standards of Conduct for Employees and the Student Handbook for Students?	☒ Yes ☐ No
3.3	Were illicit discharge detection and elimination procedures implemented, enforced and documentation maintained?	☒ Yes ☐ No

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

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

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

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

2.4. MCM #4: Construction Site Stormwater Runoff Control

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

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

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

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

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

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

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

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

If no is checked above, an explanation as to why a project did not conform to the approved standards and specifications is 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 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 of enforcement actions implemented, Notices to Comply and Stop Work Orders issued are provided in Table 8.

Table 8: Construction Project(s)				
Project Name(s)	Total Inspections	Total Notices to Comply (Red Flags)	Total Stop Work Orders (Black Flags)	Total Enforcement Actions

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:

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 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 16.

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

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 VSMP 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 qualifying SWM facilities constructed or structural BMPs implemented.)

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?	☒ Yes ☐ No
5.2	Was the stormwater management facility tracking database updated?	☒ Yes ☐ 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 new 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 new SWPPPs modified after an unauthorized discharge, release or spill reported?

☐ Yes (Refer to Table 13) ☐ 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 13) ☒ 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	

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))

If yes is checked above, 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 (Refer to Table 15) ☐ No ( ) ☐ Not Applicable (Not required this reporting year.)

If yes is checked above, 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
June & July 2023	40	Good Housekeeping and Pollution Prevention and IDDE
February 2023	2	Pesticide and Herbicide Application
1/20/25 - 5/5/23	1	Pesticide and Herbicide Application

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?	☒ Yes ☐ Not Applicable (Not required this reporting year) ☐ No
6.2	Was the annual comprehensive compliance evaluation conducted?	☒ Yes ☐ No
6.2	Was the SWPPP reviewed within 30 days after an unauthorized discharge, release or spill reported?	☐ Yes ☒ Not Applicable (Not required) ☐ No
6.2	Was the SWPPP updated within 90 days after an unauthorized discharge?	☐ Yes ☒ Not Applicable (Not required) ☐ 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?	☒ Yes ☐ No
6.3	Was the nutrient management plan implemented through completion of application records?	☐ Yes ☒ Not Applicable (No nutrients applied) ☐ No
6.4	Were all signed contracts executed with contract good housekeeping and pollution prevention language?	☐ Yes ☒ No (BCC to work with VCCS.)
6.5	Did all signed contracts executed for pesticide and herbicide application maintain proof of certifications on file?	☒ Yes ☐ Not Applicable (No contracts executed) ☐ No

6.6	Did training occur and were proof of certifications maintained on file for employees performing pesticide and herbicide applications?	☒ Yes ☐ Not Applicable (No employees applied pesticides) ☐ 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 (BMP 6.4)

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 ( )

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: Reductions for BMPs Installed after January 1, 2006 and prior to July 1, 2009			
	TN (lbs./yr.)	TP (lbs./yr.)	TSS (lbs./yr.)
Retention Basin (MI-2) Midlothian Campus	2.11	1.32	512.61
Extended Detention Basin (MI-4), Midlothian Campus	0.30	0.10	71.97
Provided Reduction (lbs.) =	2.41	1.42	584.58
BMP #2: Reductions from Street Sweeping			
	TN (lbs./yr.)	TP (lbs./yr.)	TSS (lbs./yr.)
SCP-11 (1 pass every 4 weeks or approximately 10 passes per year, 30.36 lane miles per pass) Provided Reduction (lbs.) =	0	0	21
BMP #3: Land Use Change Conversion			
	TN (lbs./yr.)	TP (lbs./yr.)	TSS (lbs./yr.)
0.93 acres of impervious to turf, Chester Campus	5.09	0	801.66
2.87 acres of turf to mixed open, Midlothian Campus	16.90	3.21	0
Provided Reduction (lbs.) =	21.99	3.21	801.66

Summary of 40% POC Reductions BMPs/Practices			
	TN (lbs./yr.)	TP (lbs./yr.)	TSS (lbs./yr.)
BMP #1: BMPs between 1/106 – 6/30/09	2.41	1.42	584.58
BMP #2: Street Sweeping	0	0	21
BMP #3 Land Use Change Conversion	21.99	3.21	801.66
Provided Reduction (lbs.) =	24.4	4.63	1,407.24
Required 40% Reduction (lbs.) =	21.81	4.80	2,101.22

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

If the permitee 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?	☒ Yes (July 2019) ☐ No
2	5% reduction requirement complete. Make adjustments to frequency based on 2019 information obtained.	Completed tracking documentation with increase sweeping frequency?	☒ Yes (July 2020) ☐ 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?	☒ Yes (July 2021) ☐ 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?	☒ Yes (July 2022) ☐ 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?	☒ Yes (July 2023) ☐ No
6	Report on Chesapeake Bay TMDL 40% reduction achievement.	Recorded results in Annual Report?	☒ Yes (Oct 2023) ☐ No

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
1. Street Sweeping
2. Land Use Change Conversion
3. Nutrient Credit Purchase

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		
BMP	**Measurable Goal**	**Completeness Status**
1	Were public comments considered during the required 15-day comment period?	☐ Yes ☒ Not Applicable (Not required this reporting year) ☐ No
2	Were cost effective BMPs selected to support model quantification to achieve the required pollutant reductions?	☒ Yes ☐ Not Applicable (Not required this reporting year) ☐ No
3	Was the required pollutant reduction reached for this reporting year?	☐ Yes ☒ 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 (The contracted street sweeping vendor conducted street sweeping with a mechanical broom sweeper. However, BCC will ensure in subsequent years that the street sweeping vendor will use a vaccuum sweeper.)

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 Plan

3.2.1. James River Tidal 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 James River Tidal Bacteria TMDL is provided in Table 21.

Table 21: James River Tidal E.coli TMDL Action Plan Summary of Actions		
BMP	**Summary of Actions**	**Progress Status**
1	Educate the public on how to reduce food sources accessible to urban wildlife by the distribution of an educational brochure	☒ Yes ☐ No

Were all measurable goals completed in accordance with the James River Tidal 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.)

Appendix A: Documentation of Public Education and Outreach Activities

High Priority Stormwater Issue #1

From:	Kramer, Arnold "Chip"
To:	Shelton, Sara
Subject:	FW: Storm Water Awareness Information - Protecting Our Watersheds
Date:	Thursday, September 14, 2023 10:07:17 AM
Attachments:	image004.png

FYI

Chip Kramer, MPA
Director of Facilities and Safety
Brightpoint Community College
phone: 804-840-8354
email: akramer@brightpoint.edu
brightpoint.edu

From: Brown, Tanya <Tbrown01@brightpoint.edu>
Sent: Monday, July 18, 2022 1:34 PM
Subject: Storm Water Awareness Information - Protecting Our Watersheds

Greetings Brightpoint Faculty & Staff,

As part of the college's ongoing education and outreach reference safety, please review the information below & attached.

Protecting our watersheds/What is MS4?

Do you know what MS4 stands for? It stands for **M**unicipal **S**eparate **S**torm **S**ewer **S**ystems. Discharges from MS4s are regulated under the Virginia Storm Water Management Act, the Virginia Stormwater Management Program (VSMP), and the EPAs Clean Water Act. John Tyler Community College's storm water discharges are regulated under this federal and state program. As part of our permit responsibilities, Brightpoint submits an MS4 Report to the Virginia Department of Environmental Quality, to show that we are meeting our established BMP's (Best Management Practices).

What is a watershed?

A watershed is an area of land that drains all the streams and rainfall to a common outlet such as the outflow of a reservoir, mouth of a bay, or any point along a stream channel. The word watershed is sometimes used interchangeably with drainage basin or catchment. We all live in a watershed, and our individual actions can directly affect it. Pollutants that dump into our water ways not only contaminate our drinking water, but they also kill wildlife that inhabit the watershed.

Where is Brightpoint's watershed?

All precipitation and water draining from the Midlothian Campus flows into Tomahawk Creek and then into the Swift Creek Reservoir. The Chester Campus drains in two directions. The east side of Chester Campus drains into Redwater Creek, a tributary of Proctors Creek, and ultimately to the James River. The west side of Chester Campus drains to Ashton Creek, a tributary of the Appomattox River. Both Chester and Midlothian watersheds flow into a larger watershed which is the Chesapeake Bay. The Chesapeake Bay Watershed covers 64,000 square miles and drains from six states, including the Commonwealth of Virginia.

What is Brightpoint doing to protect our watershed?

Through Brightpoint's MS4 program, Brightpoint aims to be good environmental and community stewards by preventing pollution, providing resources for detecting/eliminating illicit discharges, and promoting awareness to our students, staff, and service region.

How can I help?

- Conserve water every day. Take shorter showers, fix leaks & turn off the water when not in use.
- Don't pour toxic household chemicals down the drain; take them to a hazardous waste center.
- Use hardy plants that require little or no watering, fertilizers or pesticides in your yard.
- Do not over apply fertilizers. Consider using organic or slow release fertilizers instead.
- Recycle yard waste in a compost pile & use a mulching mower.

- Use surfaces like wood, brick or gravel for decks & walkways; allows rain to soak in & not run off.
- Never pour used oil or antifreeze into the storm drain or the street.
- Pick up after your dog, and dispose of the waste in the toilet or the trash.
- Drive less—walk or bike; many pollutants in our waters come from car exhaust and car leaks.
- Report any illicit discharges
    - Brightpoint Chester Campus – 804-796-4025
    - Brightpoint Midlothian Campus – 804-897-6678
    - Chesterfield County – 804-717-6161
    - VDOT – 800-663-4188

Additional Resources

https://brightpoint.edu/about/sustainability/
http://water.epa.gov/action/weatherchannel/

Tanya N. Brown
Assistant Director of College Safety & Security
Brightpoint Community College
office: 804-638-0577
email: tbrown01@brightpoint.edu
brightpoint.edu

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High Priority Stormwater Issue #2

From:	Kendrick, Lisa
To:	Brown, Tanya
Subject:	RE: MS4 Stormwater Slides
Date:	Friday, July 15, 2022 9:29:08 AM
Attachments:	image003.png image001.png

Hi Tanya. Sure thing, I'll try to get this up today. I'll let you know once it's running.
Happy Friday!

Lisa Kendrick (she/her)
Office and Events Specialist
Brightpoint Community College
office: 804-594-1527
email: lkendrick@brightpoint.edu
brightpoint.edu

From: Brown, Tanya <Tbrown01@brightpoint.edu>
Sent: Friday, July 15, 2022 8:53 AM
To: Kendrick, Lisa <Lkendrick@brightpoint.edu>
Subject: MS4 Stormwater Slides

Hello Lisa,
At your earliest convenience, are you able to run the attached slides on the monitors on both campuses for about 1 week.
I know there is perhaps more pressing items that need to be posted, but this is important for compliance reasons with the state's environmental quality office and federal EPA. Pls confirm receipt and your plan of action with this.

Thanks in advance,

Tanya N. Brown
Assistant Director of College Safety & Security
Brightpoint Community College
office: 804-638-0577
email: tbrown01@brightpoint.edu
brightpoint.edu

STORMWATER REGULATIONS

WHY WE HAVE TO?

Federal Clean Water Act

WHO SAYS?

Virginia Laws and Regulations

MS4 General Permit
Construction General Permit
VA Stormwater Management Program
Erosion & Sediment Control

WHERE APPLICABLE?

MS4 General Permit Holder

State properties within the census urbanized area

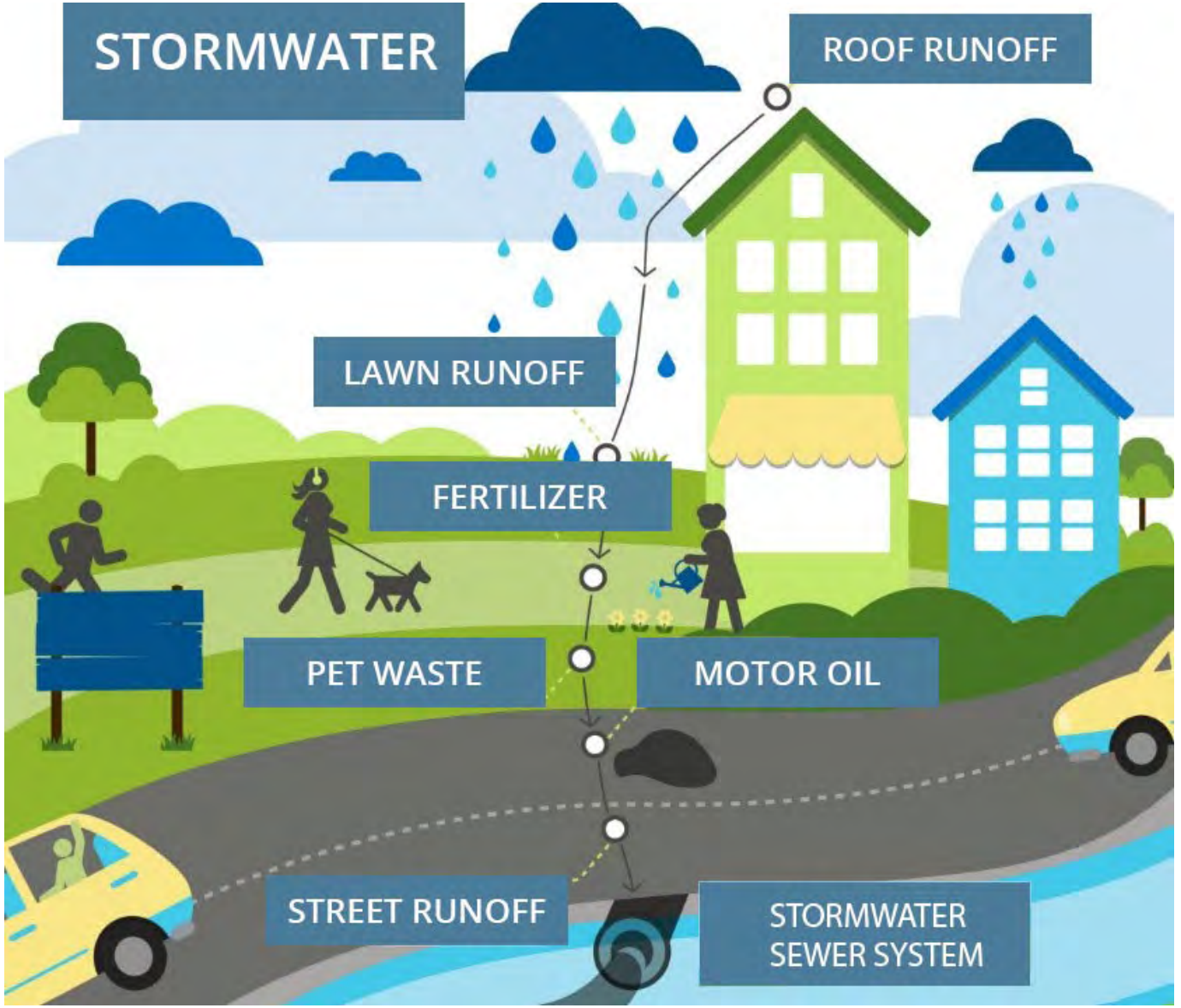
Municipal Separate Storm Sewer System (MS4):

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

For More Information: https://brightpoint.edu/about/sustainability/

Pollutants are Carried Away in Stormwater Runoff

When it rains on roofs, lawns and streets, stormwater picks up fertilizer, pet waste, motor oil, sediment and other pollutants carrying the pollutants to a stormwater sewer system or ditch that leads to a local waterway.



Source: www.northgeorgiawater.org

For More Information: https://brightpoint.edu/about/sustainability/

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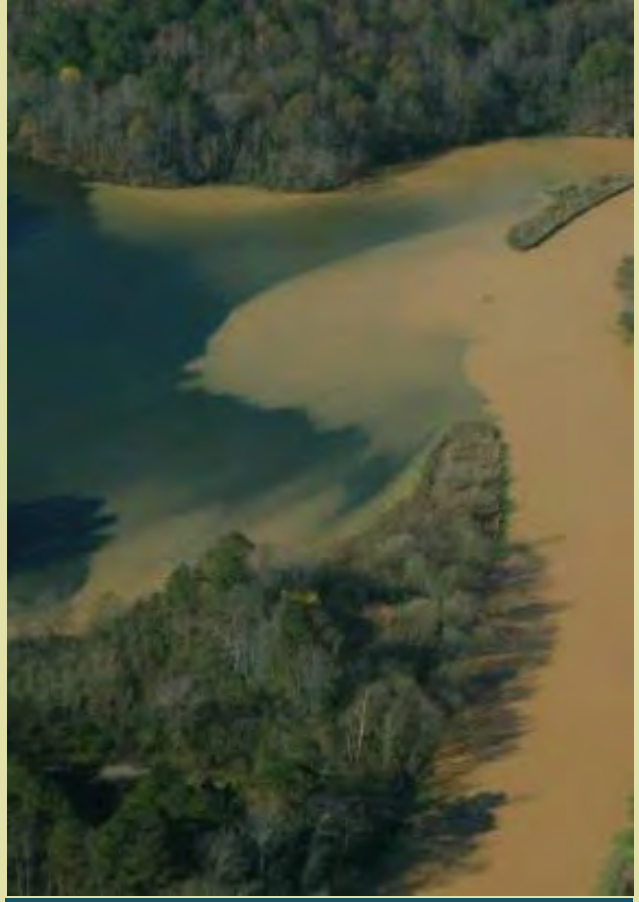
STORMWATER RUNOFF PICKS UP SEDIMENT & POLLUTANTS AFTER A RAINFALL.

SEDIMENT & POLLUTANT LADEN RUNOFF FLOWS INTO STORM SEWER SYSTEMS.



STORM SEWER INLETS DRAIN DIRECTLY INTO OUR LOCAL WATERBODIES.

OUR LOCAL WATERBODIES FLOW INTO THE CHESAPEAKE BAY & TO THE OCEAN.

Impacts of Stormwater Runoff

Sediment from **construction sites** & **streambank erosion** from urbanization adversely affect the health of our local streams & rivers & the Chesapeake Bay.

For More Information: https://brightpoint.edu/about/sustainability/

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TOTAL MAXIMUM DAILY LOAD (TMDL)

TMDL is a plan (pollution diet) that establishes the maximum amount of a pollutant a waterbody can hold & meet water quality standards.

WLA is the quantity of the pollutant (sediment, nitrogen, bacteria, etc.) that may be discharged.

Waterbodies are tested & those that do not meet water quality standards are given impairments for the pollutant(s) of concern (POC).

MS4s are assigned a WLA for the POC & must meet annual reductions requirements per a TMDL Action Plan.

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For More Information: https://brightpoint.edu/about/sustainability/

Chesapeake Bay TMDL

The Chesapeake Bay TMDL requires a reduction of three main pollutants: nitrogen, phosphorous and sediment.

BCC implements a MS4 Program to reduce and prevent pollution on campus, adheres to construction laws and follows a Nutrient Management Plan.

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For More Information: https://brightpoint.edu/about/sustainability/

Nitrogen and Phosphorous as Pollutants

Fertilizer applied to lawns and agriculture flows into our local waterways and into the ocean causing harmful algae blooms.

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For More Information: https://brightpoint.edu/about/sustainability/

Algae Bloom Impacts to Virginia's Waterways

Algae blooms create toxins and cause waterways to be unsafe for swimming and unhealthy for human and wildlife consumption.

Algae blooms block out sunlight, reduce oxygen in the water and clog fish gills.

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For More Information: https://brightpoint.edu/about/sustainability/

Sediment as a Pollutant

Many Virginia waterways are designated as impaired for sediment meaning applicable water quality standards are not being attained.

Pollutant sources are land disturbance activities, bare lawn areas, streambank and stream channel erosion.

How Sediment Impacts Virginia's Waterbodies

- Clogs fish gills
- Destroys spawning beds
- Reduces visibility to locate prey
- Decreases water depth
- Increases water temperature
- Reduces light penetration stunting plant growth
- Interferes with navigation, flood control, recreation & fishing industries

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LOCAL IMPAIRED WATERWAYS

A portion of BCC's Chester campus directly discharges into Redwater Creek which flows into the James River.

The Redwater Creek is impaired by dissolved oxygen and the James River is designated as an impaired waterway for bacteria.

Excessive algae growth caused by phosphorous from fertilizers contribute to low dissolved oxygen levels in waterways.

Pollutant sources of bacteria are livestock, pet and wildlife waste and sanitary sewer overflows.

Bacteria as a Pollutant

Pollutant sources of bacteria are wildlife, livestock and pet waste, sanitary sewer overflows and combined sanitary and storm sewer systems.

Improperly disposed of animal waste and human waste from sanitary overflows cause high levels of bacteria (E.coli) in waterways.

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For More Information: https://brightpoint.edu/about/sustainability/

How to Reduce Local TMDL Pollutants

WILDLIFE, PET & HUMAN WASTE

- Do not feed waterfowl and other birds on campus such as Canadian geese, seagulls and pigeons.
- Ensure you place food waste in secured waste containers so as not to draw birds.
- Pick up pet waste.
- Regularly inspect sanitary systems to ensure proper functioning and condition.

FERTILIZER USE

- Perform a soil test to determine how much Phosphorous the turf needs and only apply the amount needed at the rate recommended by the manufacturer.
- Ensure that equipment is calibrated correctly and do not leave bags and bottles of fertilizer stored outdoors.
- Fertilize at the appropriate time by avoiding placing fertilizer prior to a rain event.

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For More Information: https://brightpoint.edu/about/sustainability/







ILLICIT DISCHARGE

Any discharge that enters the storm drain system or a natural drainage way on campus that is not composed entirely of stormwater.

To report an illicit discharge, spill or an improper disposal contact BCC Security Services on Chester at 804-796-4025 and Midlothian at 804-897-6678.

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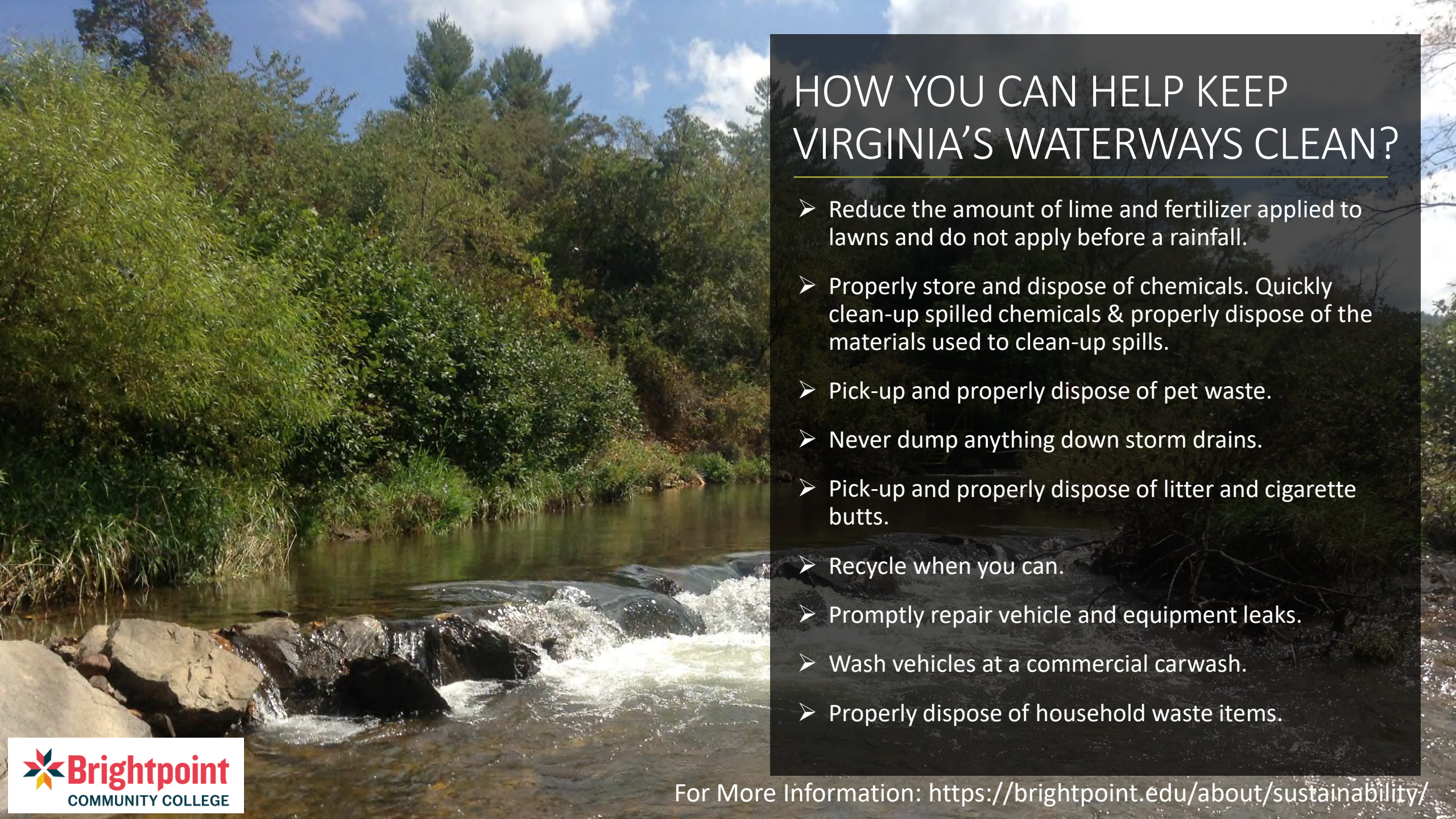
For More Information: https://brightpoint.edu/about/sustainability/



HOW YOU CAN HELP KEEP VIRGINIA'S WATERWAYS CLEAN?

- Reduce the amount of lime and fertilizer applied to lawns and do not apply before a rainfall.
- Properly store and dispose of chemicals. Quickly clean-up spilled chemicals & properly dispose of the materials used to clean-up spills.
- Pick-up and properly dispose of pet waste.
- Never dump anything down storm drains.
- Pick-up and properly dispose of litter and cigarette butts.
- Recycle when you can.
- Promptly repair vehicle and equipment leaks.
- Wash vehicles at a commercial carwash.
- Properly dispose of household waste items.

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For More Information: https://brightpoint.edu/about/sustainability/

High Priority Stormwater Issue #3


No Dumping!
This Drains To Swift Creek Reservoir

Appendix B: Documentation of Public Involvement Activities

Public Involvement Activity #1

Institutional Policies
(https://vccs.instructure.com/courses/533903/pages/institutional-policies)

Support (https://vccs.instructure.com/courses/533903/pages/support)

Accessibility
(https://vccs.instructure.com/courses/533903/pages/accessibility-statements)

Privacy (https://vccs.instructure.com/courses/533903/pages/privacy-policies)

SPRING 2023

ENV 121 General Environmental Science | Virtual | Asynchronous

Faculty Information

- **Faculty Name and Title**: Dr. Amanda Lentz-Ronning (she/her)
- **Faculty Email:** ALentz-Ronning@brightpoint.edu
- **Campus Office:** Chester, M 129b
- **Campus Phone:** (804) 768-6632
- **Office Hours:**
- - In-person: T 12:20 - 2:20; W - 9:30 -12:30
  - Virtual: M 9:00 - 2:00 (For Virtual hours you must schedule a Zoom meeting 24 hrs in advance using this link: **Schedule Virtual Meeting (https://jtcc.campus.eab.com/pal/uposut8a8r)**). My Zoom link is: **https://vccs.zoom.us/j/8047686632 (https://vccs.zoom.us/j/8047686632)**
  - By appointment: We can Zoom or meet at another mutually convenient time if you cannot make the times listed or need last-minute help
- **Communication Plan:**
  - **Announcements:** each week I will send a weekly overview using the announcements tool in Canvas.
  - **Speedgrader:** I will leave comments about your work in the Speedgrader. We can have a message exchange there as well! Please check them :)
  - **Email:** Contact me by email and I will do my best to get back to you within 24 hrs. Monday through Thursday. When emails are sent Friday through Sunday I may not respond until

the next business day, which is Monday.

- **Canvas messaging:** I will do my best to get back to you within 24 hrs. Monday through Thursday. When messages are sent Friday through Sunday I may not respond until the next business day, which is Monday. Messages sent through Canvas may take me a little longer to respond to since it requires that I open Canvas. My email comes straight to my phone :)

Course Materials

- This is a Follett Access Course. Follett Access course digital course material is charged through the college with tuition and fees and will be accessible through Canvas the 1st day of class. However, required Lab manuals and lab kit materials must be purchased separately. Loose-leaf text is optional purchase.
- Keep in mind that if you are taking other courses using Cengage materials, it may be possible that you can "upgrade" to a full Cengage Unlimited subscription at a reduced fee or no additional cost, and any other Cengage course materials will be part of this subscription.

  · Be sure to launch these and any other IncludEd course materials first from your Canvas, then see what the remaining cost would be on "upgrading" to a Cengage Unlimited subscription. Please contact Shelly Tomlin (**shelly.tomlin@cengage.com (mailto:shelly.tomlin@cengage.com)**) if you have any questions at all about accessing or purchasing Cengage materials or about your access code not working. If you need help with using MindTap you can contact Cengage technical support and/or you can refer to the following for more information: **How to Access Cengage Materials. (https://cengage.widen.net/view/pdf/7h2ego3iji/gui_mt-canvas-stu-quick-guide-inclusive-access.pdf?t.download=true&u=c8lcjz)**

- **Course Textbook:** Cengage Access Card Miller's Environmental Science v2, 16th Edition, 1 Semester Access
  - ISBN: 9780357629406
  - Author: Miller and Spoolman
  - Publisher: Cengage
- **Computer, webcam, proctoring software (free), and regular access to the internet.**
- **Laboratory**: purchase of laboratory materials from the store. **List of materials (https://johntyler-my.sharepoint.com/:w:/g/personal/jbeyer_jtcc_edu/EeRBbps83x9FjqQb1c8YdAkBG_449yCGDoueVlYc e=dgzZDT)** .
- **Access to Microsoft Office**
  - All students have free access to Microsoft Office through the VCCS.

  - Access by going to Canvas, in the Global Navigation click 'Help'. Then click on 'VCCS Resources' and scroll down
- **Required Personal Protective Equipment:** You may wish to purchase disposable gloves. Students should adhere to standard safety precautions and follow safety tips provided by the instructor while completing the laboratories
- **Proctoring:** **Respondus Lockdown Browser (http://www.google.com/url?q=http%3A%2F%2Fwww.respondus.com%2Flockdown%2Fdownload.php%3Fid%3D432216390&sa=D&mLo_UA)** and Respondus Lockdown Monitor will be used for proctored exams. You will need to download the software through Canvas. To do so, click on the '? Help' in the far-left menu in Canvas. Then scroll down in the pop-up menu to the 'VCCS Resources' link and click on it. At the bottom of the page, you will see a link to download the proctoring software. Students must also have a webcam and a computer. Students need to be in a quiet room with no interruptions to take proctored tests. Students should not have headphones on or be listening to any music, watching tv, taking any phone calls or texts during proctored exams.
- **Computer:** You cannot take an online course without reliable access to a computer to access materials and submit assignments. If you do not have a computer, you should contact the BCC library immediately to see if there is one available to check out during the semester. Lastly, the world is an imperfect place.... if you unexpectedly lose computer access, note that there are computer labs and library access on campus.
- **Canvas access:** Announcements, laboratories, and reminders will be made using this system. You will be able to access your grades here, and labs will be submitted via this learning management system. If you are not familiar with Canvas, please utilize the tutorials available in our course shell. You must access it regularly to keep up with the course.

Course Description

Explores fundamental components and interactions that make up the natural systems of the earth. Introduces the basic science concepts in the discipline of biological, chemical, and earth sciences that are necessary to understand and address environmental issues. Lecture 3 hours. Recitation and Laboratory 3 hours. Total 6 hours per week. Part I of II. **Credit Hours: 4**

Schedule

Week	Chapter Overview
1 - Jan 16	**Chapter 1 Overview (https://vccs.instructure.com/courses/533903/pages/chapter-1-overview-do-not-skip-or-you-will-miss-important-instructions)**

2 -Jan 23	**Chapter 2 Overview (https://vccs.instructure.com/courses/533903/pages/chapter-2-overview)**
3 -Jan 30	**Chapter 3 Overview (https://vccs.instructure.com/courses/533903/pages/chapter-3-overview)**
4 -Feb 6	**Exam 1 Review and Exam 1 (https://vccs.instructure.com/courses/533903/pages/exam-1-overview)**
5 -Feb 13	**Chapter 4 Overview (https://vccs.instructure.com/courses/533903/pages/chapter-4-overview)**
6 -Feb 20	**Chapter 5 Overview (https://vccs.instructure.com/courses/533903/pages/chapter-5-overview)**
7 - Feb 27	**Chapter 6 Overview (https://vccs.instructure.com/courses/533903/pages/chapter-6-overview)**
8 -Mar 6	**Exam 2 Review & Exam 2 (https://vccs.instructure.com/courses/533903/pages/exam-2-overview)**
March 13 - 18	Spring Break
9 - Mar 20	**Chapter 12 Overview (https://vccs.instructure.com/courses/533903/pages/chapter-12-overview)**
10 - Mar 27	**Chapter 13 Overview (https://vccs.instructure.com/courses/533903/pages/chapter-13-overview)**
11 -Apr 3	**Chapter 15 Overview (https://vccs.instructure.com/courses/533903/pages/chapter-15-overview)**
12 -Apr 10	**Exam 3: Review and Exam 3 (https://vccs.instructure.com/courses/533903/pages/exam-3-overview)**
13 -Apr 17	**Chapter 11 Overview (https://vccs.instructure.com/courses/533903/pages/chapter-11-overview)**
14 -Apr 24	**Chapter 14 Overview (https://vccs.instructure.com/courses/533903/pages/chapter-14-overview)** and **Exam 4 (Take home) (https://vccs.instructure.com/courses/533903/pages/exam-4-overview)**
Final Exam	**Final Exam Overview (https://vccs.instructure.com/courses/533903/pages/exam-study-guide)**

Academic Calendar if you wish: **https://www.brightpoint.edu/academics/academic-calendar/ (https://www.brightpoint.edu/academics/academic-calendar/)** .

Course Learning Outcomes

Upon completion of the course, students will be able to do the following:

1. Examine the role of environmental ethics in decision-making and environmental stewardship.
2. Evaluate different perspectives, opinions, and statements about environmental issues in terms of their logic, content, scientific merit, and biases.
3. Demonstrate the ability to work well in groups and display situationally and culturally appropriate behavior in the classroom.
4. Perform accurate calculations, interpret scientific data and graphs, and use results to support conclusions.
5. Apply the scientific method to make informed decisions and engage with issues related to environmental science
6. Develop, convey, and exchange ideas in writing on different topics in environmental science.

Evaluation and Grading

I use a weighted grading scale and not a point system to calculate your grade. Your grade is comprised of the following components:

CATEGORY	WEIGHTED AVERAGE
Tests (4 total)	40%
Comprehensive Final Exam	15%
Laboratory	25%
Scavenger Hunts	10%
MindTap and Discussion Boards	10%

Timeframe for Grading and Feedback on Assignments:

Most of the grading in this course will be automatically graded by Canvas or MindTap and released for review immediately. Even though assignments are automatically graded, I still review the assignment to make sure no mistakes are made. If you see a mistake, please contact me so that I can fix it. Manually graded items such as essay questions will take a bit longer to grade (up to a week). Students are strongly encouraged to review graded assignments by going to Grades and clicking on the grade for the assignment. Feedback is released for laboratories and tests are released three days after the due date providing all students have completed the assignments. Please do not hesitate to ask questions about anything that is of concern.

Academic Honesty

At Brightpoint we expect the highest standards of academic honesty. Violations of academic honesty include the following:

- Cheating: This includes seeking or giving unauthorized help on examinations, papers, and other academic assignments.
- Plagiarism: This is defined as using another's words or ideas and representing them as one's own either knowingly or unknowingly. In other words, by not documenting sources of information correctly or not putting quotation marks around exact phrasing and documenting the source, one is committing plagiarism. Information on the internet is not yours for the taking – please cite all quotations appropriately, and be sure to also correctly cite sources when summarizing and paraphrasing.
- Plagiarism Checker Software: Your professor has access to Turnitin or other plagiarism software which aids in detecting improperly cited materials. All of your written work may be submitted to Turnitin or other plagiarism checker software for analysis. Your instructor may ask you to upload your documents yourself. If you have concerns about your written work being stored in a database, you should address the issues at the beginning of the academic term.
- Using written work previously submitted for another class is considered academic dishonesty.
- Uploading course materials to commercial websites (such as Course Hero, Chegg, etc.) is an act of academic dishonesty.
- Misconduct in the area of academic honesty is subject to disciplinary action, which can include failure for the assignment, or even failure of the course.

For the full Academic Dishonesty Policy please visit: **Academic Dishonesty - Brightpoint Community College - Acalog ACMS™ (https://catalog.brightpoint.edu/content.php?catoid=6&navoid=439)**

Attendance and Participation

Regular attendance is a key factor for student success in a course. Instructors take and report weekly on class attendance.

- **How Attendance is Measured by Your Instructor:** This is a fully online class. Attendance is verified by active and timely participation as measured by posting to a discussion board, submitting assignments, submitting quizzes, or other evidence of participation as stated below. Note: for online classes, logging into Canvas or a third- party course is not sufficient, by itself, to demonstrate attendance by the student.
- **Number of Absences Allowed:**
  - If you fail to submit an assignment due for the week, on the due date (not late), then you will be marked absent. Accruing more than 5 absences before the last day to withdraw will result in administrative withdrawal. (Extended absences should be discussed in advance with the instructor.)
  - The following assignments will be counted as absences if you fail to attend or submit on time:
    - Getting Started Assignments
    - Laboratory assignments
    - Tests/Exams
    - Scavenger hunts
    - Failure to submit both MindTap assignments that are due for the week.
      - Environmental Science in Action
  - What Would You Do?

ATTENDANCE & WITHDRAWAL POLICIES:

Last Day to Drop with Refund: Students can drop a class prior to the date listed on the Attendance & Withdrawal tab under Institutional Policies at the top of the syllabus page in Canvas and receive a full refund. The drop may result in financial aid revisions.

Never Attended: Students who do not attend a class prior to the last day to drop will be reported as never attended and administratively dropped from the class.

- Tuition will not be refunded.
- The withdrawal may result in financial aid revisions.

Withdrawal with a W: Students may withdraw from classes without academic penalty through the date listed on the Attendance & Withdrawal tab under Institutional Policies at the top of the syllabus page in Canvas. It is the student's responsibility to meet the necessary deadline.

- To withdraw from a class, students should send an email from their college email account to **admissionsandrecords@brightpoint.edu (mailto:admissionsandrecords@brightpoint.edu)** , providing your name, student ID#, course number, and section.
- Students who stop attending before the withdrawal deadline and subsequently violate the instructor's attendance policy will be administratively withdrawn.
- In cases of documented mitigating circumstances approved by the instructor and the appropriate academic dean, a grade of "W" may be awarded after the deadline to withdraw.

Mitigating circumstances: Mitigating circumstances are circumstances beyond the student's control that have the potential to cause extended absences and are documentable. Examples are contracting or exposure to Covid-19 that requires isolation, an illness or injury, illness or death in the student's immediate family, a flare-up of a chronic illness or mental health condition, parents' divorce, pregnancy, or falling victim to a criminal offense. If you feel you have mitigating circumstances, please reach out to your instructor.

Course-Specific Policies

- Students should navigate this course through the home page and then access the Chapter Overviews. Overviews have explanations of the assignments, just make sure to scroll down. If you navigate using the modules, be sure to click on the Chapter Overviews or you will not see all the material. Overviews are the BEST way to navigate in this class.
- Students are required to purchase materials for lab from the pet store and grocery store. This is your 'lab kit'. Failure to purchase materials is not a reason for an extension on a lab.
- You cannot do well in this course if you do not read the instructions found on the Chapter Overviews. This is particularly true for the lab- you must read the lab, the instructions, complete pre-lab information, and download any necessary materials like the lab handouts.
- Some labs require students to provide evidence of completion. Without it, you will earn a zero.
- Students are required to use the proctoring software to take proctored tests.
- Students are required to stay in view of the webcam, eyes to the front, and no interruptions, headphones, phone calls, cell phones etc. during proctored exams.
- All files for assignments should be in a pdf format. Students that fail to submit documents in the proper format will earn a zero.
- No exam scores or scavenger hunts will be dropped. The lowest lab grade and three of the lowest assignment grades are dropped.
- Some assignments are still available after the due date. What does this mean? You may submit the work late but with a 10% penalty and you will still be counted absent. Not all

assignments allow late submission- no late submissions are allowed for Exams and Discussion Boards.

College Diversity Statement

Brightpoint Community College embraces a culture of diversity and inclusion that empowers anyone from anywhere to be successful in their academic and professional pursuits. We strive to provide an environment that is enriching to all by understanding and appreciating our dimensions of diversity, becoming global citizens, and welcoming new ways of engaging the unique contributions of all people.

For more information, **visit the Brightpoint Diversity & Inclusion webpage (https://brightpoint.edu//about/mission-vision-values/diversity-equity-inclusion)** .

Course Summary:

Date	Details	Due
Sat Mar 27, 2021	**Chapter 12 Scavenger Hunt (https://vccs.instructure.com/courses/533903/assignments/11044682)**	due by 11:59pm
Sat Jun 12, 2021	**Chapter 13 Scavenger Hunt (https://vccs.instructure.com/courses/533903/assignments/11044685)**	due by 11:59pm
Sat Oct 2, 2021	**Chapter 1 Textbook and Lab Scavenger Hunt (https://vccs.instructure.com/courses/533903/assignments/11044693)**	due by 11:59pm
Sat Oct 9, 2021	**Chapter 2 Textbook and Lab Scavenger Hunt (https://vccs.instructure.com/courses/533903/assignments/11044694)**	due by 11:59pm
Sat Oct 16, 2021	**Chapter 3 and Lab 3 Scavenger Hunt**	due by 11:59pm

Date	Details	Due
	(https://vccs.instructure.com/courses/533903/assignments/11044695)	
Tue Nov 2, 2021	Chapter 4 Scavenger Hunt (https://vccs.instructure.com/courses/533903/assignments/11044696)	due by 11:59pm
Sat Nov 6, 2021	Chapter 5 Scavenger Hunt (https://vccs.instructure.com/courses/533903/assignments/11044697)	due by 11:59pm
Sat Nov 13, 2021	Chapter 6 Scavenger Hunt (https://vccs.instructure.com/courses/533903/assignments/11044698)	due by 11:59pm
Sat Dec 18, 2021	Chapter 11 Scavenger Hunt (https://vccs.instructure.com/courses/533903/assignments/11044679)	due by 11:59pm
Sat Dec 25, 2021	Chapter 14 Scavenger Hunt (https://vccs.instructure.com/courses/533903/assignments/11044688)	due by 11:59pm
Thu Jan 19, 2023	5. Introduce Yourself- Must Post and Respond to Classmates (https://vccs.instructure.com/courses/533903/assignments/11051246)	due by 11:59pm
	Chapter 01 Environmental Science in Action: Learning from the Earth (https://vccs.instructure.com/courses/533903/assignments/11044666)	due by 11:59pm
	Chapter 01 What Can You Do: Learning from the Earth (https://vccs.instructure.com/courses/533903/assignments/11044667)	due by 11:59pm
Fri Jan 20, 2023	Syllabus Quiz - Take Quiz- Requires Respondus LockDown Browser + Webcam (https://vccs.instructure.com/courses/533903/assignments/11044641)	due by 11:59pm

Date	Details	Due
Sat Jan 21, 2023	7. Agreement to Purchase Lab Materials- Complete (https://vccs.instructure.com/courses/533903/assignments/11402314)	due by 11:59pm
	Student Laboratory Safety Contract 22/23 (https://vccs.instructure.com/courses/533903/assignments/11044649)	due by 11:59pm
	Waiver of Liability 2022 Brightpoint (https://vccs.instructure.com/courses/533903/assignments/11044642)	due by 11:59pm
Sun Jan 22, 2023	F2F Hybrid Post-Lab 1: Ecological Footprint (https://vccs.instructure.com/courses/533903/assignments/11044700)	due by 11:59pm
Wed Jan 25, 2023	8. Proof of Lab Kit Purchase- Purchase Materials and Post Proof (https://vccs.instructure.com/courses/533903/assignments/11044706)	due by 11:59pm
Thu Jan 26, 2023	Chapter 02 Environmental Science in Action: Experimenting with a Forest (https://vccs.instructure.com/courses/533903/assignments/11044668)	due by 11:59pm
	Chapter 02 What Can You Do: Forests and Sustainability (https://vccs.instructure.com/courses/533903/assignments/11044669)	due by 11:59pm
Sun Jan 29, 2023	F2F Hybrid Post Lab 2 Scientific Method (https://vccs.instructure.com/courses/533903/assignments/11044660)	due by 11:59pm
Thu Feb 2, 2023	Chapter 03 Environmental Science in Action: Tropical Rainforests Are Disappearing (https://vccs.instructure.com/courses/533903/assignments/11044670)	due by 11:59pm
	Chapter 03 What Can You Do: Tropical Rain Forests and Sustainability (https://vccs.instructure.com/courses/533903/assignments/11044671)	due by 11:59pm

Date	Details	Due
Sun Feb 5, 2023	F2F Hybid Post-Lab 3 Biosphere in a Jar (https://vccs.instructure.com/courses/533903/assignments/11044643)	due by 11:59pm
Wed Feb 8, 2023	Muddiest Point Module 1 (https://vccs.instructure.com/courses/533903/assignments/11542971)	due by 11:59pm
	Module 1 Scavenger Hunt CH 1 - 3 (https://vccs.instructure.com/courses/533903/assignments/11044702)	due by 11:59pm
Sat Feb 11, 2023	DB#2 Invasive Species (https://vccs.instructure.com/courses/533903/assignments/11044664)	due by 11:59pm
Sun Feb 12, 2023	Exam 1 Spring 22 (https://vccs.instructure.com/courses/533903/assignments/11044648)	due by 11:59pm
Thu Feb 16, 2023	Chapter 04 Environmental Science in Action: Why Are Amphibians Disappearing (https://vccs.instructure.com/courses/533903/assignments/11044672)	due by 11:59pm
	Chapter 04 What Can You Do: Amphibians and Sustainability (https://vccs.instructure.com/courses/533903/assignments/11044673)	due by 11:59pm
Sun Feb 19, 2023	F2F Hybrid Virtual Lab 4 Natural Selection and Adaptive Evolution 21-22 (https://vccs.instructure.com/courses/533903/assignments/11044644)	due by 11:59pm
	F2F Hybrid Virtual Post Lab 4: Biodiversity and Extinction: the facts. (https://vccs.instructure.com/courses/533903/assignments/11268395)	due by 11:59pm

Date	Details	Due
Thu Feb 23, 2023	Chapter 05 Environmental Science in Action: The Southern Sea Otter: A Species in Recovery (https://vccs.instructure.com/courses/533903/assignments/11044674)	due by 11:59pm
	Chapter 05 What Can You Do: Southern Sea Otters and Sustainability (https://vccs.instructure.com/courses/533903/assignments/11044675)	due by 11:59pm
Sun Feb 26, 2023	Lab 05 Lab Population Biology Canvas Fa21-Su22 (https://vccs.instructure.com/courses/533903/assignments/11044651)	due by 11:59pm
Thu Mar 2, 2023	Chapter 06 Environmental Science in Action: Population 7.4 Billion (https://vccs.instructure.com/courses/533903/assignments/11044676)	due by 11:59pm
	Chapter 06 What Can You Do: Population Growth, Urbanization, and Sustainability (https://vccs.instructure.com/courses/533903/assignments/11044677)	due by 11:59pm
Sun Mar 5, 2023	Post-Lab 6: Population Paradox: Age Structure Diagrams (https://vccs.instructure.com/courses/533903/assignments/11044659)	due by 11:59pm
Wed Mar 8, 2023	Muddiest Point Module 2 (https://vccs.instructure.com/courses/533903/assignments/11542972)	due by 11:59pm
	Module 2 Scavenger Hunt Ch 4 - 6 (https://vccs.instructure.com/courses/533903/assignments/11044703)	due by 11:59pm
Sat Mar 11, 2023	DB#3 Uranium Mining in Virginia (https://vccs.instructure.com/courses/533903/assignments/11044663)	due by 11:59pm
Sun Mar 12, 2023	Exam 2 Spring 22 - Requires Respondus LockDown Browser + Webcam (https://vccs.instructure.com/courses/533903/assignments/11044646)	due by 11:59pm

Date	Details	Due
Thu Mar 23, 2023	Chapter 12 Environmental Science in Action: The Real Cost of Gold (https://vccs.instructure.com/courses/533903/assignments/11044681)	due by 11:59pm
	Chapter 12 What Can You Do: The Real Cost of Gold and Sustainability (https://vccs.instructure.com/courses/533903/assignments/11044683)	due by 11:59pm
Sun Mar 26, 2023	F2F Hybrid Post Lab Lab 7: Last Mountain Movie (https://vccs.instructure.com/courses/533903/assignments/11044661)	due by 11:59pm
Thu Mar 30, 2023	Chapter 13 Environmental Science in Action: Using Hydrofracking to Produce Oil and Natural Gas (https://vccs.instructure.com/courses/533903/assignments/11044684)	due by 11:59pm
	Chapter 13 What Can You Do: Energy Resources and Sustainability (https://vccs.instructure.com/courses/533903/assignments/11044686)	due by 11:59pm
Sat Apr 1, 2023	Module 3 Scavenger Hunt CH 12 13 (https://vccs.instructure.com/courses/533903/assignments/11044704)	due by 11:59pm
Sun Apr 2, 2023	Virtual Post Lab 8 Renewable Energy (https://vccs.instructure.com/courses/533903/assignments/11044645)	due by 11:59pm
Thu Apr 6, 2023	Chapter 15 Environmental Science in Action: Melting Ice in Greenland (https://vccs.instructure.com/courses/533903/assignments/11044690)	due by 11:59pm
	Chapter 15 What Can You Do: Air Pollution, Climate Change, and Ozone Depletion (https://vccs.instructure.com/courses/533903/assignments/11044692)	due by 11:59pm

Date	Details	Due
Sat Apr 8, 2023	**Chapter 15 Scavenger Hunt** (https://vccs.instructure.com/courses/533903/assignments/11044691)	due by 11:59pm
Sun Apr 9, 2023	**F2F Hybrid Virtual Post Lab 9 Air Pollution** (https://vccs.instructure.com/courses/533903/assignments/11044701)	due by 11:59pm
Wed Apr 12, 2023	**Muddiest Point Module 3** (https://vccs.instructure.com/courses/533903/assignments/11457871)	due by 11:59pm
Mon Apr 17, 2023	**Exam 3 - Requires Respondus LockDown Browser + Webcam** (https://vccs.instructure.com/courses/533903/assignments/11044656)	due by 11:59pm
Thu Apr 20, 2023	**Chapter 11 Environmental Science in Action: The Gulf of Mexico's Annual Dead Zone** (https://vccs.instructure.com/courses/533903/assignments/11044678)	due by 11:59pm
	Chapter 11 What Can You Do: Water Resources and Water Pollution (https://vccs.instructure.com/courses/533903/assignments/11044680)	due by 11:59pm
Sat Apr 22, 2023	**DB#4 Environmental Science in the NEWS** (https://vccs.instructure.com/courses/533903/assignments/11044662)	due by 11:59pm
Sun Apr 23, 2023	**Post Lab 10 Water Quality 21-22** (https://vccs.instructure.com/courses/533903/assignments/11044650)	due by 11:59pm
Wed Apr 26, 2023	**Extra Credit - Course Evaluation** (https://vccs.instructure.com/courses/533903/assignments/11044699)	due by 11:59pm
	Muddiest Point Module 4 (https://vccs.instructure.com/courses/533903/assignments/11457902)	due by 11:59pm

Date	Details	Due
Thu Apr 27, 2023	**Chapter 14 Environmental Science in Action: Mercury's Toxic Effects** (https://vccs.instructure.com/courses/533903/assignments/11044687)	due by 11:59pm
	Chapter 14 What Can You Do: Mercury's Toxic Effects and Sustainability (https://vccs.instructure.com/courses/533903/assignments/11044689)	due by 11:59pm
Sat Apr 29, 2023	**Module 4 Scavenger Hunt CH 11 & 14** (https://vccs.instructure.com/courses/533903/assignments/11044705)	due by 11:59pm
Sun Apr 30, 2023	**F2F Hybrid Lab 11 Pandemic Covid-19 21-22** (https://vccs.instructure.com/courses/533903/assignments/11044652)	due by 11:59pm
Mon May 1, 2023	**Exam 4 Spring 22** (https://vccs.instructure.com/courses/533903/assignments/11044657)	due by 11:59pm
Sat May 6, 2023	**Final Exam F19 Ronning - Requires Respondus LockDown Browser + Webcam** (https://vccs.instructure.com/courses/533903/assignments/11044653)	due by 11:59pm
	Working Post Lab 4 (https://vccs.instructure.com/courses/533903/assignments/11044647)	

Public Involvement Activity #2

Subject	Catalog	Section	Class Nbr	Descr	Session	Last	First Name	Cap Enrl
ENV	121	A01	64269	Gen Environ Sc	1	Lentz-Ronning	Amanda	30
ENV	121	A02	64272	Gen Environ Sc	1	Beyer	Joressia	30
ENV	121	A03	75021	Gen Environ Sc	1	Beyer	Joressia	30
ENV	121	A26	64274	Gen Environ Sc	12W	Dietrich	Daniel	30
ENV	121	A31	64276	Gen Environ Sc	8W2	Dietrich	Daniel	30
ENV	121	M01	64280	Gen Environ Sc	1	Beyer	Joressia	25

ENV	121	A01	40304	Gen Environ Sc	1	Lentz-Ronning	Amanda	30
ENV	121	A02	40305	Gen Environ Sc	1	Lentz-Ronning	Amanda	30
ENV	121	A26	40306	Gen Environ Sc	12W	Dietrich	Daniel	30
ENV	121	A31	40307	Gen Environ Sc	8W2	Dietrich	Daniel	30
ENV	121	M01	40308	Gen Environ Sc	1	Beyer	Joressia	25
ENV	121	M01	40308	Gen Environ Sc	1	Dietrich	Daniel	25
ENV	121	M02	50761	Gen Environ Sc	1	Labieniec	Paula	25

Tot Enrl	% Full	FTE's	Min Units	Mtg Start	Mtg End	Pat	Room	Start Date
26	87%	6.9	4.00			VIRT	VIRTUAL	8/29/2022
27	90%	7.2	4.00			VIRT	VIRTUAL	8/29/2022
27	90%	7.2	4.00			VIRT	VIRTUAL	8/29/2022
18	60%	4.8	4.00			VIRT	VIRTUAL	9/19/2022
16	53%	4.2	4.00			VIRT	VIRTUAL	10/20/2022
22	88%	5.8	4.00	12:30:00 PM	3:20:00 PM	TR	H307	8/29/2022
136								
27	90%	7.2	4.00			VIRT	VIRTUAL	1/17/2023
22	73%	5.8	4.00			VIRT	VIRTUAL	1/17/2023
24	80%	6.4	4.00			VIRT	VIRTUAL	2/6/2023
19	63%	5.0	4.00			VIRT	VIRTUAL	3/20/2023
24	96%	6.4	4.00	9:30:00 AM	12:20:00 PM	TR	H307	1/17/2023
24	96%	6.4	4.00	9:30:00 AM	12:20:00 PM	TR	H307	1/17/2023
24	96%	6.4	4.00	12:30:00 PM	3:20:00 PM	MW	H110	1/17/2023
164								

End Date	Campus
12/17/2022	CHSTR
12/17/2022	MIDLO
12/17/2022	CHSTR
12/17/2022	CHSTR
12/17/2022	CHSTR
12/17/2022	MIDLO

5/9/2023	CHSTR
5/9/2023	CHSTR
5/6/2023	MIDLO
5/9/2023	MIDLO
5/9/2023	MIDLO
5/9/2023	MIDLO
5/9/2023	MIDLO

Public Involvement Activity #3

From: Boisseau, Che
To: Kramer, Arnold "Chip"
Subject: RE: Student Club Activities
Date: Thursday, September 14, 2023 12:39:12 PM
Attachments: image001.png

There was 5 or 6 students who participated in the cleanup.

Thanks!

Che Boisseau, M.S. (He/Him)
Student Activities Coordinator
Brightpoint Community College
office: 804-594-1516 (Midlothian), 804-706-5188 (Chester)
email: cboisseau@brightpoint.edu
brightpoint.edu

cid:image001.png@01D89062.5FCE9B00

From: Kramer, Arnold "Chip" <Akramer@brightpoint.edu>
Sent: Thursday, September 14, 2023 12:33 PM
To: Boisseau, Che <Cboisseau@brightpoint.edu>
Subject: RE: Student Club Activities

Would it be possible to find out how many participated?

Chip Kramer, MPA
Director of Facilities and Safety
Brightpoint Community College
phone: 804-840-8354
email: akramer@brightpoint.edu
brightpoint.edu

cid:image001.png@01D89062.5FCE9B00

From: Boisseau, Che <Cboisseau@brightpoint.edu>
Sent: Thursday, September 14, 2023 12:30 PM
To: Kramer, Arnold "Chip" <Akramer@brightpoint.edu>
Subject: RE: Student Club Activities

Chip,

Yes, the PTK participated in a park cleanup in April of 2023 around Browns Island.

Thanks!

Che Boisseau, M.S. (He/Him)
Student Activities Coordinator
Brightpoint Community College
office: 804-594-1516 (Midlothian), 804-706-5188 (Chester)
email: cboisseau@brightpoint.edu
brightpoint.edu

cid:image001.png@01D89062.5FCE9B00

From: Kramer, Arnold "Chip" <Akramer@brightpoint.edu>
Sent: Thursday, September 14, 2023 11:39 AM
To: Boisseau, Che <Cboisseau@brightpoint.edu>
Subject: Student Club Activities

I am working on an annual environmental report and was wondering whether you are aware, or could find out, if any student clubs conducted or participated in any events that were environmentally related between July 1, 2022 and June 30, 2023? i.e. paper shred event, trash pick-up, water clean-up, Earth Day event, etc. Thanks

Chip

Chip Kramer, MPA
Director of Facilities and Safety
Brightpoint Community College
phone: 804-840-8354
email: akramer@brightpoint.edu
brightpoint.edu

cid:image001.png@01D89062.5FCE9B00

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Public Involvement Activity #4

FOLAR-VA.ORG

FOLAR
FRIENDS OF THE LOWER APPOMATTOX RIVER

2023 EVENTS

1/21 Stewardship Saturday
2/11 Stewardship Saturday
2/22 FOLAR - State of the Trail
3/01 FOLAR Membership Month
3/18 Stewardship Saturday
4/01 FOLAR 5k Appomattox Run-Walk
4/15 FOLAR Annual River Cleanup
5/11 Spring Volunteer Trail Counts
5/13 Spring Volunteer Trail Counts
5/20 Stewardship Saturday
6/01 FOLAR Outstanding Service Awards
6/03 FOLAR & Clean The Bay Day
7/08 Stewardship Saturday
8/12 Stewardship Saturday
9/09 FOLAR and JRAC River Clean-Up
9/14 Fall Volunteer Trail Counts
9/16 Fall Volunteer Trail Counts
9/23 FOLAR PADDLE-OR-BATTLE
10/21 Stewardship Saturday
11/04 Stewardship Saturday
12/02 Stewardship Saturday