GERMANNA
COMMUNITY COLLEGE

Fredericksburg Campus

Municipal Separate Storm Sewer System Annual Report

For

General Permit No. VAR040125

Permit Year

July 1, 2023 through June 30, 2024

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, 2023.

Submitted: September 30, 2024

TABLE OF CONTENTS

1.0 GENERAL ANNUAL REPORTING REQUIREMENTS 1
1.1. General Information (Part I.D.3.a) 1
1.2. Reporting Period (Part I.D.3.b) 1
1.3. Signed Certification (Part I.D.3.c) 1
1.4. Reporting for MCMs #1 - #6 (Part I.D.3.d) 1
1.5. Evaluation of the MS4 Program Implementation (Part I.D.3.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. Description of Changes in High Priority Stormwater Issues (Part I.E. 1.g(3)) 4
2.1.4. Description of Activities Regarding Climate Change (Part I.E. 1.g(4)) 4
2.1.5. MCM #1 Evaluation (Part I.D.3.e) 4
2.2. MCM #2: Public Involvement and Participation 5
2.2.1. Public Input Summary (Part I.E.2.i(1)) 5
2.2.2. Summary of Stormwater Pollution Complaints (Part I.E.2.i(2)) 5
2.2.3. MS4 Program and Stormwater Webpage (Part I.E.2.i(3)) 5
2.2.4. Internal MS4 Program Webpage (Part I.E.2.i(4)) 5
2.2.5. Public Involvement Activities Implemented (Part I.E.2.i(5)) 6
2.2.6. Public Education and Outreach Regarding Climate Change (Part I.E.2.i(6)) 6
2.2.7. Public Involvement Activity Metric and Evaluation (Part I.E.2.i(7)) 6
2.2.8. MS4 Collaboration (Part I.E.2.i(8)) 7
2.2.9. 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. MCM #3 Evaluation (Part I.D.2.e) 8
2.4. MCM #4: Construction Site Stormwater Runoff and Erosion and Sediment Control 10
2.4.1. Implementation of Standards and Specifications (Part I.E.4.a(3)) 10
2.4.1.1. Site Stormwater Runoff Inspections (Part I.E.4.e(1)) 10
2.4.1.2. Enforcement Actions (Part I.E.4.e(2)) 10
2.4.1.3. Land Disturbance w/ Standards & Specifications (Part I.E.4.e(3)(a)) 10
2.4.2. MCM #4 Evaluation (Part I.D.3.e) 11
2.5. MCM #5: Post-Construction Stormwater Management 12
2.5.1. Implementation of Standards and Specifications (Part I.E.5.a(4)) 12
2.5.2. Stormwater Management Facility Inspections (Part I.E.5.e(2)) 12
2.5.3. Stormwater Management Facility Maintenance (Part I.E.5.e(3)) 12

2.5.4. DEQ BMP Warehouse Reporting New BMPs (Part I.E.5.e(5)) 13
2.5.5. DEQ BMP Warehouse Reporting Existing BMP Inspections (Part I.E.5.e(6)) 13
2.5.6. MCM #5 Evaluation (Part I.D.3.e) 13
2.6. MCM #6: Pollution Prevention and Good Housekeeping 14
2.6.1. Operational Procedures (Part I.E.6.y(1)) 14
2.6.2. High Priority Facilities Review (Part I.E.6.y(2)) 14
2.6.3. Newly Developed SWPPPs (Part I.E.6.y(3)) 14
2.6.4. Modified SWPPPs (Part I.E.6.y(4)) 14
2.6.5. Delisted SWPPPs (Part I.E.6.y(5)) 15
2.6.6. Nutrient Management Plans status (Part I.E.6.y(6)) 15
2.6.7. Training Events (Part I.E.6.y(7)) 16
2.6.8. MCM #6 Evaluation (Part I.D.3.e) 16
3.0 LOCAL TMDL ACTION PLANS 17

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: Description of Changes in High Priority Stormwater Issues 4
Table 4: Responses to Public Comments on the MS4 Program Plan 5
Table 5: Responses to Stormwater Pollution Complaints 5
Table 6: Public Involvement Activities Implemented 6
Table 7: Illicit Discharges 8
Table 8: Construction Project(s) Inspections and Compliance Actions and Enforcement 10
Table 10: Maintenance Activities Performed on Stormwater Management Facilities 12
Table 10: Good Housekeeping Operational Procedures Developed or Modified 14
Table 11: New SWPPPs Developed 14
Table 12: Modified SWPPPs 15
Table 13: Delisted SWPPPs 15
Table 14: Turf and Landscape Nutrient Management Plans 15
Table 15: Training Activities 16

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.3.a)

Permitee Name: Germanna Community College

System Name: Virginia Community College System

Permit Number: VAR040125

1.2. Reporting Period (Part I.D.3.b)

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

July 1, 2023 through June 30, 2024

1.3. Signed Certification (Part I.D.3.c)

A signed certification as per Part IV 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: ___ John M. Davis _____ Date: _09/27/2024_____

1.4. Reporting for MCMs #1 - #6 (Part I.D.3.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.3.e)

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

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

Table 1: Summary of MS4 Program Plan Changes
No changes required.

2.0 MINIMUM CONTROL MEASURES

2.1. MCM #1: Public Education and Outreach

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

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

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

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

A summary of the public education and outreach activities conducted for the report year, including the strategies used to communicate the identified high-priority issues.

A summary of the public education and outreach activities conducted for the report year, including the strategies used to communicate the identified high-priority issues is provided in Table 2. Appendix A includes documentation of the communication efforts described in Table 2.

Table 2: High Priority Stormwater Issues

#	Stormwater Issue	Strategy	Communication	Metric	Beneficial	Included Climate Change Education
1	Public education on stormwater runoff	Traditional written materials	Email with Powerpoint distributed 3/18/24	Approximately 13,000 students, faculty & staff	☒ Yes ☐ No	☐ Yes ☒ No
2	TMDLs and Local Impaired Waters	Media materials	Graphic media placed on TV monitors in public frequented areas 4/10/24	Approximately 2,000 students, faculty & staff	☒ Yes ☐ No	☐ Yes ☒ No
3	Education on Pollution Prevention from Public Activities	Traditional Written Materials	Fliers placed on bulletin boards in public frequented areas 12/1/23	Approximately 1,500 students, faculty & staff	☒ Yes ☐ No	☐ Yes ☒ No

2.1.3. Description of Changes in High Priority Stormwater Issues (Part I.E. 1.g(3))

A description of any changes in high-priority stormwater issues, including strategies used to communicate high-priority stormwater issues or target audiences for the public education and outreach plan. The permittee shall provide a rationale for any of these changes.

A description of any changes in high-priority stormwater issues and rationale for any of these changes are provided in Table 3. The changes to the strategies used to communicate high-priority stormwater issues or target audiences for the public education and outreach plan are provided in Table 2.

Table 3: Description of Changes in High Priority Stormwater Issues

#	Stormwater Issue	Description of Any Changes	Rationale for Changes
1	Public education on stormwater runoff	Instead of fliers distributed, a Powerpoint presentation was distributed.	For variation from year to year.
2	TMDLs and Local Impaired Waters	Not applicable	Not applicable
3	Education on Pollution Prevention from Public Activities	Not applicable	Not applicable

2.1.4. Description of Activities Regarding Climate Change (Part I.E. 1.g(4))

A description of public education and outreach activities conducted that included education regarding climate change.

A description of public education and outreach activities conducted that included education regarding climate change is provided in Table 2.

2.1.5. MCM #1 Evaluation (Part I.D.3.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.i(1))

A summary of any public comments on the MS4 program received and the responses.

Were any public comments on the MS4 Program received?

☐ Yes, responses are provided in Table 4. ☒ No

Table 4: Responses to Public Comments on the MS4 Program Plan		
#	Comments	Responses
1		
2		

2.2.2. Summary of Stormwater Pollution Complaints (Part I.E.2.i(2))

A summary of stormwater pollution complaints received under the procedures established in Part I.E.2.a(1), excluding natural flooding complaints, and how the permittee responded.

Were any stormwater pollution complaints received under the procedures established in Part I.E.2.a(1), excluding natural flooding complaints?

☐ Yes, responses are provided in Table 5. ☒ No

Table 5: Responses to Stormwater Pollution Complaints		
#	Comments	Responses
1		
2		

2.2.3. MS4 Program and Stormwater Webpage (Part I.E.2.i(3))

A webpage address to the MS4 program and stormwater website.

The webpage address is https://germanna.edu/about-germanna/public-information/environmental-sustainability

2.2.4. Internal MS4 Program Webpage (Part I.E.2.i(4))

Federal and state nontraditional permittees with security policies preventing the MS4 program and stormwater pollution prevention webpage from being publicly accessible utilizing an internal staff accessible website, such as intranet, shall provide evidence of the current internal MS4 program and stormwater pollution prevention webpage.

Is there an internal MS4 program and stormwater pollution prevention webpage?

☐ Yes, ☒ No

2.2.5. Public Involvement Activities Implemented (Part I.E.2.i(5))
A description of the public involvement activities implemented including any efforts to reach out and engage all economic and ethnic groups.

A description of the implemented public involvement activities are provided in Table 6.

2.2.6. Public Education and Outreach Regarding Climate Change (Part I.E.2.i(6))
A description of the public education and outreach activities conducted that also included education regarding climate change.

A description of the public education and outreach activities conducted that also included education regarding climate change is provided in Table 6.

2.2.7. Public Involvement Activity Metric and Evaluation (Part I.E.2.i(7))
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 6. Appendix B includes documentation of the public involvement activities.

Table 6: Public Involvement Activities Implemented

#	Activity Description /Date	Category	Metric	Collaboration	Included Climate Change Education	Beneficial to Improving Water Quality
1	Classroom presentation w/ Q&A 11/15/23	Educational	16 participants	No	☐ Yes ☒ No	☒ Yes ☐ No
2	Classroom presentation w/ Q&A 9: 30 am 3/25/24	Educational	21 participants	No	☐ Yes ☒ No	☒ Yes ☐ No
3	Classroom presentation w/ Q&A 2 pm 3/25/24	Educational	21 participants	No	☐ Yes ☒ No	☒ Yes ☐ No
4	Booth at College Event (STEM Day) 4/6/24	Educational	9 participants	No	☐ Yes ☒ No	☒ Yes ☐ No

5	Virtual Classroom presentation w/ Q&A 4/10/24	Educational	16 participants	No	☐ Yes ☒ No	☒ Yes ☐ No
6	Tree planting 4/16/24	Pollution Prevention	30 participants & 23 trees planted	No	☐ Yes ☒ No	☒ Yes ☐ No

2.2.8. MS4 Collaboration (Part I.E.2.i(8))

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 6.

2.2.9. 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 map and outfall information table updated to reflect any changes to the MS4 occurring on or before June 30 of the reporting year? ☒ Yes ☐ No ( )

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

The total number of outfalls and observation points screened during the reporting period as part of the dry weather screening program.

The number of outfalls and observation points screened during the reporting year as part of the dry weather screening program is 2.

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 7) ☒ No

Table 7: Illicit Discharges
Illicit Discharge
Part I.E.3.e(3)(a) Location and 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. 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 and Erosion and Sediment Control

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

The nontraditional 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. Site Stormwater Runoff Inspections (Part I.E.4.e(1))

Total number of erosion and sediment control inspections conducted.

The total number of erosion and sediment control inspections conducted are provided in Table 8.

2.4.1.2. Enforcement Actions (Part I.E.4.e(2))

The total number and each type of compliance actions and enforcement implemented.

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

Table 8: Construction Project(s) Inspections and Compliance Actions and Enforcement

Total Number of Inspections	Total Number of Notices of Violation Issued (Red Flags)	Total Number of Stop Work Orders Issued (Black Flags)
0	0	0

2.4.1.3. Land Disturbance w/ Standards & Specifications (Part I.E.4.e(3)(a))

A confirmation statement that land disturbing projects that occurred during the reporting period have been conducted in accordance with the current department approved annual 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 ☒ Not Applicable (No land disturbing projects)

2.4.2. MCM #4 Evaluation (Part I.D.3.e)

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

Were all MCM #4 measurable goals completed in accordance with the MS4 Program Plan?
☒ Yes ☐ No ( )

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

2.5. MCM #5: Post-Construction Stormwater Management

2.5.1. Implementation of Standards and Specifications (Part I.E.5.a(4))

The nontraditional MS4 implements the most recent DEQ approved standards and specifications in accordance with the Virginia the Virginia Stormwater Management Act (§ 62.1-44.15:24 et seq. of the Code of Virginia) and VSMP Regulations (9VAC25-870), and maintains an inspection and maintenance program in accordance with Part I E 5 b.

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

Total number of inspections conducted on stormwater management facilities owned or operated by the permitee.

The total number of inspections conducted on stormwater management facilities are 6.

2.5.3. Stormwater Management Facility Maintenance (Part I.E.5.e(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 any significant maintenance, repairs, or retrofit activities performed on any stormwater management 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 10.

Table 9: Maintenance Activities Performed on Stormwater Management Facilities

Stormwater Management Facility	Significant Maintenance Activity

2.5.4. DEQ BMP Warehouse Reporting New BMPs (Part I.E.5.e(5))

A confirmation statement that the permittee electronically reported stormwater management facilities using the BMP Warehouse in accordance with Part III B 1 and 2.

Did the MS4 electronically report using the DEQ BMP Warehouse any stormwater management facilities installed that disturbed less than one acre and for which a General VPDES Permit for Discharges of Stormwater Construction Activities was not required and BMPs implemented as part of a TMDL action plan to achieve nitrogen, phosphorous, and total suspended solids reductions?

☐ Yes ☐ No ( ) ☒ Not Applicable (No qualifying SMFs)

2.5.5. DEQ BMP Warehouse Reporting Existing BMP Inspections (Part I.E.5.e(6))

A confirmation statement that the permittee electronically reported stormwater management facilities inspected using the DEQ BMP Warehouse in accordance with Part III B 5.

Did the MS4 electronically report using the DEQ BMP Warehouse stormwater management facilities inspections information?

☒ Yes ☐ No ( )

2.5.6. MCM #5 Evaluation (Part I.D.3.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.y(1))

A summary of any written procedures developed or modified in accordance with Part I E 6 a and b 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 (No modifications required.)

Table 10: Good Housekeeping Operational Procedures Developed or Modified
Procedures updated in accordance with the 2023 - 2028 MS4 General Permit.

2.6.2. High Priority Facilities Review (Part I.E.6.y(2))

A confirmation statement that all high-priority facilities were reviewed to determine if SWPPP coverage is needed during the reporting period.

Were all high-priority facilities reviewed to determine if SWPPP coverage is needed during the reporting period?

☒ Yes ☐ No ( )

2.6.3. Newly Developed SWPPPs (Part I.E.6.y(3))

A list of any new SWPPPs developed in accordance Part I E 6 i during the reporting period.

Were any new SWPPPs developed in accordance Part I E 6 i 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	

2.6.4. Modified SWPPPs (Part I.E.6.y(4))

A summary of any SWPPPs modified in accordance with Part I E 6 j, 6 l, or 6 m.

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

☐ Yes (Refer to Table 12) ☐ No ( ) ☒ Not Applicable (No modifications required)

Table 12: Modified SWPPPs	
SWPPP Name	**SWPPP Address**
Not Applicable	

2.6.5. Delisted SWPPPs (Part I.E.6.y(5))

The rationale of any high priority facilities delisted in accordance with Part I E 6 l or m during the reporting period.

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

☐ Yes (Refer to Table 13) ☒ No

Table 13: Delisted SWPPPs	
Delisted SWPPPs	**Rationale for Delisting**
Not Applicable	Not Applicable

2.6.6. Nutrient Management Plans status (Part I.E.6.y(6))

The status of each nutrient management plan as of June 30 of the reporting year (e.g., approved, submitted and pending approval, and expired).

Refer to Table 14 for the status of each nutrient management plan as of June 30 of the reporting year.

Table 14: Turf and Landscape Nutrient Management Plans	
Nutrient Management Plan	**Status**
Fredericksburg	Approved
Daniel Technology	Approved
Locust Grove	Approved

2.6.7. Training Events (Part I.E.6.y(7))

A list of the training activities conducted in accordance with Part I.E.6.d, including the following information: (a) The completion date for the training activity; (b) The number of employees who completed the training activity; and (c) The objectives and good housekeeping procedures covered by the training activity.

Was training conducted?

☒ Yes (See Table 15) ☐ No ( ) ☐ Not Applicable (Not required this report year)

Table 15: Training Activities

Dates	# of Employees	Training Objectives and Good Housekeeping Procedures Covered
4/12/24 - 5/20/24	4	Good Housekeeping and Pollution Prevention and IDDE
6/20/24	1	Pesticide Training

2.6.8. MCM #6 Evaluation (Part I.D.3.e)

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

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

☒ Yes ☐ No ( )

Are the MS4 Program measurable goals effective?

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

3.0 LOCAL TMDL ACTION PLANS

No local TMDL Action Plans

Appendix A: Documentation of Public Education and Outreach Activities

High Priority Stormwater Issue #1

Garland Fenwick

To: *All-Germanna*
Cc: Garland Fenwick
Subject: Important Municipal Separate Storm Sewer System Program(MS-4)
Attachments: GCC_Stormwater Slides_CCTV_Group 3.pptx

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

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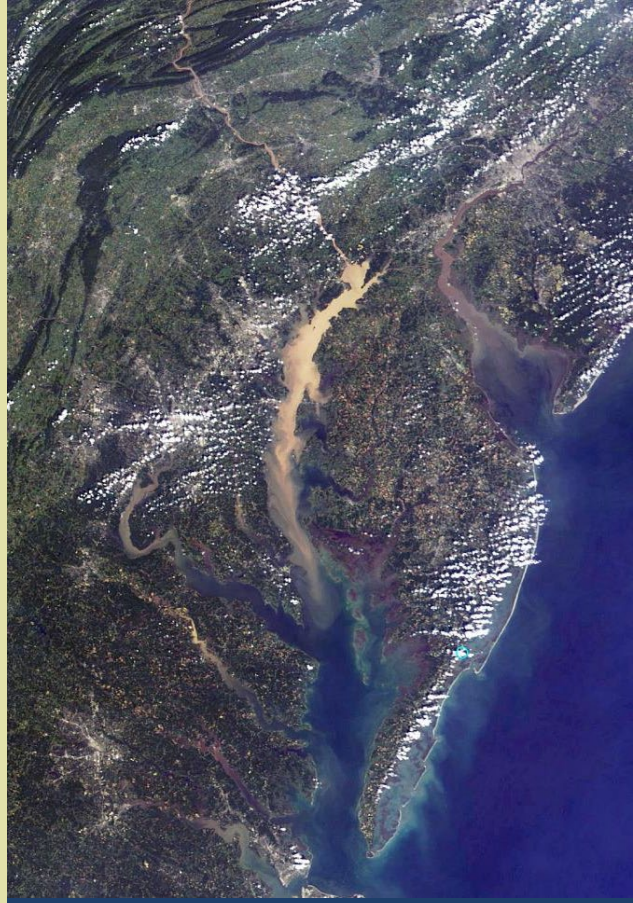
STORMWATER RUNOFF PICKS UP SEDIMENT & POLLUTANTS AFTER A RAINFALL.

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.

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LOCAL IMPAIRED WATERWAYS

GCC directly discharges into an unnamed tributary of the Massaponax Creek.

The Massaponax Creek is designated as an impaired waterway for pH and bacteria.

Pollutant sources that affect water pH are landscape additives and chemicals.

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

Source: www.northgeorgiawater.org

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 email **gfenwick@germanna.edu** or call the Facilities Department at **540-423-9185**.

For more information visit GCC's stormwater website at **http://www.germanna.edu/facilities**.

ONLY RAIN
¡NO CONTAMINE!
DOWN THE STORM DRAIN
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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.

Garland Fenwick

To: ALL GCC STUDENTS - GCC
Cc: Garland Fenwick
Subject: Important Municipal Separate Storm Sewer System Program(MS-4)_Student
Attachments: GCC_Stormwater Slides_CCTV_Group 3.pptx

Dear Students,

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!

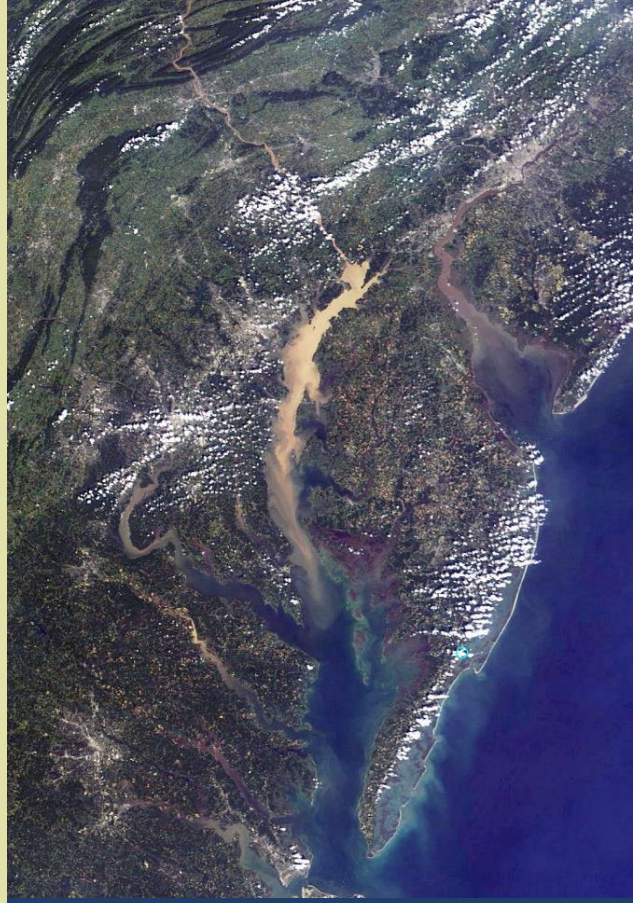
Garland M. Fenwick
Director of Facilities
Germanna Community College
PO Box 1430
2130 Germanna Highway
Locust Grove, VA 22508
540-423-9046

GERMANNA
COMMUNITY COLLEGE

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.

GERMANNA COMMUNITY COLLEGE

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COMMUNITY COLLEGE

LOCAL IMPAIRED WATERWAYS

GCC directly discharges into an unnamed tributary of the Massaponax Creek.

The Massaponax Creek is designated as an impaired waterway for pH and bacteria.

Pollutant sources that affect water pH are landscape additives and chemicals.

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

Source: www.northgeorgiawater.org

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 email **gfenwick@germanna.edu** or call the Facilities Department at **540-423-9185**.

For more information visit GCC's stormwater website at **http://www.germanna.edu/facilities**.

ONLY RAIN
¡NO CONTAMINE!
DOWN THE STORM DRAIN
©2013 Das Mfg. Inc.

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COMMUNITY COLLEGE

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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.

High Priority Stormwater Issue #2

Garland Fenwick

From: James Solomon
Sent: Wednesday, April 10, 2024 2:21 PM
To: Garland Fenwick
Subject: RE: MS-4 Slides

They are up now.

Thank you,

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

From: Garland Fenwick <GFenwick@germanna.edu>
Sent: Wednesday, April 10, 2024 1:34 PM
To: James Solomon <JSolomon@germanna.edu>
Subject: MS-4 Slides
Importance: High

Jim,

I am a little behind on getting my slides to you for the TV's this year. Can you get these slides on the TV's by April 15 and take them down on May 1?

Thanks
Garland

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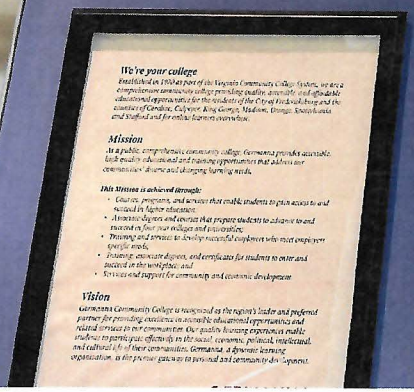


We're your college

Established in 1970 as part of the Virginia Community College System, we are a comprehensive community college providing quality, accessible, and affordable educational opportunities for the residents of the City of Fredericksburg and the counties of Caroline, Culpeper, King George, Madison, Orange, Spotsylvania and Stafford and for other learners overseas.

Mission

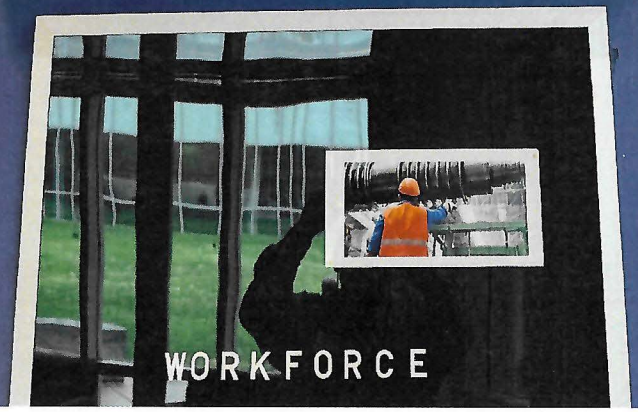
As a public, comprehensive community college, Germanna provides accessible, high quality educational and training opportunities that address our communities' diverse and changing learning needs.

This Mission is achieved through:

- Courses, programs, and services that enable students to gain access to and success in higher education;
- Associate degrees and certificates that prepare students to advance to and succeed in four year colleges and universities;
- Training and services to develop successful employees who meet employer specific needs;
- Training, associate degrees, and certificates for students to enter and succeed in the workplace; and
- Services and support for community and economic development.

Vision

Germanna Community College is recognized as the region's leader and preferred partner for providing excellence in accessible educational opportunities and related services to our communities. Our quality learning experiences enable students to participate effectively in the social, economic, political, intellectual, and cultural life of their communities. Germanna, a dynamic learning organization, is the premier gateway to personal and community development.



GERMANNA
COMMUNITY COLLEGE

LOCAL IMPAIRED WATERWAYS

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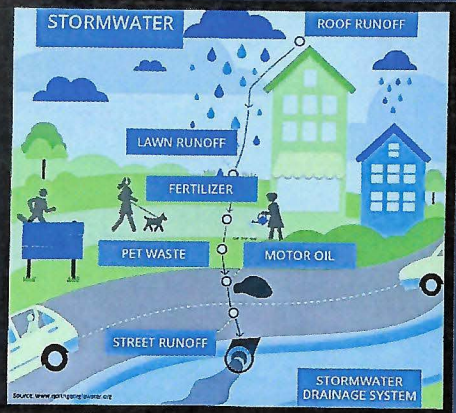

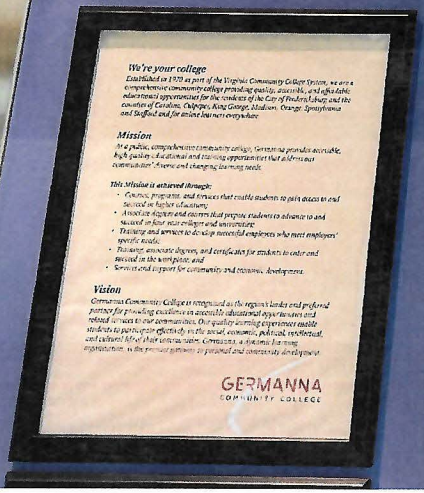

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Mission

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

This Mission is achieved through:

- Courses, programs, and services that enable students to gain access to and succeed in higher education;
- Associate degrees and courses that prepare students to advance to and succeed in four-year colleges and universities;
- Training and services to develop successful employees who meet employers' specific needs;
- Pathways, associate degrees, and certificates for students to enter and succeed in the workplace; and
- Services and support for community and economic development.

Vision

Germanna Community College is recognized as the region's leader and preferred partner for providing excellence in accessible educational opportunities and related services to our communities. Our quality learning experiences enable students to participate effectively in the social, economic, political, intellectual, and cultural life of their communities. Germanna is a destination for young organizations, in the pursuit of personal and community development.

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ONLY RAIN
NO CONTAMINANTS
DOWN THE STORM DRAIN
GERMANNA
COMMUNITY COLLEGE
ILLICIT
DISCHARGE
Any discharge that enters the storm drain system or a natural drainage way on campus that is not composed entirely of stormwater.
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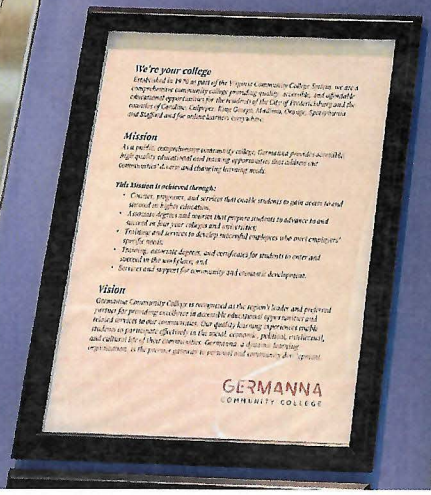
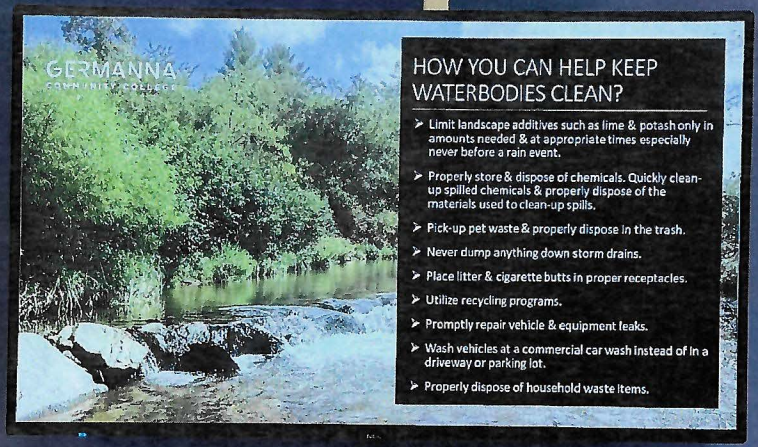
For more information visit GCC's stormwater website at http://www.germanna.edu/facilities.


We're your college
Mission
Vision
GERMANNA
COMMUNITY COLLEGE

WORKFORCE
&

AED


GERMANNA
COMMUNITY COLLEGE
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.
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➢ Place litter & cigarette butts in proper receptacles.
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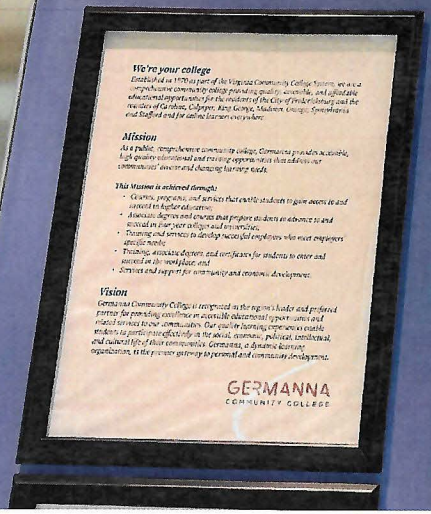
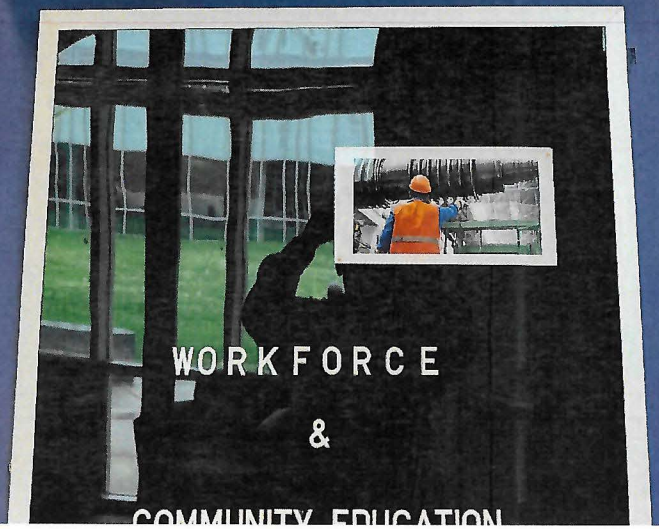
➢ Promptly repair vehicle & equipment leaks.
➢ Wash vehicles at a commercial car wash instead of in a driveway or parking lot.
➢ Properly dispose of household waste items.


We're your college
Mission
Vision
GERMANNA
COMMUNITY COLLEGE


WORKFORCE
&
COMMUNITY EDUCATION

AED

LIFELINE

High Priority Stormwater Issue #3

Garland Fenwick

From: Garland Fenwick
Sent: Friday, December 1, 2023 2:14 PM
To: Garland Fenwick
Subject: Posters Placed 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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GERMANNA

We've Moved!
FOOD PANTRY
Available for Current Germanna Students

Fredericksburg Area Campus
Monday 11am-1pm & Thursday 4-6pm
Located in SP1 Room 114E

Also available by appointment at foodpantry@germanna.edu
The pantry will be closed when the college is closed

PARTNER AGENCY OF FREDERICKSBURG REGIONAL FOOD BANK
Locust Grove · Stafford · Fredericksburg · Spotsylvania · King George · Warrenton · Culpeper · Orange · Madison · Page · Rappahannock · Shenandoah · Clarke · Frederick · Winchester · Harrisonburg
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APARTMENT FOR RENT

Features:
- 2 Bedrooms
- 2 Bathrooms
- Fully Equipped Kitchen
- W/D Connections
- Huge Living Room

Apartment living made simple! Call us today for a tour.

Call Now
540.220.7563
NEW POST APARTMENTS
New Post Apartments

HAVE WE MET?

THE GRIZZ
GET CONNECTED • JOIN A CLUB • ATTEND AN EVENT

CALLING ALL GRAPHIC DESIGN STUDENTS!!
THE GERMANNA ROAR NEEDS YOU!!!

We are looking for a Layout Editor to put together our Roar Issues for fall 2023 and spring 2024!

Requirements: Needs to be familiar with Adobe InDesign and illustrator.

Benefits: Involvement in a school club and it looks great on a resume!

If interested, please contact Dr. David Sam at dsam@germanna.edu

CREDIT FOR PRIOR LEARNING

Did you know that your previous college-level experiences could be applied towards your degree? Join us for our recurring Credit for Prior Learning workshops to learn about the different types of credit, as well as the process for applying the credit to your program of study.

Starting September 4, workshops occur every first Tuesday from 9 a.m.–2 p.m. and every third Wednesday from 3–6 p.m.

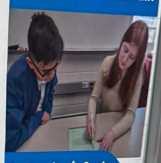
Fredericksburg Area Campus (SP1) Room 251 or virtually by scanning the QR code to attend through Zoom.

Credit for prior learning inquiries can be directed to creditforprior@germanna.edu.

Scan to Join

GERMANNA COMMUNITY COLLEGE

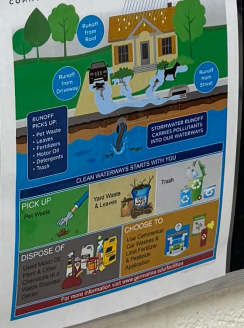
ACE your exams this fall!



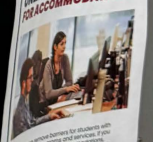
The Academic Center for Excellence can help you with exam prep & final papers!

SP1-208 / LAC-208 / SUN2-102
germanna.edu/tace

GERMANNA COMMUNITY COLLEGE



ONLINE ONBOARDING FOR ACCOMMODATIONS



Germanna serves learners for students with disabilities, medical conditions, and services. If you are interested in applying accommodations, please complete the form provided by the Office of Accessibility Services (OAS). To fill out the form, scan the QR code and click "Submit."

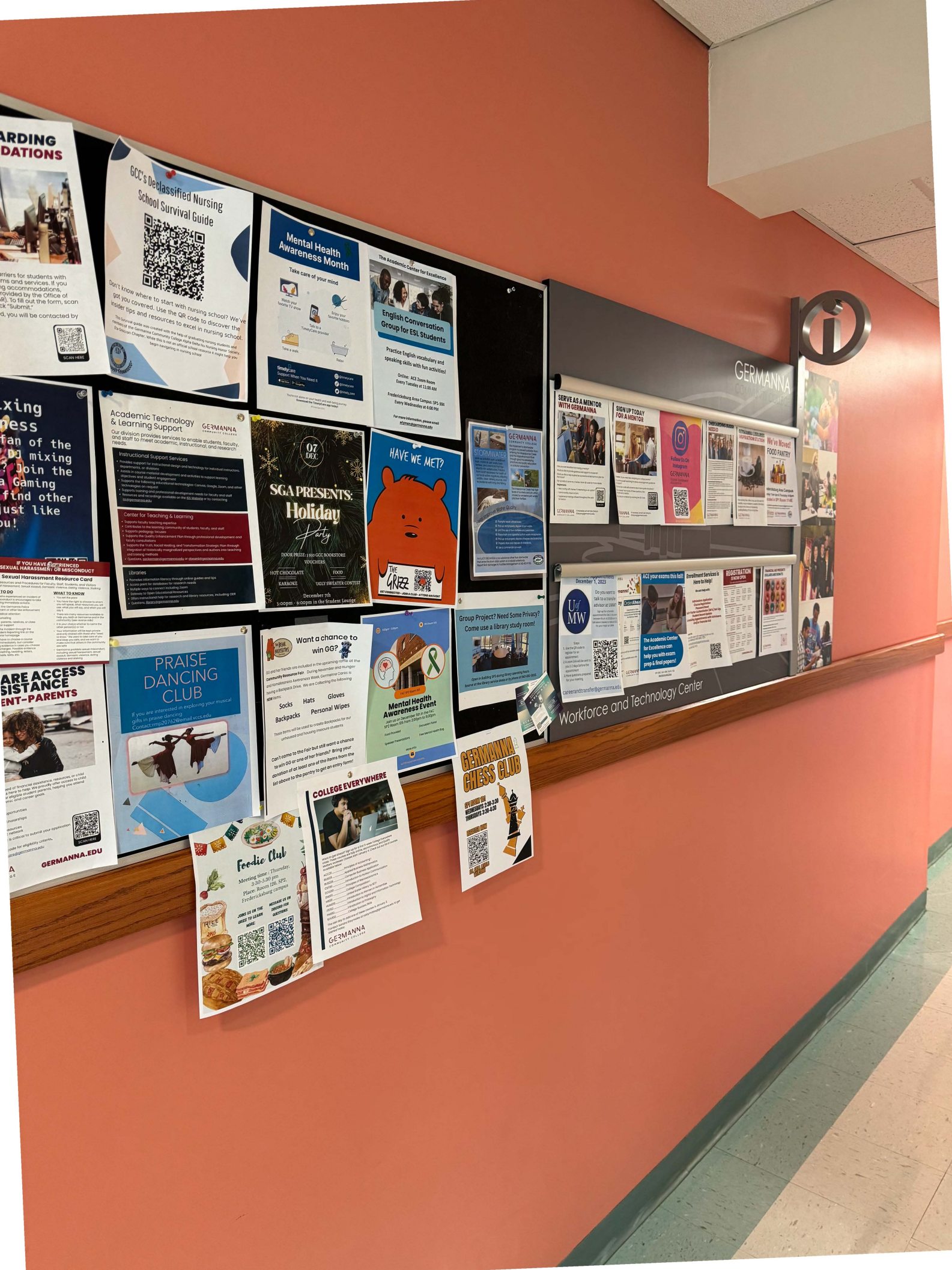
Once you submit your form, you will be contacted by OAS to schedule an intake appointment.

Scan to Submit

GERMANNA COMMUNITY COLLEGE
Office of Accessibility Services

General Waste

Praise Dance Club
Practice every week in the Yoga Studio Room 103
Email rmp20762@email.vccs.edu for any other questions
Praise God through dancing as a way to worship His name. Anyone who loves God is encouraged to join us. If you are interested in this club, please consider joining us. Practices are normally held in the yoga room at the FAC Germanna Campus in SP3 Room 103.
GERMANNA COMMUNITY COLLEGE
STORMWATER
Water Pollution Water Quality
Virtual care from anywhere.
Get on-demand support from counselors and more, right at your fingertips.
24/7 Mental Health Support.
TALKNOW
SCHEDULE COUNSELING
CRISIS & EMERGENCY
SELF-CHECK
BASIC NEEDS
timely care
IT'S FOR VCCS STUDENTS.
FOR FREE.
VOLUNTEER AND HELP
EVERYONE IS TALKING
CALLING ALL GRAPHIC DESIGN STUDENTS!!!
THE GERMANNA ROAR NEEDS YOU!!!
GERMANNA
APARTMENTS FOR RENT
SERVE AS A MENTOR WITH GERMANNA
Group Project? Need Some Privacy? Come use a library study room!
Virtual care from anywhere.
CREDIT FOR PRIOR LEARNING
YOUR FUTURE STARTS NOW.
Whether you're university-bound, career-focused, or not sure—start here and we will help you choose the right path, find the right program, and get you started.
ENROLL NOW:
Summer classes start May 22, June 6, and June 27
Fall classes start August 8 and 21, September 12, October 8 and 17, and November 14
GERMANNA COMMUNITY COLLEGE
Peer Support at your fingertips!
MHA Peer Warm Line
TextChat Support
CallTalk Support
Scan or text 804-443-1100
Summer CallTalk Support
HAVE WE MET?
THE GRIZZ
NAVIGATE
LEAVE THE MESS TO US!


GCC's Declassified Nursing School Survival Guide
Mental Health Awareness Month
Take care of your mind
The Academic Center for Excellence
English Conversation Group for ESL Students
Practice English vocabulary and speaking skills with fun activities!
Academic Technology & Learning Support
GERMANNA COMMUNITY COLLEGE
Instructional Support Services
Center for Teaching & Learning
Libraries
07 DEC
SGA PRESENTS: Holiday Party
DOOR PRIZE: $50 GCC BOOKSTORE VOUCHERS
HOT CHOCOLATE
FOOD
KARAOKE
UGLY SWEATER CONTEST
December 7th
3:00pm - 6:00pm in the Student Lounge
HAVE WE MET?
THE GRIZZ
GET CONNECTED - JOIN A CLUB - ATTEND ANYEVENT
SERVE AS A MENTOR WITH GERMANNA
SIGN UP TODAY FOR A MENTOR
Follow Us On Instagram
We've Moved!
FOOD PANTRY
Workforce and Technology Center
IF YOU HAVE EXPERIENCED SEXUAL HARASSMENT OR MISCONDUCT
Sexual Harassment Resource Card
WHAT TO KNOW
ARE ACCESS SISTANCE ENT-PARENTS
GERMANNA.EDU
PRAISE DANCING CLUB
If you are interested in exploring your musical gifts in praise dancing
Contact:rmp20762@email.vccs.edu
Want a chance to win GG?
Socks
Hats
Gloves
Backpacks
Personal Wipes
Mental Health Awareness Event
Group Project? Need Some Privacy? Come use a library study room!
GERMANNA CHESS CLUB
COLLEGE EVERYWHERE
Foodie Club
Meeting time : Thursday, 3:30-5:30 pm
Place: Room 126, SP2, Fredericksburg campus
JOINS US ON THE QUEST TO LEARN MORE
MESSAGE US ON DISCORD FOR QUESTIONS
GERMANNA COMMUNITY COLLEGE

SPECTRA SYSTEM 4
DAYCON
1.800.394.0019
www.daycon.com
407
VIBRANCE
MILD ACID RESTROOM CLEANER
401
CLEAR CHOICE
GLASS & MULTI-SURFACE CLEANER
410
405
RENEW
NEUTRAL CLEANER
SPECTRA SYSTEM 4
Instrucciones
CLEAN DRAINS,
CLEAN WATERWAYS
sweep & bag it

CONGRATULATIONS!
2023/2024 SGA
EXECUTIVE BOARD
Kayla Davis
President
Lane Foyad
Vice President
Gabriel Wilson
Secretary
Claudia Torres
Treasurer
ONLINE ONBOARDING
FOR ACCOMMODATIONS
At Germanna, we remove barriers for students with disabilities to access programs and services. If you are a new student requesting accommodations, complete the online form provided by the Office of Accessibility Resources (OAR). To fill out the form, scan the QR code below and click "Submit."
Once the form is submitted, you will be contacted by an OAR team member.
GERMANNA
OFFICE OF ACCESSIBILITY RESOURCES
SCAN ME
CHILD CARE ACCESS
AND ASSISTANCE
FOR STUDENT-PARENTS
GERMANNA
COMMUNITY COLLEGE
GERMANNA.EDU
HAVE WE MET?
THE GRIZZ
Academic Technology
& Learning Support
GERMANNA
Our division provides services to enable students, faculty and staff to meet academic, instructional and research needs.
Instructional Support Services
Center for Teaching & Learning
Libraries
GERMANNA
COMMUNITY COLLEGE
CALLING ALL
GRAPHIC DESIGN STUDENTS!
THE GERMANNA REAR
HIDEN POLITI
CALLING ALL
SOUND KIDS
WHAT ARE YOU
WAITING FOR?

SEVERE WEATHER
SHELTER
Located on 1st Floor
GERMANNA
STORMWATER
GERMANNA GAMING GROUP
Are you looking for a club to craft and mine with new and old friends? The Germanna Gaming Group is for you! With a Germanna Gaming Group server to play on 24/7, friendly and inclusive members, and many games than just Minecraft, this club is perfect for any casual or often looking for friends to take on the ender dragon with!
GERMANNA LIBRARIES
INSPIRATION STATION
GERMANNA
COMMUNITY COLLEGE
The Academic Center for Excellence
English Conversation Group for ESL Students
Practice English vocabulary and speaking skills with fun activities!
Online: A22 Zoom Room
Every Tuesday at 11:00 AM
Fredericksburg Area Campus: SP1, 104
Every Wednesday at 4:00 PM
For more information, please email
atcenter@germanna.edu
Now at Germanna!
Mobile Pantry
Academic Technology & Learning Support
Visual Arts
Poetry
The ROAR
Fiction
Photography
GCC'S Creative Arts Journal
Is looking to fill officer and editor positions.
Your Voice Matters!
SUBMIT YOUR WORK AT
24.5.org/roar
CONGRATULATIONS!
2023/2024 SGA
EXECUTIVE BOARD
Group Project? Need Some Privacy?
Come use a library study room!
GERMANNA
ACE your exams this fall!
The Academic Center for Excellence can help you with exam prep & final papers!
FINANCIAL AID PRESENTS
DOLLARS AND DONUTS
We've Moved!
FOOD PANTRY
Workforce and Technology Center

SPECTRA SYSTEM 4
DAYCON
401 CLEAR CHOICE
405 RENEW
CLEAN DRAINS, CLEAN WATERWAYS
sweep & bag it
MATERIAL SAFETY DATA SHEETS
Attention!
All water valves must be shut off when not in use.
ALL WATER VALVES MUST BE TURNED OFF WHEN NOT IN USE
TODOS LOS GRIFOS DE AGUA DEBEN MANTENERSE CERRADOS CUANDO NO SE ESTÉN USANDO
Purell

PUSH
GERMANNA
STORMWATER
Virtual care from anywhere.
24/7 Mental Health Support.
timely Care
IT'S FOR VCCS STUDENTS. FOR FREE.
GERMANNA CHESS CLUB
CHILD CARE ACCESS AND ASSISTANCE FOR STUDENT PARENTS
We've moved!
FOOD PANTRY
Fredericksburg Area Campus
Located in SFI Room 114E
GERMANNA LIBRARIES
INSPIRATION STATION
PHYSICS LAB
PUSH

219
CHEMISTRY
LAB
SH
GERMANNA
Chemistry
Laboratory
219
CHILD CARE ACCESS
AND ASSISTANCE
FOR STUDENT-PARENTS
GERMANNA.EDU
ONLINE ONBOARDING
FOR ACCOMMODATIONS

Hand Sanitizer
FREE
TAKE WHAT YOU NEED
SPONSORED BY
GERMANNA CARES
AND
STUDENT ACTIVITIES
CAREER CLOTHING DRIVE
We've Moved!
FOOD PANTRY
Fredericksburg Area Campus
Monday 11am-1pm & Thursday 4-6pm
Located in SP1 Room 114E
Single Stop
GERMANNA
GERMANNA CARES
Mental Health Awareness Event
Academic Technology & Learning Support
Instructional Support Services
Center for Teaching & Learning
Libraries
Group Project? Need Some Privacy?
Come use a library study room!
CALLING ALL
GRAPHIC DESIGN STUDENTS!!
THE GERMANNA ROAR
NEEDS YOU!!!
07 DEC
SGA PRESENTS:
Holiday Party
Virtual care from anywhere.
Get on-demand support from counselors and more, right at your fingertips.
24/7 Mental Health Support.
TALKNOW
SCHEDULED COUNSELING
HEALTH COACHING
PSYCHIATRY
BASIC NEEDS
timely care
Telehealth for Students
IT'S FOR VCCS STUDENTS.
FOR FREE.
SCAN ME
Visit timelycare.com/vccs to learn more.
Room SP3 303
HOLIDAY GIFT DRIVE
ACCESO AL CUIDADO INFANTIL Y ASISTENCIA
PARA PADRES-ESTUDIANTES
GERMANNA CHESS CLUB
SP1 ROOM 101
WEDNESDAYS 2:30-3:30
THURSDAYS 3:30-4:30
REGISTER ONLY
Foodie Club
Meeting time: Thursday, 3:30-5:30 pm
Place: Room 126, SP2, Fredericksburg campus
2024-2025 Virginia Space Grant Consortium
Community College
STEM Scholarships
Scholarships
Eligibility
Deadline
How to apply
March 8, 2024

CLEAN DRAINS,
CLEAN WATERWAYS
sweep & bag it
Preventing stormwater pollution is everyone's job at Germanna Community College. The water we use to clean kitchens, garbage cans, and dumpsters carry trash, debris, and harmful chemicals, like pesticides and harsh cleaning fluids, into storm drains. This toxic mess ends up choking our waterways and is a threat to humans and animal life. Bag garbage and trash. And never pour grease down the kitchen drain. It clogs pipes and ends up polluting our waters and streams. Save grease in containers and bag it. When cleaning kitchens and eating areas, use a vacuum and trash bag — not a hose or sprayer — to collect debris. Learn more about ways to help keep pollutants out of our waterways by visiting www.germanna.edu/facilities/environmental-sustainability/
GERMANNA
COMMUNITY COLLEGE
pacer 12 UE

Appendix B: Documentation of Public Involvement Activities

Public Involvement Activity #1

Garland Fenwick

From: Tamara A. Muldrow
Sent: Wednesday, November 15, 2023 8:59 AM
To: Garland Fenwick
Subject: RE: Speaking to Class

Hey Garland,

Here you are!

Jad Abielmona
Josh Baggett
Jamie Cruz
Sam Enriquez
Cierra Foss
Caitlyn Harris
Ryan Hastings
Hayden Jaramillo
Trinity LaBelle
Joey Lane
Grace Laughlin
Jasmine Olvera-Garcia
Claire Quinn
Makayla Ruth
Sam Porter

Tamara Muldrow
Assistant Professor of Biology
Germanna Community College
tmuldrow@germanna.edu
540 891 3021

From: Garland Fenwick <GFenwick@germanna.edu>
Sent: Wednesday, November 15, 2023 8:55 AM
To: Tamara A. Muldrow <TMuldrow@germanna.edu>
Subject: RE: Speaking to Class

Tamara,

I will need the names. DEQ frowns upon us not giving them specific details.
I was happy to do it. Let me know about the spring when you get it worked out.

Thanks
Garland

From: Tamara A. Muldrow <TMuldrow@germanna.edu>
Sent: Wednesday, November 15, 2023 8:21 AM
To: Garland Fenwick <GFenwick@germanna.edu>
Subject: RE: Speaking to Class

From: Garland Fenwick <GFenwick@germanna.edu>
Sent: Tuesday, October 31, 2023 7:19 AM
To: Tamara A. Muldrow <TMuldrow@germanna.edu>
Subject: RE: Speaking to Class

Tamara

I can do the 13th. Actually, that helps me. The time is still 12:30?

Thanks
Garland

From: Tamara A. Muldrow <TMuldrow@germanna.edu>
Sent: Tuesday, October 31, 2023 7:13 AM
To: Garland Fenwick <GFenwick@germanna.edu>
Subject: RE: Speaking to Class

Good morning Garland,

I am so sorry to do this the week before, but I've had some scheduling issues with my afternoon class (a syllabus error, a conference, etc.) But that all results in them now having a test on Nov. 8th, when we had originally scheduled you to come to class. And I avoid scheduling anything other than tests on those days—especially if I expect any kind of interaction or feedback from students.

I do apologize for the short notice—I have time on Nov. 6th or 13th, but it is really short notice so I don't expect you to have time open.

Sorry!
Tamara

Tamara Muldrow
Assistant Professor of Biology
Germanna Community College
tmuldrow@germanna.edu
540 891 3021

From: Garland Fenwick <GFenwick@germanna.edu>
Sent: Tuesday, September 12, 2023 11:45 AM
To: Tamara A. Muldrow <TMuldrow@germanna.edu>
Subject: RE: Speaking to Class

Thanks
Garland

From: Tamara A. Muldrow <TMuldrow@germanna.edu>
Sent: Tuesday, September 12, 2023 11:13 AM
To: Garland Fenwick <GFenwick@germanna.edu>
Subject: RE: Speaking to Class

Hi Garland,

Thanks for asking.
Garland

From: Tamara A. Muldrow <TMuldrow@germanna.edu>
Sent: Sunday, September 10, 2023 5:15 PM
To: Garland Fenwick <GFenwick@germanna.edu>
Subject: Speaking to Class

Hi Garland,

When I saw you last week it reminded me that I've fallen out of the schedule of getting you to come talk to my class. And I'm back to teaching Bio 102 in person, where your MS4 talk fits much better with the topics. We actually talk about ecology and the environment in that class.

Given fall is underway and your schedule is swamped, can I at least get on your calendar for the spring semester? My Bio 102 class will meet Mondays and Wednesdays, Jan 17th – May 1st, from 12:30-3:20. The only day that isn't open is April 3rd—that's my ecology field trip, and that's already scheduled. But any other Monday or Wednesday that we have class would work.

Thanks,
Tamara

Tamara Muldrow
Assistant Professor of Biology
Germanna Community College
tmuldrow@germanna.edu
540 891 3021

STORMWATER MANAGEMENT

November 13, 2023

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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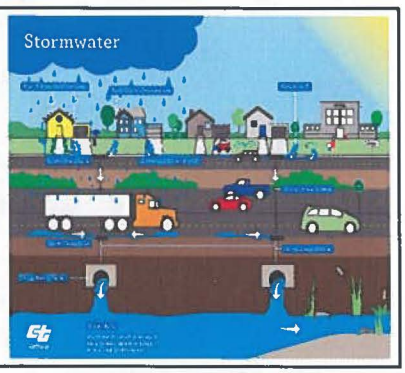
2

STORMWATER RUNOFF



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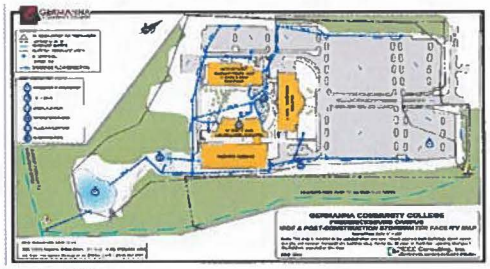
3

STORMWATER MAP



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4

STORMWATER POND

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5

OUTFALL LOCATION

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6

REGULATORY STRUCTURE

Clean Water Act (CWA) authorization to regulate "point source" discharges

Compliance & Enforcement

Construction General Permit
- Regulated Land Disturbance
- ESC(Erosion Sediment Control)
- SWM(Stormwater Management)

MS4 General Permit
- Localities & State Entities within Census Urbanized Areas

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7

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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8

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)

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9

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.

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10

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).

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11

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.

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12

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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13

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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14

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

GERMANNA COMMUNITY COLLEGE

15

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/footing drains
- Fire fighting activities
- Residential car washing

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17

WHAT IS OR IS NOT ILLICIT DISCHARGE???

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18

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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20

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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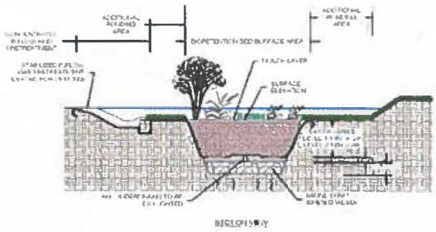
22

BMP STANDARDS & SPECIFICATIONS



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23

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24

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25

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26

GOOD HOUSEKEEPING/POLLUTION PREVENTION

- Maintenance & operations procedure BMP
  - Vehicle washing, vehicle maintenance, dumpster operations/locations, 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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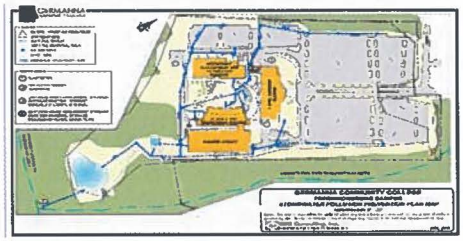
27

STORMWATER POLLUTION PREVENTION PLAN MAP



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28

GOOD HOUSEKEEPING/POLLUTION PREVENTION

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29

GOOD HOUSEKEEPING/POLLUTION PREVENTION

GERMANNA COMMUNITY COLLEGE

30

GOOD HOUSEKEEPING/POLLUTION PREVENTION

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31

QUESTIONS

Thank You!
Garland

GERMANNA COMMUNITY COLLEGE

32

Public Involvement Activity #2

Garland Fenwick

From: Garland Fenwick
Sent: Wednesday, April 3, 2024 4:03 PM
To: Garland Fenwick
Subject: RE: Students attending presentation

Garland: Thank you for the most informative presentation on March 25 at 9:30. I and my students appreciate your sharing th

ELMLINGER,SEAN NELSON
FRASER,MEGAN LEIGH
GNAU,DEVIN CHARLES
GOBIE,ABIGAIL
GRUBB,HELEN RUTH
HANNA,ALEXIS LEIGH-ANNE
JALLOW,ABDUL
KAKAR,AMINA AMINA
KRAMER,MADISON ELIZABETH
LIESKE,SOPHIA ROSE
MITCHELL,SARA JOY
MURAKAMI,JOANNA MONICA
OLVERA-GARCIA,MIRIAM JASMINE
ORNELAS,JAZMIN
PROMEDI,KEREN
RAZA,MIRZA ZAIN
SALZANO,PETER MICHAEL
SEAWELL,RYAN CARTER
STOKES,HUNTER ELLIS
THARP,KATHARINE ELIZABETH
TOOKS,LEO

STORMWATER MANAGEMENT

March 25, 2024

1

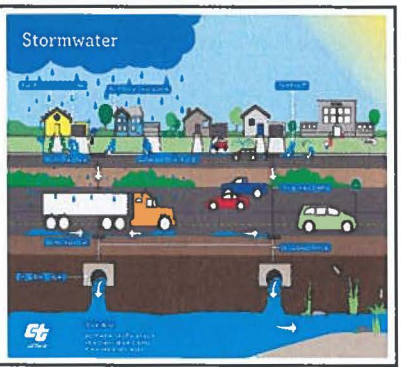
AGENDA

- 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

GERMANNA COMMUNITY COLLEGE

2

STORMWATER RUNOFF



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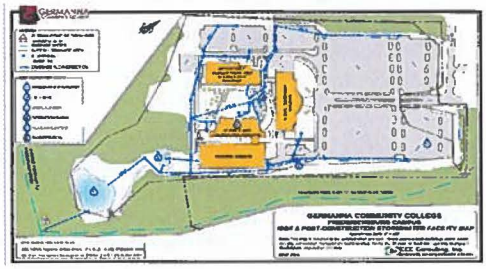
3

STORMWATER MAP



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4

STORMWATER POND

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5

OUTFALL LOCATION

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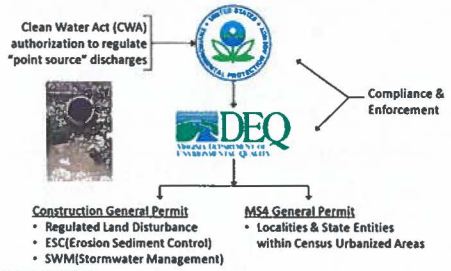
6

REGULATORY STRUCTURE



GERMANNA COMMUNITY COLLEGE

7

MS4 GENERAL PERMIT

Special Conditions

1. Chesapeake Bay TMDL(Total Maximum Daily Load)

Minimum Control Measures

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2. Public Involvement/Participation
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GERMANNA COMMUNITY COLLEGE

8

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GERMANNA COMMUNITY COLLEGE

9

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10

TOTAL MAXIMUM DAILY LOAD (TMDL)

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GERMANNA COMMUNITY COLLEGE

11

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12

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13

PUBLIC INVOLVEMENT/EDUCATION

- Involvement
  - Implement 4 activities per year i.e. educational events, pollution prevention, stream restoration
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  - Communicate two or more strategies i.e. speaking engagements, media materials
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GERMANNA COMMUNITY COLLEGE

14

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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15

IDDE CONTINUED

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16

WHAT IS AN ILLICIT DISCHARGE

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17

WHAT IS NOT AN ILLICIT DISCHARGE

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GERMANNA COMMUNITY COLLEGE

18

WHAT IS OR IS NOT ILLICIT DISCHARGE???

GERMANNA COMMUNITY COLLEGE

19

ILLICIT DISCHARGE CLEAN-UP

GERMANNA COMMUNITY COLLEGE

20

CONSTRUCTION SITE RUNOFF CONTROLS

- VCCS Standards & Specifications for ESC
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21

CONSTRUCTION SITE RUNOFF CONTROLS

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22

POST CONSTRUCTION CONTROLS

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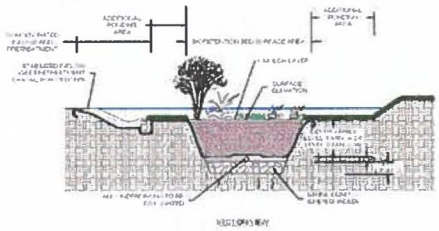
23

BMP STANDARDS & SPECIFICATIONS



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24

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26

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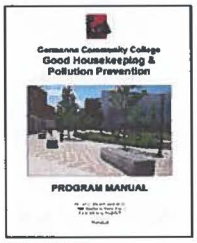
27

GOOD HOUSEKEEPING/POLLUTION PREVENTION



- Maintenance & operations procedure BMP
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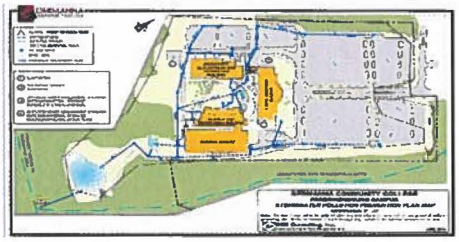
COMMUNITY COLLEGE

28

STORMWATER POLLUTION PREVENTION PLAN MAP



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29

GOOD HOUSEKEEPING/POLLUTION PREVENTION

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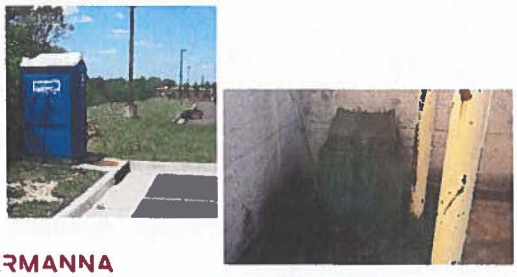
30

GOOD HOUSEKEEPING/POLLUTION PREVENTION



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31

GOOD HOUSEKEEPING/POLLUTION PREVENTION

GERMANNA COMMUNITY COLLEGE

32

QUESTIONS

Thank You!
Garland

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COMMUNITY COLLEGE

33

Public Involvement Activity #3

Garland Fenwick

From: Garland Fenwick
Sent: Wednesday, April 3, 2024 4:12 PM
To: Garland Fenwick
Subject: RE: Students attending presentation

Garland: Thank you for the most informative presentation on March 25 at 2:00. I and my students appreciate your sharing th

ARGUETA,ERICA ALEXIS
BERRIOS,RAMIRO JOSE
BROWN,DAUNTE CAMERON COLLIN
CRANE III,WILL
DOUCET,JENNIFER
DUNNINGTON,WILLIAM LEVI
DUTKOVIC,JACOB TERENCE

FOSTER,OLIVIA ADELL

GREEN LL,DAVID LAMONT
JAMES,MERVA
JAUNAL,JACK W
JONES,JAYSON CHRISTOPHER
LEINO,JAMES WILLIAM
MANUS,NORAH ELIZABETH
MCCLUNG,GEORGIA DARLENE EULA
SHRIVER,PALMER KENNETH
SOUMARE,MAIMOUNA
TREGER,CHAD RUSSELL
TUCKER,ALYSSA RAYNN
WENZEL,ZOIE DANIELLE
WOODS,MIKAYLA LENORA

STORMWATER MANAGEMENT

April 10, 2024

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)
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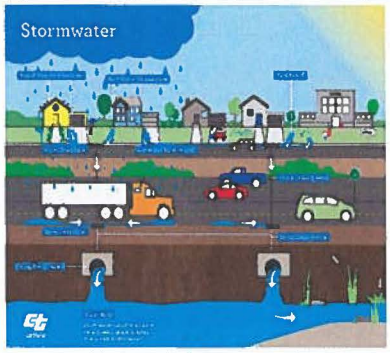
GERMANNA COMMUNITY COLLEGE

2

STORMWATER RUNOFF



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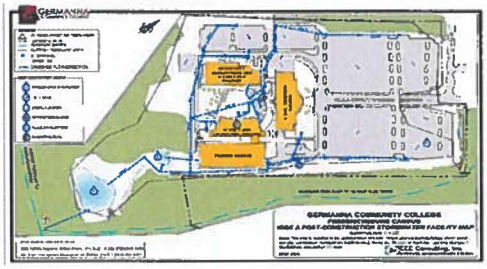
3

STORMWATER MAP



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4

STORMWATER POND

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5

OUTFALL LOCATION

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6

REGULATORY STRUCTURE

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7

MS4 GENERAL PERMIT

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GERMANNA COMMUNITY COLLEGE

8

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9

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10

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12

LOCAL IMPAIRED WATERWAYS CONTINUED

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13

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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14

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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15

IDDE CONTINUED

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  - 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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16

WHAT IS AN ILLICIT DISCHARGE

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17

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/footing drains
- Fire fighting activities
- Residential car washing

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18

WHAT IS OR IS NOT ILLICIT DISCHARGE???

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19

ILLICIT DISCHARGE CLEAN-UP

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20

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
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  - Obtain Construction General Permit (GP), when required
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  - Develop and implement Stormwater Pollution Prevention Plan (SWPPP)

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21

CONSTRUCTION SITE RUNOFF CONTROLS

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22

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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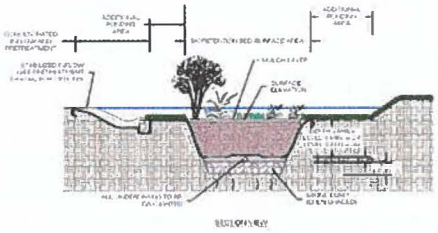
23

BMP STANDARDS & SPECIFICATIONS



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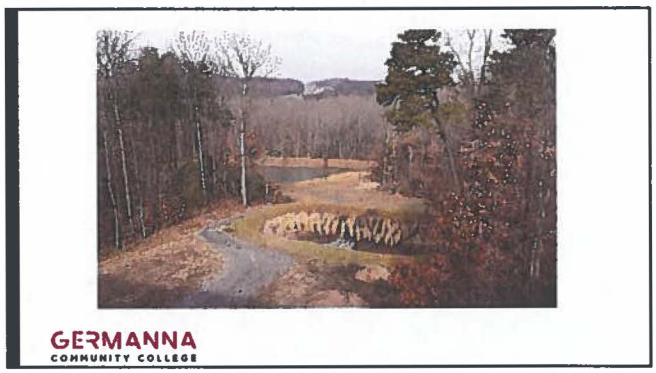

26

27

GOOD HOUSEKEEPING/POLLUTION PREVENTION

- Maintenance & operations procedure BMP
  - Vehicle washing, vehicle maintenance, dumpster operations/locations, 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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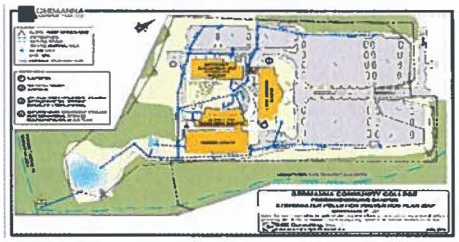
28

STORMWATER POLLUTION PREVENTION PLAN MAP



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29

GOOD HOUSEKEEPING/POLLUTION PREVENTION

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30

GOOD HOUSEKEEPING/POLLUTION PREVENTION

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31

GOOD HOUSEKEEPING/POLLUTION PREVENTION

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32

QUESTIONS

Thank You!
Garland

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33

Public Involvement Activity #4

SIGN-IN SHEET

STEM

School Name:	Germanna Community College	**Date:**	4/6/2024
Topic:	Municipal Separate Storm Sewer System (MS4)	**Location:**	Fredericksburg Campus

Name	Role	Time	Flyer ☑	No.
Tina Lance				1
[illegible]	Courtyard Floater			2
[illegible]				3
[illegible]	HR - Admin			4
[illegible]				5
Vincent Vernon	Police Department			6
Rosy Portillo	Police Department			7
Kati Lloyd	Police Dept.			8
Devin Gnau	Police Dept.			9
				10
				11
				12
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				14
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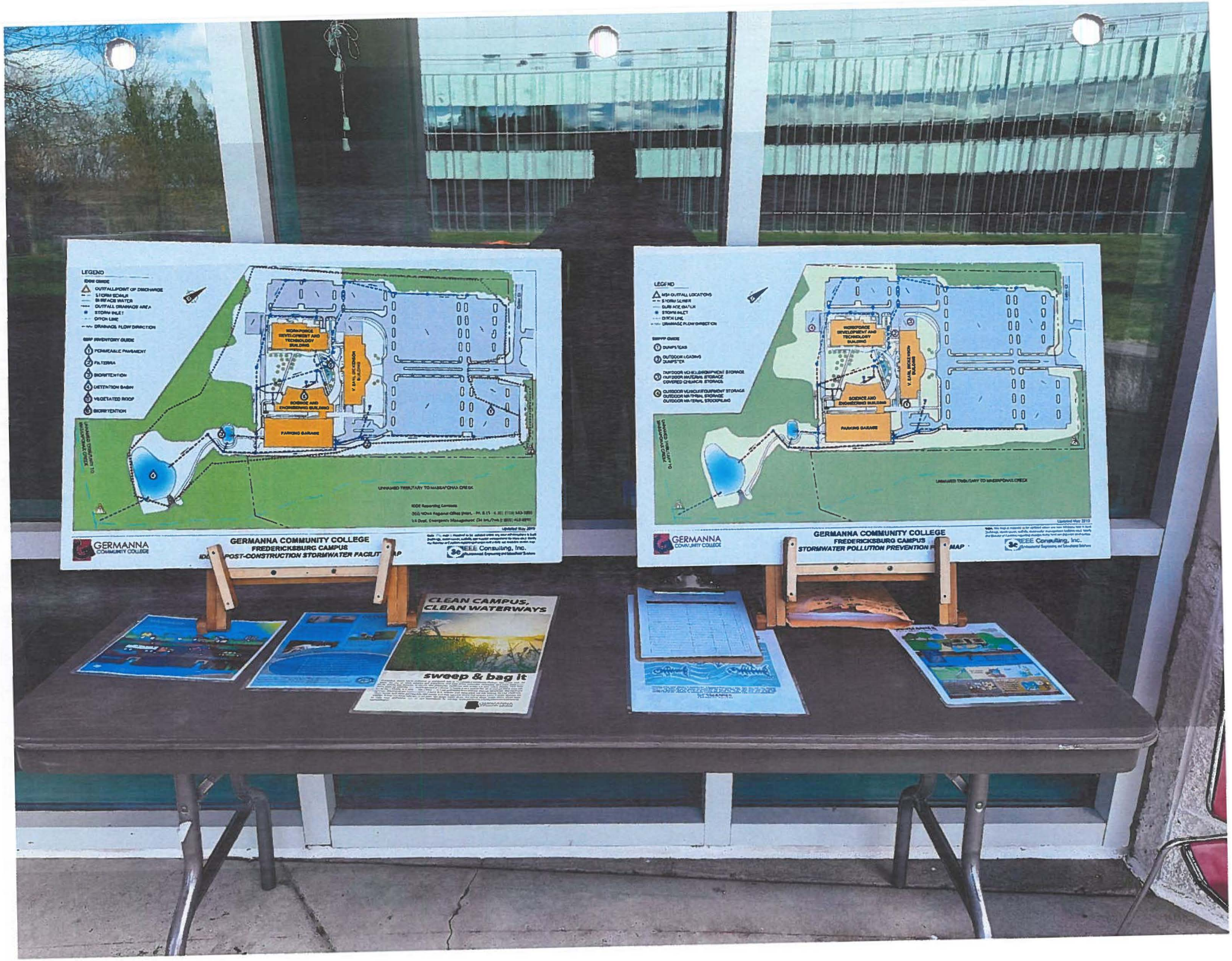
				18
				19
				20


LEGEND
IDDE GUIDE
OUTFALL/POINT OF DISCHARGE
STORM SEWER
SURFACE WATER
OUTFALL DRAINAGE AREA
STORM INLET
DITCH LINE
DRAINAGE FLOW DIRECTION
BMP INVENTORY GUIDE
PERMEABLE PAVEMENT
FILTERRA
BIORETENTION
DETENTION BASIN
VEGETATED ROOF
BIORETENTION
WORKFORCE DEVELOPMENT AND TECHNOLOGY BUILDING
V. EARL DICKINSON BUILDING
SCIENCE AND ENGINEERING BUILDING
PARKING GARAGE
UNNAMED TRIBUTARY TO MASSAPONAX CREEK
GERMANNA COMMUNITY COLLEGE
GERMANNA COMMUNITY COLLEGE
FREDERICKSBURG CAMPUS
IDDE/POST-CONSTRUCTION STORMWATER FACILITY MAP
IEEE Consulting, Inc.
LEGEND
MS4 OUTFALL LOCATIONS
STORM SEWER
SURFACE DATUM
STORM INLET
DITCH LINE
DRAINAGE FLOW DIRECTION
SWPPP GUIDE
DUMPSTERS
OUTDOOR LOADING DUMPSTER
OUTDOOR VEHICLE/EQUIPMENT STORAGE
OUTDOOR MATERIAL STORAGE
COVERED CHEMICAL STORAGE
OUTDOOR VEHICLE/EQUIPMENT STORAGE
OUTDOOR MATERIAL STORAGE
OUTDOOR MATERIAL STOCKPILING
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GERMANNA COMMUNITY COLLEGE
GERMANNA COMMUNITY COLLEGE
FREDERICKSBURG CAMPUS
STORMWATER POLLUTION PREVENTION PLAN MAP
IEEE Consulting, Inc.
CLEAN CAMPUS, CLEAN WATERWAYS
sweep & bag it

Public Involvement Activity #5

Garland Fenwick

From: Tamara A. Muldrow
Sent: Wednesday, April 10, 2024 3:11 PM
To: Garland Fenwick
Subject: Presentation roster from 4/10/24

Hi Garland!

Here are the names for you to track the participants from today's presentation:
Bishop Benson
Gabe Davis
Justin Drew
Ammy Jumbo
Sonya Hichborn
Peyton Johnson
Hannah Lowery
Haisix Mason
Savannah Nistle
Taylor Osborn
Makenna Perdue
Aidan Plato
Shelby Hawley
Dominic Villanueva
Lilly Wadas

And me—Tamara Muldrow (if I count)

Tamara Muldrow
Assistant Professor of Biology
Germanna Community College
tmuldrow@germanna.edu
540 891 3021

STORMWATER MANAGEMENT

March 25, 2024

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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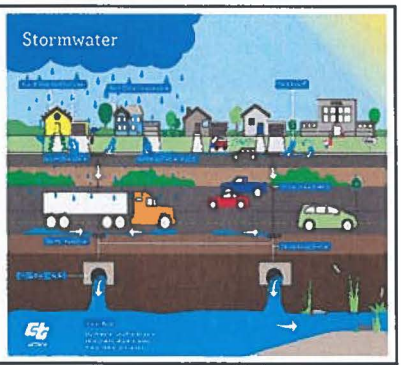
2

STORMWATER RUNOFF



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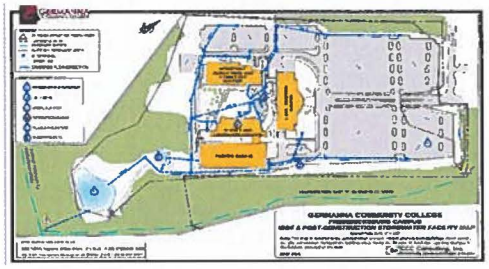
3

STORMWATER MAP



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STORMWATER POND

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5

OUTFALL LOCATION

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6

REGULATORY STRUCTURE

Clean Water Act (CWA) authorization to regulate "point source" discharges

Compliance & Enforcement

Construction General Permit
- Regulated Land Disturbance
- ESC(Erosion Sediment Control)
- SWM(Stormwater Management)

MS4 General Permit
- Localities & State Entities within Census Urbanized Areas

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7

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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8

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.
- GCC used Lane Miles street sweeping as a Best Management Practice and Land Use Change to achieve the required reductions in year one(2023) of the permit cycle.

Requires 60% load reduction (100% Overall) per year for the 5 year permit cycle(2023-2028) (Phosphorus, Nitrogen, Sediment)

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9

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10

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.

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11

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).

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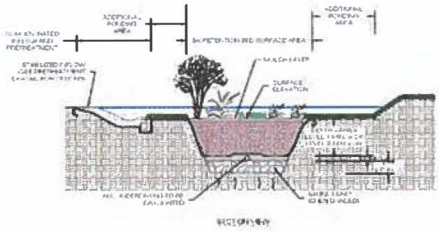

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COMMUNITY COLLEGE

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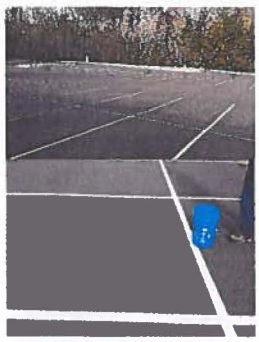

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27

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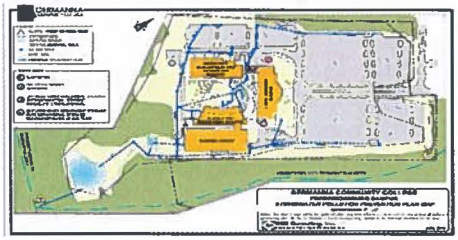
28

STORMWATER POLLUTION PREVENTION PLAN MAP



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29

GOOD HOUSEKEEPING/POLLUTION PREVENTION

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30

GOOD HOUSEKEEPING/POLLUTION PREVENTION

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31

GOOD HOUSEKEEPING/POLLUTION PREVENTION

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32

QUESTIONS

Thank You!
Garland

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33

Public Involvement Activity #6

SIGN-IN SHEET

FRIENDS OF THE RAPPAHANNOCK - TREE PLANTING

School Name:	Germanna Community College	**Date:** 4/16/2024	
Topic:	Municipal Separate Storm Sewer System (MS4)	**Location:**	Fredericksburg Campus

Name	Role	Time	Flyer ☑	No.
Jean Ahmad				1
Neesha Sims				2
Taylor Osborn				3
Tamara Muldrow				4
Alyssa Lewis				5
Gabriel Davis				6
Sonya Hichborn				7
Jackson Long				8
Olivia Day				9
Lauren Mostowy				10
Bishop Benson				11
Lydia Fraser				12
Abril Godinez				13
Sincere Conley				14
CJ Hall				15
Miranda Smith				16
Catherin Cancamo				17
Paris Lewis				18
Kayley Radford				19
Chloe Parton				20

FRIENDS OF THE RAPPAHANNOCK – TREE PLANTING

SIGN-IN SHEET

School Name:	Germanna Community College	**Date:**	4/16/2024
Topic:	Municipal Separate Storm Sewer System (MS4)	**Location:**	Fredericksburg Campus

Name	Role	Time	Flyer ☑	No.
Sara Foster				1
Jonathan Garcia				2
Haisix Mason				3
Lilly Wadas				4
Sarah Dishman				5
Hailey Hoyse				6
Aurora Pagán				7
Kristi Bennett				8
Lucas Hufner				9
Teighan MacDougall				10
				11
				12
				13
				14
				15
				16
				17
				18
				19
				20

OPEN TO ALL
COWBOY

GREENTOGAI!