
GERMANNA

COMMUNITY COLLEGE

Fredericksburg Campus

Municipal Separate Storm Sewer System Annual Report

For

General Permit No. VAR040125

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 date November 1, 2018.

Submitted: September 29, 2023

TABLE OF CONTENTS

1.0 GENERAL ANNUAL REPORTING REQUIREMENTS..... 1

 1.1. General Information (Part I.D.2.a) 1

 1.2. Reporting Period (Part I.D.2.b) 1

 1.3. Signed Certification (Part I.D.2.c) 1

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

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

2.0 MINIMUM CONTROL MEASURES 3

 2.1. MCM #1: Public Education and Outreach 3

 2.1.1. High Priority Stormwater Issues (Part I.E.1.g(1)) 3

 2.1.2. High Priority Stormwater Issue Communication Strategies (Part I.E. 1.g(2)) 3

 2.1.3. MCM #1 Evaluation (Part I.D.2.e) 3

 2.2. MCM #2: Public Involvement and Participation 5

 2.2.1. Public Input Summary (Part I.E.2.f(1)) 5

 2.2.2. MS4 Program Webpage (Part I.E.2.f(2))..... 5

 2.2.3. Public Involvement Activities Implemented (Part I.E.2.f(3)) 5

 2.2.4. Public Involvement Activity Metric and Evaluation (Part I.E.2.f(4)) 5

 2.2.5. MS4 Collaboration (Part I.E.2.f(5))..... 6

 2.2.6. MS4 Program Plan BMP Measurable Goals 6

 2.2.7. MCM #2 Evaluation (Part I.D.2.e) 7

 2.3. MCM #3: Illicit Discharge Detection and Elimination 8

 2.3.1. MS4 Map and Information Table (Part I.E.3.e(1)) 8

 2.3.2. Dry Weather Screening (Part I.E.3.e(2)) 8

 2.3.3. Illicit Discharges (Part I.E.3.e(3))..... 8

 2.3.4. MS4 Program Plan BMP Measurable Goals 9

 2.3.5. MCM #3 Evaluation (Part I.D.2.e) 9

 2.4. MCM #4: Construction Site Stormwater Runoff Control 10

 2.4.1. Implementation of Standards and Specifications (Part I.E.4.a(3)) 10

 2.4.1.1. Conforming Land Disturbance Projects (Part I.E.4.d(1)(a))..... 10

 2.4.1.2. Non-Conforming Land Disturbance Projects (Part I.E.4.d(1)(b)) 10

 2.4.2. Site Stormwater Runoff Inspections (Part I.E.4.d(2)) 10

 2.4.3. Enforcement Actions (Part I.E.4.d(3))..... 11

 2.4.4. MCM #4 Evaluation (Part I.D.2.e) 11

 2.5. MCM #5: Post-Construction Stormwater Management..... 12

 2.5.1. Implementation of Standards and Specifications (Part I.E.5.a(3)) 12

 2.5.2. Stormwater Management Facility Inspections (Part I.E.5.i(2))..... 12

 2.5.3. Stormwater Management Facility Maintenance (Part I.E.5.i(3)) 12

 2.5.4. Virginia Construction Stormwater General Permit Database (Part I.E.5.i(4)) 13

 2.5.5. DEQ BMP Warehouse (Part I.E.5.i(5)) 13

2.5.6. MS4 Program Plan BMP Measurable Goals	14
2.5.7. MCM #5 Evaluation (Part I.D.2.e)	14
2.6. MCM #6: Pollution Prevention and Good Housekeeping	15
2.6.1. Operational Procedures (Part I.E.6.q(1))	15
2.6.2. Newly Developed SWPPPs (Part I.E.6.q(2)).....	15
2.6.3. Modified or Delisted SWPPPs (Part I.E.6.q(3))	15
2.6.4. Newly Developed Nutrient Management Plans (Part I.E.6.q(4))	16
2.6.4.1. Nutrient Management Plan Acreage (Part I.E.6.q(4)(a))	16
2.6.4.2. Nutrient Management Plan Approval Date (Part I.E.6.q(4)(b))	16
2.6.5. Training Events (Part I.E.6.q(5))	16
2.6.5.1. Training Dates (Part I.E.6.q(5)(a)).....	17
2.6.5.2. Quantity Trained (Part I.E.6.q(5)(b)).....	17
2.6.5.3. Training Objective (Part I.E.6.q(5)(c))	17
2.6.6. MS4 Program Plan BMP Measurable Goals	17
2.6.7. MCM #6 Evaluation (Part I.D.2.e)	18
3.0 TMDL SPECIAL CONDITIONS.....	20
3.1. Chesapeake Bay TMDL Action Plan	20
3.1.1. BMPs Implemented and Estimated POC Reductions (Part II.A.13.a)	20
3.1.2. Nutrient Credits (Part II.A.13.b).....	20
3.1.3. POC Cumulative Reduction Progress (Part II.A.13.c)	21
3.1.4. Next Reporting Period Planned BMPs (Part II.A.13.d).....	22
3.1.5. Chesapeake Bay TMDL Action Plan Measurable Goals	22
3.1.6. Chesapeake Bay TMDL Action Plan Implementation Evaluation (Part I.D.2.e).....	22
3.2. Local TMDL Action Plan	24
3.2.1. No Local TMDL Implementation (Part II.B.9)	24

APPENDICES

Appendix A: Documentation of Public Education and Outreach Activities

Appendix B: Documentation of Public Involvement Activities

TABLES

Table 1: Summary of MS4 Program Plan Changes 2

Table 2: High Priority Stormwater Issues..... 3

Table 3: Public Involvement Activities Implemented 6

Table 4: MS4 Program Plan BMP Measurable Goals for MCM #2..... 6

Table 5: Illicit Discharges 8

Table 6: MS4 Program Plan BMP Measurable Goals for MCM #3..... 9

Table 7: Project(s) Not in Conformance with Approved Standards and Specifications..... 10

Table 8: Maintenance Activities Performed on Stormwater Management Facilities 12

Table 9: MS4 Program Plan BMP Measurable Goals for MCM #5..... 14

Table 10: Good Housekeeping Operational Procedures Developed or Modified 15

Table 11: New SWPPPs Developed 15

Table 12: SWPPPs Modified or Delisted..... 16

Table 13: New Turf and Landscape Nutrient Management Plans 16

Table 14: Training Events..... 17

Table 15: MS4 Program Plan BMP Measurable Goals for MCM #6..... 17

Table 16: Chesapeake Bay TMDL Action Plan POC Reductions..... 20

Table 17: 2018 – 2023 Chesapeake Bay TMDL Action Plan Implementation Schedule 21

Table 18: Chesapeake Bay TMDL Action Plan BMPs Planned for the Next Reporting Year ... 22

Table 19: Chesapeake Bay TMDL Action Plan Measurable Goals 22

ACRONYMS

BMP	Best Management Practice
DEQ	Virginia Department of Environmental Quality
MCM	Minimum Control Measure
MS4	Municipal Separate Storm Sewer System
NMP	Nutrient Management Plan
POC	Pollutant of Concern
SWM	Stormwater Management
SWPPP	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load
VPDES	Virginia Pollution Discharge Elimination System
WLA	Wasteload Allocation

1.0 GENERAL ANNUAL REPORTING REQUIREMENTS

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

Permittee Name: Germanna Community College

System Name: Virginia Community College System

Permit Number: VAR040125

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

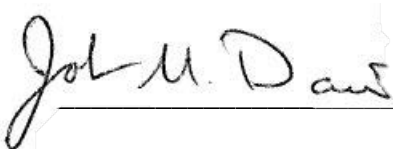
1.3. Signed Certification (Part I.D.2.c)

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: John M. Davis

Title: Vice President of Administrative Services

Signature:  _____ Date: 09/27/2023 _____

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

Not Applicable

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 and documentation of the communication efforts are included in Appendix A.

Table 2: High Priority Stormwater Issues					
#	Stormwater Issue	Strategy	Communication	Metric	Beneficial
1	Public education of stormwater runoff	Traditional Written Materials	Powerpoint distributed via email to all students, faculty and staff	Approx. 10,000 students, faculty & staff	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	TMDLs and local impaired waters	Media materials	Graphic media placed on TV monitors in public frequented areas	Approx. 1,500 students, faculty & staff	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Motor oil from vehicles in parking lots	Traditional Written Materials	Posters hung in frequented areas in multiple buildings around campus	Approx. 1,500 students, faculty & 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 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://germanna.edu/about-germanna/public-information/environmental-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/Date	Category	Metric	Collaboration	Beneficial
1	Environmental Science Classroom Presentation w/ Q&A on January 23, 2023 at 10:30 am	Educational	22 attendees	NA	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Environmental Science Classroom Presentation w/ Q&A on January 18, 2023 at 3:30 pm	Educational	22 attendees	NA	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	STEAM-H Day Stormwater Booth on April 1, 2023	Educational	13 people reached	NA	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4	Storm drain makers install by students at SGA Meeting on April 11, 2023	Pollution Prevention	11 participants, 5 storm drain markers installed	NA	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

2.2.6. MS4 Program Plan BMP Measurable Goals

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

Table 4: MS4 Program Plan BMP Measurable Goals for MCM #2

BMP	Measurable Goal	Completeness Status
2.1	Was documentation of the public input or complaints on the MS4 program and MS4 Program Plan maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable (None received)
2.1	Is the effective MS4 permit and coverage letter on the webpage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2.1	Is the most current MS4 Program Plan on the webpage?	<input checked="" type="checkbox"/> Yes

		<input type="checkbox"/> No
2.1	Is the annual report for each year of the term covered by this permit no later than 30 days after submittal to the department on the webpage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable ()
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 measurable goals completed in accordance with the MS4 Program Plan?

Yes (Documentation is provided in Appendix B.) 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 2. 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 Not Applicable

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?	<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 Standards of Conduct for Employees and the Student Handbook for Students?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.3	Were illicit discharge detection and elimination procedures implemented, enforced and documentation maintained?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

Were all MCM #3 measurable goals completed in accordance with the MS4 Program Plan?

Yes No ()

Are the MS4 Program measurable goals effective?

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

2.4. MCM #4: Construction Site Stormwater Runoff Control

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

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

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

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

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

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

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

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

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

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

Project Name: Not Applicable

Explanation:

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

Total number of inspections conducted:

The total number of site stormwater runoff inspections conducted for regulated land disturbance activities in accordance with the most recent DEQ approved Standards and Specifications is Not Applicable.

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 Not Applicable.

The total number of Notices of Violation (Red flag) issued is Not Applicable.

The total number of Stop Work Orders (Black flag) issued is Not Applicable.

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 is 6.

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

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 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 <input type="checkbox"/> No
5.2	Was the stormwater management facility tracking database updated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

Yes No ()

Are the MS4 Program measurable goals effective?

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

2.6. MCM #6: Pollution Prevention and Good Housekeeping

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

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

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

Yes (Refer to Table 10) No Not Applicable (Not necessary)

Table 10: 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 11) No () Not Applicable (No new high priority facilities.)

Table 11: 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 12) No () Not Applicable (Modification not required)

Were any high priority facilities delisted in accordance with Part I E 6 h during the reporting period? Yes (Refer to Table 12) No

If yes, rationale is provided for any high priority facilities delisted in accordance with Part I E 6 h during the reporting period in Table 12.

Table 12: 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 (NMPs) developed:

Were any new turf and landscape nutrient management plans developed?

Yes (Refer to Table 13) No () Not Applicable (Plans in place.)

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

The location and the total acreage of each land area:

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

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.)

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 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
3/2023	2	Pesticide Application

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (Not required) <input type="checkbox"/> No
6.2	Was the SWPPP updated within 90 days after an unauthorized discharge?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (Not required) <input type="checkbox"/> No
6.2	Were the MS4's properties reviewed this reporting year to determine if the properties meet the criteria of a high priority facility?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable (The MS4 campus is a high priority facility.) <input type="checkbox"/> No
6.3	Was the nutrient management plan implemented through completion of application records?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable (No nutrients applied) <input type="checkbox"/> No
6.4	Were all signed contracts executed with contract good housekeeping and pollution prevention language?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6.5	Did all signed contracts executed for pesticide and herbicide application maintain proof of certifications on file?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (No contracts executed) <input type="checkbox"/> No
6.6	Did training occur and were proof of certifications maintained on file for employees performing pesticide and herbicide applications?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable (No employees applied pesticides/herbicides) <input type="checkbox"/> No

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

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

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

Yes No (GCC to work with VCCS concerning contract language.)

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 16) No ()

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

Table 16: Chesapeake Bay TMDL Action Plan POC Reductions			
BMP #1: Street Sweeping	TN (lbs./yr.)	TP (lbs./yr.)	TSS (lbs./yr.)
SCP-4 Practice (1 pass every 4 weeks or approximately 10 passes per year, 11.29 lane miles per pass) Provided Reduction (lbs.) =	1.06	0.48	287.20
BMP #2: Land Use Change Conversion	TN (lbs./yr.)	TP (lbs./yr.)	TSS (lbs./yr.)
1.41 Acres of Mixed Open to Forest (Regulated Property)	0.66	0.39	968.67
1.85 Acres of Turf to Mixed Open (Unregulated Property)	11.23	2.09	0
Provided Reduction (lbs.) =	12.95	2.96	1,255.87
Required 40% Reduction (lbs.) =	4.56	0.96	347.84

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

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

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

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

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

The progress, using the final design efficiency of the BMPs, toward meeting the required 40% reductions for total nitrogen, total phosphorus, and total suspended solids is provided in Table 17.

Table 17: 2018 – 2023 Chesapeake Bay TMDL Action Plan Implementation Schedule			
Step	General Description	Measurable Goal	Completeness Status
1	5% reduction requirement complete. Evaluate lbs. swept.	Completed tracking documentation?	<input checked="" type="checkbox"/> Yes (July 2019) <input type="checkbox"/> No
2	5% reduction requirement complete. Make adjustments to frequency based on 2019 information obtained.	Completed tracking documentation with increase sweeping frequency?	<input checked="" type="checkbox"/> Yes (July 2020) <input type="checkbox"/> No
3	5% reduction requirement complete. Determine if 40% can be achieved w/ street sweeping alone. If not, evaluate alternate means to achieve 40% reduction. Secure funding for future implementation of new BMPs. Revise Action Plan accordingly.	Completed tracking documentation. If required, revise Action Plan?	<input checked="" type="checkbox"/> Yes (July 2021) <input type="checkbox"/> No
4	Revise Action Plan based on the newly issued DEQ Guidance Memo No. GM-20-2003 (Appendix V.G).	Completed tracking documentation and support documentation from any new BMPs employed to meet 40% reduction?	<input checked="" type="checkbox"/> Yes (July 2022) <input type="checkbox"/> No
5	Complete 40% reduction requirement with selected means and methods.	Completed tracking documentation and support documentation from any new BMPs employed to meet 40% reduction?	<input checked="" type="checkbox"/> Yes (July 2023) <input type="checkbox"/> No
6	Report on Chesapeake Bay TMDL 40% reduction achievement.	Recorded results in Annual Report?	<input checked="" type="checkbox"/> Yes (Oct 2023) <input type="checkbox"/> 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 18.

Table 18: Chesapeake Bay TMDL Action Plan BMPs Planned for the Next Reporting Year	
Not Applicable. 100% nutrient credits achieved.	

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 checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable (Not required this reporting year) <input type="checkbox"/> No
3	Was the required pollutant reduction reached for this reporting year?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

Yes No ()

Are the MS4 Program measurable goals effective?

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

3.2. Local TMDL Action Plan

3.2.1. No Local TMDL Implementation (Part II.B.9)

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

The MS4 has not been assigned a wasteload allocation (WLA) for any local TMDLs.

Appendix A: Documentation of Public Education and Outreach Activities

High Priority Stormwater Issue #1

From: [Garland Fenwick](#)
To: [*All-Germanna*](#)
Cc: [Garland Fenwick](#)
Subject: Important Municipal Separate Storm Sewer System Program(MS-4)
Date: Wednesday, March 29, 2023 8:34:01 AM
Attachments: [GCC Stormwater Slides CCTV Group 1.pptx](#)
[image001.png](#)

Dear Faculty and Staff,

Attached is a short power point that provides important information pertaining to Municipal Separate Storm Sewer System Program(MS-4) and Stormwater Management at the Fredericksburg Area Campus and your communities . Please take a few minutes to review the power point and help GCC and your communities improve their MS-4 and Stormwater Management Program.

Thank you

Garland M. Fenwick
Director of Facilities
Germanna Community College
PO Box 1430
2130 Germanna Highway
Locust Grove, VA 22508
540-423-9046



High Priority Stormwater Issue #2

Garland Fenwick

From: James Solomon
Sent: Friday, January 20, 2023 11:15 AM
To: Garland Fenwick
Subject: RE: MS-4 Slides for TV Monitors

You bet!

Thank you,

Jim Solomon
Marketing and Information Specialist
(540) 423-9069


From: Garland Fenwick <GFenwick@germanna.edu>
Sent: Friday, January 20, 2023 11:01 AM
To: James Solomon <JSolomon@germanna.edu>
Cc: Garland Fenwick <GFenwick@germanna.edu>
Subject: MS-4 Slides for TV Monitors

Jim,


It's that time of year where I need to run the MS-4 slides for the Fredericksburg Campus on the TV monitors. Can you get them on monitors for me? If you get them on the monitors by February 1 and they run until March 1 I should be good.

Thanks for the help.
Garland


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



STORM SEWER INLETS DRAIN DIRECTLY INTO OUR LOCAL WATERSHEDS.



SEDIMENT & POLLUTANT LADEN RUNOFF FLOWS INTO STORM SEWER SYSTEMS.



WATER RUNOFF PICKS UP SEDIMENT & POLLUTANTS AFTER A RAINFALL.

Impacts of Stormwater Runoff

Sediment from construction sites & streambank erosion from urbanization adversely affect the streams & rivers & the Chesapeake Bay.

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NEC



CENTER FOR WORKFORCE & COMMUNITY EDUCATION

Who We Are
Germanna Community College is a public institution of higher education in the Physical Computing College System. As a non-profit, non-sectarian community college, we are committed to providing quality education and training opportunities for the residents of the City of Fredericksburg and the counties of Stafford, Spotsylvania, King George, Middleburg, Orange, Shenandoah and Stafford.

Mission
As a public, comprehensive community college, Germanna provides accessible, high quality educational and training opportunities that address our communities' diverse and changing learning needs.

Our Mission is achieved through:

- Career, program, and services that enable students to gain access to mid-level jobs and careers that prepare students to advance to mid-level and above upper-middle and careers.
- Training and services to develop in-demand employees who meet employers' needs.

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How Sediment Impacts Virginia's Waterbodies

- Clogs fish gills causing death
- Creates a muddy bottom unsuitable for spawning beds
- Reduces visibility for fish to locate prey causing
- Decreases water depth resulting in an increase of temperature causing fish to relocate
- Stunts plant growth due to reduced light penetration
- Interferes with navigation, flood control, recreation & fishing industries



NEC



CENTER FOR WORKFORCE & COMMUNITY EDUCATION

Who We Are
Germanna Community College is a public institution of higher education in the Virginia Community College System. It is a nonsectarian community college serving the residents of the City of Fredericksburg and the counties of Stafford, Culpeper, King George, Matheson, Orange, Stafford, and Stafford.

Mission
As a public, comprehensive community college, Germanna provides accessible, high quality educational and training opportunities that address our communities' diverse and changing learning needs.

- The Mission is achieved through:**
- Courses, programs, and services that enable students to gain access to and succeed in higher education
 - Award-winning faculty and staff that prepare students to achieve in and succeed in their careers and lives
 - Training and services to develop successful employees who meet employers' specific needs

MULTICOLOR

EFFECTS OF FERTILIZERS & BACTERIA ON THE ENVIRONMENT

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Nitrogen and Phosphorous in fertilizers cause algae blooms in waterbodies. Improperly disposed of animal waste and human waste from sanitary overflows cause high levels of bacteria (E.coli) in waterbodies. Algae create toxins and excessive E.coli makes waterbodies unsafe for swimming and unhealthy for humans and wildlife consumption.

NEC

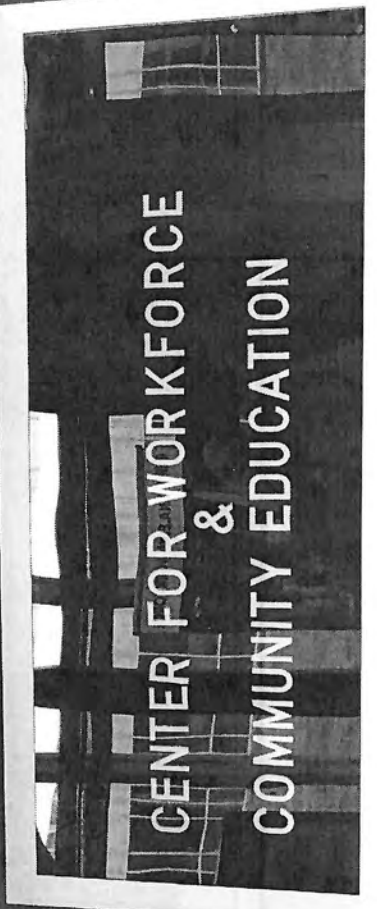


Who We Are
Community College of Allegheny County is a public institution of higher education in the Allegheny County, Pennsylvania, serving the Allegheny Valley region. The college provides a wide range of educational and training opportunities for the residents of Allegheny County. The college is a member of the National Association of Community Colleges (NACAC) and the National Association of State Community Colleges (NASCC).

Mission
To provide comprehensive community college education, training, and workforce development to the Allegheny Valley region, to ensure the college's success in providing quality education and training.

The Mission is shared through

- Quality education and training
- Workforce development
- Community and economic development

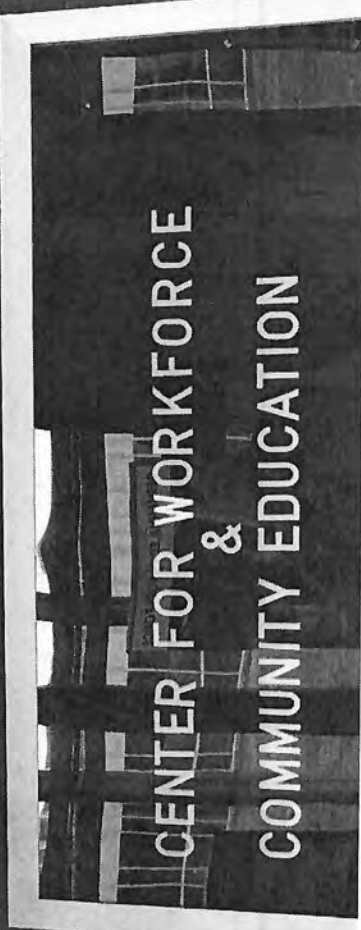




HOW YOU CAN HELP KEEP WATERBODIES CLEAN?

- Limit landscape additives such as lime & potash only in amounts needed & at appropriate times especially never before a rain event.
- Properly store & dispose of chemicals. Quickly clean-up spilled chemicals & properly dispose of the materials used to clean-up spills.
- Pick-up pet waste & properly dispose in the trash.
- Never dump anything down storm drains.
- Place litter & cigarette butts in proper receptacles.
- Utilize recycling programs.
- Promptly repair vehicle & equipment leaks.
- Wash vehicles at a commercial car wash instead of in a driveway or parking lot.
- Properly dispose of household waste items.

NEC



Who We Are
 The Center for Workforce and Community Education is a non-profit organization that provides training and education for the workforce and community. We are committed to providing high-quality, affordable education and training for all.

Mission
 To provide comprehensive, community-based, continuing education and training for the workforce and community. We are committed to providing high-quality, affordable education and training for all.

The Mission is achieved through:

- Offering a variety of programs and services to meet the needs of the workforce and community.
- Providing a supportive and collaborative learning environment.
- Ensuring that all programs and services are accessible to all.

High Priority Stormwater Issue #3

Garland Fenwick

From: Garland Fenwick
Sent: Friday, January 20, 2023 10:11 AM
To: Garland Fenwick
Subject: Posters Place on Bulletin Boards

Garland M. Fenwick
Director of Facilities
Germanna Community College
PO Box 1430
2130 Germanna Highway
Locust Grove, VA 22508
540-423-9046

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Academic Center for Excellence

Have questions about Anatomy & Physiology? Meet with an A&P tutor to find answers!

WHEN:
Tuesdays
3:00 PM-5:00 PM

WHERE:
Fredericksburg Area Campus
SPI-325 (A&P lab)

For more information email ACE@Clemson.edu or call (864) 656-3077

Enrollment Services is Here to Help!

We can help with:

- Admissions Application
- Course Registration
- Personal Finance
- Multi-Factor Authentication (MFA) Set Up
- Student Record Update
- Scheduling Appointments with Advisors and/or Financial Aid

Contact Us
Email: enrollment@clermson.edu
Phone: (864) 656-3077
1100 Sikes Hall
Clemson University
Greenville, SC 29634

STUDENT ACTIVITIES WELCOME DAY SPRING 2023

WEDNESDAY, APRIL 26, 4:00-6:00 PM
Clemson University Student Center, 101 Sikes Hall

Activities include:
- Meet with your advisor
- Register for classes
- Get your student ID
- Meet with the financial aid office
- Meet with the career center
- Meet with the health center
- Meet with the student government
- Meet with the student union
- Meet with the student union

FREE BOOKS FOR SALE

RAIN + STORMDRAIN

PET WASTE MOTOR OIL
GARAGE OIL CAR PARTS
MEDICINES SEWAGE
SOLVENTS TOXINS
ELECTRONIC DEVICES CRASH
ART SUPPLIES TOXINS

STORMDRAIN

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WELCOME TO THE SPRING 2023 SEMESTER!

The Academic Center for Excellence (ACE) offers:

- On-campus and online tutoring with subject-specific and peer-tutoring teaching centers
- Helpful academic resources
- Assistance with academic technology
- Workshops, seminars, study groups

Do you have questions? Visit your advisor!
Clemson.edu/academic_center/excellence
Tel: 864-656-3077 ext. 42

WE WANT TO HEAR YOU!

The Spring semester is a great time to get involved in campus activities and organizations. We want to hear from you about your interests and how we can support you.

Do you have questions? Visit your advisor!
Clemson.edu/academic_center/excellence
Tel: 864-656-3077 ext. 42

FACE COVERING DO'S AND DON'TS

DO:

- Wear a face covering that covers your nose and mouth.
- Use a cloth face covering that is washed frequently.
- Use a disposable face covering that is used once and then discarded.

DON'T:

- Use a face covering that has a filter.
- Use a face covering that has a valve.
- Use a face covering that is not properly fitted.

STUDENT BUDDIES

STUDENT BUDDIES



FIRE EXTINGUISHER



Virtual care from anywhere.

Get on-demand support from counselors and more, right at your fingertips.

24/7 Mental Health Support.



IT'S FOR VCCS STUDENTS. FOR FREE.

RAIN + STORMDRAIN



GERMANNA IS OPEN

...and we're excited to have you back!

Enrollment Services is Here to Help!

...and we're excited to have you back!

WELCOME DAY SPRING 2022

MEN'S BOATS

BLAZER DAY

How to Safely Wear and Load Off a Child Car Seat

...and we're excited to have you back!

Face Covering Do's and Don'ts

...and we're excited to have you back!

Stop the Spread of Germs

...and we're excited to have you back!

FOOD PANTRY

...and we're excited to have you back!

NOW IS THE TIME TO ENROLL FOR SPRING

WE WANT TO HEAR YOU!

...and we're excited to have you back!

WINTER BREAK

...and we're excited to have you back!

WELCOME DAY SPRING 2022



GERMANNA



STUDENT CENTER

...and we're excited to have you back!

SUBJECT TO CHANGE
PLEASE CHECK OUR
WEBSITE
YOU MUST HAVE A BALANCE

SPECTRA
SYSTEM

DAYCON

1.800.344.8017
www.daycon.com

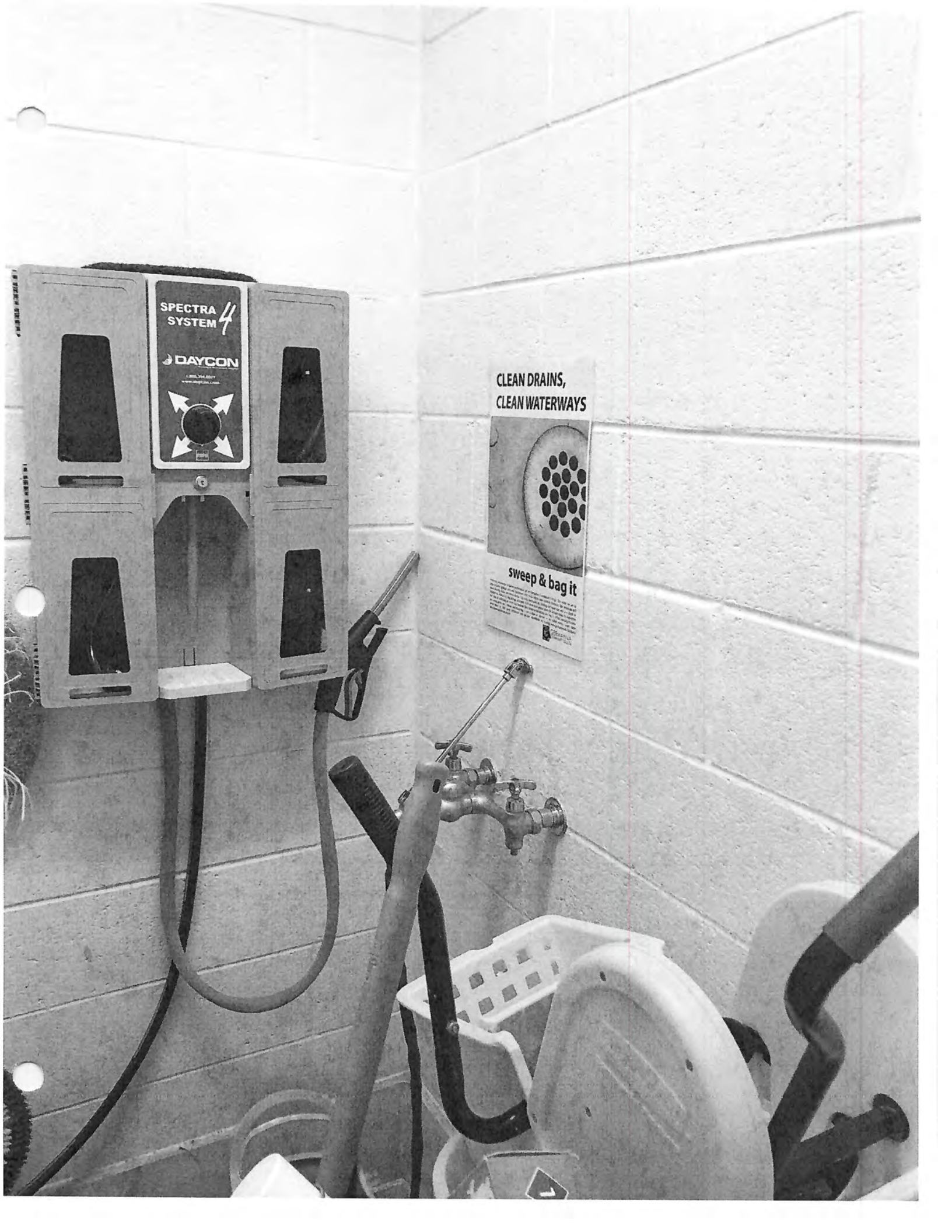


CLEAN DRAINS,
CLEAN WATERWAYS



sweep & bag it

It's important to keep drains clean to prevent clogs and backups. The best way to do this is to sweep and bag it. This means sweeping up debris before it goes down the drain. This is especially important in commercial buildings where there is a lot of foot traffic and debris. Sweeping and bagging debris before it goes down the drain can help prevent clogs and backups. This is a simple and effective way to keep drains clean and prevent costly repairs.



RAIN +

PET WASTE
GARBAGE
MEDICINES
SOLVENTS
ELECTRONIC DEVICES
OIL
MOTOR OIL
SEWAGE
TOXINS
TRASH

STORMDRAIN=



Virtual care from anywhere.

Get on-line and support from our nurses and doctors, right at your fingertips.

24/7 Mental Health Support.



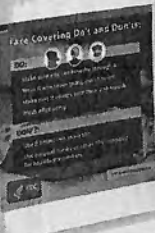
IT'S FOR VCCS STUDENTS. FOR FREE.

223

Time to Safety Year and Take Off A Clock-Less Future



Face Covering Do's and Don'ts



Stop the Spread of Germs



FOOD PANTRY

Fredericksburg Area Campus
Monday 11am-1pm & Thursday 1-4pm
Contact: 540-243-1234

2
2
3

CHEMISTRY STORAGE

NO STUDENTS ALLOWED

JSH

DANGER
HAZARDOUS MATERIALS

DANGER
FLAMMABLE

DANGER
CORROSIVE MATERIALS

PELIGRO
INFLAMMABLE

Emergency Gas Valve Shutoff



Appendix B: Documentation of Public Involvement Activities

Public Involvement Activity #1

Garland Fenwick

From: Harvey Gold
Sent: Friday, February 3, 2023 9:21 PM
To: Garland Fenwick
Subject: Re: MS4 Presentation
Attachments: ENV 122 2023 F02 Class Roster.docx; ENV 122 F01 2023 Class Roster.docx

Garland: I didn't forget you, just diverted in the past few days. The two class rosters are attached. Your presentation was, as always, excellent and it looked like you have updated a number of slides. Thanks for taking the time out of your very busy schedule.

Harvey

Harvey S. Gold
Harvey S. Gold
Adjunct Professor
Environmental Science
Germanna Community College
804-450-5261

From: Garland Fenwick <GFenwick@germanna.edu>
Sent: Friday, February 3, 2023 10:29 AM
To: Harvey Gold <HGold@germanna.edu>
Subject: MS4 Presentation

Happy Friday Harvey,

Please don't forget to forward the two class rosters of the attendees of my MS4 presentation.

Thanks
Garland

From: Harvey Gold <HGold@germanna.edu>
Sent: Tuesday, January 10, 2023 4:13 PM
To: Garland Fenwick <GFenwick@germanna.edu>
Subject:

Hope this finds you well. Would it be possible for you to make your usual presentation to my environmental science classes on Jan. 18 at 10:30 am and 3:30 pm in room 215 in FAC 3? If not on Jan. 18, then perhaps on Jan. 23? Thanks. BTW any progress on a new door slide CARD key for me? Mine doesn't work anymore.

Harvey S. Gold
Harvey S. Gold
Adjunct Professor
Environmental Science
Germanna Community College
804-450-5261

Class Roster

2023 Spring | Regular Academic Session | Germanna Community College | Credit

ENV 122 - F01 (21044)

General Environmental Science II (Lecture)

Days and Times	Room	Instructor	Dates
MoWe 9:00AM- 10:20AM	Rm 215 FAC Sci & Eng Bldg SP3	Harvey Gold	01/17/2023 - 05/08/2023

Enrollment Status Enrolled

Enrollment Capacity 24 Enrolled 22

Enrolled Students

Name

Row 1	AUSTIN,SOPHIA ELIZABETH
Row 2	BAIR,RYAN OTIS
Row 3	BARNES,CARYS ELYSE
Row 4	BASSONG,LYNN ATEH
Row 5	BISHOP,JOCELYN EMMA
Row 6	CHACRA,SAMUEL THOMAS
Row 7	CONROY,ISABELLA
Row 8	DESAUSSURE,JA'MYRE JACQUEZ
Row 9	GABALDON,JOSH
Row 10	GRAY,JACELYNN BRIANNA
Row 11	HESSIN,MATTHEW R
Row 12	JANSSON,RISS FRANCES
Row 13	KEEVE,KENNETH PARKER


Row 14	MECKLE,JOURDAN MIKAYLA
Row 15	MEYER,JAYME PACE
Row 16	PEARSON,KIARRA SIMONE KINI
Row 17	QUESADA,CHARLES AVERY
Row 18	SAGE,HOLLY NOELLE
Row 19	SHERALD,JOSHUA DANIEL
Row 20	SIMONI,JOSEPH M
Row 21	VARELA,ANDREA ELIZABETH
Row 22	WILCOX,RAYGEN BRIANNA



1

AGENDA


- ▶What is Storm Water Run Off?
- ▶Where does it go?
- ▶Regulatory Requirements
 - ▶MS-4 Plan(Municipal Separate Storm Sewer System)
 - ▶TMDL(Total Maximum Daily Load)
- ▶Questions



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STORMWATER RUNOFF



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STORMWATER MAP



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4

STORMWATER POND



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5

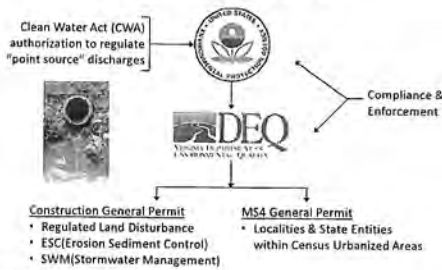
OUTFALL LOCATION



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REGULATORY STRUCTURE



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MS4 GENERAL PERMIT

Special Conditions

1. Chesapeake Bay TMDL(Total Maximum Daily Load)

Minimum Control Measures

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

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TOTAL MAXIMUM DAILY LOAD (TMDL)

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

CHESAPEAKE BAY TMDL

- The Chesapeake Bay is impaired for Nitrogen, Phosphorous and Sediment.
- GCC implements a Chesapeake Bay TMDL Action Plan to reduce the Pollutants of Concern (POCs) based on the amount of impervious area (hard surfaces like roads, sidewalks and building footprints) on campus.
- Currently, GCC uses street sweeping as a Best Management Practice to achieve the required reductions.
Requires 35% load reduction (40% Overall) per year for the 5 year permit cycle(2018-2023) (Phosphorus, Nitrogen, Sediment)

LOCAL IMPAIRED WATERWAYS


- GCC directly discharges into an unnamed tributary of the Massaponax Creek; however, downstream of the College is Massaponax Creek is designated as an impaired waterway.
- DEQ's 2016 impaired waters list identifies Massaponax Creek as impaired for:
 - pH (measure of amount of hydrogen and hydroxide ions in water i.e. alkalinity versus acidity); and E. coli (bacteria).

LOCAL IMPAIRED WATERWAYS CONTINUED

- Pollutant sources that affect water pH: landscape additives such as lime, potash; and chemicals that are alkaline, acidic or neutral in content.
- Pollutant sources of E. coli: livestock and pet waste and sanitary sewer overflows.
- Steps taken to reduce pollution of impaired waterways:
 - Limit landscape additives only in amounts needed and at appropriate times (never before a rain event);
 - Properly store and dispose of spilled chemicals; and
 - Pick-up pet waste.

PUBLIC INVOLVEMENT/EDUCATION

- Involvement
 - Implement 4 activities per year i.e. educational events, pollution prevention, stream restoration
- Education
 - Communicate two or more strategies i.e. speaking engagements, media materials
 - Program Plan/Annual Report webpage posting specifics



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ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE)

- What is Illicit Discharge? *Any discharge to an MS4 that is not composed entirely of stormwater, except discharges specifically identified in the Va. Administrative Code*

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IDDE CONTINUED

- Written IDDE procedures to detect, identify, and address nonstormwater discharges
 - Methods for field observations/screening
 - Schedule (outfalls screened annually)
 - Data collection (field screening)
 - Methods for investigation of source
 - Observation
 - Mechanisms for eliminations of source
 - Policies
 - Follow-up & documentation
- Public reporting of illicit discharges
 - Promote, publicize, & facilitate reporting
 - Who to contact: Garland Fenwick, 540-423-9046
 - Conduct inspections in response to complaints
 - Ensure corrective action where necessary

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WHAT IS AN ILLICIT DISCHARGE



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16

WHAT IS NOT AN ILLICIT DISCHARGE



- Water system flushing
- Landscape irrigation
- Air Conditioning condensate

- Basement sump pumps
- Potable water sources
- Street wash water
- Spring water
- Dechlorinated pool discharge
- Agricultural irrigation water
- Foundation/flooding drains
- Fire fighting activities
- Residential car washing

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WHAT IS OR IS NOT ILLICIT DISCHARGE???



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ILLICIT DISCHARGE CLEAN-UP



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19

CONSTRUCTION SITE RUNOFF CONTROLS

- VCCS Standards & Specifications for ESC
 - Approved plan prior to start of regulated land disturbance (Approved by VCCS)
 - Inspection oversight (Certified consultants)
 - Legal Authority to require compliance
- Contractor responsibilities with VCCS oversight
 - Obtain Construction General Permit (GP), when required
 - Implement the ESC Plan and meet GP requirements
 - Develop and implement Stormwater Pollution Prevention Plan (SWPPP)

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CONSTRUCTION SITE RUNOFF CONTROLS



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21

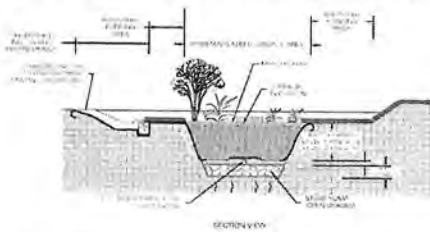
POST CONSTRUCTION CONTROLS

- Permit requires long-term inspection, operation, & maintenance of SW BMPs
 - Written inspection & maintenance procedures
 - Conduct maintenance as necessary
 - BMP Specific Checklists
 - Annual inspections
 - Frequency of inspection may vary based on BMP type
- Additional SWM facility tracking and reporting
 - Lat./long., date brought online, date of latest inspection, total inspections

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BMP STANDARDS & SPECIFICATIONS



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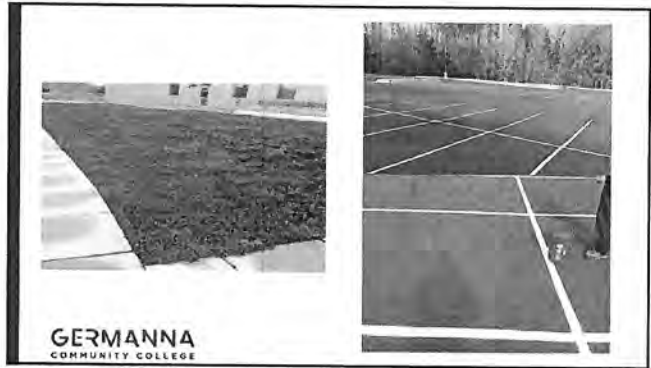


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24



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26

GOOD HOUSEKEEPING/POLLUTION PREVENTION

**GERMANNIA
COMMUNITY COLLEGE**

- Maintenance & operations procedure BMP
 - Vehicle washing, vehicle maintenance, dumpster operations/location, fueling, chemical storage, other applicable practices
- Training Plan
- Inspection Guidance
 - Checklist/Mapping
 - Documentation
- Waste Management
 - Oil, gas, and diesel
 - Absorbents
 - Other applicable wastes
- Reporting
- Evaluation/modification

27

STORMWATER POLLUTION PREVENTION PLAN MAP

**GERMANNIA
COMMUNITY COLLEGE**

28



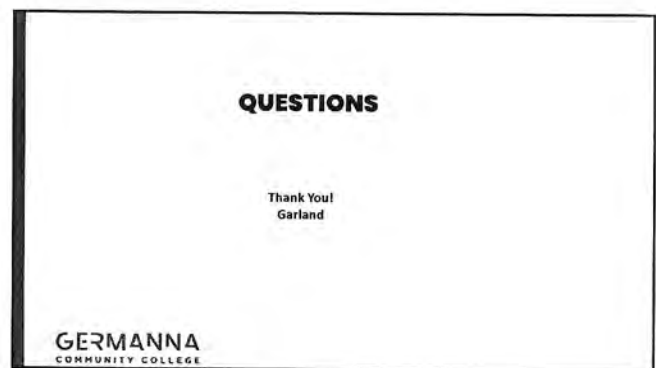
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32

Public Involvement Activity #2

Garland Fenwick

From: Harvey Gold
Sent: Friday, February 3, 2023 9:21 PM
To: Garland Fenwick
Subject: Re: MS4 Presentation
Attachments: ENV 122 2023 F02 Class Roster.docx; ENV 122 F01 2023 Class Roster.docx

Garland: I didn't forget you, just diverted in the past few days. The two class rosters are attached. Your presentation was, as always, excellent and it looked like you have updated a number of slides. Thanks for taking the time out of your very busy schedule.

Harvey

Harvey S. Gold
Harvey S. Gold
Adjunct Professor
Environmental Science
Germanna Community College
804-450-5261

From: Garland Fenwick <GFenwick@germanna.edu>
Sent: Friday, February 3, 2023 10:29 AM
To: Harvey Gold <HGold@germanna.edu>
Subject: MS4 Presentation

Happy Friday Harvey,

Please don't forget to forward the two class rosters of the attendees of my MS4 presentation.

Thanks
Garland

From: Harvey Gold <HGold@germanna.edu>
Sent: Tuesday, January 10, 2023 4:13 PM
To: Garland Fenwick <GFenwick@germanna.edu>
Subject:

Hope this finds you well. Would it be possible for you to make your usual presentation to my environmental science classes on Jan. 18 at 10:30 am and 3:30 pm in room 215 in FAC 3? If not on Jan. 18, then perhaps on Jan. 23? Thanks. BTW any progress on a new door slide CARD key for me? Mine doesn't work anymore.

Harvey S. Gold
Harvey S. Gold
Adjunct Professor
Environmental Science
Germanna Community College
804-450-5261

Class Roster

2023 Spring | Regular Academic Session | Germanna Community College | Credit

ENV 122 - F02 (22662)

General Environmental Science II (Lecture)

Days and Times	Room	Instructor	Dates
MoWe 2:00PM- 3:20PM	Rm 215 FAC Sci & Eng Bldg SP3	Harvey Gold	01/17/2023 - 05/08/2023

Enrollment Status Enrolled

Enrollment Capacity 24 Enrolled 22

Enrolled Students

	<u>Name</u>
Row 1	ALEXANDER,MORGAN ELIZABETH
Row 2	ANDERSON,NATHAN THOMAS
Row 3	APICELLA,MICHAEL JOHN
Row 4	BALL,CHEYENNE LESLIE
Row 5	BRADEN,DANTE' NATHAN
Row 6	COULTER,JOSHUA
Row 7	HANKINS,CHRISTOPHER MARQUIS
Row 8	MACDIARMID,NOLAN JORY
Row 9	MAJOR,GRACE ELLEN
Row 10	MCSWEEN,RYAN CADE
Row 11	NAVARRO,ANALI CELESTE
Row 12	ORME,ANDERSON MICHEAL
Row 13	ORME,EVERETT BRADLEY
Row 14	PETKE,EMILY GRACE


Row 15	QUILLEN,JAYNA TRINITY
Row 16	RECORE,BRAEDON GARY
Row 17	SALYAN,CONNOR WILLIAM
Row 18	SHAUGHNESSY,MEGAN
Row 19	SOW,MARIAM O
Row 20	ST. JOHN,LEXI MARIE
Row 21	STOETER,CHARLES
Row 22	VARELA,KAROLL SOFIA



1

AGENDA


- ▶What is Storm Water Run Off?
- ▶Where does it go?
- ▶Regulatory Requirements
 - ▶MS-4 Plan(Municipal Separate Storm Sewer System)
 - ▶TMDL(Total Maximum Daily Load)
- ▶Questions



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STORMWATER RUNOFF



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STORMWATER MAP



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STORMWATER POND



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OUTFALL LOCATION



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REGULATORY STRUCTURE



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MS4 GENERAL PERMIT

Special Conditions

1. Chesapeake Bay TMDL(Total Maximum Daily Load)

Minimum Control Measures

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

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TOTAL MAXIMUM DAILY LOAD (TMDL)

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

CHESAPEAKE BAY TMDL

- The Chesapeake Bay is impaired for Nitrogen, Phosphorous and Sediment.
- GCC implements a Chesapeake Bay TMDL Action Plan to reduce the Pollutants of Concern (POCs) based on the amount of impervious area (hard surfaces like roads, sidewalks and building footprints) on campus.
- Currently, GCC uses street sweeping as a Best Management Practice to achieve the required reductions.
Requires 35% load reduction (40% Overall) per year for the 5 year permit cycle(2018-2023) (Phosphorus, Nitrogen, Sediment)

LOCAL IMPAIRED WATERWAYS


- GCC directly discharges into an unnamed tributary of the Massaponax Creek; however, downstream of the College is Massaponax Creek is designated as an impaired waterway.
- DEQ's 2016 impaired waters list identifies Massaponax Creek as impaired for:
 - pH (measure of amount of hydrogen and hydroxide ions in water i.e. alkalinity versus acidity); and E. coli (bacteria).

LOCAL IMPAIRED WATERWAYS CONTINUED

- Pollutant sources that affect water pH: landscape additives such as lime, potash; and chemicals that are alkaline, acidic or neutral in content.
- Pollutant sources of E. coli: livestock and pet waste and sanitary sewer overflows.
- Steps taken to reduce pollution of impaired waterways:
 - Limit landscape additives only in amounts needed and at appropriate times (never before a rain event);
 - Properly store and dispose of spilled chemicals; and
 - Pick-up pet waste.

PUBLIC INVOLVEMENT/EDUCATION

- Involvement
 - Implement 4 activities per year i.e. educational events, pollution prevention, stream restoration
- Education
 - Communicate two or more strategies i.e. speaking engagements, media materials
 - Program Plan/Annual Report webpage posting specifics



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ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE)

- What is Illicit Discharge? *Any discharge to an MS4 that is not composed entirely of stormwater, except discharges specifically identified in the Va. Administrative Code*

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IDDE CONTINUED

- Written IDDE procedures to detect, identify, and address nonstormwater discharges
 - Methods for field observations/screening
 - Schedule (outfalls screened annually)
 - Data collection (field screening)
 - Methods for investigation of source
 - Observation
 - Mechanisms for eliminations of source
 - Policies
 - Follow-up & documentation
- Public reporting of illicit discharges
 - Promote, publicize, & facilitate reporting
 - Who to contact: Garland Fenwick, 540-423-9046
 - Conduct inspections in response to complaints
 - Ensure corrective action where necessary

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WHAT IS AN ILLICIT DISCHARGE



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WHAT IS NOT AN ILLICIT DISCHARGE



- Water system flushing
- Landscape irrigation
- Air Conditioning condensate
- Basement sump pumps
- Potable water sources
- Street wash water
- Spring water
- Dechlorinated pool discharge
- Agricultural irrigation water
- Foundation/flooding drains
- Fire fighting activities
- Residential car washing

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WHAT IS OR IS NOT ILLICIT DISCHARGE???



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ILLICIT DISCHARGE CLEAN-UP



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CONSTRUCTION SITE RUNOFF CONTROLS

- VCCS Standards & Specifications for ESC
 - Approved plan prior to start of regulated land disturbance (Approved by VCCS)
 - Inspection oversight (Certified consultants)
 - Legal Authority to require compliance
- Contractor responsibilities with VCCS oversight
 - Obtain Construction General Permit (GP), when required
 - Implement the ESC Plan and meet GP requirements
 - Develop and implement Stormwater Pollution Prevention Plan (SWPPP)

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CONSTRUCTION SITE RUNOFF CONTROLS



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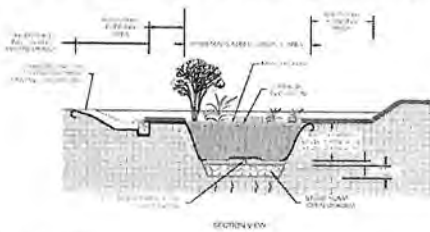
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BMP STANDARDS & SPECIFICATIONS



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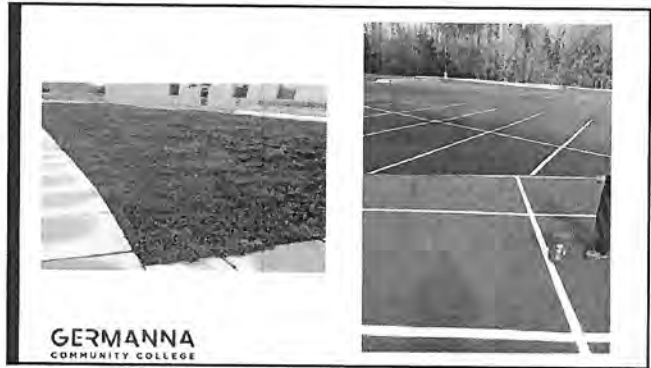
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GOOD HOUSEKEEPING/POLLUTION PREVENTION

PROGRAM MANUAL

- Maintenance & operations procedure BMP
 - Vehicle washing, vehicle maintenance, dumpster operations/location, fueling, chemical storage, other applicable practices
- Training Plan
- Inspection Guidance
 - Checklist/Mapping
 - Documentation
- Waste Management
 - Oil, gas, and diesel
 - Absorbents
 - Other applicable wastes
- Reporting
- Evaluation/modification

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STORMWATER POLLUTION PREVENTION PLAN MAP

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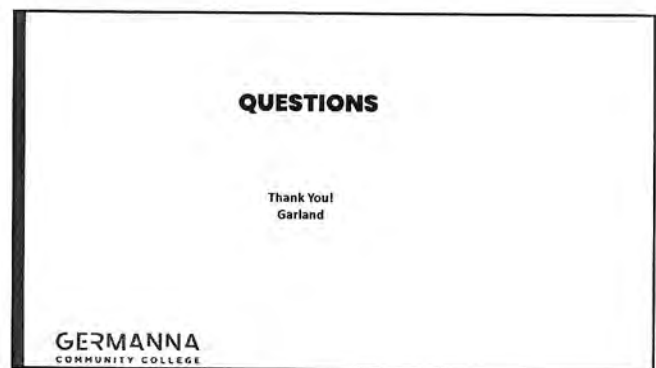
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Public Involvement Activity #3

Garland Fenwick

From: Shaquanda Y. Stewart
Sent: Friday, March 31, 2023 3:13 PM
To: Eric Earnhardt; Rachel M. Eaton; Maury Wrightson; Grace A. Cellucci; Stephanie L. Marsich; Novel Yi; John Stroffolino; William T. Callan; Tamara A. Muldrow; Garland Fenwick; Jagwinder Singh; Zachary A. Wyant; Andrea Goldstein; Yawo M. Ekpoh; Shawn Shields; Tracey F. Williams; Jennifer C. Scott; Elizabeth A. Granger; Larry Adams; sarahjfralich@gmail.com; stephanieshand12@gmail.com; jasmine.anderson@hq.doe.gov; Christl E. Zaccagnino; Samantha Wilson; Brenda J. Anderson-Diggs; Harry E. Schoeller; Sandra L. Lovell; Tina Lance; Arisa Johnson; Shand, Stephanie P (V55) CIV USN NAVSURFWARCEN DAH VA (USA); Mark T. Ecleo; Kelvin Lee; Tereza D. Valencia; Jane Teresi; Sandra L. Lovell
Cc: Reem M. Adams; Shashuna J. Gray
Subject: RE: STEAM-H Coordinator Follow-up and Meeting Recording
Attachments: Activity Schedule (3).pdf
Importance: High

Good afternoon,

Due to the weather forecast we have decided it would be safer to move outdoor activities indoors (please disregard previous courtyard map). See the updated activity schedule attached and for those who were previously scheduled to run an activity in the courtyard, your activity has been moved to an indoor location.

If you have any questions, please be sure to ask Eric, Quanda or Reem in the morning during breakfast.

Thank you all again for volunteering for this event and your flexibility during this time!

See you in the morning 😊.

Best,

Shaquanda Stewart
Administrative Assistant to the Dean of Arts and Sciences
Germanna Community College
(540) 834-1086 | Office SP3-112
Systemewart@germanna.edu

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As a public, comprehensive community college, Germanna provides accessible, high quality educational and training opportunities that address our communities' diverse and changing learning needs.

From: Eric Earnhardt <EEarnhardt@germanna.edu>
Sent: Thursday, March 23, 2023 6:15 PM
To: Rachel M. Eaton <REaton@germanna.edu>; Maury Wrightson <mwrightson@germanna.edu>; Grace A. Cellucci

<gcellucci@germanna.edu>; Stephanie L. Marsich <SMarsich@germanna.edu>; Novel Yi <nyi@germanna.edu>; John Stroffolino <JStroffolino@germanna.edu>; William T. Callan <WCallan@germanna.edu>; Tamara A. Muldrow <TMuldrow@germanna.edu>; Garland Fenwick <GFenwick@germanna.edu>; Jagwinder Singh <JSingh@germanna.edu>; Zachary A. Wyant <ZWyant@germanna.edu>; Andrea Goldstein <andreagoldstein22@gmail.com>; Yawo M. Ekpoh <YEkpoh@germanna.edu>; Shawn Shields <SShields@germanna.edu>; Tracey F. Williams <TWilliams@germanna.edu>; Jennifer C. Scott <JScott@germanna.edu>; Elizabeth A. Granger <EGranger@germanna.edu>; Larry Adams <LAdams@germanna.edu>; sarahjfralich@gmail.com; stephanieshand12@gmail.com; jasmine.anderson@hq.doe.gov; Christl E. Zaccagnino <CZaccagnino@germanna.edu>; Samantha Wilson <SWilson@germanna.edu>; Brenda J. Anderson-Diggs <BAnderson-Diggs@germanna.edu>; Harry E. Schoeller <HSchoeller@germanna.edu>; Sandra L. Lovell <SLovell@germanna.edu>; Tina Lance <TLance@germanna.edu>; Arisa Johnson <RJohnson@germanna.edu>; Shand, Stephanie P (V55) CIV USN NAVSURFWARCEN DAH VA (USA) <stephanie.p.shand.civ@us.navy.mil>; Mark T. Ecleo <MEcleo@germanna.edu>; Kelvin Lee <KLee@germanna.edu>; Tereza D. Valencia <TValencia@germanna.edu>; Jane Teresi <JTeresi@germanna.edu>
Cc: Reem M. Adams <RAdams@germanna.edu>; Shaquanda Y. Stewart <SYStewart@germanna.edu>; Shashuna J. Gray <SGray@germanna.edu>

Subject: STEAM-H Coordinator Follow-up and Meeting Recording

Greetings STEAM-H Day Activity Coordinators!

Thanks to those who made it to the confirmation meeting this Tuesday. For those who want to review or who couldn't make it, you can access the recording of the meeting here: <https://vccs.zoom.us/rec/share/SkM1blul9nlO-Cmp9tJVWz0-zQyu4LnBvgWDquuilc91ECglli04CPr09IkTJ1o2.ZHkElcUIN7QLF-lq?startTime=1679428966000>

If you know of individuals who want to volunteer but will not be part of your activity (greeters, crowd direction, etc.), you can direct them to sign up by adding their name to this form: https://docs.google.com/spreadsheets/d/1dkOpk_B66_8x5MwfJJ80V9wG-l9GMrVpjyyu4AKYfgM/edit?usp=sharing

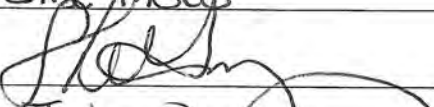
Attached to this email is the **event flyer** for your continued distribution and the current draft of the **Activity Schedule** we reviewed during the meeting.

If any of the information regarding your activity needs to be changed, **please send your alterations for the Activity Schedule to Reem Adams by Monday, March 27** (radams@germanna.edu) so that the QR code can be developed and distributed at the event. Please remember that if your activity occurs within specified time increments (every twenty minutes, for example), let Reem know that so we can put it on the activity list and signage outside your door.

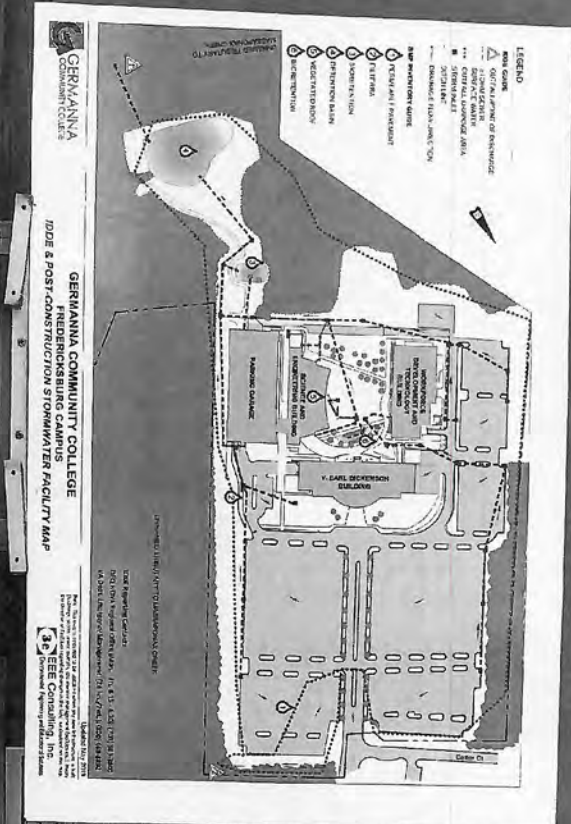
Coffee, bagels, and pastries will be available for volunteers at 9:00am in SP1 101 (the 1st-floor student lounge of the Dickinson Bldg.) Stop in to grab some ☕🥯 and pick up your **free t-shirt and mug** (available to all faculty and staff volunteers). Please try to get to your station to perform all set up in *plenty of time* for a 10am start! ALL volunteers can help themselves to food, cotton candy and ice cream during the event. NOTE: faculty

SIGN-IN SHEET (MS-4)

School Name:	Germonna Community College	Date: 4/1/2023	
Event:	STEAM-H Day	Location:	Fredericksburg Campus

Name	Role	Time	Flyer <input checked="" type="checkbox"/>	No.
Pete Williams				1
Neesha Sims				2
Megan Sakiyama				3
Tamara Rich				4
Tyler Posey				5
Taylor Pylant				6
Elise Mesco				7
				8
John Daw				9
Tiffany Ray				10
Susan Van Vleet				11
Lechlann Earnhardt				12
Peter Paradis				13
				14
				15
				16
				17
				18
				19
				20

STEAM-H DAY
 Science, Technology, Engineering, Art,
 Mathematics & Health
STORM WATER
POSTER PRESENTATION

STEAM-H DAY

*Science, Technology, Engineering,
Art, Mathematics & Health*



April 1 • 10 a.m. – 2 p.m.

Fredericksburg Campus, 10000 Germanna Point Drive, Fredericksburg, VA

Here are just a few examples of activities designed for grades K-12:

- Drones
- Geology rocks
- Learn to use a microscope
- Drawing & painting from observation
- Hands-only CPR & AED
- Fibonacci art
- Cybersecurity
- Math games/activities
- 3D-Printed Catapult Event
- Game truck
- Music & food
- Campus tours
- Ice cream
- Bounce house
- Giant Jenga
- Squishy circuits

We are collecting canned and boxed food and personal hygiene items for the Food Pantry at the event.



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STEAM-H DAY

Science, Technology, Engineering,
Art, Mathematics & Health



Building SP1: V. Earl Dickinson Building

Instructor Name	Activity Name	Room	Age-Range	Time Available	Increments
Rachel Eaton	Fibonacci Art	Room 309	Grades K-12	10am-2pm	Top of Each Hour
John Stroffolino	Hands-Only CPR & AED	Room 304	Grades K-8	10am-2pm	Join anytime
Grace Cellucci	Math Games/Activities	Room 318	Grades K-12	10am-2pm	Join anytime
Novel Yi	Drawing & Painting from Observation	Room 319	Grades K-12	10am-2pm	Join anytime
Jagwinder Singh	You will find this Humerus!	Room 325	Grades K-12	10am-2pm	Join anytime
Brenda Anderson-Diggs	Habits for Basic Cybersecurity	Room 317	Grades 4-12	10am-2pm	Join anytime
Stephanie Shand	Monty Hall Problem	Room 323	Grades K-12	10am-2pm	Join anytime
Mark Ecleo, Tereza Valencia, Kelvin Lee	Campus Tour	Meet in Lobby of SP1 (2nd floor)	Grades 5-12	12pm and 12:30pm	12pm and 12:30pm
Tracy Williams	Balance and Agility– Twister!	Multicultural Room 3rd floor.	Grades K-12	10am-2pm	Join anytime

(continue to next page)

STEAM-H DAY

Science, Technology, Engineering,
Art, Mathematics & Health



Building SP2: Workforce and Technology Center

Instructor Name	Activity Name	Room	Age-Range	Time Available	Increments
Harry Schoeller Sandy Lovell	Drones	Main Lobby	Grades 5-12	10am-2pm	Join anytime
Zach Wyant	Virtual Reality Showcase & Hard Hat Craft	Room 125	Grades K-12	10am-2pm	Join anytime
Yawo Ekpoh	Future Builders/ Constructors Adventure	Room 139	Grades K-5	10am-2pm	Join anytime
Larry Adams	Cryptography (Cybersecurity)	Room 128	Grades 9-12	10am-2pm	Join anytime
Sarah Fralich	Build Your Own Cypher	Room 129	Grades K-12	10am-2pm	Join anytime
Garland Fenwick	Stormwater Management Poster Presentation	Front of Sealy Auditorium	Grades K-12	10am-2pm	Join anytime

(continue to next page)

STEAM-H DAY

Science, Technology, Engineering,
Art, Mathematics & Health



Building SP3: Science & Engineering Building and Information Center

Instructor Name	Activity Name	Room	Age-Range	Time Available	Increments
Stephanie Marsich	Microscope Room	Room 311	Grades K-12	10am-2pm	Join anytime
Tamara Muldrow	Pond Water	Room 315	Grades K-8	10am-2pm	Join anytime
Maury Wrightson	Geology Rocks!	Room 215	Grades K-8	10am-2pm	Join anytime
Jennifer Scott	See your DNA	Room 319	Grades K-12	10am-2pm	Join anytime
Shawn Shields/ Christl Zaccagnino	Slime!	Room 225	Grades K-8	10am-12pm	Every 30 minutes
Todd Callan	Specimens	Room 323	Grades K-12	10am-12pm	Join anytime
Beth Granger	Squishy Circuits	Room 123	Grades K-12	10am-2pm	Every 30 minutes
Harry Schoeller Beth Granger	3-D Printing, Catapults, and Mechanical Testing (Can Compression / Crushing)	Room 127	Grades K-12	10am-2pm	Every 30 minutes
Andrea Goldstein	Egg Drop Gravity	Room 303	Grades K-12	10am-2pm	Join anytime

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STEAM-H DAY

Science, Technology, Engineering,
Art, Mathematics & Health



Food & Misc.

Please enjoy free food and activities!

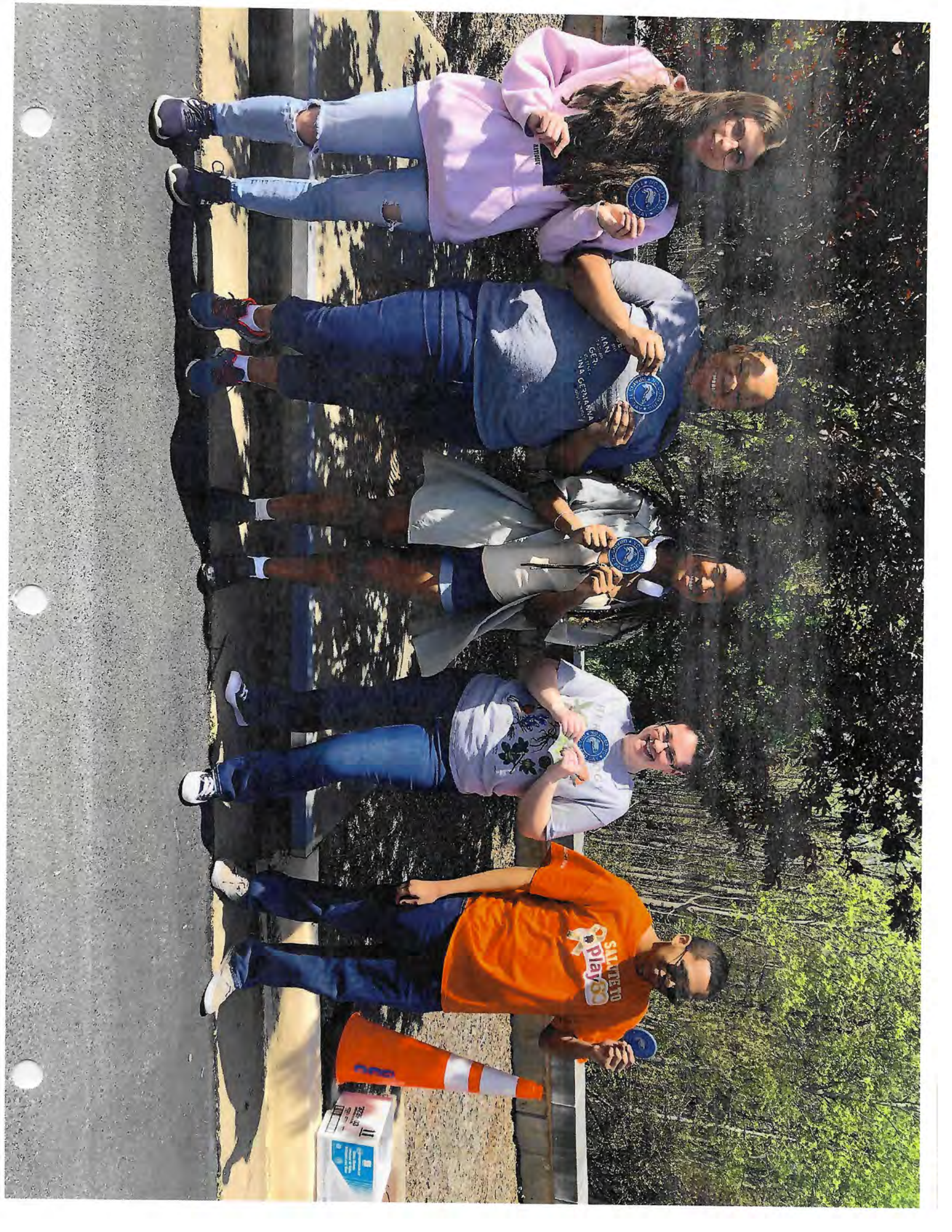
Type	Building	Room/Area	Time	Notes
Cotton Candy	SP2	Main floor lounge	10am-2pm	
SWAG Tables	SP3	Main Lobby	10am-2pm	Free SWAG bags and t-shirts!
Peppers Grill	Outside	TBD	11am-2pm	
Game Truck	Outside	TBD	10am-2pm	
Ice Cream Truck	Outside	TBD	10am-2pm	
Ambulance	Outside	TBD	10am-2pm	
Lunch Room	SP1	101	10am-2pm	
Lunch Room	SP2	105 A/B	10am-2pm	
Welcome Table/ Food Pantry Donations	SP1	Main Lobby (2nd floor)	10am-2pm	
Welcome Table/ Food Pantry Donations	SP2	Main Lobby	10am-2pm	
Welcome Table/ Food Pantry Donations	SP3	Main Lobby	10am-2pm	
Resource Fair	SP1	Main Lobby (2nd floor)	12pm	
Arcade Games/ Coloring Station	SP1	3rd floor Lobby	10am-2pm	-Strike a Light -Play Back -Giant Connect 4
Backyard Games	Outside	Courtyard	10am-2pm	-Cornhole -Giant Jenga

Public Involvement Activity #4

SIGN-IN SHEET (MS-4)

School Name: Germanna Community College	Date: 4/11/2023
Event: SGA Meeting	Location: Fredericksburg Campus

Name	Role	Time	Flyer <input checked="" type="checkbox"/>	No.
Neesha Sides		12:00		1
Sean Ahmad		12:00		2
Jessica Wolski		12:00		3
Jayson Jones		12:00		4
Renee Pringles		12:00		5
Lynn Korb		12:00		6
Alessandra Garcia	SGA Public Relations	12:00		7
Jaxton Anderson	Senate Member	12:00		8
Chaylea Buchanan		12:00		9
Robert Miller	senator	12:00		10
Brandon Beiler		12:08		11
				12
				13
				14
				15
HANDED OUT 20 BROCHURES				16
				17
5 STUDENT PARTICIPATED IN INSTALLING				18
STORMWATER MEDALLION.				19
				20



AMERICAN

AMERICAN
GENETICS
SINCE 1987

AMERICAN
GENETICS
SINCE 1987

AMERICAN
GENETICS
SINCE 1987

SLATE TO
PLAY

AMERICAN
GENETICS
SINCE 1987



Examples of BMP's structural control measures:

Retention basins - used to manage stormwater run-off to prevent flooding and downstream erosion, and improve water quality in an adjacent river, stream, lake or bay.

Sometimes called a **wet pond** or **wet detention basin**, it is an artificial lake with vegetation around the perimeter, and includes a permanent pool of water in its design.



Bioswales are landscape elements designed to remove silt and pollution from surface run-off water.



Additional examples of BMP's structural control measures:

Bioswales



*Germanna
Community
College*

**Stormwater
Management**

What is stormwater? Water that originates during precipitation events. Stormwater can soak into the soil (infiltrate), be held on the surface and evaporate, or run-off and end up in nearby streams, rivers, or other water bodies (surface water).



What is stormwater management? Stormwater management is the process of controlling stormwater run-off for the purpose of reducing erosion, water quality degradation, and flooding.

Stormwater management control measures are often referred to as Best Management Practices (BMPs).

Stormwater Management Best Management Practices can either be nonstructural or structural measures taken to mitigate changes to both the quantity and quality of runoff.



Examples of BMP's non-structural control measures:
Never dump anything down storm drains
Placing litter and cigarette butts in trash receptacles

Utilize recycling programs
Promptly repair vehicle and equipment leaks
Clean up pet waste and dispose it in the garbage or flush it down the toilet
Take your car to the car wash instead of washing it in a driveway or parking lot
Properly dispose household waste

