



City of Salem, Virginia

Municipal Separate Storm Sewer System Annual Report

For

General Permit No. VAR040010

Permit Year

July 1, 2020 through June 30, 2021

This annual report is submitted in accordance with 9VAC25-890-40 as part of the requirement for permit coverage to discharge stormwater to surface waters of the Commonwealth of Virginia consistent with the VAR04 General Permit effective date November 1, 2018.

Submitted: October 1, 2021

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ACRONYMS

BMP	Best Management Practices
CVC	Clean Valley Council
DEQ	Virginia Department of Environmental Quality
MCM	Minimum Control Measure
MS4	Municipal Separate Storm Sewer System
POC	Pollutants of Concern
SWPPP	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load
VESCP	Virginia Erosion and Sediment Control Program
VSMP	Virginia Stormwater Management Program
VPDES	Virginia Pollution Discharge Elimination System

1.0 GENERAL ANNUAL REPORTING REQUIREMENTS

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

Permittee Name: City of Salem

Permit Number: VAR040010

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

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

July 1, 2020 through June 30, 2021

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

A signed certification as per Part III K:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Printed Name:

Title:

Signature:

J. Taliaferro, AIA

Date: 10/12/2021

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

Include information for each annual reporting item specified in Part I.E:

Reporting information for each Minimum Control Measure is provided in Section 2.0.

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

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

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

Table 1: Summary of MS4 Program Plan Changes

N/A, no changes are necessary.

2.0 MINIMUM CONTROL MEASURES

2.1. MCM #1: Public Education and Outreach

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

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

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

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

A list of strategies used to communicate each high-priority stormwater issue:

A list of strategies used to communicate each high-priority stormwater issue is provided in Table 2. Appendix A includes documentation of the communication efforts described in Table 2.

Table 2: High Priority Stormwater Issues

#	Stormwater Issue	Strategy	Communication	Metric	Beneficial
1	Public Education on Stormwater Impacts	Curriculum	Virtual Stream School and Rigsby and the 4 Rs. 1/1 - 3/31. Stormwater, Litter, Recycling	549 Persons	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Public Education on Bacteria and Sediment	Curriculum	Virtual Stream Event 4/13/2021 - Stormwater, Bacteria, Sediment, Nutrients	46 Persons	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Pollution Prevention	Written Materials	Salem Veterans Center - Quarterly Stormwater Newsletter Publication	1,900 Recipients	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

Were all MCM #1 requirements met completed in accordance with the MS4 Program Plan?

Yes No ()

Are the MS4 Program measurable goals effective?

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

2.2. MCM #2: Public Involvement and Participation

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

A summary of any public input on the MS4 program received (including stormwater complaints) and responses:

If any MS4 Program inputs or stormwater complaints were received from the public, were responses provided?

Yes () No () Not Applicable (No input or complaints)

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

A webpage address to the MS4 program and stormwater website:

The webpage address is <https://salemva.gov/Departments/Community-Development/Stormwater-Information>

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

A description of the public involvement activities implemented:

A description of the implemented public involvement activities is provided in Table 3.

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

A report of the metric as defined for each activity and an evaluation as to whether or not the activity is beneficial to improving water quality:

A report of the metric as defined for each activity and an evaluation as to whether or not the activity is beneficial to improving water quality is provided in Table 3. Appendix A includes documentation of the public involvement activities.

Table 3: Public Involvement Activities Implemented

#	Activity Description/Date	Category	Metric	Collaboration	Beneficial
1	Storm Drain Stenciling - 6/22/21 & 6/30/21	Pollution Prevention	6 Participants & 50 storm drains marked.	Clean Valley Council	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	In-Person Stream School 4/20/21	Educational	46 Participants	Clean Valley Council	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Salem/Rotary Park - 10/27/2020	Educational	26 Participants	Clean Valley Council	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4	Explore Park 4/19/21 - 4/22/21	Restoration	20 Participants	Clean Valley Council	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

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

2.2.6. MS4 Program Plan BMP Measurable Goals

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

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

BMP	Measurable Goal	Completeness Status
2.1	Was documentation of the public input or complaints on the MS4 program and MS4 Program Plan maintained?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable (No input/complaints)
2.1	Is the effective MS4 permit and coverage letter on the webpage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2.1	Is the most current MS4 Program Plan on the webpage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2.1	Is the annual report for each year of the term covered by this permit no later than 30 days after submittal to the department on the webpage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable

2.1	Is there a mechanism for the public to report potential illicit discharges, improper disposal or spills to the MS4, complaints regarding land disturbing activities or other potential stormwater pollution concerns on the webpage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2.1	Is there a method for how the public can provide input of the MS4 Program Plan on the webpage?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2.1	Is there a method for responding to public input?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2.1	Is there a method for maintaining public input received and the city's responses?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

Were all MCM #2 requirements met 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 storm sewer map and outfall information table updated to reflect any changes to the MS4 occurring on or before June 30 of the reporting year?

Yes No () Not Applicable (No changes required)

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

The total number of outfalls screened during the reporting period as part of the dry weather screening program:

Were at least 50 outfalls screened during the reporting period? Yes No ()

The number of outfalls screened during the reporting yard as part of the dry weather screening program is 103. This represents 34% of the total outfalls.

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

A list of illicit discharges to the MS4 including spills reaching the MS4:

Were there any illicit discharges to the MS4 including spills reaching the MS4?

Yes (Refer to Appendix B) No

2.3.4. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 5.

Table 5: MS4 Program Plan BMP Measurable Goals for MCM #3		
BMP	Measurable Goal	Completeness Status
3.1	Was a GIS compatible shapefile submitted to DEQ?	Completed
3.1	Was written notification provided to any downstream adjacent MS4 of any known interconnection established or discovered during the permit reporting year?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (No new or discovered) <input type="checkbox"/> No

3.2	Were all reported or observed non-stormwater discharges eliminated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.2	Were inspections, surveillance, monitoring and enforcement procedures in response to reports implemented?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.3	Were illicit discharge detection and elimination procedures implemented, enforced and documentation maintained of at least 50 outfalls?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

Were all MCM #3 requirements met in accordance with the MS4 Program Plan?

Yes No ()

Are the MS4 Program measurable goals effective?

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

2.4. MCM #4: Construction Site Stormwater Runoff Control

2.4.1. Implementation of VESCP and City Ordinance (Part I.E.4.a(1))

The MS4 has adopted a Virginia Erosion and Sediment Control Program (VESCP). The MS4 implements the VESCP consistent with the Virginia Erosion and Sediment Control Law and Virginia Erosion and Sediment Control Regulations.

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

A confirmation statement that land disturbing projects that occurred during the reporting period have been conducted in accordance with the VESCP consistent with the Virginia Erosion and Sediment Control Law and Virginia Erosion and Sediment Control Regulations:

Were all land disturbing projects that occurred during the reporting period conducted in accordance with the VESCP consistent with the Virginia Erosion and Sediment Control Law and Virginia Erosion and Sediment Control Regulations?

Yes No (Refer to Table 6)

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

If one or more of the land disturbing projects were not conducted with the VESCP consistent with the Virginia Erosion and Sediment Control Law and Virginia Erosion and Sediment Control Regulations, an explanation as to why the projects did not conform:

If “No” is checked above, an explanation as to why a project did not conform to the VESCP laws and regulations and City ordinance is provided in Table 6.

Table 6: Project(s) Not in Conformance with VESCP

Project Name 1: Mowles Spring Park

Explanation: Mowles Spring Park had areas outside of the limits of disturbance. A was developed, approved and implemented.

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

Total number of inspections conducted:

The total number of site stormwater runoff inspections conducted for regulated land disturbance activities is 734.

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

The total number and type of enforcement actions implemented:

The total number of enforcement actions implemented is 207.

The total number of Notices of Violation issued is 136.

The total number of Stop Work Orders issued is 13.

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

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

Were all MCM #4 requirements met in accordance with the MS4 Program Plan?

Yes No (Mowles Spring Park had areas outside of the limits of disturbance. A was developed, approved and implemented.)

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 VSMP and City Ordinance (Part I.E.5.i (1))

The MS4 has approved Virginia Stormwater Management Program (VSMP) and implements the VSMP consistent with the Virginia Stormwater Management Act and VSMP Regulations as well as has developed an inspection and maintenance program in accordance with Parts I.E.5.b and c.

2.5.1.1. Privately-Owned VSMP Inspections (Part I.E.5.i (1)(a))

The number of privately-owned stormwater management facility inspections conducted:

The number of privately-owned stormwater management facility inspections conducted is 0. Three private facilities have submitted agreements to inspect during the reporting year.

2.5.1.2. Privately-Owned VSMP Enforcement Actions (Part I.E.5.i (1)(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:

The number of enforcement actions initiated by the MS4 to ensure long-term maintenance of privately-owned stormwater management facilities is 0.

The type of enforcement actions issued are N/A.

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

Total number of inspections conducted on stormwater management facilities owned or operated by the permittee:

Were inspections conducted on stormwater management facilities during the reporting year? Yes No

The total number of inspections conducted on stormwater management facilities, owned or operated by the MS4 is 15.

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

A description of significant maintenance, repair, or retrofit activities performed on the stormwater management facilities owned or operated by the permittee to ensure it continues to perform as designed. This does not include routine activities such as grass mowing or trash collection:

Were significant maintenance, repair, or retrofit activities performed on any stormwater management facilities during the reporting year?

Yes No Not Applicable (No significant maintenance required)

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 7.

Table 7: Maintenance Activities Performed on Stormwater Management Facilities

Stormwater Management Facility	Significant Maintenance Activity
NA	NA

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

A confirmation statement that the permittee submitted stormwater management facility information through the Virginia Construction Stormwater General Permit database for those land disturbing activities for which the permittee was required to obtain coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities in accordance with Part I E 5 f or a statement that the Permittee did not complete any projects requiring coverage under the General VPDES Permit for Discharges of Stormwater form Construction Activities:

Stormwater management facility information for stormwater facilities installed after July 1, 2014 was submitted through the Virginia Construction Stormwater General Permit database for land disturbing activities requiring a General VPDES Permit for Discharges of Stormwater from Construction Activities?

Yes No Not Applicable

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

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

No later than October 1 of each year, stormwater management facilities and BMPs implemented to meet a TMDL load reduction between July 1 and June 30 of each year were electronically reported using the DEQ BMP Warehouse for any practices not reported in accordance with Part I.E.5.f (requirement 2.5.4) including stormwater management facilities from land disturbing activities less than one acre in accordance with the Chesapeake Bay Preservation Act regulations and for which a General VPDES Permit for Discharges of Stormwater from Construction Activities was not required?

Yes, Date Submitted: No Not Applicable (No SWM facilities constructed or BMPs implemented that meet the criteria.)

2.5.6. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 8.

Table 8: MS4 Program Plan BMP Measurable Goals for MCM #5		
BMP	Measurable Goal	Completeness Status
5.1	Was the inspection and maintenance program on post-construction stormwater management facilities implemented?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5.1	Did all regulated land disturbance activities have a City approved SWM plan?	<input type="checkbox"/> Yes, all applicable <input checked="" type="checkbox"/> No (Mowles Spring)
5.1	Were all stormwater management facilities recorded with inspection and maintenance plans and/or agreements, where applicable?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5.2	Was the stormwater management facility tracking database updated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable (No new or discovered) <input type="checkbox"/> No

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

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

Were all MCM #5 requirements met in accordance with the MS4 Program Plan?

Yes No (Mowles Spring Park had areas outside of the limits of disturbance. A was developed, approved and implemented.)

Are the MS4 Program measurable goals effective?

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

2.6. MCM #6: Pollution Prevention and Good Housekeeping

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

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

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

Yes (Refer to Table 9) No Not Applicable (Not necessary)

Table 9: Good Housekeeping Operational Procedures Developed or Modified

1. Landscape waste disposal language was added to Section 5.16.
2. Reference to SWPPP training was included in Section 2.0.

2.6.2. Newly Developed SWPPPs (Part I.E.6.q(2))

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

Were any new SWPPPs developed in accordance Part I E 6 c during the reporting period?

Yes (Refer to Table 10) No Not Applicable (No new high priority facilities)

Table 10: New SWPPPs Developed

SWPPP Name	SWPPP Address
NA	NA

2.6.3. Modified or Delisted SWPPPs (Part I.E.6.q(3))

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

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

Yes (Refer to Table 11) No Not Applicable (Not necessary)

Were any high priority facilities delisted in accordance with Part I E 6 h during the reporting period? Yes (Refer to Table 11) No Not Applicable (No delisted high priority facilities)

If yes, rationale is provided for any high priority facilities delisted in accordance with Part I E 6 h during the reporting period in Table 11.

Table 11: SWPPPs Modified or Delisted

SWPPPs Modified/Delisted	Rationale for Delisting
NA	NA

2.6.4. Newly Developed Nutrient Management Plans (Part I.E.6.q(4))

A summary of new turf and landscape nutrient management plans developed:

Were any new turf and landscape nutrient management plans developed?

Yes (Refer to Table 12. Updated previously established nutrient management plans.)
 No () Not Applicable (Not required this permit year)

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

The location and the total acreage of each land area:

If “Yes” is checked above, the location and total acreage of the land area for any newly developed nutrient management plan is provided in Table 12.

2.6.4.2. Nutrient Management Plan Approval Date (Part I.E.6.q(4)(b))

The date of the approved nutrient management plan:

If “Yes” is checked above, the approval date of any newly developed nutrient management plan is provided in Table 12.

Table 12: New Turf and Landscape Nutrient Management Plans

Location	Total Acreages	Date Approved
Salem Golf Course	35	6/22/2021
City of Salem - Parks	27.16	6/22/2021
Salem Memorial Stadium	2.4	5/19/2021

2.6.5. Training Events (Part I.E.6.q(5))

A list of the training events conducted in accordance with Part I.E.6.m, including the following information:

Was training conducted?

Yes No () Not Applicable (Not required this permit year.)

If yes is checked above, a list of training events conducted in accordance with Part I.E.6.m is provided in Table 13.

2.6.5.1. Training Dates (Part I.E.6.q(5)(a))

The date of the training event:

If yes is checked above, the date of the training event is provided in Table 13.

2.6.5.2. Quantity Trained (Part I.E.6.q(5)(b))

The number of employees who attended the training event:

If yes is checked above, the number of employees who attended the training event is provided in Table 13.

2.6.5.3. Training Objective (Part I.E.6.q(5)(c))

The objective of the training event:

If yes is checked above, the objective of the training event is provided in Table 13.

Table 13: Training Events

Date	# of Attendees	Training Objective
6/28/21 - 7/15/21	97	MS4 Training on Entire Program including Good Housekeeping, Pollution Prevention and IDDE.

2.6.6. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 14.

Table 14: MS4 Program Plan BMP Measurable Goals for MCM #6

BMP	Measurable Goal	Completeness Status
6.1	Was good housekeeping and pollution prevention biennial training conducted this reporting year?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable (Not required this reporting year) <input type="checkbox"/> No
6.2	Was the annual comprehensive compliance evaluations conducted?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6.2	Were the SWPPPs reviewed within 30 days after an unauthorized discharge, release or spill reported?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (Not required) <input type="checkbox"/> No
6.2	Were the SWPPPs updated within 90 days after an unauthorized discharge?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (Not required) <input type="checkbox"/> No
6.2	Were the MS4's properties reviewed this reporting year to determine if the properties meet the criteria of a high priority facility?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6.3	Were the nutrient management plans implemented through completion of application records?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6.5	Did all signed contracts executed for pesticide and herbicide application maintain proof of certifications on file?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable <input type="checkbox"/> No
6.5	Did training occur and were proof of certifications maintained on file for employees performing pesticide and herbicide applications?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable <input type="checkbox"/> No
6.6	Were all signed contracts executed with contract good housekeeping and pollution prevention language?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

Were all MCM #6 requirements met 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 TMDL SPECIAL CONDITIONS

3.1. Roanoke (Staunton) River Watershed PCB TMDL Action Plan

3.1.1. PCB TMDL Implementation (Part II.B.9)

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

Table 15: PCB TMDL Action Plan Summary of Actions

BMP	Measurable Goals	Completeness Status
1	Assessment of City Properties.	Completed
2	SWPPP developed, implemented and maintained for the Streets Facility.	Completed and Ongoing
3	MCMs 1 - 4 and 6 and City Ordinances developed and implemented to specifically address and minimize PCBs.	Completed and Ongoing
4	Notification to DEQ in writing within 30 days of discovery, if found.	Ongoing

Were all requirements met in accordance with the Roanoke (Staunton) River Watershed PCB TMDL Action Plan?

Yes No ()

Are the MS4 Program measurable goals effective?

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

3.2. Upper Roanoke River Watershed E.coli TMDL Action Plan

3.2.1. Bacteria TMDL Implementation (Part II.B.9)

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

Table 16: Bacteria TMDL Action Plan Summary of Actions		
BMP	Measurable Goals	Completeness Status
1	Post signage and provide disposal containers and waste bags.	Completed, Ongoing
2	Implement and enforce ordinances or policies related to outdoor water waste.	Completed, Ongoing
3	Educate the public on sewer backup prevention and actions taken if the sewer overflows.	Completed, Ongoing
4	Enhanced Public Education and Outreach and Public Participation within the watershed through partnership with the Clean Valley Council.	Completed, Ongoing

Were all requirements met in accordance with the Upper Roanoke River Watershed E.coli TMDL Action Plan?

Yes No ()

Are the MS4 Program measurable goals effective?

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

3.3. Upper Roanoke River Watershed Sediment TMDL Action Plan

3.3.1. Sediment TMDL Implementation (Part II.B.9)

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

Table 17: Sediment TMDL Action Plan Summary of Actions

BMP	Measurable Goal	Completeness Status
1	<p>Coordination with DEQ to be able to take additional credit for the implementation of Salem's MS4 Program.</p> <p>Evaluate a credit for the reduced land disturbance threshold written in Salem's ordinance.</p> <p>Determine lane miles swept potential of City streets. Select a street sweeping scenario to implement.</p>	Progress Made, Ongoing
2	Develop necessary documentation per expert panel report.	June 30, 2022
3	Develop sweeping training materials and implement training.	June 30, 2023
4	<p>Assess numerical progress towards meeting the WLA over the permit cycle.</p> <p>Re-evaluate Street Sweeping Program.</p>	June 30, 2024

A summary of quantifiable pollutant of concern reductions is provided in Table 18.

Table 18: POC Reductions

BMP #10: Street Sweeping Using the Mass Loading Approach

Goal (tons of material swept):	793.55 Tons
Progress toward Goal (tons of material swept):	318.93 Tons

3.3.2. Sediment TMDL Evaluation (Part I.D.2.e)

Review the TMDL Special Condition to determine the Local TMDL Action Plan's effectiveness and whether or not changes to the Local TMDL Action Plan are necessary:

Were all requirements met in accordance with the Upper Roanoke River Watershed Sediment TMDL Action Plan?

Yes No (Land disturbance threshold was not evaluated and street sweeping scenario was not selected.)

Are the MS4 Program measurable goals effective?

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

Appendix A: Clean Valley Council Documentation for MCM #1 and MCM #2



Clean Valley Council

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MCM 1: BMP# 1.4 Stormwater Educational Programs

Date	Municipality	School	Type of Event	Program Name	Issue Addressed	# Programs	# Children	# Adults	Total Reached	Staff Present
9/15/2020	ALL	Virtual	Website	PBL - Stop the Slop	ALL	9	225	9	234	-
9/15/2020	ALL	Virtual	Website	PBL - Pollution Solution	ALL	16	400	16	416	-
9/15/2020	ALL	Virtual	Website	PBL - Message in a Bottle	ALL	14	350	14	364	-
				TOTAL		39	975	39	1014	



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MCM 1: BMP #1.5 Stormwater Educational Programs and Publications for Adult & General Audience

	Date	Location	School or Outreach Group	Program	Issued Addressed	Number of Programs	Total Students	Total Adults	Total Attendance	Staff Present
1	Quarter 1 - July 1 to Sept 30	ALL	-	Social Media	Bacteria, Nutrients, Excess Sediment	-	-	15105	15,105	-
2	Quarterly Stormwater Newsletter	ALL	-	Publication	Bacteria, Nutrients, Excess Sediment	1	-	900	900	-
3	Monthly Newsletter	ALL	-	Publication	Bacteria, Nutrients, Excess Sediment	3	-	4425	4425	-
	9/1/2020	Publication	The Roanoker		Citizen Science/ Stormwater		-	55000	55000	-
	9/12/2020	Wasena Park	5 Points Music Sanctuary	Outdoor Concert	Recycling/ Litter Prevention	1	-	150	150	Jim
	9/25/2020	Kennedy Park	City of Roanoke	VASH Beautification Day	Litter Prevention/ Stormwater	1	5	50	55	Nikki, Jim, Courtney
	9/30/2020	Morningside Urban Farm	ALL Contracting Districts	WFXR News	ALL	1	-	58744	58744	Courtney
	Quarter 2 - Oct 1 to Dec 31	ALL	-	Social Media & CVC Website	Bacteria, Nutrients, Excess Sediment	-	-	22115	22115	-
	Quarterly Stormwater Newsletter		-	Publication	Bacteria, Nutrients, Excess Sediment	1	-	900	900	Stormwater Newsletter
	Monthly Newsletter		-	Publication	Bacteria, Nutrients, Excess Sediment	3	-	4425	4425	Monthly Newsletter
	10/3/2020	Vinton	ALL Contracting Districts	Vinton Fall Festival	ALL	1	750	750	1500	Nikki, Jim, Claire
	10/10/2020	Rockbridge	Rockbridge Area	Household Hazardous Waste Collection	Recycling/ Litter Prevention	1	0	130	130	Nikki, Jim
	10/17/2020	Salem Red Sox Stadium	ALL Contracting Districts	Wellnest Event	ALL	1	4	40	44	Courtney, Nikki, Jim
	10/22/2020	WFXR	ALL Contracting Districts	Television Inview	ALL	1	-	58744	58744	Courtney
	10/23/2020	Wasena Park	5 Points Music Sanctuary	Outdoor Concert	Recycling/ Litter Prevention	1	-	250	250	Jim
	10/24/2020	Wasena Park	5 Points Music Sanctuary	Outdoor Concert	Recycling/ Litter Prevention	1	-	75	75	Jim
	10/24/2020	Wasena Park	5 Points Music Sanctuary	Outdoor Concert	Recycling/ Litter Prevention	1	-	150	150	Jim
	10/27/2020	Salem/Rotary Park	Roanoke College	Citizen Science/Stream School	Stormwater	1	25	1	26	Courtney, Jim, Danielle
	10/29/2020	WFXR Living Local	ALL Contracting Districts	Television Inview	Stormwater	1	-	58744	58744	Courtney, Jim
	10/29/2020	WFXR News Story	ALL Contracting Districts	Television Inview	Stormwater	1	-	58744	58744	Courtney, Jim
	10/30/2020	Wasena Plaza	Downshift Biccycle Group	Halloween Ride	ALL	1	-	35	35	Jim

10/30/2020	Wasena Park	5 Points Music Sanctuary	5 points	Recycling/ Litter Prevention	1	-	200	200	Jim
10/31/2020	Wasena Park	5 Points Music Sanctuary	5 points	Recycling/ Litter Prevention	1	-	250	250	Jim
11/17/2020	City of Roanoke	City Resident	Anytime Cleanup Set-up	Litter/SW	1	-	1	1	Jim
12/5/2020	Fork in the Market	Downtown	KVB Cigarette Urns	Cig Litter/SW	1	-	5	5	Jim
12/5/2020	202 Social House	Downtown	KVB Cigarette Urns	Cig Litter/SW	1	-	3	3	Jim
12/20/2020	ALL	CVC Annual Campaign	Mailing Insert Information	Bacteria, Nutrients, Excess Sediment	1	-	2200	2200	-
Quarter 3 - Jan 1 to Mar 31	ALL	-	Social Media	Bacteria, Nutrients, Excess Sediment	-	-			
Quarterly Stormwater Newsletter	ALL	-	Publication	Bacteria, Nutrients, Excess Sediment	1	-	900	900	Stormwater Newsletter
Monthly Newsletter	ALL	-	Publication	Bacteria, Nutrients, Excess Sediment	1	-	4425	4425	Monthly Newsletter
1/15/2021	ALL	ALL Contracting Districts	WFXR News Living Local	Litter/SW	1	-	58744	58744	Courtney
1/18/2021	Lawson Building	MLK Day of Service Participatns	Cleanup	Litter, Recycling, Stormwater	1	14	32	46	Courtney, Nikki, Jim, Kim
1/18/2021	Lawson Building	Gainsboro History Tour Participants	Cleanup	Litter, Recycling, Stormwater	1	5	25	30	Courtney, Nikki, Jim, Kim
2/16/2021	Roanoke Memorial Hospital	RMH Staff	Anytime Cleanup	SW/Litter	1		10	10	
2/16/2021	ALL	WFIR Radio	Radio Spot	SW/Litter	2			99229	Charlie
2/21/2021	Virtual	Boy Scouts of America	Sustainability Merit Badge	Sustainability	1	16	8	24	Kim
2/22/2021	Roanoke County	RC Econ Development Newsletter	e-newsletter	SW/Litter	1		1750	1750	
2/25/2021	Virtual	Citizen Science	Monitor Course	SW/Litter	1		43	43	Danielle
2/25/2021	ALL	ALL Contracting Districts	Living Local	Bacteria, Nutrients, Excess Sediment	1	-	58744	58744	Jim
2/25/2021	Virtual	ALL	SCSS (Star City Sustainability Series	Recycling	1		12	12	Courtney, Jim
3/6/2021	Roanoke Mountain Adventures	ALL	Anytime Cleanup Station	SW/Litter	1			12	
3/19/2021	ALL	WFXR viewership (Roanoke County)	Living Local	Bacteria, Nutrients, Excess Sediment	1	-	58744	58744	Courtney
3/19/2021	CoLab	Katherine Devine	Art to Rescue the River	SW/Litter	1				Courtney
3/21/2021	CoLab	Jane Gabrielle	Art to Rescue the River	SW/Litter	1				Courtney
3/25/2021	Virtual	ALL	SCSS (Star City Sustainability Series	Bacteria, Nutrients, Excess Sediment	1	5	17	22	Jim, Courtney
3/26/2021	Wasena Park	ALL	5 Pts Music Sanctuary	Litter/Recycling	1	75	275	350	Jim
3/27/2021	Wasena Park	ALL	5 Pts Music Sanctuary	Litter/Recycling	1	30	170	200	Jim
3/27/2021	City of Roanoke	Kiwanis	Cleanup	SW/Litter	1		20	20	

	Quarter 4 - April 1 to June 30	Roanoke Co	-	Social Media	Bacteria, Nutrients, Excess Sediment	-	-		9,889	-
	Quarterly Stormwater Newsletter	ALL	Salem Veterans Medical Center	Publication	Bacteria, Nutrients, Excess Sediment	1	-	1,900	1,900	
	Monthly Newsletter	ALL	-	Publication	Bacteria, Nutrients, Excess Sediment	3	-	4425	4425	
4/2/2021	Roanoke Co		WSLS	Bacteria, Nutrients, Excess Sediment, Litter, Recycling	1			36,000	36,000	Courtney
4/7/2021	Roanoke Co		WFXR	Bacteria, Nutrients, Excess Sediment, Litter, Recycling	1			36,000	36,000	Courtney
4/8/2021	City of Roanoke	Wasena Neighborhood Forum	meeting	Bacteria, Nutrients, Excess Sediment, Litter, Recycling, Stormwater	1			16	16	Jim
4/15/2021	Roanoke Co	Salem Veterans Medical Center	Virtual Earth Day	Bacteria, Nutrients, Excess Sediment, Litter, Recycling	1			1,900	1,900	Kim
4/15/2021	Roanoke Co	Roanoke County students/families combined with students from other municipalities	WFXR-DEQ Competitive grant Composting-Food for Thought	Bacteria, Nutrients, Excess Sediment, Litter, Recycling	1			36,000	36,000	Courtney, Kim
4/18/2021	River's Edge Sports Complex	People from all municipalities including Roanoke County	Blue Ridge Marathon Slow 5K	Bacteria, Nutrients, Excess Sediment, Litter, Recycling, Stormwater	1			86	86	Courtney, Jim
4/19/2021-4/22/2021	Explore Park	Cleanup	Cleanup	Litter, Recycling, Stormwater	1			20	20	
4/23/2021-4/25/2021	Wasena Park	ALL	5 points	Litter, Recycling, Stormwater	2	50	425	475	475	Jim
4/29/2021	City of Roanoke-Morningside Urban Farm	ALL	Make your own reusable tote bag	Litter, Recycling, Stormwater	1			10	10	Courtney
5/13/2021	City of Roanoke-Morningside Urban Farm	ALL	Make a rain barrel workshop	Litter, Recycling, Stormwater	1			12	12	Kim
6/17/2021	Vinton	seniors	Vinton Sustainability Series	Bacteria, Nutrients, Excess Sediment, Litter, Recycling, Stormwater	1			20	20	Kim

		Total Public Awareness			64	979	626,864	736,973
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Clean Valley Council

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Quarter 2

Quarter 3

Quarter 4

MCM 2: BMP #2.1 Storm Drain Stenciling Program

<i>Date</i>	<i>Location</i>	<i>Area</i>	<i>Marked</i>	<i>Volunteers and Staff</i>
6/30/2021	Salem	460 around fast food restaurants and businesses	fish	Kim, Brian
6/22/2021	Salem	Salem Veterans Medical Center	Veterans logo	Kim, Deena, Courtney, Beck and Owen
TOTAL - Salem			50	6



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MCM 2: BMP 2.2 Stormwater Public Events

	Event Name	Event Date	Event Goal or Purpose	Category	High-priority Stormwater Issue to be Addressed (per MS4 Permit)	Brief description of event and planned activity	Metric
1	Tinker Creek Cleanup	9/5/2020	Public Participation	Restoration	Sediment, Bacteria, Litter, Recycling, Stormwater Pollution Prevention and Nutrients	An emergency cleanup was needed to clean up storm debris	Total Event: 15 Participants, 35 bags/1150 lbs of trash collected
2	Fall Waterways Cleanup	10/3/2020	Public Participation	Restoration	Sediment, Bacteria, Litter, Recycling, Stormwater Pollution Prevention and Nutrients	A valley-wide volunteer effort to remove trash from area streams, creeks, rivers, and adjacent land	Total Event: 90 participants, 140 bags/5400 lbs of trash collected
3	Star City Sustainability Society	1, 3/25/2021, 4/28/2022	Public Education & Outreach	Educational	Sediment, Bacteria, Litter, Recycling, Stormwater Pollution Prevention	Star City Sustainability Society Events bring new information regarding sustainable practices to the public. Six events are held each year.	Total Participants: 115
4	Roanoke River Currents Conference	10/21/2020 & 10/22/2020	Public Education & Outreach	Educational	Sediment, Bacteria, Litter, Recycling, Stormwater Pollution Prevention	Virtual Conference hosted by Clean Valley Council, Roanoke Stormwater, and The Upper Roanoke River Roundtable	Total Participants: 98
5	Mill Mountain Zoo - Zoo Boo	10/24/2020	Public Education & Outreach	Educational	Sediment, Bacteria, Litter, Recycling, Stormwater Pollution Prevention	A valley-wide event held at the Mill Mountain Zoo with outdoor activities and environmental education.	Total Participants: 444
6	Mill Mountain Zoo - Party for the Planet	4/17/2021	Public Education & Outreach	Educational	Sediment, Bacteria, Litter, Recycling, Stormwater Pollution Prevention	A valley-wide event held at the Mill Mountain Zoo with outdoor activities and environmental education.	Total Participants: 195 adults/392 students

7	Mill Mountain Zoo - Go Hog Wild	6/5/2021	Public Education & Outreach	Educational	Sediment, Bacteria, Litter, Recycling, Stormwater Pollution Prevention	A valley-wide event held at the Mill Mountain Zoo with outdoor activities and environmental eduation.	Total Participants: 180 adults/242 students
8	MLK Day of Service	1/18/2021	Public Participation	Restoration	Sediment, Bacteria, Litter, Recycling, Stormwater Pollution Prevention	Public day of service in honor of Dr. Martin Luther King Jr. Volunteers perform cleanups across the community	Total Participants: 46
9	Roanoke RiverBANK Cleanup	3/6/2021	Public Participation	Restoration	Sediment, Bacteria, Litter, Recycling, Stormwater Pollution Prevention	Community Cleanup Event focused along busy sections of the Roanoke River	Total Participants: 51 total participants - 800 lbs of trash collected
10	Virtual Earth Summit	3/12/2021	Public Education & Outreach	Educational	Sediment, Bacteria, Litter, Recycling, Stormwater Pollution Prevention	Day of learning for local high school and college students about careers in environmental science regarding sustainability, renewable energy, litter prevention, stormwater pollution prevention and recycling	Total Participants: 147
11	Clean Valley Day	4/10/2021	Public Participation	Restoration	Sediment, Bacteria, Litter, Recycling, Stormwater Pollution Prevention and Nutrients	Stream and watershed clean-up	Total Participants: 404-10,400lbs of trash and 28 tires
12	Roanoke Riverfest and Environmental Film Festival	6/19/2021	Public Participation	Educational	Sediment, Bacteria, Litter, Recycling, Stormwater Pollution Prevention and Nutrients	A valley-wide event held on the Roanoke River - Recycled Regatta Boat Race, SW Outreach Materials, fly-fishing demonstrations,freshwater snorkeling, yoga by the river, macroinvertebrates for citizen scientists, SW Educational Games, Materials/Giveaways	Total Participation: 62
13	Virtual Earth Day Roanoke	4/22/2021	Education & Outreach; Public Participation	Educational	Sediment, Bacteria, Litter, Recycling, Stormwater Pollution Prevention and Nutrients	A one day virtual event held in coordination with Roanoke Valley-Alleghany Regional Commission hosting local speakers on various environmental topics.	Total Participants: 314
14	Anytime Cleanups, Community Cleanups	July 2020 - June 2021	Public Participation	Restoration	Sediment, Bacteria, Litter, Recycling, Stormwater Pollution Prevention and Nutrients	Groups sign up to do a cleanup on the streets of their choice anytime throughout the year. CVC provides grabbers, bags, gloves, hand sanitizer and SW Outreach materials	Total Participants: 345 5,175 lbs of trash collected
15	Adopt-A-Street	July 2020-June 2021	Public Participation	Restoration	Sediment, Bacteria, Litter, Recycling, Stormwater Pollution Prevention and Nutrients	Community members sign up to adopt to keep a 2 mile stretch of City of Roanoke clean and free of litter 4 times a year	Total Participants: 17
16	Deschutes Tinker Creek Cleanup	8/14/2021	Public Participation	Restoration	Sediment, Bacteria, Litter, Recycling, Stormwater Pollution Prevention and Nutrients	Community members volunteer for a day of service to pick up litter from the streets and out of Tinker Creek	Total participants: 65-5.43 Tons of trash/34 tires
Total Public Involvement Events							3222

Appendix B: List of Illicit Discharges

Appendix B: Illicit Discharges

Illicit Discharge	Part I.E.3.e(3)(a) Source	Part I.E.3.e(3)(b) Date Observed & Date Reported:	Part I.E.3.e(3)(c) Detected during Screening, Reported by Public or Other (Describe):	Part I.E.3.e(3)(d) Investigation Resolution:	Part I.E.3.e(3)(e) Description of Follow- up Activities:	Part I.E.3.e(3)(f) Date Investigation Closed:
Owner of vacant lot is pouring oil/gasoline on tree	427 S Market St	Reported 12/21/2020	Public	Yes	First offense warning letter sent to owner	1/7/2021
Complaint of tar near storm drains	Residential Single Family Construction at 1115-1121 Stoutamire Dr.	Reported 3/22/2021	Public	Yes	Reinspection on 3-29- 21 showed discharge was cleaned up and storm drains were clear	3/29/2021