VPDES MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) PERMIT VAR040039

ANNUAL REPORT PERIOD JULY 1, 2021 TO JUNE 30, 2022

THE COLLEGE OF WILLIAM & MARY



September 30, 2022 Revised March 29, 2023

TRC Project No. 2200306

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1.0 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 assure 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

Responsible Official Signature

Mr. Samuel Hayes III, P.E. Chief Facilities Officer

VAR040039

violations.

College of William and Mary

Permit Number

MS4 Name

2.0 INTRODUCTION

The College of William and Mary (university) was originally issued an MS4 permit in 2003 by the Commonwealth of Virginia. This permit sets forth minimum requirements for the operation of the university's storm sewer system, including storm water treatment systems (BMPs), and is reissued every five years. Oversight of the permit has changed from DCR to DEQ. The permit requires an annual report to be submitted to Virginia DEQ by October 1, 2022 describing progress on meeting permit requirements during the period July 1, 2021 to June 30, 2022.

3.0 ANNUAL REPORTING REQUIREMENTS - COMPLIANCE SUMMARY

In Part I section D of the MS4 permit, the permit lists specific items to be addressed in the Annual Report.

The following are the items listed in the permit in italic typeface followed by responses in bold typeface:

Part I Section D2

2. The annual report shall include the following general information:

a) The permittee, system name, and permit number;

Response: Permittee & System name: College of William and Mary

Permit number: VAR040039

b) The reporting period for which the annual report is being submitted;

Response: July 1, 2021 to June 30, 2022

c) A signed certification as per Part III K;

Response: See Section 1 for signed certification.

d) Each annual reporting item as specified in an MCM in Part I E; and

Response: See Section 4 for specified annual reporting items for each MCM.

e) An evaluation of the MS4 program implementation, including a review of each MCM, to determine

the MS4 program's effectiveness and whether or not changes to the MS4 program plan are necessary.

Response: The current MS4 program implementation has been effective in providing

compliance with the permit requirements. No changes to the MS4 program plan are

required, however the university continues to improve internal procedures. See evaluation

of each MCM at the end of each MCM section.

4.0 MINIMUM CONTROL MEASURES REPORTING

4.1 Public education and outreach

In Part I section E-1-g of the MS4 permit, the permit lists specific items to be addressed in the Annual Report. The following are the items listed in the permit in italic typeface followed by responses in bold typeface:

Part I section E-1-g

- g. The annual report shall include the following information:
 - 1. A list of the high-priority stormwater issues the permittee addressed in the public education and outreach program; and

Response: The high priority water quality issues identified by the university are: Nutrient Management, Erosion Control, and Plastics Diversion.

2. A list of the strategies used to communicate each high-priority stormwater issue.

Response: The permit requires two or more of the following strategies per year to communicate to the public the high-priority stormwater issues identified above: traditional written materials, alternative materials, signage, media materials, speaking engagements, curriculum materials, and training materials. Below is a summary of activities with required information:

High-Priority Water Quality Issue	Education and Outreach Activities	Target Audience	Percentage of Target Audience Reached	Documentation
Nutrients Management (includes water chemistry)	Staff Training	Grounds supervisors and Turf Mgmt. Staff -15 personnel	100% of staff trained	Training records available upon request
Erosion Control	ESC Briefings prior to start of Construction	Contractors	100% of Contractor representatives for construction projects over 2,500 sf disturbance	Approved Erosion & Sediment Control Plans available upon request. ESC inspection reports available upon request.
Plastics Diversion	Seminars	Students – 8,500 Faculty & staff – 3,900	100% of students, faculty and staff	Campus-wide recycling containers and events (1)

^{(1) &}lt;a href="https://www.wm.edu/sites/sustainability/initiatives/recycling/index.php">https://www.wm.edu/sites/sustainability/initiatives/recycling/index.php

4.2 Public involvement and participation

In Part I section E-2-f of the MS4 permit, the permit lists specific items to be addressed in the Annual Report. The following are the items listed in the permit in italic typeface followed by responses in bold typeface:

Part I section E-2-f

f. The annual report shall include the following information:

1. A summary of any public input on the MS4 program received (including stormwater complaints) and how the permittee responded;

Response: No public input was received during the reporting cycle.

2. A webpage address to the permittee's MS4 program and stormwater website;

Response: This Annual Report, including the current MS4 Program Plan will be posted to the following link within 30 days of submittal of this Annual Report to DEQ:

https://www.wm.edu/offices/facilities/departments-directors/OpMaint/stormwater/index.php

3. A description of the public involvement activities implemented by the permittee;

Response: The permit requires the College to implement no less than four activities per year from two or more of the following categories: monitoring, restoration, educational events, disposal or collection events, and pollution prevention. The university implemented the <u>Educational following local activities</u>:

Monitoring

 Keck Environmental Lab provided quarterly sampling of water quality from 24 streams, ponds, and tidal creeks in the College Creek watershed, including College Creek, Tinkling Rill, and Lake Matoaka

- Earth Week Activities , April 18 22, 2022
- Spring 2022 students conducted field lab exercises in the three stormwater ponds as part of Watershed Dynamics Course

Disposal or Collection Events

- Campus Race to Zero Waste Annual Tournament, March 2022, includes electronics recycling.
- Hazardous Waste Pickup, for waste generated by College facilities, ongoing program, picks up daily.
- Recycling Program, manages collection from recycling and compost containers throughout campus, includes paper, cardboard, plastics #1-7, aluminum, steel, glass, milk & juice cartons. Dedicated locations are established for small electronics, ink cartridges, plastic bags, batteries, and light bulbs.
- 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; and

Response: The metric for all of the activities is the number of participants compared to the total numbers of students, staff, and faculty. It is estimated that these activities have reached more than 90% of the College community. While the activities cannot be linked to a measurable improvement in water quality on campus, the College community is more aware of stormwater issues than in the past.

5. The name of other MS4 permittees with whom the permittee collaborated in the public involvement opportunities.

Response: No other MS4 permittees were involved in the listed public involvement opportunities.

4.3 Illicit discharge detection and elimination

In Part I section E-3-e of the MS4 permit, the permit lists specific items to be addressed in the Annual Report. The following are the items listed in the permit in italic typeface followed by responses in bold typeface:

Part I section E-3-e

- e. The annual report shall include:
 - 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;

Response: There have been no work or changes to the campus in the reporting year that effected the MS4 Map.

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

Response: During the reporting period, the university screened all of its 55 outfalls. There were no signs of illicit discharges and no follow-up actions were required.

- 3. A list of illicit discharges to the MS4 including spills reaching the MS4 with information as follows:
 - a. The source of illicit discharge;
 - b. The dates that the discharge was observed, reported, or both;
 - c. Whether the discharge was discovered by the permittee during dry weather screening, reported by the public, or other method (describe);
 - d. How the investigation was resolved;
 - e. A description of any follow-up activities; and
 - f. The date the investigation was closed.

Response: During the reporting period, there were two illicit discharge events where prohibited discharges reached the storm sewer system:

<u>Yates Path Sewage Spill – DEQ Pollution Report Number 30093</u>

At about 1230 hours on Sunday, September 19, 2021, a student discovered a sewage release from a manhole along the pedestrian pathway behind the Yates Hall at 600 Ukrop Way and reported this to work control. Sewage was overflowing out of a manhole and flowing down the ravine into the creek. Miller's Services arrived on the scene around 1600. They pumped out the manhole to stop the flow of sewage into the ravine and jetted the line in order to clear the blockage. They were able to resume flow but not at a full flowrate. The blockage in the line was caused by roots that grew into the terracotta pipe that dates from the early 1960s. Solids were caught on the roots and Miller's Services was able to dislodge the solids but had to return Monday 9/20 to jet out the roots with other equipment. The investigation was closed September 20, 2021.

McGlothlin Street - DEQ Pollution Report Number 305360

At about 700 hours on June 22, 2022 a facilities management employee discovered and reported hydraulic oil from an elevator pit sump on the west side of McGlothlin-Street Hall at 737 Landrum Drive, Williamsburg, VA. Oil dry was placed in the path of oil and the sump pump was disconnected and a contractor has been engaged to address any pumping needs without using the sump pump. Standing water in the manholes and adjacent to the outfall were pumped by Miller's services. Oil dry was removed and disposed of as oil contaminated waste. Facilities Management is addressing the current design of the sum pump, as well as identifying any other similar configurations on campus. The investigation was closed June 22, 2022.

4.4 Construction site stormwater runoff control

In Part I section E-4-e of the MS4 permit, the permit lists specific items to be addressed in the Annual Report. The following are the items listed in the permit in italic typeface followed by responses in bold typeface:

Part I section E-4-e

- d. The annual report shall include the following:
 - 1. If the permittee implements a construction site stormwater runoff program in accordance with Part I E 4 a (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 standards and specifications for erosion and sediment control; and

Response: All projects were conducted in accordance with the current Annual Standards and Specifications.

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

Response: Not applicable, see above.

2. Total number of inspections conducted; and

Response: During construction, inspections were conducted by the university's ESC Inspector after every significant rain event and at least every two weeks. 36 ESC inspections were conducted during the reporting period.

3. The total number and type of enforcement actions implemented and the type of enforcement actions.

Response: As the university is the contract holder for all of the land disturbance activities

on campus and the ESC inspector represents the university, any deficiencies in ESC measures

or practices are resolved immediately. There were no enforcement actions taken during the

reporting period.

MCM Evaluation: The MCM has been effective in providing compliance with the regulatory

requirements. The Annual Standards and Specifications are currently being revised to provide

additional clarity concerning procedures within the university for obtaining VSMP permits in a

timely manner.

4.5 Post-construction stormwater management for new development and

development on prior developed lands

In Part I section E-5-i of the MS4 permit, the permit lists specific items to be addressed in the Annual

Report. The following are the items listed in the permit in italic typeface followed by responses in bold

typeface:

Part I section E-5-i

i. The annual report shall include the following information:

1. If the permittee implements a Virginia Stormwater Management Program in accordance with Part I

E 5 a (1) and (2):

a. The number of privately owned stormwater management facility inspections conducted; and

Response: N/A, all stormwater management facilities are owned by the university.

b. The number of enforcement actions initiated by the permittee to ensure long-term

maintenance of privately owned stormwater management facilities including the type of

enforcement action;

Response: N/A, all stormwater management facilities are owned by the university.

2. Total number of inspections conducted on stormwater management facilities owned or operated by the permittee;

Response: All stormwater management facilities owned and operated by the university were inspected during the reporting period. 37 BMP inspections were conducted during the reporting period.

3. A description of the 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;

Response: No significant maintenance, repair, or retrofit activities were performed during the reporting period.

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 from Construction Activities; and

Response: Confirmed

5. A confirmation statement that the permittee electronically reported BMPs using the DEQ BMP Warehouse in accordance with Part I E 5 q and the date on which the information was submitted.

Response: Confirmed. The required information was sent to Matt Fanghella of DEQ on 6/28/19 (prior to this reporting period). New BMPs will be added as they come on line.

4.6 Pollution prevention and good housekeeping for facilities owned or operated by the permittee within the MS4 service area.

In Part I section E-6-q of the MS4 permit, the permit lists specific items to be addressed in the Annual Report. The following are the items listed in the permit in italic typeface followed by responses in bold typeface:

Part I section E-6-q

- q. The annual report shall include the following:
 - 1. A summary of any operational procedures developed or modified in accordance with Part I E 6 a during the reporting period;

Response: No changes or modification were done to operational procedures during the reporting period.

2. A summary of any new SWPPPs developed in accordance Part I E 6 c during the reporting period;

Response: N/A. The university does not have any facilities that meet the permit criteria for high-priority facilities.

3. A summary of any SWPPPs modified in accordance with Part I E 6 f or the rationale of any high priority facilities delisted in accordance with Part I E 6 h during the reporting period;

Response: N/A. The university does not have any facilities that meet the permit criteria for high-priority facilities.

- 4. A summary of any new turf and landscape nutrient management plans developed that includes:
 - a. Location and the total acreage of each land area; and
 - b. The date of the approved nutrient management plan; and

Response: There were no new turf and landscape nutrient management plans required to be developed during the reporting period.

- 5. A list of the training events conducted in accordance with Part I E 6 m, including the following information:
 - a. The date of the training event;
 - b. The number of employees who attended the training event; and
 - c. The objective of the training event.

Response: Below is a summary of training activities with required information:

Training Event	Date	Number of Employees	Training Event Objective
Online Continuing Education for Nutrient Management Planner License	8/5/22	1	Nutrient Management License Update
Recertification class for 3B Pesticide Classification	6/5/22	1	Pesticide Recertification
Recertification class for 3B & 60 Pesticide Classification	January 2022	1	Pesticide Recertification
Recertification class for Arborist	12/31/2021	1	Arborist Recertification
ISA Tree Risk Assessment Qualification	8/31/2021	1	Become Qualified as a tree car professional who has specialized knowledge in tree risk assessment
Monthly Crew Meetings	monthly	All grounds crew	good housekeeping and illicit discharge prevention and response training

5.0 CHESAPEAKE BAY TMDL STATUS REPORT

In Part II section A-13 of the MS4 permit, the permit lists specific items to be addressed in the Annual Report. The following are the items listed in the permit in italic typeface followed by responses in bold typeface:

Part II section A-13

- 13. For each reporting period, the corresponding annual report shall include the following information:
 - 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;

Response: There was no BMP's implemented during the reporting period and not reported to DEQ BMP Warehouse.

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;

Response: Credits were not acquired during the reporting period

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; and

Response: All required cumulative reductions for total nitrogen, total phosphorus, and total suspended solids have been met.

d) A list of BMPs that are planned to be implemented during the next reporting period.

Response: There are no planned BMP's planned to be implemented during the next reporting period for compliance with the Chesapeake Bay TMDL.

6.0 LOCAL TMDL STATUS REPORT

In Part II section B-9 of the MS4 permit, the permit lists specific items to be addressed in the Annual Report. The following are the items listed in the permit in italic typeface followed by responses in bold typeface:

Part II section B-9

9. For each reporting period, each annual report shall include a summary of actions conducted to implement each local TMDL action plan.

Powhatan/Mill Creek TMDL

The university is continuing existing efforts documented in the TMDL Action Plan. Ongoing observations of the Dillard Complex indicate that measures have been successful in preventing the deposition of pet waste.

Monitoring is not required, and no monitoring is currently being conducted as part of TMDL compliance.

7.0 CONDITIONS APPLICABLE TO ALL STATE AND VPDES PERMITS

7.1 **Reporting Monitoring Results**

In Part III section C-1 of the MS4 permit, the permit lists specific items to be addressed in the Annual

Report. The following are the items listed in the permit in italic typeface followed by responses in bold

typeface:

Part III section C-1

1. The operator shall submit the results of the monitoring as may be performed in accordance with this state

permit with the annual report unless another reporting schedule is specified elsewhere in this state permit.

Response: N/A, no monitoring took place during the reporting period.

7.2 Reporting of noncompliance

In Part III section I-3 of the MS4 permit, the permit lists specific items to be addressed in the Annual

Report. The following are the items listed in the permit in italic typeface followed by responses in bold

typeface:

Part III section 1-3

3. The operator shall report all instances of noncompliance not reported under Part III I 1 or 2, in writing, as

part of the annual reports that are submitted. The reports shall contain the information listed in Part III I 2.

NOTE: The reports required in Part III G, H, and I shall be made to the department. Reports may be made

by telephone, email, or fax. For reports outside normal working hours, leaving a recorded message shall

fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency

Management maintains a 24-hour telephone service at 1-800-468-8892.

Response: There are no instances of noncompliance to report.

College of William & Mary – 2022 MS4 Annual Report, rev, 3/29/23

7.3 Signatory requirements

In Part III section K-2 of the MS4 permit, the permit lists specific items to be addressed in the Annual

Report. The following are the items listed in the permit in italic typeface followed by responses in bold

typeface:

Part III section K-2

2. Reports and other information. All reports required by state permits, including annual reports, and other

information requested by the board or department shall be signed by a person described in Part III K 1, or

by a duly authorized representative of that person. A person is a duly authorized representative only if:

a) The authorization is made in writing by a person described in Part III K 1;

b) The authorization specifies either an individual or a position having responsibility for the overall

operation of the regulated facility or activity such as the position of plant manager, operator of a

well or a well field, superintendent, position of equivalent responsibility, or an individual or position

having overall responsibility for environmental matters for the operator. (A duly authorized

representative may thus be either a named individual or any individual occupying a named

position.); and

c) The signed and dated written authorization is submitted to the department.

Response: See Section 1 of this report.