

General Information

Montgomery County, Virginia has MS4 coverage under General Permit No. VAR040134, effective November 1, 2018 – October 31, 2023. This document serves as the Montgomery County Municipal Separate Storm Sewer System (MS4) annual report for the reporting period of July 1, 2022 through June 30, 2023.

The permit conditions require that all annual reports submitted under the current permit are to be maintained as separate documents from the Program Plan. In this permit cycle the Program Plan serves as a planning and implementation tool to demonstrate compliance with the permit. The Program Plan includes specific items as set out in the general permit but is not an extension or enforceable part of the permit. The evaluation sections of this report reference components of the Program Plan as a part of the overall evaluation of the MS4 program implementation.

No stormwater discharge monitoring was performed in this permit year.

No Waste Load Allowances (WLAs) are currently assigned to Montgomery County in any TMDL approved by the Environmental Protection Agency prior to June 30, 2018, therefore no action plan status updates are included in this report.

No new MS4 outfalls were added during the permit year. 66 of the 67 identified outfalls were inspected. No monitoring data was collected during the permit year.

CERTIFICATION

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.

County Administrator Date

VAR040134 Montgomery County, VA

Permit Number MS4 Name

PROGRAM PLAN REVISIONS

The 2018-2023 general permit requires that each annual report shall summarize revisions to the Plan.

- The County MS4 Program Plan effective September 2023 contains an updated Appendix A organizational chart reflecting staffing changes and a new position.
- Appendix B is attached and contains the agreement between Montgomery County and the County School Board.
- Measurable Goals for MCM1 and MCM2 were clarified.

MINIMUM CONTROL MEASURE ANNUAL REPORTING

MCM 1: PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS

The program's three high priority issues were addressed in the public outreach and education program for the 2022-2023 permit year, water quality issue #1, pet waste, water quality issue #2, sediment, nutrients and trash/refuse, and water quality issue #3, Stream and Watershed Education.

The following strategies were employed:

Category	Strategy	Details and Evaluation		
Media materials	Social media messaging	Facebook and Twitter social media posts were generated. The messaging and outreach summary are provided in the appendix under BMP 1-1, 1-2, 1-3. (WQ Issue #1, #2, and #3) Evaluation : Summary tables of outreaches categorized by water quality issue number are provided below. 15 Facebook and 8 Twitter social media postings were made in the permit year, an increase over the previous permit year. 10,694 reaches/impressions and 1760 engagements were registered, representing an increase in both categories as compared to the previous year. The number of postings exceeded the measurable goal of a minimum two posting for each water quality issue postings. Images of the postings and an engagement summary are contained in an Appendix.		
Media materials	County webpage posting for recycling and hazardous waste collection	(WQ Issue #2)The County website provides a list of recyclable materials allowed at the County Consolidated Sites as displayed in appendix 1-2. In this permit year a total of three social media postings for the New River Resource Authority and Montgomery County Regional Solid Waste Authority were posted in lieu of providing the information on the County website. Evaluation: The NRRA and MCSWA hazardous waste days provide an opportunity to dispose of hazardous waste and these notifications are considered to provide a positive impact on watershed health.		
Traditional Written Materials	Water Quality & Watershed Health Flyer	(WQ Issue #1, #2, and #3) A flyer that encouraged citizens to Dispose of Pet Waste, Plant Pollinators, engage in Litter Prevention and Collection, and Advertising the ReNew the New and Broomin' and Bloomin' collection events was handed out at the Homebuilders show in April. The flyer also contained the QR code for the grass roots public participation survey application. Approximately 1,000 copies were distributed. Evaluation: The number of flyers distributed is considered successful in informing citizens about upcoming participation events and promoting public participation by providing access to the grass roots participation application.		

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Category	Strategy	Details and Evaluation			
Traditional	Montgomery	Water quality issues #1 and #2 continue to be addressed			
written	County Road	through two inserts into the road atlas printed for sale to			
materials	Atlas message	interested parties. A "Scoop the Poop" message addressing			
		issues with pet waste and actions that the public can take was			
		placed on the back page of the county atlas. A county map			
		illustrating the impaired waters in the county and its unique			
		position on the eastern continental divide was included, along with messaging that citizens play a role in keeping watersheds			
		clean.			
		Evaluation:			
		Additional printings of the atlas occur as needed. The atlases are			
		available for purchase through the planning and GIS			
Media	"Watersheds of	Department. 413 views of the "Watersheds of Montgomery County" ESRI			
Materials	Montgomery	StoryMap were captured in viewing statistics and presented in			
iviaterials	County" ESRI	Appendix BMP 1-3.			
	StoryMap	Evaluation: Continuing views demonstrate that the messaging			
	Storywap	remains effective. This StoryMap was created during the COVID			
		pandemic to engage the public in outreach and participation.			
		The storymap provides an educational platform for residents to			
		learn about the region's watersheds, impairments, and			
		promotes citizen actions to improve watershed health.			
Media	"Scoop the Poop"	458 views of the ESRI StoryMap were captured in viewing			
Materials	ESRI StoryMap	statistics and presented in Appendix BMP 2-2. (WQ Issue #1 and			
		#3)			
		Evaluation: Continuing views demonstrate that the messaging			
		remains effective. This StoryMap was created during the COVID			
		pandemic to engage the public in outreach and participation.			
		The StoryMap explains the issue of Pet Waste and encourages			
- 100		readers to pick up and dispose of waste properly.			
Traditional	Real estate tax	The insert contained messaging explaining the MS4 permit, the			
Written	bill insert	three water quality issues and their importance, and promotes			
Materials		specific participation events. Approximately 28,000 inserts were			
		printed and a copy is provided in the appendix. (WQ Issue #1, #2, & #3)			
		Evaluation: The mailing is numerically the biggest MCM1			
		outreach effort.			
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Category	Strategy	Details and Evaluation		
Traditional	Public	Flyers were created to promote the logging of grass roots efforts		
Written	Participation	including collecting pet waste, planting efforts, and trash		
Materials	Application QR	collection. Flyers were distributed to citizens along with pet		
	Code Flyers	waste bags during the Renew the New Cleanup and the NRV		
		Home Expo events, and occasionally when staff encountered		
		citizens walking their dogs in public. A copy is provided in the		
		appendix, page 15. (WQ Issue #1, #2,		
		and #3)		
		Evaluation: This GIS application and the QR Code Flyers were		
		created during the COVID pandemic to engage the public in		
		outreach and participation. The MCM 2 Public Participation		
		Application allows citizens to log grass roots efforts to improve watershed health. The flyer promotes participation by providing		
		access to the application. The QR code flyers were almost		
		exclusively handed out during the two events noted above.		
		Therefore, the materials were evaluated as not effective as used		
		during the permit year.		

MCM1 Evaluation:

Each item in the outreach is individually evaluated in the information table above. The County employed two types of the strategies listed and seven total effective outreach elements, with the 23 total social media messaging items grouped as a single element. Overall outreach increased as compared to the previous permit year.

The outreach to promote public participation through the MS4 Public Participation Survey Application will be reviewed in the 2023-2024 permit year to determine if the messaging should continue with modifications to produce an effective BMP. Additional County staffing should allow more 'on the street' interaction with the public to promote increased participation to be documented as grass roots MCM2 participation. A particular feedback from participants has been that documenting the location of the activity has been problematic. A review of the application mechanics to determine if a more user friendly location method can be developed will be made.

Changes to the Program Plan are not deemed necessary.

MCM 2: PUBLIC INVOLVEMENT/PARTICIPATION

Montgomery County collaborates with the following MS4 permittees without formal agreement:

Town of Blacksburg VAR040019
Town of Christiansburg VAR040025
Virginia Tech VAR040049
Virginia Department of Transportation VA0092975

A total of 27 occurrences of public input related to stormwater were received during the permit year.

Public input resulted in 3 IDDE investigations that are reported in the MCM3 section of this report.

Three webpage generated emails were received and are detailed in the BMP 2-2 Public Participation section, pages 35-41 of the report appendix.

The county stormwater and MS4 webpage can be accessed at: https://montva.com/departments/stormwater

Website viewing statistics for the County stormwater pages presented in Appendix BMP 2-2. 1,035 unique page views, defined as page views that do not include repeated visits during a session, are documented. The stormwater webpage meets permit requirements.

Evaluation: Phone and email contact directly to county Planning, Building, and Environmental Services departments remain the primary form of contact, with only three contacts in the permit year through the website. The county will continue to maintain the website and will promote viewing of the site link through social media outreach.

The public involvement activities were implemented in the permit year are summarized in a table below.

Category	Activity	Event Metrics and Evaluation		
Educational event	Steppin' Out Street	Attendance estimates by the Town of Blacksburg is 30,000		
	Festival Booth	to 40,000. 30 medication disposal pouches and		
	2022/08/05 and	approximately 120 pet waste bag rolls or dispensers with		
	2022/08/06	rolls were distributed. Approximately 70 Water Quality &		
		Watershed Health Flyers were distributed.		
		Evaluation: The event is beneficial for our four regional		
		MS4s in hosting a booth at this event to provide		
		information, answer questions, and invite input from area		
		residents about the area MS4 programs.		
Restoration	'ReNew the New'	Metrics: 167 volunteers, 69 tires, and 12,000 total pounds of		
	river cleanup	trash were collected. See the MCM 2 appendix page 44 for		
	2022/08/27	related documentation.		
		Evaluation: The event is beneficial to water quality through		
		direct removal of gross pollutants, through the stormwater		
		messaging conveyed to the public as a part of the event		
		promotion. WQ flyer handouts were distributed to promote		
		public participation through the GIS application.		
Educational Event	New River Valley	The attendance was approximately 1,200.		
	Homebuilders	Evaluation: The event is beneficial for our four regional		
	Show Booth	MS4s in hosting a booth at this event to provide		
	2023/04/01 and	information, answer questions, and invite input from area		
	2023/04/02	residents about the area MS4 programs. Page 49 of the		
		appendix summarizes the distribution of the 110 persons		
		that had significant interactions with staff at the booth. Over		
		20% of those persons stated residence in the		
		unincorporated parts of Montgomery County.		
Restoration	Broomin' and	Metrics: 167 volunteers participated in an annual cleanup		
	Bloomin' cleanup	event. The County celebrated the 40 th anniversary of this		
	2023/04/24	annual event.		
		Evaluation: The event is beneficial to water quality through		
		direct removal of gross pollutants and through the		
		stormwater messaging conveyed to the public as a part of		
		the event promotion.		
Educational Event	Junior Hokie	Metrics approximately 715 fourth grade Montgomery		
	Showcase	County School System students attended the event. The		
	2023/03/06 and	county presented the Wards Flood Model and		
	2023/03/07	demonstrated the water quantity and quality impacts of		
		development, including the mitigating effect of detention		
		ponds and water quality best management practices.		
		Evaluation: The event is beneficial in providing a hands on		
		model to convey the concepts of the impacts of		
		development on hydrology and water quality.		

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Category	Activity	Event Metrics and Evaluation			
Educational Event	MCPS Stormwater	777 7 th grade students from the Montgomery County Public			
	Days	School (MCPS) system attended the two-day event along			
	2022/04/11 and	with 46 chaperones. The Stormwater Days provides students			
	2022/04/12	an opportunity to participate in a series of interactive			
		watershed education stations in coordination with the			
		middle school curriculum goals for watershed education.			
		The event summary on page 51 of the appendix describes			
		the stations			
		Evaluation: The event improves awareness of aspects of			
		watershed health. The station descriptions provided in the			
		appendix document the broad range of topics covered. The			
		educational experience is expected to result in increased			
		awareness and promote actions to improve watershed			
Della d'es Deservation	Ball'anta Carda	health.			
Pollution Prevention	Pollinator Garden	The members of the Montgomery County Board of			
	Planting 2023/04/11	Supervisors planted a native plant pollinator garden along the Huckleberry Trail.			
	2023/04/11	Evaluation: The environmental services department staff recruited the supervisors for this event in order to both			
		plant the pollinator garden and to promote the event			
		through social media, therefore the event provided a			
		physical improvement to the environment while also			
		providing messaging captured in MCM1.			
Pollution Prevention	Pollinator Garden	8 volunteers planted a 650 SF pollinator garden off of			
	Planting	Reading Road.			
	2023/06/29	Evaluation: The event provided a physical improvement to			
		the environment while also providing messaging captured in			
		MCM1.			

MCM2 Overall Evaluation:

The permit requirements were met and exceeded with eight events in three categories. No Modifications to public participation events in the 2023-2024 permit year are anticipated, with the note that weather events may impact outdoor events in the future.

The two cleanup restoration events provide the physical parameters of trash collected as an evaluation metric as well as communicating messaging that is expected to result in benefits to water quality through increased awareness and modified behaviors. Booth participation and the student stormwater days are beneficial in providing information, answering questions, and inviting input from area residents and students about the area MS4 programs. These activities rely on communicating messages that will increase awareness and participation and are expected to lead to benefits to water quality through modified behaviors. Pollinator and native planting provide physical improvements to the environment as well as opportunities for MCM1 messaging.

MCM 3: ILLICIT DISCHARGE DETECTION AND ELIMINATION

The online MS4 Outfall Map and information table contained in the map attribute table have been maintained and reflect no changes to the MS4 outfalls during the permit year.

No new outfalls were added in the permit year. 66 of 67 identified MS4 outfalls were inspected during the permit year. Inspection results may be viewed in the online outfall map.

Two illicit discharge investigations were conducted during the permit year. All investigations provide the six required information items prescribed by the permit and are contained in the BMP 3-3 Public Participation section, page 55 of the report appendix.

MCM3 Overall Evaluation:

The following items demonstrate permit compliance:

- No new interconnection notices were required.
- The inspection of 66 of 67 known MS4 outfalls.
- The IDDE ordinance as available online and linked in the Program Plan.
- The written IDDE procedures and dry weather screening protocols as available online and linked in the Program Plan.
- Completion or continuing investigation of IDDE investigations as detailed in the annual report appendix.

The evaluation concludes that no changes to the MCM3 procedures and protocols are required.

MCM 4: CONSTRUCTION SITE STORMWATER RUNOFF CONTROL

County staff conducted 1,501 inspections during the permit year. Inspections are documented in a permitting software application and included on pages 56-59 of the appendix..

5 enforcement actions were taken in the permit year and are summarized in the BMP 4-2 section of the appendix on page 55; 2 Notices of Corrective Action and 3 Stop Work Orders.

The following ESC Variances were approved:

Project Name	Permit Number	Date of Submittal	Description	Date of Approval
Brush Mountain Trails #3	ES-2022-21914	2022/08/26	Variance for stabilization practices for unpaved trails in a forest land cover. Existing leaf litter is to be used as a mulch.	2022/08/26
Apogee Townhomes	ES-2021-19724	2023/0519	Variance to requirement for a required drainage swale from a sediment trap outfall, ST is oversized to minimize discharge potential to an offsite property with a karst feature.	2023/06/05

The following VSMP Exception was approved:

Project Name	Permit Number	Date of	Description	Date of
		Submittal		Approval
Apogee	ES-2021-19724	2023/05/19	Water quantity exception	2023/06/05
Townhomes			due to the minimal sizing of	
			the detention system	
			orifice sizing (1-inch)	

MCM4 Overall Evaluation:

The following items demonstrate permit compliance:

- The County has an adopted Virginia Erosion and Sediment Control Program (VESCP) as documented in the County Program Plan available online. Projects granted variances are listed in a table below.
- The County maintains an Illicit Discharge Ordinance as available online and linked in the Program Plan that provides an enforceable mechanism to meet the permit requirements to prevent nonstormwater discharges on permitted projects not covered under the Construction general permit.
- Written erosion and sediment control (ESC) inspection procedures are established as documented in the County Program Plan available online.
- Written enforcement action procedures to require compliance with ESC regulations are established as documented in the County Program Plan available online.
- The roles and responsibilities of staff for MCM4 compliance are outlined in the county
 organizational chart and specific Best Management Practices (BMPs) within the plan may also
 identify responsible parties in additional detail.

The evaluation concludes that no changes to the MCM4 procedures and protocols are required.

MCM 5: POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND DEVELOPMENT ON PRIOR DEVELOPED LANDS

The County implements an approved Virginia Stormwater Management Program (VSMP) consistent with the Virginia Stormwater Management Act and VSMP regulations.

No privately owned stormwater facilities were inspected in the permit year.

The County has identified 20 publicly owned stormwater facilities that lie within the MS4 regulated area. All 20 facilities were inspected in the permit year. No significant, non-routine repair or retrofit activities were performed in the permit year.

Montgomery County submitted stormwater management facility information through the Virginia Construction Stormwater General Permit database for those land disturbing activities for which the County was required to obtain coverage under the General VPDES CGP.

Montgomery County had no stormwater management facility or practice completed that required reporting using the DEQ BMP Warehouse between July 1, 2022 and June 30, 2023.

MCM5 Overall Evaluation:

The following items demonstrate permit compliance:

- The County maintains a stormwater management facility inspection and maintenance program
 for facilities owned and operated by the permittee in accordance with the permit, and conducts
 inspections and maintenance in accordance with written procedures and as outlined in the
 Program Plan and available online at the County stormwater webpage.
- The County implements an established stormwater management facility inspection and enforcement program for facilities not owned and operated by the permittee in accordance with the permit, and has legal authority for enforcement of maintenance responsibilities if maintenance is neglected as outlined in the program Plan and available online at the County stormwater webpage.
- The county maintains spreadsheets online for <u>Public Stormwater Facilities</u> and <u>Private</u>
 <u>Stormwater Facilities</u> in conformance with the permit requirement to maintain information on these facilities.

The evaluation concludes that no changes to the MCM5 procedures and protocols are required.

MCM 6: POLLUTION PREVENTION/GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

BMP 6-1: Household Hazardous Waste Event Notice

Encourage citizen participation in events to dispose of household materials that could be hazardous to dispose of in bulk landfills.

Measureable Goals Achieved in Reporting Year

Three social media postings promoting hazardous waste collection days are documented on page 4 of the appendix.

The County website posts Consolidated Site Recycling Information. See the BMP 1-2 Appendix on page 21.

Annual Reporting Requirements

Advertise the New River Resource Authority hazardous waste collection events. These events are open to residents of the Town of Blacksburg, Town of Christiansburg, and Montgomery County by appointment only.

No new operational procedures were developed and no existing operational procedures were modified in the permit year.

All county owned facilities were inspected and evaluated for high priority/ high potential status in the permit year. No new Good Housekeeping Stormwater Pollution Prevention Plans (SWPPPs) were developed in the permit year.

No Nutrient Management Plans were developed during the permit year. The existing plans are posted and available at the County website.

Training events were conducted in the previous permit year for the applicable staff in accordance with the required frequency. The school system included MS4 training for custodial staff in this permit year. Sign in sheets for the performed training are contained in the Appendix section 6-5.

MCM6 Overall Evaluation:

The following items demonstrate permit compliance:

- The County completed a review of all County owned facilities to re-evaluate each facility as highpriority or low-priority and subsequently evaluate any high-priority site for any high potential to discharge pollutants.
- The County maintains a Good Housekeeping SWPPP where appropriate, and has developed Good Housekeeping procedures for use.
- The County engaged a certified planner has developed all required turf and landscape Nutrient Management Plans and provided the plans to appropriate personnel.

- No deicing agents containing urea or other forms of nitrogen are employed for deicing application.
- The County maintains a training program and training documentation in accordance with the permit.
- Employees or contractors hired by the County to apply pesticides and herbicides are trained or certified in accordance with appropriate regulations.
- Employees serving as plan reviewers, inspectors, program administrators for ESC or SWM program implementation are appropriately certified.
- Emergency response personnel are trained in spill response.

The evaluation concludes that no changes to the MCM6 procedures and protocols are required.

APPENDIX INDEX

- BMP 1-1, 1-2, 1-3 Public Education and Outreach Program Documentation
- BMP 1-1, 1-2, 1-3 Social Media Posts and Viewing Documentation
- BMP 1-1, 1-2, 1-3 MCM1 Water Quality & Watershed Health Flyer
- BMP 1-2: County Website Consolidated Site Recycling Information
- BMP 1-1, 1-2, 1-3 Montgomery County Atlas Impaired Waters Map and Scoop the Poop Inserts
- BMP 1-3 "Watersheds of Montgomery County" ESRI StoryMap Viewing Statistics
- BMP 1-1 "Scoop the Poop" ESRI StoryMap Viewing Statistics
- BMP 1-1, 1-2, 1-3 Public Participation QR Code Flyer
- BMP 1-1, 1-2, 1-3 Real Estate Billing Insert
- BMP 2-1: MS4 Webpage Statistics Report
- BMP 2-1: Public Input, Concern, and Complaint Summary (includes BMP 3-3 IDDE Documentation)
- BMP 2-2 Public Participation Documentation
- BMP 2-2 ReNew the New Trash and Litter Collection Event Statistics
- BMP 2-2 New River Valley Homebuilders Show Statistics
- BMP 2-2 Broomin' and Bloomin' Cleanup Statistics
- BMP 2-2 MCPS Stormwater Days Statistics
- BMP 2-2 Junior Hokie Showcase Event
- BMP 3-3 Illicit Discharge Investigations
- BMP 4-2 Enforcement Action Summary
- **BMP 4-2 VESCP Inspection Tracking**
- BMP 5-2 CGP Comprehensive Inspection Tracking
- BMP 6-5 Biennial Training Documentation