ST. MARY'S COUNTY

YEAR 5 - 2023 MS4 PROGRESS REPORT

FOR

GENERAL DISCHARGE PERMIT NO. 13-IM-5500
GENERAL NPDES NO. MDR055500

October 31, 2023

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
GENERAL PERMIT FOR DISCHARGES FROM
SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS

APPENDIX D

Municipal Small MS4 Progress Report

Maryland Department of the Environment (MDE)

National Pollutant Discharge Elimination System (NPDES)
Small Municipal Separate Storm Sewer Systems (MS4) General Permit

This Progress Report is required for those jurisdictions covered under General Discharge Permit No. 13-IM-5500. Progress Reports must be submitted to:

Maryland Department of the Environment, Water and Science Administration
Sediment, Stormwater, and Dam Safety Program
1800 Washington Boulevard, Suite 440, Baltimore, MD 21230-1708
Phone: 410-537-3543 FAX: 410-537-3553
Web Site: www.mde.maryland.gov

Contact Information

Permittee Name:	St. Mary's County
Responsible Personnel:	James M. Gotsch, P.E., Director
Mailing Address:	St. Mary's County DPW&T, P.O. Box 508
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Phone Number(s):	(301) 475-4200 ext. 73510
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Additional Contact(s):	Kian (Ian) H. Liong, Senior Program Manager
Mailing Address:	St. Mary's County DPW&T, P.O. Box 508
Phone Number(s):	(301)475-4200 ext. 73561
Email address:	Kian.Liong@stmaryscountymd.gov

Signature of Responsible Personnel

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 violations.

James M. Gotsch		10/31/2023
Printed Name	Signature	Date

Reporting Period (State Fiscal Year): 2023

Due Date: 10/31/2023 **Date of Submission:** 10/31/2023

Type of Report Submitted:

Impervious Area Restoration Progress Report (Annual): ☑

Six Minimum Control Measures Progress (Years 2 and 4): ☐

Both: ☐

Permittee Information:

Renewal Permittee: ☑

New Permittee: ☐

Compliance with Reporting Requirements

Part VI of the Small MS4 General Discharge Permit (No. 13-IM-5500) specifies the reporting information that must be submitted to MDE to demonstrate compliance with permit conditions. The specific information required in this MS4 Progress Report includes:

1. Annual: Progress toward compliance with impervious area restoration requirements in accordance with Part V of the general permit. All requested information and supporting documentation must be submitted as specified in Section I of the Progress Report.
2. Years 2 and 4: Progress toward compliance with the six minimum control measures in accordance with Part IV of the general permit. All requested information and supporting documentation shall be reported as specified in Section II of the Progress Report. MDE may request more frequent reporting and/or a final report in year 5 if additional information is needed to demonstrate compliance with the permit.

Instructions for Completing Appendix D Reporting Forms

The reporting forms provided in Appendix D allow the user to electronically fill in answers to questions. Users may enter quantifiable information (e.g., number of outfalls inspected) in text boxes. When a more descriptive explanation is requested, the reporting forms will expand as the user types to allow as much information needed to fully answer the question. The permittee must indicate in the forms when attachments are included to provide sufficient information required in the MS4 Progress Report.

Section I: Impervious Area Restoration Reporting Form

Section I: Impervious Area Restoration Reporting

1. a. Was the impervious area baseline assessment submitted in year 1?
☑ Yes ☐ No

   b. If No, describe the status of completing the required information and provide a date at which all information required by MDE will be submitted:

   c. Has the baseline been adjusted since the previous reporting year?
☑ Yes ☐ No

2. Complete the information below based on the most recent data:

   Total impervious acres of jurisdiction covered under this permit: 2548.50

   Total impervious acres treated by stormwater water quality best management practices (BMPs): 431.98

   Total impervious acres treated by BMPs providing partial water quality treatment (multiply acres treated by percent of water quality provided): 86.40

   Total impervious acres treated by nonstructural practices (i.e., rooftop disconnections, non-rooftop disconnections, or vegetated swales): 0

   Total impervious acres untreated in the jurisdiction: 2116.52

   Twenty percent of this total area (this is the restoration requirement): 423.30

   Verify that all impervious area draining to BMPs with missing inspection records is not considered treated. Describe how this information was incorporated into the overall analysis:

   Only impervious areas draining to functioning water quality BMPs with as-built plans or proper verification documentation were counted as treated. Impervious area draining to BMPs with missing documentation was included in the total untreated impervious acres in the jurisdiction.

2. Has an Impervious Area Restoration Work Plan been developed and submitted to MDE in accordance with Part V.B, Table 1 of the permit or other format?
☑ Yes ☐ No

   Has MDE approved the work plan?
☑ Yes ☐ No
   MDE has approved the previous version of the Work Plan. A revision to the Work Plan is included with this submission as ***Attachment "B".***

Section I: Impervious Area Restoration Reporting

If the answer to either question is No, describe the status of submitting (or resubmitting) the work plan to MDE and provide a date at which all outstanding information will be available:

Describe progress made toward restoration planning, design, and construction efforts and describe adaptive management strategies necessary to meet restoration requirements by the end of the permit term:

Documented restoration projects in the amount of 560.74 acres completed between January 2006 and October 2023 are calculated to provide enough treatment to meet St. Mary's County current 20% restoration goal. The County has an additional 53.7 acres of restoration credit from future shoreline management projects and 5.60 acres from a redevelopment project currently in the planning phase. Once completed, these projects will bring the County's restoration credit to an estimated 620.04 acres.

MDE recommended planning for an additional 10% restoration goal through 2030. St. Mary's County will meet 195.11 acres out of the additional 212.47-acre goal, leaving a remaining goal of 17.36 acres of restoration. St. Mary's County will meet this remaining goal by continuing efforts to document completed restoration projects, such as annual evaluation of BAT conversions, prioritizing BMP maintenance and restoring failing BMPs and collection of missing as-builts.

3. Has a Restoration Schedule been completed and submitted to MDE in accordance with Part V.B, Table 2 of the permit?
☑ Yes ☐ No

In year 5, has a complete restoration schedule been submitted including a complete list of projects and implementation dates for all BMPs needed to meet the twenty percent restoration requirement?
☑ Yes ☐ No

Are the projected implementation years for completion of all BMPs no later than 2025?
☑ Yes ☐ No

Describe actions planned to provide a complete list of projects in order to achieve compliance by the end of the permit term:

A complete list of projects is provided. This list may be updated if additional restoration projects are documented. The current list of projects exceeds the County's 20% restoration goal and meets 195.11 acres out of the 212.47 acres from the proposed additional 10% goal through 2030. St. Mary's County anticipates meeting the additional 17.36 acres goal through continued annual BAT conversions, maintenance to restore failing BMPs and collection of missing as-built documentation. However, these projects have not been included within the RAS as they are not in active planning until the next permit is issued.

Section I: Impervious Area Restoration Reporting

Describe the progress of restoration efforts (attach examples and photos of proposed or completed projects when available):

Restoration projects completed from January 2006 to October 2023 have surpassed the St. Mary's County 20% restoration goal. See attached report for project descriptions and treatment. Furthermore, St. Mary's County will have completed over 90% of the proposed 10% restoration goal by 2025 and will meet the remaining goal by 2030 through continued annual BAT conversions, maintenance to restore failing BMPs and collection of missing as built documentation.

4. Has the BMP database been submitted to MDE in Microsoft Excel format in accordance with Appendix B, Tables B.1.a, b, and c?
☑ Yes ☐ No

   Is the database complete?
☑ Yes ☐ No

   If either answer is No, describe efforts underway to complete all data fields, and a date that MDE will receive the required information:

5. Provide a summary of impervious area restoration activities planned for the next reporting cycle (attach additional information if necessary):

   The County will continue documenting additional restoration projects from inception to completion according to State requirements. These type projects would consist of funded County capital improvement projects, County facility maintenance projects, and private development projects. The County has been working with outside environmental contractors trying to set up additional shoreline and stream restoration projects. These type nutrient removal and water quality credits would align shared goals that support the local watersheds and the MS4 permit objectives. The County will also continue maintenance efforts to restore failing or non-compliant BMPs to functioning condition.

6. Describe coordination efforts with other agencies regarding the implementation of impervious area restoration activities:

   St. Mary's County works with all local internal departments for example, Land Use and Growth Management (LUGM) with the Watershed Implementation Plan (WIP), and the Health Department on IDDE concerns and newly installed BAT systems. The County documents additional outfall projects by the Town of Leonardtown and the Soil Conservation District as information becomes available. The County also works with State agencies such as the Department of Natural Resources and Maryland Department of the Environment when opportunities come available. We coordinate with multiple organizations outside the federal, state, and local governments as well, for example University of Maryland Extension on implementing/documenting homeowner BMPs.

Section I: Impervious Area Restoration Reporting

7. List total cost of developing and implementing the impervious area restoration program during the permit term:

St. Mary's County has expended an estimated total of $3.27M towards implementing the County's Municipal Separate Storm Sewer System (MS4) program and related activities since the inception of the permit. The County has spent approximately 1.95M of approved funding dedicated solely to water quality and nutrient removal capital improvement programs (CIP) related to the implementation of restoration type activities. These CIP projects are focused on impending efforts that includes stormwater management retrofits, potential MS4, National Pollutant Discharge Elimination System (NPDES) creditable practices, and support for creditable shoreline, stream restoration and wetland type projects. These efforts all provide County watershed benefits as well as to ensure MS4 Permit compliance. The approximate total increases to 5.22M for funding spent within the program permit cycle. Additionally, the County has budgeted a total of $3.5M, subject to possible increases based on future approved fundings dedicated to the said CIP water quality and nutrient removal projects.

The County budget for Year 5 of the permit included $40,000.00 in continued project support services and documentation for MS4, data management and compliance assessment to support reporting functions and potential testing requirements for water quality management practices, $20,000 in conveyance/outfall and drainage systems mapping, $55,000 related to MCM#3 IDDE inspections, and $135,000 on contracted stormwater management (SWM) BMP inspections.

The approximate total for operating costs since the inception of the permit cycle are as follows: SWM support services and mapping $594,527, contracted SWM inspections $503,000, contracted IDDE inspections $249,420, and the County has spent $412,000 in employees' annual salaries.

*See attached report for a listing of individual projects with dates completed and exact locations.