



Town of Christiansburg, Virginia

Municipal Separate Storm Sewer System Annual Report

For

General Permit No. VAR040025

Permit Year

July 1, 2023 through June 30, 2024

This annual report is submitted in accordance with 9VAC25-890-40 as part of the requirement for permit coverage to discharge stormwater to surface waters of the Commonwealth of Virginia consistent with the VAR04 General Permit effective date November 1, 2023.

Submitted: October 2, 2024

TABLE OF CONTENTS

1.0 GENERAL ANNUAL REPORTING REQUIREMENTS	1
1.1. General Information (Part I.D.3.a)	1
1.2. Reporting Period (Part I.D.3.b)	1
1.3. Signed Certification (Part I.D.3.c)	1
1.4. Reporting for MCMs #1 - #6 (Part I.D.3.d)	1
1.5. Evaluation of the MS4 Program Implementation (Part I.D.3.e)	2
2.0 MINIMUM CONTROL MEASURES	3
2.1. MCM #1: Public Education and Outreach	3
2.1.1. High Priority Stormwater Issues (Part I.E.1.g(1))	3
2.1.2. High Priority Stormwater Issue Communication Strategies (Part I.E. 1.g(2))	3
2.1.3. MCM #1 Evaluation (Part I.D.3.e and Part I.E.1.g.(4))	4
2.2. MCM #2: Public Involvement and Participation	5
2.2.1. Public Comment/Complaint Summary (Part I.E.2.i(1)&(2))	5
2.2.2. MS4 Program Webpage (Part I.E.2.i(3))	5
2.2.3. Public Involvement Activities Implemented (Part I.E.2.i(5)&(6))	5
2.2.4. Public Involvement Activity Metric and Evaluation (Part I.E.2.i(7))	5
2.2.5. MS4 Collaboration (Part I.E.2.i(8))	6
2.2.6. MS4 Program Plan BMP Measurable Goals	7
2.2.7. MCM #2 Evaluation (Part I.D.3.e)	7
2.3. MCM #3: Illicit Discharge Detection and Elimination	8
2.3.1. MS4 Map and Information Table (Part I.E.3.e(1))	8
2.3.2. Dry Weather Screening (Part I.E.3.e(2))	8
2.3.3. Illicit Discharges (Part I.E.3.e(3))	8
2.3.4. MS4 Program Plan BMP Measurable Goals	9
2.3.5. MCM #3 Evaluation (Part I.D.3.e)	9
2.4. MCM #4: Construction Site Stormwater Runoff Control	10
2.4.1. Implementation of VESCP and Town Ordinance (Part I.E.4.a(1))	10
2.4.2. Site Stormwater Runoff Inspections (Part I.E.4.e(1))	10
2.4.3. Enforcement Actions (Part I.E.4.e(2))	10
2.4.4. MCM #4 Evaluation (Part I.D.3.e)	10
2.5. MCM #5: Post-Construction Stormwater Management	11
2.5.1. Implementation of VSMP and Town Ordinance (Part I.E.5.e(1))	11
2.5.1.1. Privately-Owned VSMP Inspections (Part I.E.5.e (1)(a))	11
2.5.1.2. Privately-Owned VSMP Enforcement Actions (Part I.E.5.e (1)(b))	11
2.5.2. Stormwater Management Facility Inspections (Part I.E.5.e(2))	11
2.5.3. Stormwater Management Facility Maintenance (Part I.E.5.e(3))	12

2.5.4.	Virginia Construction Stormwater General Permit Database (Part I.E.5.e(4))	13
2.5.5.	DEQ BMP Warehouse (Part I.E.5.e(5)&(6))	13
2.5.6.	MS4 Program Plan BMP Measurable Goals	14
2.5.7.	MCM #5 Evaluation (Part I.D.3.e)	14
2.6.	MCM #6: Pollution Prevention and Good Housekeeping	15
2.6.1.	Operational Procedures (Part I.E.6.y(1))	15
2.6.2.	Newly Developed SWPPPs (Part I.E.6.y(2)&(3))	15
2.6.3.	Modified or Delisted SWPPPs (Part I.E.6.y(4)&(5))	15
2.6.4.	Nutrient Management Plans (Part I.E.6.y(6))	16
2.6.5.	Training Events (Part I.E.6.y(7))	16
2.6.5.1.	Training Dates (Part I.E.6.y(7)(a))	17
2.6.5.2.	Quantity Trained (Part I.E.6.y(7)(b))	17
2.6.5.3.	Training Objective (Part I.E.6.y(7)(c))	17
2.6.6.	MS4 Program Plan BMP Measurable Goals	17
2.6.7.	MCM #6 Evaluation (Part I.D.3.e)	18
3.0	TMDL SPECIAL CONDITIONS	19
3.1.	Crab Creek and Upper Roanoke River E.coli TMDL Action Plan	19
3.1.1.	Bacteria TMDL Implementation (Part II.B.11)	19
3.2.	Crab Creek and Upper Roanoke River Sediment TMDL Action Plan	21
3.2.1.	Sediment TMDL Implementation (Part II.B.11)	21
3.3.	Roanoke River PCB TMDL Action Plan	24
3.3.1.	PCB TMDL Implementation (Part II.B.11)	24

APPENDICES

[Appendix A: Documentation of Public Education and Outreach Activities](#)

[Appendix B: Documentation of Public Involvement Activities](#)

[Appendix C: List of Illicit Discharges](#)

Appendix D: Documentation of Land Disturbance Complaints/MS4Program Plan Comments

Appendix E: Documentation of Biennial staff training and Nutrient Management Plan implementation

TABLES

Table 1:	Summary of MS4 Program Plan Changes	2
Table 2:	High Priority Stormwater Issues.....	3
Table 3:	Public Input or Complaints and Responses	5
Table 4:	Public Involvement Activities Implemented	6
Table 5:	MS4 Program Plan BMP Measurable Goals for MCM #2.....	7
Table 6:	Illicit Discharges.....	8
Table 7:	MS4 Program Plan BMP Measurable Goals for MCM #3.....	9
Table 8:	Project(s) Not in Conformance with VESCP and Town Ordinance.....	10
Table 9:	Maintenance Activities Performed on Stormwater Management Facilities	12
Table 10:	MS4 Program Plan BMP Measurable Goals for MCM #5.....	14
Table 11:	Good Housekeeping Operational Procedures Developed or Modified	15
Table 12:	New SWPPPs Developed	15
Table 13:	SWPPPs Modified or Delisted.....	16
Table 14:	Status of Turf and Landscape Nutrient Management Plans	16
Table 15:	Training Events.....	17
Table 16:	MS4 Program Plan BMP Measurable Goals for MCM #6.....	17
Table 17:	Bacteria TMDL Action Plan Summary of Actions	19
Table 18:	Sediment TMDL Action Plan Summary of Actions.....	21
Table 19:	2023-2024 POC Reductions	23
Table 20:	PCB TMDL Action Plan Summary of Actions	24

BMP	Best Management Practices
DEQ	Virginia Department of Environmental Quality
ESC	Erosion and Sediment Control
IDDE	Illicit Discharge Detection and Elimination
MCM	Minimum Control Measure
MS4	Municipal Separate Storm Sewer System
POC	Pollutants of Concern
SWPPP	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load
TOC	Town of Christiansburg
VESCP	Virginia Erosion and Sediment Control Program
VSMP	Virginia Stormwater Management Program
VPDES	Virginia Pollution Discharge Elimination System
WLA	Wasteload Allocation

1.0 GENERAL ANNUAL REPORTING REQUIREMENTS

1.1. General Information (Part I.D.3.a)

Permittee Name: Town of Christiansburg

Permit Number: VAR040025

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

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

July 1, 2023 through June 30, 2024

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

A signed certification as per Part IV K

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

Printed Name: Randy Wingfield

Title: Town Manager

Signature:  Date: 9-25-24

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

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

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

1.5 Evaluation of the MS4 Program Implementation (Part I.D.3.e)

An evaluation 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

Please note this table only includes changes for the 23-24 reporting year. The Town will provide the previous annual report summaries upon request.

Updated Program Plan: The Town initially intended to include new ordinance references in the updated Program Plan. As the ordinance is still being drafted, the Town will be updating the Program Plan first. The Town has a draft prepared and will post an updated Program Plan with updated references to the new General Permit by 11/1/2024

MCM #1 and #2- The Town is expanding the strategies used to meet MCM#1 and #2 and is amending the Program Plan to allow the wide range of acceptable strategies. This has become necessary as the Town now has a wider range of volunteers and programs.

MCM #3 Illicit Discharge Detection and Elimination: The Town is reviewing documentation procedures on land disturbance issues on non-regulated sites. The Program Plan and IDDE manual/MCM 4 SOPs may be amended to address this issue. Changes to enforcement protocols are being looked at as the Town amends Town code to comply with the new state stormwater regulation. The Town's MS4 map was not updated to include the new MS4 Regulated Service area based on the 2020 Census Urban areas. There were corporate boundary line adjustments with Montgomery County, and the Town is waiting on an updated GIS layer from Montgomery County.

MCM #5 Post-construction Stormwater Management: The Town has completed engineering studies of multiple older Town owned and/or maintained stormwater BMPs for maintenance and is reviewing the studies.

MCM #6: The Town already has written Standard Operating/Good Housekeeping Procedures and is currently reviewing them to ensure that they meet the objectives established in Part I.E.6.a and b. The training activity conducted in June 2024 met the Part I.E.6.d(1) criteria and some of Part I.E.6.d(4). The Town is reviewing current training to determine if new training is required in 2025 to meet the remaining Good Housekeeping training objectives. The Town is developing a maintenance schedule to meet Part I.E.6.j.

Sediment Action Plan: The Lomoor Channel stabilization pollutant of concern reductions were not calculated from the Urban Stream Restoration protocols due to the stabilization being done with Flexamat. The Town is exploring other protocols that may allow quantification of sediment reductions as this was a significant gully that directly discharged into a stream in the Roanoke River watershed. The Blue Leaf Stream Restoration needs repair and a scope of work is being prepared. It was not included in the sediment reductions for the reporting year. The Street Sweeping sediment reductions were calculated using the Qualifying Street Lanes approach in GM15-2005 Chesapeake Bay TMDL Special Conditions Guidance as outlined in the Town's Sediment Impairment Action Plan. The Town has a study in place to guide adoption of the newer criteria with the updated Action Plan in spring 2025.

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	Completion Status			
1	Education on special water quality concerns (PCBs/Household Hazardous Waste)	Media & Traditional Written Materia	Article in the Christiansburg Connection newsletter and posted on the Town's Facebook page.	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
2,3	Education on special water quality concerns (E. coli) and stream health (sediment/lawn care)	Public Education Activities	The Town manned booths at the Steppin' Out Festival (8/4-5/2023 with Town of Blacksburg, Virginia Tech, and Montgomery County), and the New River Valley Home Expo (3/23-24/2024 with Town of Blacksburg and Montgomery County) to talk with citizens about local water pollution issues of <i>E.coli</i> and sediment in streams. Dog waste bags were distributed.	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No

3	Education on Stream Health	Signage	“Grow Zone” signs installed around a wetland at the Town’s Huckleberry Park April 2024	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
3	Education on Stream Health (Stream restorations)	Media & Traditional Written Material	Article in the Christiansburg Connection newsletter and posted on the Town’s Facebook page	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
1,2,3	Education on special water quality concerns, (E. coli, PCBs) and stream health (sediment)	Media and Traditional Written Materials	Public Stewardship blurb on back cover of the Town’s 2023 Public Drinking Water Quality Report. Report disseminated on paper in Town Hall, available on Town webpage, and posted on Town Facebook page.	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
3	Education on stream health (sediment)	Speaking Engagements	Villas at Peppers Ferry HOA coffee hour talk about understanding construction site runoff on adjacent property. P. Colatosti estimated 35 people in attendance. 5/15/2024	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
2	Education on special water quality concerns, (E. coli)	Public Education Activities	TOC Engineering staff had a table at the Christiansburg Farmers Market Pet Day to talk to citizens about bacteria pollution in streams and hand out pet waste bags. 10/5/2023	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No

2.1.3. MCM #1 Evaluation (Part I.D.3.e/I.E.1.g(3)and(4))

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 communications accomplished to the intended public audience indicated in the MS4 Program Plan? ☒Yes (Effective) ☐No (Ineffective)

Program changes are in Section 1.5. No high-priority issues were changed. No public education and outreach activities specifically included education regarding climate change.

2.2. MCM #2: Public Involvement and Participation

2.2.1. Public Comment/Complaint Summary (Part I.E.2.i(1) and (2))

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

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

☒ Yes (Refer to Table 3) ☐ No ☐ Not Applicable

Table 3: Public Comments or Complaints and Responses
Complaint Illicit Discharges/Spills: 7 Reported Complaints Response: Site visits by Town employee or Fire Department per Town's IDDE Manual. Appendix C contains the list of Illicit Discharge Reports
Complaint Land Disturbing Activities : 14 Reported Complaints Response: Response by Environmental Inspector/Environmental Program Manager/other Town Employee within 24 hours of complaint or next business day. Appendix D includes documentation of Land Disturbance Complaints.
Comment or Complaint on MS4 Program Plan: 5 Comments/Complaints This includes comments/complaints/inquiries to Town actions and policies that stem from the Program Plan. Appendix D includes documentation of Comment/Complaint on MS4 Program Plan.

2.2.2. MS4 Program Webpage (Part I.E.2.f(3))

The webpage address is <https://www.christiansburg.org/250/Stormwater-Information-and-Education>

2.2.3. Public Involvement Activities Implemented (Part I.E.2.f(5) and (6))

A description of the implemented public involvement activities is provided in Table 4. There were no efforts to specifically reach out and engage all economic and ethnic groups. There were no specific activities conducted that included education on climate change. Individual presenters at Stormwater Days may have included climate change education but this was not documented.

2.2.4. Public Involvement Activity Metric and Evaluation (Part I.E.2.f(7))

A report of the metric as defined for each activity and an evaluation as to whether or not the activity is beneficial to improving water quality is provided in Table 4. Appendix B includes documentation of the public involvement activities.

Table 4: Public Involvement Activities Implemented						
Activity Description	Metric	Collaboration	Beneficial			
Stream Monitoring Towne Branch Native Plant monitoring and remediation	Continue survey/remove invasive plants	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
Restoration: Towne Branch Stream Cleanup in Depot Park 11/04/2023	Four volunteers, eight bags and five boxes of trash collected	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
Restoration: Towne Branch Stream Cleanup in Depot Park on 4/6/2024	Five volunteers and 10 bags of trash plus one bicycle	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
Restoration: Diamond Hills stream cleanup on 12/2/2023	Six volunteers and estimate six bags of trash	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
Stream Monitoring: New River Conservancy Water Watchers	Monitoring reports returned to Town and New River Conservancy. Monitoring on Crab Creek	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
Stream Monitoring: Save Our Streams monitoring group	Monitoring reports returned to Town and SOS. Monitoring on Towne Branch, Crab Creek and an unnamed tributary to Crab Creek	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
Educational Event: CAC FINS summer camp stream day 8/3/2023	29 participants	No	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
Educational Event: Montgomery County Public Schools Stormwater Days	4/7/2024: 318 7 th graders from Blacksburg Middle School, and 66 7 th graders from Shawsville Middle School, 4/10/2024: 99 7 th graders from Auburn Middle School and 254 7 th graders from Christiansburg Middle School as well as chaperones	Virginia Tech, Montgomery County, Town of Blacksburg	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No
Stream/Wetland Monitoring: Turtle Research Project in Stormwater Ponds	Report/thesis shared with Town at project completion (project is not complete)	Virginia Tech	<input checked="" type="checkbox"/>	Yes	<input type="checkbox"/>	No

2.2.5. MS4 Collaboration (Part I.E.2.f(8))

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

If applicable, the name of other MS4 permittees collaborated with for any of the public involvement opportunities are provided in Table 4.

2.2.6. 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 #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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Applicable
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
2.1	Is the annual report for each year of the term covered by this permit posted to the webpage no later than 30 days after submittal to the department?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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

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

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

Were all MCM #2 responses Yes or Not Applicable?

☒ Yes (Effective) ☐ No (Still effective, see below)

The updated Program Plan that reflects changes in the 2023 General Permit will be posted by November 1, 2024.

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response 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
☒ N/A (no additional outfalls) See Section 2.3.5. No new outfalls were added. Field investigation at Public Works yard outfalls resulted in updating the storm sewer map. The new regulated service area was not added. See Table 1.

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 69.

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

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

Were there any illicit discharges to the MS4 including spills reaching the MS4?
☒ Yes (Refer to Table 6) ☐ Not Applicable (No illicit discharges)

Table 6: Illicit Discharges

Illicit Discharge See Appendix C

Part I.E.3.e(3)(a) Source: See Appendix C

Part I.E.3.e(3)(b) Date Observed & Date Reported: See Appendix C

Part I.E.3.e(3)(c) Detected during Screening, Reported by Public or Other (Describe): See Appendix C

Part I.E.3.e(3)(d) Investigation Resolution: See Appendix C

Part I.E.3.e(3)(e) Description of Follow-up Activities: See Appendix C

Part I.E.3.e(3)(f) Date Investigation Closed: See Appendix C

2.3.4. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 7.

Table 7: MS4 Program Plan BMP Measurable Goals for MCM #3		
BMP	Measurable Goal	Completeness Status
3.1	Was a GIS file geodatabase submitted to DEQ?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (due on 11/1/25)
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 type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable (No new or discovered)
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 all 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?	<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 responses Yes or Not Applicable?

☐ Yes (Effective) ☒ No (Investigations and corrective actions ongoing and/or completed outside reporting year) The Town has a recurring issue with petroleum odors in the storm drains near Town Hall/downtown, a mulch discharge issue from a business, a trash issue in at least two streams, and other recurring complaints. These investigations are ongoing as solutions are sought, although there were no new complaints during the reporting year. The storm sewer system at the Public Works Operations Center was remapped. The Town is updating its tracking and documentation procedures. The Program Plan and IDDE manual/MCM 4 SOPs may be amended to address this issue.

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response in Section 1.5.

2.4. MCM #4: Construction Site Stormwater Runoff Control

2.4.1. Implementation of VESCP and Town 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.

Table 8: Project(s) Not in Conformance with VESCP and Town Ordinance
Project Name: NA
Explanation: NA

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

Total number of inspections conducted:

The estimated number of site stormwater runoff inspections conducted for regulated land disturbance activities is 916 . The Town had a software issue. At this time this is a low estimate of the number of inspections we can support with inspection documentation. We are still attempting to recover data. The Town did meet the minimum number of regulatory inspections on all permitted sites.

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

The total number and type of enforcement actions implemented:

The total number of enforcement actions implemented is 3.

The total number of Notices to Comply issued is 3.

The total number of Stop Work Orders issued is 0. There is one Stop Work Order still in effect from previous reporting years.

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

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

Did the Town implement a VESCP consistent with the Virginia Erosion and Sediment Control Law and Virginia Erosion and Sediment Control Regulations?

☒ Yes (Effective) ☐ No (Ineffective)

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response in Section 1.5.

2.5. MCM #5: Post-Construction Stormwater Management

2.5.1. Implementation of VSMP and Town Ordinance (Part I.E.5.a(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.e (1)(a))

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

The number of privately-owned stormwater management facility inspections conducted is 71

2.5.1.2. Privately-Owned VSMP Enforcement Actions (Part I.E.5.e (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 Not Applicable.

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

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

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

The total number of inspections conducted on stormwater management facilities is 35.

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

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

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

☒ Yes ☐ No (Being assessed) ☐ Not Applicable (No 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 9.

Table 9: Maintenance Activities Performed on Stormwater Management Facilities	
Stormwater Management Facility	Significant Maintenance Activity
Belmont Pond	Removed all the sediment in the forebay, mowed, cut brush back, filled animal burrows. (completed 3/8/2024)
Church of the Nazarene Pond	Repaired erosion, mowed briars, removed sediment from forebay (completed 3/25/2024)
Industrial Pond	Removed woody vegetation, mowed, removed bee's nest, repaired erosion (completed 3/27/2024)
Quin W Stuart Pond	Removed woody vegetation and filled animal burrows (completed 3/15/2024)
Huff Heritage Pond	Repaired gate, removed woody vegetation (completed 3/28/2024)
White Pine Pond	Removed trees, removed woody vegetation (completed 3/29/2024)
Warren St Pond	Removed tree, filled animal burrows (completed 4/5/2024)
Auburn Dr Pond	Removed woody vegetation (completed 4/5/2024)

2.5.4. Virginia Construction Stormwater General Permit Database (Part I.E.5.e(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 III B 1 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 (All stormwater management facility information for stormwater facilities installed during the reporting year was submitted through the Virginia Construction Stormwater General Permit database. Emma Danz of DEQ facilitated the submittal of the Town's previously missing information to the Virginia Construction Stormwater General Permit database. The response was that this counted as our submission, but that the actual time frame for updating the database was unknown.)

2.5.5. DEQ BMP Warehouse (Part I.E.5.e(5) and (6))

A confirmation statement that the permittee electronically reported new stormwater management facilities using the DEQ BMP Warehouse in accordance with Part III B 1 and the date on which the information was submitted:

No later than October 1 of each year, new 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 III B 1 and 2 including stormwater management facilities from land disturbing activities less than one acre and for which a General VPDES Permit for Discharges of Stormwater from Construction Activities was not required?

☐ Yes, Date Submitted: NA ☐ No ☒ Not Applicable (The Town completed the stabilization of the Lomoor channel on 11/9/2022 with the intent of claiming a TMDL load reduction per the Sediment Action plan, however the load reduction calculations are not complete. See Table 1. No other new BMPs qualified to be directly reported in the DEQ BMP Warehouse.)

A confirmation statement that the permittee electronically reported stormwater management facilities inspected using the DEQ BMP Warehouse in accordance with Part III B5.

The Town has not finished entering SWM facilities inspected into the DEQ BMP Warehouse.

2.5.6. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 10.

Table 10: 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 owned and/or operated by the Town implemented?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5.1	Was the inspection and maintenance program on privately owned post-construction stormwater management facilities implemented?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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 BMP Warehouse updated with new BMPS?	<input type="checkbox"/> Yes <input type="checkbox"/> <input checked="" type="checkbox"/> Not Applicable (No new or discovered) <input type="checkbox"/> No
5.2	Were all inspections of stormwater management facilities reported to the BMP Warehouse?	<input type="checkbox"/> Yes <input checked="" 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 responses Yes or Not Applicable?

☐ Yes (Effective) ☐ No (Ineffective) ☒ No (Plan still effective, see below)

This is the first year the Town has had to report inspections to the BMP Warehouse. The Town is close to finishing reconciling and correcting the BMP information in the Warehouse to match the Town's records. We anticipate finishing uploading missing information and adding inspections by December 1, 2024.

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response in Section 1.5.

2.6. MCM #6: Pollution Prevention and Good Housekeeping

2.6.1. Written Operational Procedures (Part I.E.6.y(1))

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

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

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

Table 11: Good Housekeeping Operational Procedures Developed or Modified

NA

2.6.2. Newly Developed SWPPPs (Part I.E.6.y(2) and (3))

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

All high-priority facilities were reviewed to determine if SWPPP coverage was needed during the reporting period. There are no new high-priority facilities.

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

☐ Yes (Refer to Table 12) ☒ No

Table 12: New SWPPPs Developed

SWPPP Name	SWPPP Address

2.6.3. Modified or Delisted SWPPPs (Part I.E.6.y(4)and (5))

A summary of any SWPPPs modified in accordance with Part I.E.6.j,l,or m or the rationale of any high priority facilities delisted in accordance with Part I.E.6.l or m during the reporting period:

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

☐ Yes (Refer to Table 13) ☐ No ☒ Not Applicable (No illicit discharges)

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

☐ Yes (Refer to Table 13) ☐ No ☒ Not Applicable (No delisted high priority facilities)

Table 13: SWPPPs Modified or Delisted	
SWPPPs Modified/Delisted	Rationale for Delisting

2.6.4. Nutrient Management Plans Status (Part I.E.6.y(6))

Table 14: Status of Turf and Landscape Nutrient Management Plans	
Nutrient Management Plan Name	Status as of June 30, 2024
Harkrader Sports Complex	Approved
Kiwanis Park	Approved

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

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

Was training conducted?

☒ Yes (Refer to Table 15) ☐ 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.d is provided in Table 15.

2.6.5.1. Training Dates (Part I.E.6.y(7)(a))

The date of the training event:

If “Yes” is checked above, the date of the training event is provided in Table 15.

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 15.

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 15.

Table 15: Training Events		
Dates	# of Attendees	Training Objective
June 2024	109	Illicit Discharge Detection and Elimination, including High-priority area SWPPPs and some Good Housekeeping information. Video presentation at multiple locations and times

2.6.6. MS4 Program Plan BMP Measurable Goals

The MS4 Program Plan BMPs measurable goals are provided in Table 16.

Table 16: 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 (These are done monthly) <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 (No illicit discharges at high priority facilities.) <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 (No illicit discharges at high priority facilities.) <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"/> Not Applicable (No fertilizer applied) <input type="checkbox"/> No

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

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

Were all MCM #6 responses Yes or Not Applicable?

☒ Yes (Effective) ☐ No

If any items are determined to be ineffective, describe changes necessary to the MS4 Program. Include the response in Section 1.5.

3.0 TMDL SPECIAL CONDITIONS

3.1. Crab Creek and Upper Roanoke River E.coli TMDL Action Plan

3.1.1. Bacteria TMDL Implementation (Part II.B.11)

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

A summary of actions conducted to implement each local TMDL action plan is provided in Table 17.

Table 17: Bacteria TMDL Action Plan Summary of Actions		
BMP	Measurable Goals	Completeness Status
1	Is education on special water quality concerns, specifically E.coli, addressed in the Town's Public Education and Outreach Plan?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Were methodologies determined to assess the most effective structural and nonstructural best management practices to employ?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Did employees receive IDDE training to enhance efforts to minimize illicit discharges?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4	Did the Town create an IDDE and construction site issue complaint link on the Town website to enhance public IDDE reporting capabilities?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5	Did the Town develop a long-term capital and operating program to offset capital funding and operating costs associated with structural BMP installation and maintenance?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	Are the legal authorities outlined in plan in place?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Is the FOG Ordinance in place?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
8	Does the stormwater website contain FOG information?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (BMP revised in May 2020 revision.)
9	Was the pet waste disposal public education completed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
10	Does the stormwater website contain IDDE reporting information?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
11	Was the Crab Creek Interceptor Study completed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

12	Was the Watershed Treatment Model spreadsheet's pet waste component used to quantify bacterial reductions?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
13	Have the locations of pet waste stations in public parks been mapped?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
14	Have options for additional pet waste stations on public land been evaluated?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
15	Have educational materials or messaging been distributed at targeted public participation events?	<input checked="" type="checkbox"/> Yes (in 2019, 2022, 2023, 2024 at NRV Home Expo and 2022, 2023 Steppin' Out and 10/5/24 Christiansburg Farmers Market, dog waste collection bags were distributed.) <input type="checkbox"/> No
16	Has a mapped based approach been used to evaluate sanitary sewer overflows in the Wilson Creek watershed within Town limits?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
17	Has implementation of the Crab Creek Interceptor Study continued?	<input checked="" type="checkbox"/> Yes (see below) <input type="checkbox"/> No
18	Has coordination with the WWTF occurred to provide web-based educational information to reduce FOG sewerage system disposal?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
19	Has a procedure been created to quantify connections made to sanitary sewer from sites previously using a septic system?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

The following actions have been completed under the Crab Creek Interceptor Study:

- Phase I of College Street construction
- College Street Sanitary Sewer Evaluation Survey
- Phase I of Silver Lake Interceptor construction
- Arrowhead Sewershed Improvements, both design and construction, have been funded. Design work is at 100%

Additionally, we have completed:

- Construction of Phase I Silverlake is complete.
- Construction of Phase II of Silverlake Interceptor was close to completion in June 2024.
- Lomoor Channel Sewer Improvements in the Tower Sewershed were completed and we have seen improvements with a steep reduction in pump station overflows in the area
- Phase II Mill Lane portion of the College Street Basin was completed.

3.2. Crab Creek and Upper Roanoke River Sediment TMDL Action Plan

3.2.1. Sediment TMDL Implementation (Part II.B.11)

A summary of actions conducted to implement each local TMDL action plan: A summary of actions conducted to implement each local TMDL action plan is provided in Table 18.

Table 18: Sediment TMDL Action Plan Summary of Actions		
BMP	Measurable Goals	Completeness Status
1	Did the Town implement SWPPPs for the Town Public Works Station (Station B)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Did the Town implement SWPPPs for the historic Town landfill?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Does the Town Code address Erosion and Sediment Control and Virginia Stormwater Management Program standards and permitting requirements?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4	Were methodologies determined to assess the most effective structural and nonstructural best management practices to employ?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5	Is education on special water quality concerns, specifically sediment, addressed in the Town's Public Education and Outreach Plan?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	Does the Town implement an ESC and VSMP Inspection and Enforcement Program for land disturbing activities?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Does the Town implement a Post-construction Inspection and Maintenance Program for structural BMPs?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	Did the Town develop a long-term capital and operating program to offset capital funding and operating costs associated with structural BMP installation and maintenance?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Does the Town provide Good Housekeeping and Pollution Prevention Training to employees?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
8	Did the Town create an IDDE and construction site issue complaint link on the Town website to enhance public IDDE reporting capabilities?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
9	Did the Town participate in the development of the Crab Creek and Roanoke River Implementation Plans?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

10	Were street sweeping measurable goals implemented?	<input checked="" type="checkbox"/> Yes, ongoing, see below <input type="checkbox"/> No
11	Is the Diamond Hills Phase I Project implemented?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
12	Is the Diamond Hills Phase II Project implemented?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Removed BMP in May 2020 revision.)
13	Were neighboring MS4 coordination efforts implemented?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
14	Was the railroad coordination efforts for funding a stream restoration project implemented?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (BMP removed in May 2020 revision.)
15	Was the Watershed Treatment Model spreadsheet used to evaluate sediment reductions associated with public and private BMPs?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
16	Have sediment reduction calculations <i>as applicable to the MS4 waste load reduction</i> been confirmed for Diamond Hills, Blue Leaf and Towne Branch stream restorations?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
17	Has the Blue Leaf Stream Restoration sediment reduction credit been recertified?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (evaluation complete)
18	Have the Lomoor Channel and Christiansburg Industrial Park Detention Basin BMPs been installed?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No (see update below)
19	Has the Town submitted to the Department the anticipated end date by which the permittee will meet the WLA for sediment?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
20	Has the Town developed a targeted approach to inspecting privately owned stormwater management	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

The following actions have occurred in reference to the Sediment Action Plan

- The Town contracted a study of possible ways to implement and quantify a targeted street sweeping/inlet cleaning program based on TMDL waste load allocations and the current Chesapeake Bay Program 2016 Street Sweeping Expert Panel Report in April 2021. Results obtained in July 2021. This information is under review.
- Lomoor Channel stabilization was completed in October 2022.
- Christiansburg Industrial Park Basin and Stream Restoration went to construction in Spring 2024.
- Blue Leaf Stream Restoration sediment reduction credit recertification has been delayed pending maintenance needs detailed in the recertification inspection.
- Sediment reduction calculations for Diamond Hills, Blue Leaf, and Towne Branch stream restorations are complete. The Town has not confirmed with DEQ whether the entire sediment reduction can be applied to meeting the Town's waste load allocation.
- Town Branch Stream Restoration passed its 5 year recertification inspection.

A summary of quantifiable pollutant of concern reductions is provided in Table 19.

Table 19: 2023-2024 POC Reductions	
BMP #10: Street Sweeping – Crab Creek	
Required tons of material swept	27.57 tons
Estimated tons of material swept	194 tons
BMP #10: Street Sweeping – Roanoke River	
Required tons of material swept	22.9 tons
Estimated tons of material swept	21 tons

3.3. Roanoke River PCB TMDL Action Plan

3.3.1. PCB TMDL Implementation (Part II.B.11)

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

A summary of actions conducted to implement each local TMDL action plan is provided in Table 20.

Table 20: PCB TMDL Action Plan Summary of Actions		
BMP	Measurable Goal	Completeness Status
1	Was an evaluation on the substitution or addition of education on PCB sources and elimination as a high-priority water quality issue completed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Was information included about PCB as a Pollutant of Concern in annual mailers that are attached to the annual drinking water quality information?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A (Mailers are no longer distributed.)
3	Did the Town participate in the New River TAC to advocate for consistent TMDL requirements across all town watersheds?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
4	Did coordination occur with the town Public Works Wastewater Treatment Plant (WWTP) to gather information on potential PCB sources through the WWTP Industrial Waste Surveys?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5	Was IDDE ordinance language researched at other localities for specific PCB prohibition?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
6	Was existing PCB-free purchasing ordinance language surveyed at other localities and evaluated for the potential to add such language to Town Code?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Were methods examined to determine historical land uses to identify potential legacy sources of PCBs?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Removed BMP in May 2020 revision.)
8	Was the Montgomery Regional Solid Waste Authority (MRSWA) contacted regarding disposal of PCB products and the potential for partnership?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
9	Was the Good Housekeeping SWPPP materials reviewed for potential revisions to more specifically address PCBs as a pollutant of concern?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

10	Were the properties identified in the 2016 Action Plan as needing to be investigated for significant sources of the Pollutant of Concern investigated?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
11	Were PCBs added to the staff Good Housekeeping/IDDE training?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
12	Was the Montgomery Regional Solid Waste Authority contacted for updates to their Household Hazardous Waste collection and outreach efforts?	<input checked="" type="checkbox"/> Yes (These events are now usually listed on the FAQ page for the Town's Fall and Spring clean up.) <input type="checkbox"/> No
13	Was an outreach effort beyond that detailed in the MS4 program plan initiated?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Appendix A: Documentation of Public Education and Outreach Activities



THE PLACE TO BE.

CHRISTIANSBURG VA

2023 DRINKING WATER QUALITY REPORT



TABLE OF CONTENTS

A Note from the Town Manager	1
Treatment Plant Information	2
About Your Water	3
Health Information	4
Sampling Results	5
Public Stewardship	7

A NOTE FROM THE TOWN MANAGER



Randy Wingfield
Town Manager

Every year, our water systems undergo extensive testing to ensure our drinking water is safe. The results of these tests, performed during the 2023 calendar year, demonstrate that our drinking water is safe and meets all federal and state requirements.

It is important to me that residents are fully informed about the quality of their drinking water. This report covers test results, general information about the drinking water and drinking water treatment plant, and additional resources the public may find useful.

If you have further questions, please contact the Town's Engineering Director Mike Kelley at 540-382-6120.

Sincerely,

TREATMENT PLANT INFORMATION



Above: Residents tour the sedimentation basins at the NRV Regional Water Authority's treatment plant.

The NRV Regional Water Authority (NRVRWA) owns and operates a water treatment plant capable of processing 12.4 million gallons per day, as well as two raw water pump stations located near the New River. The NRVRWA is a bulk supplier and provides finished water to the Town of Blacksburg, Town of Christiansburg, Virginia Tech and Montgomery County. This means the NRVRWA services an estimated population of approximately 102,000.

The original raw water intake and water treatment plant were constructed in 1957 with a capacity of 4.1 million gallons per day. In 1968, the water treatment plant capacity was expanded to 10 million gallons per day, and a raw water booster pump station was also constructed. In 1977, the water treatment plant capacity was again expanded to its current capacity of 12.4 million gallons per day, and a new raw water intake was added. Minimal upgrades and improvements have taken place since 1977, with the majority of work being routine maintenance and replacement.

The NRVRWA completed a comprehensive evaluation of its existing raw water pumping facilities and the water treatment plant in 2016. The evaluation concluded that the facilities required a number of upgrades to maintain a safe work environment, improve efficiency and continue providing high quality water to customers. The raw water pumping facilities and water treatment plant began major renovations in 2020. This construction is estimated to be completed by the end of the third quarter of 2024. These renovations are allowing the Authority to continue to provide high quality water to its customers for years to come.

The NRVRWA has completed two projects that expanded service to its members. These projects provide redundant feeds to members, so in the event of a malfunction or failure of critical infrastructure, there are alternate routes and systems to deliver water to NRVRWA members.

ABOUT YOUR WATER

Christiansburg is a member of the NRV Regional Water Authority (NRVRWA), which provides the Town of Christiansburg with drinking water sourced from the New River. The NRVRWA treats surface water obtained from the New River using conventional treatment methods such as coagulation, flocculation, sedimentation, filtration and, finally, disinfection. The water is pumped from the treatment system through a network of pipes to storage tanks, where it is then distributed to your tap. The Town of Christiansburg operates and maintains four pump stations, four water storage tanks and 150 miles of water main lines. On average, the Town delivers over 1.6 million gallons of drinking water to residences and businesses each day.

In order to ensure that tap water is safe to drink, the Environmental Protection Agency (EPA) prescribes regulations that limit the amount of certain contaminants in water provided by public systems. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health. The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells.

Drinking water, including bottled drinking water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline at 800-426-4791.

Possible contaminants include:

- **Microbial Contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations or wildlife.
- **Inorganic Contaminants**, such as salts and metals, which can be naturally occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- **Pesticides and Herbicides**, which may come from a variety of sources such as agriculture, urban stormwater runoff and residential uses.
- **Organic Chemical Contaminants**, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also come from gas stations, urban runoff, and septic systems.
- **Radioactive Contaminants**, which can be naturally occurring, or the result of oil and gas production and mining activities.



HEALTH INFORMATION

Vulnerability to Contaminants

As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity. Some people may be more vulnerable to contaminants in drinking water than the general population. Immunocompromised persons, such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, the elderly and infants can be particularly at risk for infections. These people should seek advice about drinking water from their healthcare providers.

A source water assessment was conducted in 2002 that determined the New River to be highly susceptible to contamination. This is common of other water systems in Virginia when the source is from surface waters. Information from this report may be obtained through the NRVRWA (www.nrwater.org).

Lead in Homes

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing.

The Town of Christiansburg is responsible for providing high quality drinking water, but cannot control the variety of materials used in plumbing components. If your water has been sitting for several hours, you can minimize the potential for lead exposure by running your tap for 30 seconds to 2 minutes before using water for drinking and cooking.

If you are concerned about lead in your water, you may have your water tested. Information on lead in drinking water, testing methods and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at 800-426-4791 or at tinyurl.com/EPALeadInWater.



SAMPLING RESULTS

The NRV Regional Water Authority and the Town of Christiansburg routinely monitor contaminants in your drinking water according to federal and state laws. The tables below list all of the drinking water contaminants that are applicable for the calendar year of this report.

The presence of contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from testing done in the calendar year of the report. The EPA or the state requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants do not change.

Regulated Contaminants*

Contaminants (units)	MCLG or MRDLG	MCL TT or MRDL	Level Detected	Range (lowest - highest)	Violation	Typical Sources
Nitrite and Nitrate ¹ (ppm)	10	10	0.74	N/A	No	Runoff from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Haloacetic acids (HHAAs) (ppm)	N/A	60	37	22-37	No	Byproduct of drinking water disinfection
Total Trihalomethanes (TTHM) (ppm)	N/A	80	44	23-44	No	Byproduct of drinking water disinfection
Total organic carbon (removal ratio)	N/A	TT in compliance if ≥ 1.0	1	1	No	Naturally present in the environment
Barium ² (ppm)	2	2	0.021	N/A	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chlorine (ppm)	4	4	3.9	1.2-3.9	No	Water additive to control microbes
Turbidity (NTU) ³	N/A	TT: 1 NTU max TT: 5 NTU (95% of the time)	0.56 NTU 99.7%	0.07-0.56	No	Soil runoff
Fluoride ⁴ (ppm)	4	4	0.56	N/A	No	Erosion of natural deposits; discharge from fertilizer and aluminum factories
Alpha Emitters (pCi/L)	0	15	0.04	N/A	No	Erosion of natural deposits
Combined Radium (pCi/L)	0	5	0.04	N/A	No	Erosion of natural deposits

*These tables only show those contaminants that were detected in the water.
¹ Infants below the age of six months who drink water containing nitrate in excess of the MCL could become seriously ill and if untreated, may die. Symptoms include shortness of breath and blue-baby syndrome.
² Some people who drink water containing barium in excess of the MCL over many years could experience an increase in their blood pressure.
³ Turbidity is a measure of the cloudiness of water. We monitor it because it is a good indicator of the effectiveness of our filtration system. The EPA requires that we report the highest single turbidity result measured during the year.
⁴ Some people who drink water containing fluoride in excess of the MCL over many years could get bone disease, including pain and tenderness of the bones. Children may get mottled teeth.

Lead & Copper Contaminants*

Contaminants (units)	MCLG	Action Level	Amount Detected (90 th Percentile)	Sample Date	Violation	Sites above action level	Typical sources
Copper (mg/L)	1.3	1.3	0.057	Sept. 2023	No	0	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead ¹ (ppb)	0	15	<2 ²	Sept. 2023	No	0	Corrosion of household plumbing systems, erosion of natural deposits

*These tables only show those contaminants that were detected in the water.
¹ The Town of Christiansburg participates in lead and copper monitoring every three years with the Town of Blacksburg and Belview distribution systems.
² The 90th percentile was below the detection limit of 2 ppb.

SAMPLING RESULTS CONT.

Unregulated Contaminants*

Contaminant (unit)	Level Detected	Sample Date	Typical Sources
Sodium ¹	8.1 mg/L	Jan. 2023	Naturally occurring; Addition of treatment chemicals/processes

*These tables only show those contaminants that were detected in the water.
¹ For individuals on a very low sodium diet (500 mg/day), EPA recommends not to drink water that exceeds 20 mg/L. Should you have a health concern, contact your healthcare provider.

Sodium is an essential element required for normal body function, including nerve impulse transmission, fluid regulations and muscle contraction and relaxation. However, in excess amounts, sodium increases individual risk of hypertension, heart disease and stroke. One of the chief sources of sodium is the consumption of salt; therefore, salt restrictions are often recommended as a first line of treatment for individuals suffering from these conditions.

VIOLATION INFORMATION – Did any monitoring, reporting, or other violations occur during the year? (X) Yes () No
If yes, an explanation of the violation, including potential health effects, and actions we are taking to correct the violation, is as follows: During the fourth quarter of 2023 we failed to collect the proper number of samples for Total Trihalomethane (TTHM) and Haloacetic Acid (HAA5) examination. Four samples were required and none were submitted for analysis. We have resumed collecting and submitting for analysis the proper number of samples. The health effects as a result of not sampling are unknown.

Definitions

The following definitions may assist in understanding the results tables.

- **Maximum Contaminant Level Goal (MCLG)** is the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.
- **Maximum Contaminant Level (MCL)** is the highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.
- **Maximum Residual Disinfectant Level Goal (MRDLG)** is the level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.
- **Maximum Residual Disinfectant Level (MRDL)** is the highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
- **Treatment Technique (TT)** is a required process intended to reduce the level of a contaminant in drinking water.
- **Violation** means that the level of a contaminant or disinfectant in your drinking water has exceeded the maximum level allowed by the EPA.
- **Action Level** means the concentration of a contaminant that, if exceeded, triggers treatment or other requirements that an owner shall follow.
- **PPB (parts per billion)** means one part substance per billion parts water (or micrograms per liter).
- **PPM (parts per million)** means one part substance per million parts water (or milligrams per liter).
- **Picocuries per liter (pCi/L)** picocuries per liter is a measure of the radioactivity in water.
- **Nephelometric Turbidity Unit (NTU)** nephelometric turbidity unit is a measure of the clarity, or cloudiness, of water. Turbidity in excess of 5 NTU is just noticeable to the average person. Turbidity is monitored because it is a good indicator of the effectiveness of our filtration system.

Additional Resources

- **Attend an NRV Regional Water Authority meeting.** Community members are welcome to attend NRVRAA meetings, which are held virtually at 4 p.m. every third Wednesday of the month. Please contact Caleb Taylor at 540-639-2575 to participate in a meeting.
- **Take a tour of the water treatment plant.** To schedule a tour, please contact Executive Director Caleb Taylor at 540-639-2575.
- **Dispose of household hazardous waste.** Please dispose of these items at one of the New River Resource Authority's Household Hazardous Waste Collection events. Learn more by calling 540-674-1677 or visiting www.newriverresourceauthority.org.
- **Learn more.** If you have questions about this report, please contact the Engineering Department at 540-382-6120. For more information about water in the New River Valley, please visit www.nrvwater.org.
The EPA (www.epa.gov/Your-Drinking-Water) and the Centers for Disease Control and Prevention (www.cdc.gov/healthywater/drinking) websites offer a substantial amount of information on many issues related to water resources, water conservation and public health.
The Virginia Health Department's Office of Drinking Water (www.vdh.virginia.gov/ODW) provides current information on water issues in Virginia, including valuable information about our watershed.



PUBLIC STEWARDSHIP

The NRV Regional Water Authority and the Town of Christiansburg work to provide quality water to every home. We ask all of our customers to help us protect our water sources, which are the heart of our community, our way of life and our children's future.

Source water protection prevents contamination of a public water supply by effectively managing potential contaminant sources in the area that contribute water to the surface water supply. This area encompasses the watershed and is called the Source Water Protection Area (SWPA).

The watershed is an area of land that drains to a specific water body. Rainfall, snowmelt and stormwater runoff all drain into the watershed. This runoff has the potential to pick up contaminants along the way and deposit them in source water.

In Christiansburg, almost all watersheds drain to streams classified as impaired due to excess sediment, E. coli bacteria and polychlorinated biphenyls (PCBs). Remember, all storm drain inlets and roadside ditches drain to our creeks and rivers. Preventing soil erosion off your property, as well as picking up and properly disposing of pet waste, can reduce the excess sediment and E. coli bacteria flowing through our storm drain system to our streams.

It is important we each do our part to keep our watersheds clean. Please dispose of pesticides, oils, electronics, home improvement and other hazardous wastes properly to avoid contaminating our drinking water. The New River Resource Authority has free Household Hazardous Waste Collection (see p. 6 for more information). Disposing of your waste responsibly does not take a lot of effort, but it makes a huge difference for the environment!

The Christiansburg Connection

Newsletter for the Town of Christiansburg

January/February 2024



WINTER WEATHER

If you have a sidewalk in front of your home/business, please keep it clear of snow and ice. Town Code requires it be cleared within 24 hours of your street being plowed.

Snow plowing will deposit snow along street shoulders, curbs and driveway openings. Because of this, it is recommended that residents shovel driveways **after** their street is plowed.

When facing the street, shovel snow to the right or into your yard to minimize the amount that may get plowed back into your driveway.

If inclement weather is expected, please avoid parking on the street. Parking on the street prevents snow plows from fully and safely clearing the street and may result in vehicle damage.

CHRISTMAS TREE COLLECTION

Christmas tree collection will run weekdays from Jan. 2-12.

Please leave your tree **free of decorations** at the curb for collection.



REMINDER: You can find the new 2024 collection calendar at christiansburg.org/collectioncalendar, which is also inserted in your bill.

TOWN HOLIDAY EVENTS

CHRISTMAS ON MAIN

Christmas on Main is always a fun and festive event that includes our Christmas Market, tree lighting and parade. This year's parade featured 300 entries, making it the biggest parade the Town of Christiansburg has ever had!



LIGHT UP YOUR HOME FOR THE HOLIDAYS - WINNER

Congratulations to the residents of 430 Windsor Drive for winning the Light Up Your Home for the Holidays contest!



WINTER WONDERLAND

The Christiansburg Recreation Center transformed into a Winter Wonderland! This year's theme was The Grinch That Stole Christmas.



SANTAS COMING TO TOWN

For the fifth year in a row, Santa cruised through Christiansburg neighborhoods on his fire truck sleigh! Thanks to all who donated items for the food drive. In total, 2,211 foods were donated - that's more than last year!!



Want to stay in the know?
Sign up for our Notify Me and Citizen Alert systems to receive Town info via phone, text or email.
Notify Me: www.christiansburg.org/notifyme
Citizens Alert: www.christiansburg.org/alerts



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info@christiansburg.org
www.christiansburg.org

The Christiansburg Connection

Newsletter for the Town of Christiansburg

January/February 2024

AQUATIC CENTER SWIM MEETS

Jan. 5 VT vs Queens
Jan. 8 Christiansburg HS Dive Meet #2
Jan. 9 Christiansburg HS Swim Meet #2
Jan. 13 VT vs UVA Swim & Dive
Jan. 15 Christiansburg HS Dive Meet #3
Jan. 16 Christiansburg HS Swim Meet #3
Jan. 20 VT vs Penn State & Princeton
Jan. 22 Christiansburg HS Dive Meet #4
Jan. 23 Christiansburg HS Swim Meet #4
Jan. 29 Christiansburg HS Dive Meet #5
Jan. 30 Christiansburg HS Swim Meet #5
Feb. 2-4 VT Invitational
Feb. 5 VHSL Combined Regional Diving Champs
Feb. 6 VHSL Class 3 Region D Champions (CHS)
Feb. 6 VHSL Class 4 Region D Champions (BHS)
Feb. 8 VHSL Class 4 Region D Champions (BHS)
Feb. 16-17 VISAA HS State Swim & Dive Champs
Feb. 23-25 VSI SW District & Blue Ridge Regions Champs

UPCOMING HOLIDAYS/ EVENTS

MARTIN LUTHER KING, JR. DAY MONDAY, JAN. 15

Town Hall will be closed. The Aquatic Center will be open with Admin. Offices closed.

Solid waste normally collected on Mondays will be collected on Tuesday, Jan. 16, along with Tuesday's regular collection.

RECREATION CENTER HOSTS GYMNASTICS INVITATIONAL - JAN. 12-15

The Recreation Center will be closed from Jan. 12 - 15 for a four-day gymnastics invitational.

GEORGE WASHINGTON DAY MONDAY, FEB. 19

Town Hall will be closed. The Recreation Center and Aquatic Center will be open with Admin. Offices closed.

Solid waste normally collected on Mondays will be collected on Tuesday, Feb. 20, along with Tuesday's regular collection.

UPCOMING COUNCIL MEETINGS*

Jan. 9 at 7 p.m.
Jan. 23 at 7 p.m.

Feb. 13 at 7 p.m.
Feb. 27 at 7 p.m.

*Meetings are held in Council Chambers at Town Hall. Opportunity to provide public comment in person will be provided; however, contactless comment methods are also available at www.christiansburg.org/publiccomment to ensure resident access.

Never miss a meeting! Sign up for notifications at www.christiansburg.org/notifyme.

All meetings are recorded and posted to the Town's YouTube page at www.christiansburg.org/YouTube.

CHRISTIANSBURG STREAM RESTORATIONS

DIAMOND HILLS STREAM RESTORATION



Winter is a great time to explore the Town's green, stormwater management features!

Diamond Hills Stream Restoration off of Independence Blvd. offers an easy winter walk, great railroad views, and opportunities to spot over-wintering birds. While you're exploring the 20 acres of wetlands, take notice of the stream buffers, which slow down stormwater runoff from 500 acres of neighborhoods and businesses! The benefit of stream buffers slowing down stormwater is it results in the sediment dropping out, which feeds the wetlands and keeps the stream clean.

Looking for a more laid-back outing? Towne Branch in Depot Park is a similar design to Diamond Hills on a much smaller scale. Take some time to sit back and relax by the small waterfall.

For more information on the Town's Municipal Separate Storm Sewer System and local streams visit: christiansburg.org/stormwaterinfo.

Want to stay in the know?
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Citizens Alert: www.christiansburg.org/alerts



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The Christiansburg Connection

Newsletter for the Town of Christiansburg

March/April 2024



HAZARDOUS WASTE & PCB AWARENESS

Does your spring cleanup include cleaning out a shed, garage, or a basement you haven't touched in years? Many common household materials like stains, varnishes, cleaners, adhesives, oils, and pesticides are considered hazardous waste. Be sure to read the label; words like "poison," "danger," "warning," or "caution," will alert you of the potential hazard. Please do **NOT** place these items in your household garbage or recycling.

Additionally, if the materials were manufactured prior to 1980, they may also contain PCBs. PCBs, or polychlorinated biphenyls, were commonly found in transformers, fluorescent light ballasts, oils in motor and hydraulic systems, and other materials.

PCBs may be released from these materials as they degrade or break. If remnants of this material land on the ground, it can allow PCBs to travel through runoff into storm sewers, streams, and rivers. Due to this pollution, our local rivers have fish consumption advisories. Learn more about these advisories at <https://tinyurl.com/VAFishConsumptionAdvisory>.

The Montgomery Regional Solid Waste Authority is hosting a Household Hazardous Waste event on **April 20, 2024, from 9 a.m.-2 p.m.** Please call 540-381-2820 for an appointment and visit mrsa.com for more information.



SPRING EVENTS CALENDAR

Egg-Streme Easter Egg Party Friday, March 22

Games and activities start at 7 p.m. Hunt starts at 8 p.m. at Kiwanis Park
(Ages 18 and up)

Easter egg hunts aren't just for kids anymore! Grab a few friends and hunt Easter eggs in the dark to win big! There are more than \$2,000 in prizes ranging from local restaurant gift cards to big screen TVs. Before the Easter egg hunt, come out to enjoy music and games!

The Great Easter Egg Hunt Saturday, March 30

10 a.m. at Kiwanis Park

Visit christiansburg.org/parksandrecreation for age group times

Children are divided into age groups to search for surprises the Easter Bunny has left behind! Please have each child participating bring their own baskets. The Easter Bunny will also stop by to take photos!

Spring Kickoff Festival Saturday, April 20

6-9 p.m. at the Christiansburg Recreation Center

Join the party at the Recreation Center (outdoors) for an evening of adult fun! Come take your best swing at the golf simulator or enjoy a variety of other outdoor games. Be sure to visit the local food trucks, beer and wine vendors and tune into great music.

Skatepark Showdown Saturday, April 27

1 p.m. at the Christiansburg Aquatic Center Skate Park

Registration begins at Noon - \$15 registration fee

Dust off your skateboard and begin to shred! Christiansburg Aquatic Center partners with Greenhouse Boardshop for another exciting competition!

Beginner, Intermediate and Advanced street contests.

Best trick mini ramp, best trick 6 stair contest.

Shred-A-Thon Tuesday, April 23

3-6 p.m. at the Christiansburg Recreation Center parking lot

Rockin' Main Street Concert Saturday, May 11

5-9 p.m. on Main Street in Christiansburg

Musical performances by: Noah Spencer and The Jared Stout Band

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The Christiansburg Connection

Newsletter for the Town of Christiansburg

March/April 2024

SPRING CLEANUP: APRIL 15-26



In April and October of each year, the Town offers free special collection periods for residents to place out larger items for pickup.

To make collections more convenient for crews, please place cleanup items within 10 feet of the street pavement and separate them from your regular trash. Please do not block ditches, gutters, sidewalks, water meters or sewer cleanouts. The Town is not responsible for any items left at or near the street that residents did not intend to have collected. Piles that do not comply with cleanup rules will not be collected. Please also separate materials by type (i.e. pile bagged leaves, tree limbs and trimmings). Loose materials must be placed in bags/containers that do not exceed 32 gallons. Leaves must be bagged. For a full list of accepted items, please visit www.christiansburg.org/cleanupFAQ.



Though special collection trucks follow regular garbage routes, cleanup may run a day or two behind trash collection schedules, depending on volume. If it is nearing the end of the cleanup cycle and your items have not been collected, please call 540-382-1151.

Throughout the year, residents may also set out their brush for complimentary monthly collection. Please visit www.christiansburg.org/brush to learn more. Brush collection will not run in April as it is part of Spring Cleanup.

AQUATIC CENTER

SWIM MEETS

March 7-10 VA Swimming Age Group Champs

March 20-24 USA Swimming EZ Super Sectionals

Please visit cacpool.com for facility hours

Tackle the Tower

Saturday, April 6 from 1-3 p.m.

Take a plunge off of our five-meter tower!

Fins Summer Camp 2024 information will be released March 5 on the Aquatic Center website (cacpool.com).

UPCOMING TOWN COUNCIL MEETINGS*

March 12 at 7 p.m. April 9 at 7 p.m.
March 26 at 7 p.m. April 23 at 7 p.m.

*Meetings are held in Council Chambers at Town Hall. Opportunity to provide public comment in person will be provided; however, contactless comment methods are also available at christiansburg.org/publiccomment.

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info@christiansburg.org
www.christiansburg.org

From: Katie Rabago
Sent: Friday, September 20, 2024 3:33 PM
To: Patricia Colatosti
Subject: RE: Facebook metrics

Hi Patricia,

Please see the metrics below. As a reminder, impressions are the number of times the post appeared on screen and engagements are the number of times someone interacted with the post. Engagements include reactions, comments, shares and clicks.

- The post for the Christiansburg Connection for Jan/Feb 2024 (Jan 4) and Mar/April 2024 (March 1) **This post received 7,359 impressions and 526 engagements**
- The May 28 post for the 2023 Drinking Water Quality Report **This post received 4,246 impressions and 208 engagements**
- The February 22 post for the Volunteer Stream Clean up (or the event post, or whatever you can pull because I don't know how events are different than posts) **I haven't been able to find any numbers for this. All I can see is there were 10 people that responded that they were interested in attending.**
- The Nov 28 post for the Stream Clean ups **This post received 1,067 impressions and 9 engagements**

In August of 2024, we mailed 10,458 total statements with the Christiansburg Connection.

Hope this helps. Please let me know if there's anything else you need.

Meetings with Villas at Peppers Ferry HOAs

From: Thomas Irish <teirish@gmail.com>
Sent: Tuesday, April 30, 2024 9:21 AM
To: Patricia Colatosti <pcolatosti@christiansburg.org>
Subject: Villas at Peppers Ferry Invitation Re: Clifton Town Center Construction

Great! That date will certainly work. The Coffee is held at our clubhouse. You're welcome to arrive anytime after 10:00, and we'll plan on your remarks beginning around 10:30.

Thank you very much for agreeing to do this.

Patricia,

Looking forward to seeing you on the 15th!

You are most likely aware that earth moving activity has begun at the Clifton Town Center site. As in the past, our residents will certainly appreciate all the Town can do to minimize any adverse impacts this project may have (e.g., dust, mud, runoff, noise, litter, etc.).

Tom

As this will be a long-running project, it might help to educate our residents a little bit on just what the Town's responsibility is in overseeing this project. It could help reduce and manage concerns our residents raise as the project proceeds.

On Thu, May 2, 2024 at 3:38 PM Patricia Colatosti <pcolatosti@christiansburg.org> wrote:

Tom,

Each Wednesday morning we hold a coffee hour for residents at 10:00. Would you be willing to come to one of these and share with the group the role the Town will be playing in controlling the impact of this construction on our community? If so, what date would be good for you? (FYI - about 30-40 people usually attend these coffees, and your remarks would begin around 10:30.)

That sounds like a great idea. I am available at that time on May 15, if that works for you all.

Thanks,

Thanks,

Patricia

Patricia Colatosti

From: Thomas Irish <teirish@gmail.com>
Sent: Thursday, May 16, 2024 11:38 AM
To: Patricia Colatosti
Cc: Mike Kelley; Kathryn Dowling
Subject: Thank You!

Follow Up Flag: Follow up
Flag Status: Completed

Patricia,

Thanks again for attending our morning Coffee and giving an excellent overview to our residents about the activity at the Clifton Town Center site. We appreciate all you do to monitor this complex project, and all you have done in the past to respond to concerns our community has raised.

Good job!

Tom.

Steppin' Out documentation

From: Kafi Howard <KHoward@blacksburg.gov>
Sent: Monday, August 7, 2023 4:00 PM
To: Dietz, Charles; John W. Burke; Muldoon, Katelyn; Patterson, Maggie; Patricia Colatosti; Micky Mullins
Subject: Steppin Out 2023 Statistics
Attachments: [2023 Statistics.pdf](#)

All,

Please see the attached statistics for the Steppin' out event this past weekend.

Engagement by Locality:

Montgomery County – 22
Town of Blacksburg – 106
Town of Christiansburg – 28
VT – 62
Other – 41

Giveaways:

Drug Disposal Bags – 1
Coloring Books/Crayons – 5
Poop Bags – 17*

*I think we gave away a lot more than this, but this is what the checkmarks noted.

Thanks,
Kafi

Kafi Howard, Town Engineer
Town of Blacksburg
[400 S Main St](#)
[Blacksburg, VA 24060](#)
khoward@blacksburg.gov
(540) 443-1354

NRV Home Expo Documentation

From: John W. Burke <burkejw@montgomerycountyva.gov>

Sent: Friday, March 29, 2024 9:34 AM

To: Patricia Colatosti <pcolatosti@christiansburg.org>; Katelyn Muldoon (katelyn5@vt.edu) <katelyn5@vt.edu>; nishapolk@vt.edu; Chuck Dietz (charlid@vt.edu) <charlid@vt.edu>; Kafi Howard (khoward@blacksburg.gov) <khoward@blacksburg.gov>; Clayton Morgan <cmorgan@christiansburg.org>

Cc: Scott A. Woodrum <woodrumsa@montgomerycountyva.gov>

Subject: NRV Home Expo 2024 - Attendance and item count

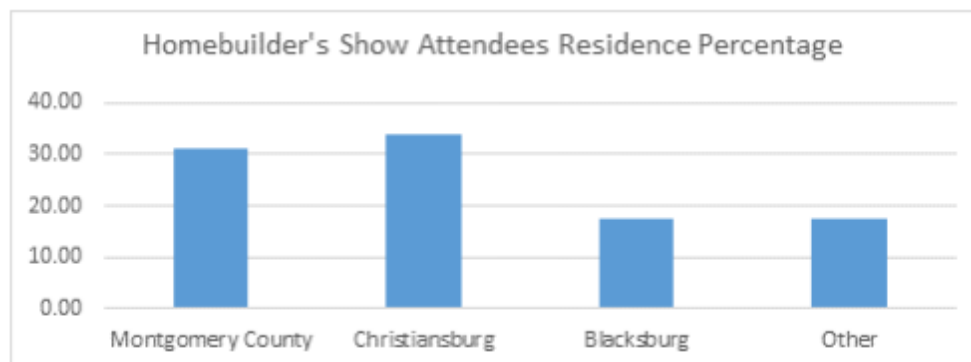
Good morning,

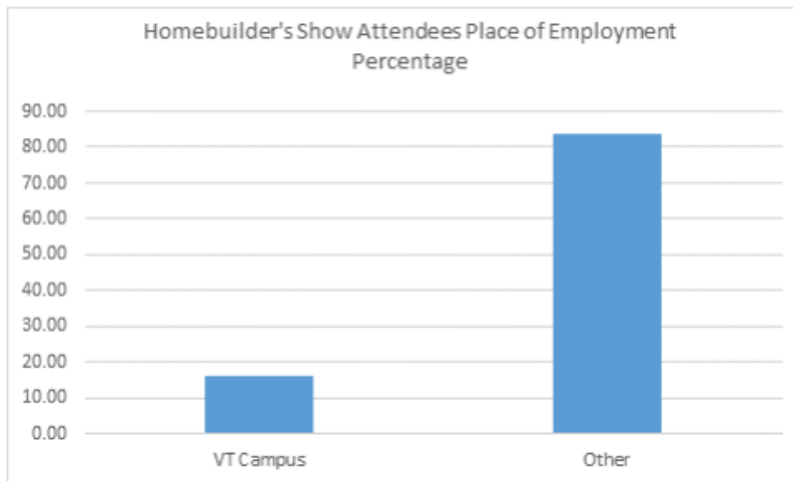
Please see the following for annual reporting.

The total Home Expo attendance was 1,400 and we had significant interactions with 80 persons/groups, demonstrating MCM2 participation. The breakdown of those persons is provided in the table and charts below. Those numbers demonstrated that we reached our target audiences with this event.

I spoke with Clayton and he is going to update the pet waste bag count and that will complete the count of items handed out at the expo for MCM1.

<https://docs.google.com/spreadsheets/d/19omtmwdlswntJAALdHyzUr8zkeB-QPMJfHS3wMnfrEI/edit#gid=0>





My Residence	%
Montgomery County	31.25
Christiansburg	33.75
Blacksburg	17.50
Other	17.50
Total	100.00
My Employment	%
VT Campus	16.25
Other	83.75
Total	100.00

John W Burke

Stormwater Specialist | Environmental Services
 (540) 394-2090, ext. 54133 | montva.com/stormwater
 Follow #MontVaMS4 on [Facebook](#) and [Twitter](#)



Christiansburg Farmers Market Pet Day Attendance numbers

From: Austin Gilmore
Sent: Thursday, September 12, 2024 8:04 AM
To: Patricia Colatosti
Cc: Charlton McCoy
Subject: Re: Attendance numbers for a specific Christiansburg Farmers Market

Good morning!

Our attendance for that day was 190.

Thanks,
Austin

Austin Gilmore

Assistant Events Coordinator & Farmers Market Manager
Christiansburg Parks & Recreation
1600 North Franklin Street
Christiansburg, VA 24073
540-382-2349 Ext. 2017 or 540-744-5565
www.christiansburg.org



From: Patricia Colatosti <pcolatosti@christiansburg.org>
Sent: Wednesday, September 11, 2024 5:10 PM
To: Austin Gilmore <agilmore@christiansburg.org>
Cc: Charlton McCoy <clmccoy@christiansburg.org>
Subject: Attendance numbers for a specific Christiansburg Farmers Market

Austin,

Do you track approximate attendance numbers for the market? I am looking for numbers for October 5, 2023 which was Pet Day. Myself and Clayton Morgan staffed a table handing out pet waste bags and the attendance numbers would be useful for a report I need to submit.

If you don't have attendance numbers, that's ok. Just let me know.

Thanks,

Patricia

Grow Zone sign at Christiansburg's Huckleberry Park



Appendix B: Documentation of Public Involvement Activities

Towne Branch Master Naturalist exotic invasive plant removal-correspondence

From: Fred Umberger <fred915beth@gmail.com>
Sent: Monday, May 13, 2024 2:55 PM
To: Patricia Colatosti
Subject: Depot Park

I cut a bunch of poisonous hemlock on the edges of the park today. All 3 nest boxes are in use: 2 house wrens and 1 chickadee! Now I am going to take a shower and hope to stop any ticks.

Fred

From: Fred Umberger <fred915beth@gmail.com>
Sent: Saturday, May 25, 2024 9:15 AM
To: Patricia Colatosti
Subject: Re: Depot Park

Beth had suggested trying it--Tom Wiebolt told her it was effective. But Beth is skeptical. I guess we are doing a "trial run"??? Fred Oh--all the birds are still using the boxes as observed before.

On Fri, May 24, 2024 at 4:52 PM Patricia Colatosti <pcolatosti@christiansburg.org> wrote:

Thank you for doing this. The nest boxes are a really great addition to the park!

Does cutting poisonous hemlock get rid of it? There is a bank on Independence that the Town mows occasionally that has it, and if mowing is a good control method I am going to try to get it mowed more frequently.

Thanks,

Patricia

Patricia Colatosti

Environmental Program Supervisor

Town of Christiansburg

100 East Main Street

Christiansburg, VA 24073

(540) 382-6120 x1157

From: Patricia Colatosti
Sent: Friday, March 8, 2024 3:35 PM
To: Fred Umberger
Subject: RE: depot park

Categories: Need to file or create memo

Thanks, Fred. Hopefully we get some bluebirds. I think the guards may keep out cats as well as wildlife.

I will pass this on to our Parks and Rec folks so they know the boxes are being maintained.

Patricia Colatosti

Environmental Program Supervisor
Town of Christiansburg
100 East Main Street
Christiansburg, VA 24073
(540) 382-6120 x1157

From: Fred Umberger <fred915beth@gmail.com>

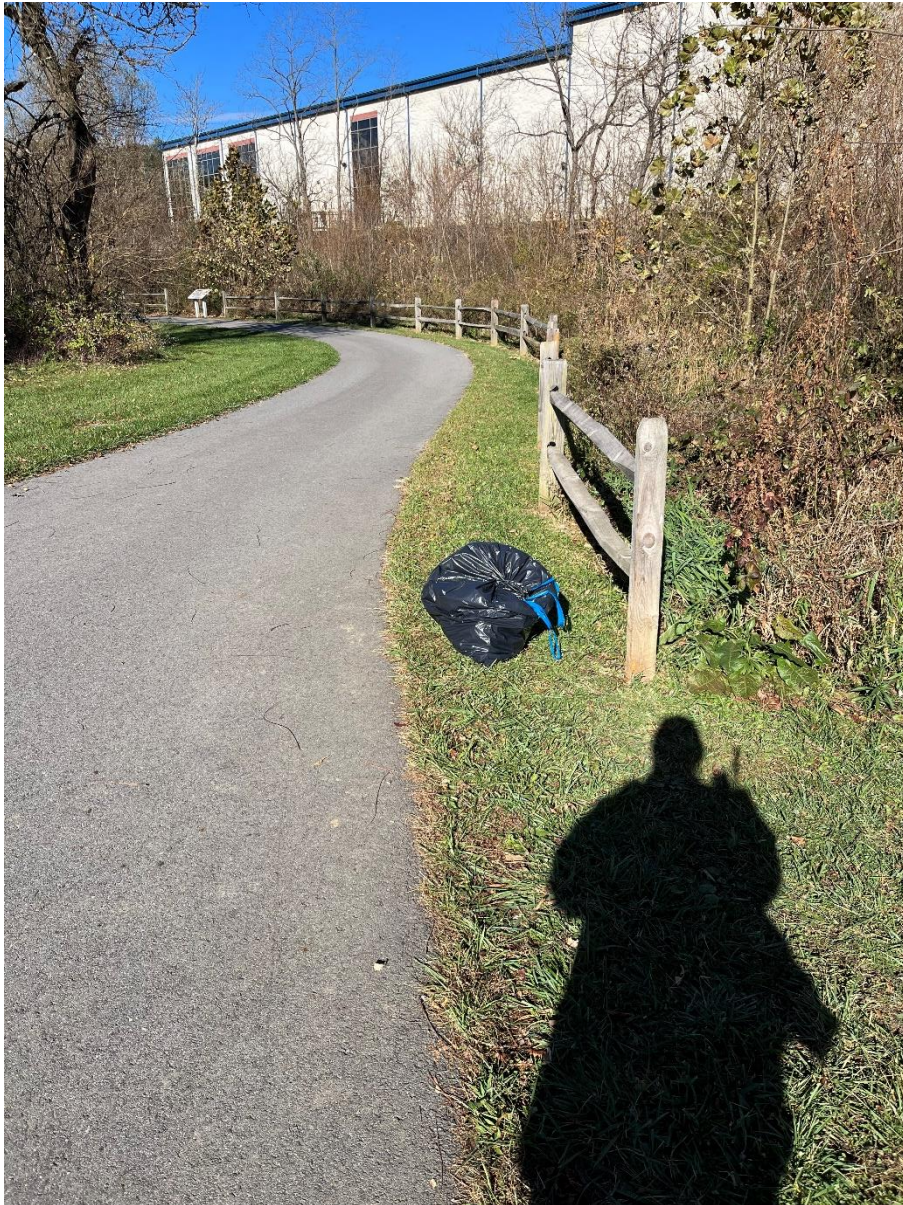
Sent: Thursday, February 29, 2024 3:46 PM

To: Patricia Colatosti <pcolatosti@christiansburg.org>

Subject: depot park

I retrofitted two bluebird boxes with noel guards at Depot Park. I notice some birds are starting to look at boxes now. I removed the third box (sadly it broke while I was working on moving it). I will try to get some invasive removal done this season and see if some "tick protection" will help any. Fred

Towne Branch
Stream Clean up
11/4/2023



Diamond Hills Stream Clean up 12/2/2023



Towne Branch Stream Clean up 4/6/2024



Virginia Tech Turtle Research Project communications

This email shows that work was done during the summer of 2023 on this project. We are still waiting on documentation for Spring 2024 for the Biodiversity Project and thus have not included the Biodiversity Project in the 2024 Annual Report.

From: Hamed, Kevin <khamed@vt.edu>
Sent: Tuesday, February 27, 2024 11:37 AM
To: Patricia Colatosti
Subject: RE: Needing information on student numbers for DEQ reporting

Categories: Need to file or create memo

Patricia,

We had 20 students work on the Biodiversity Project in Spring 2023

Brandon worked along during summer of 2023.

We are looking forward to another great spring. Do I still owe you data from 2023?

Thank you again for supporting our students,

M. Kevin Hamed
Collegiate Associate Professor of Wildlife Conservation &
Collection Curation
Certified Wildlife Biologist®
Department of Fish and Wildlife Conservation
Virginia Tech
101 Cheatham Hall (MC0321)
310 West Campus Drive
Blacksburg, VA 24061
(540) 231-1887
khamed@vt.edu

Master Naturalists Save our Streams Monitoring group

Below is one sample of data that has been returned to the Town. More data is available upon request.



Biological Monitoring Data Form for Rocky Bottom Method

Name of Stream: Towne Branche Station ID: Towne Branche m8-01
Name of Certified Monitor(s): Carol Kaufman, Charlie Whittle, Kai Dunbar, Tonia Monday
Group/Organization: NRV VMN Number of Participants: 5
Latitude: 37.1378562 Longitude: -80.4107808
County/State: Montgomery / VA
Survey Date: 10/28/23 Start Time: 1:10 End Time: 3:07
Description of Site Location: Stream runs through Depot Park in Christiansburg

ROCKY BOTTOM SAMPLING

Using a kick-siense net, take up to four samples in the riffle area of 20 to 90 seconds each (75% of the time rubbing rocks, 25% of the time disturbing the streambed). Adjust the length of the sampling period to ensure you collect at least 200 macroinvertebrates. Write the length of each sampling period in seconds and place a check mark next to the net mesh size used

(Note: If sample does not reach 200 organisms, three nets must be 90 seconds for approval).




















67.5
22.5
90 Net 1 60 Net 2 _____ Net 3 _____ Net 4 _____ Net Mesh Size: ☐ 1/32" ☒ 1/50"

PHYSICAL CONDITIONS (check all that apply)

Today: ☒ Sunny ☐ Overcast ☐ Intermittent Rain ☐ Steady Rain ☐ Heavy Rain ☐ Snow
Yesterday: ☒ Sunny ☐ Overcast ☐ Intermittent Rain ☐ Steady Rain ☐ Heavy Rain ☐ Snow
Day Before Yesterday: ☒ Sunny ☐ Overcast ☐ Intermittent Rain ☐ Steady Rain ☐ Heavy Rain ☐ Snow
Water Temperature: 60° F °C Avg. Stream Width 12 ft.
Flow Rate: low (high, normal, low) Avg. Stream Depth 5 in.

OTHER COMMENTS

MACROINVERTEBRATE COUNT

Macroinvertebrate	Tally	Count	Macroinvertebrate	Tally	Count
Worms 	1	10	Common Netspinning Caddisflies 	17	17
Fiat Worms 	6	6	Most Caddisflies (not Common Netspinning) 	1	1
Leeches 		1	Beetles (ex. riffle beetles, water pennies) 	1	1
Crayfish 			Midges 	10	10
Sowbugs 		2	Black Flies 		
Scuds 		1	True Flies (ex. crane flies, dance flies, water snipes, etc) 		
Stoneflies 	11	11	Gilled Snails 		
Mayflies 	8	8	Lunged Snails 		
Dragonflies and Damselflies 			Clams 		
Alderflies, Fishflies, and Hellgrammites 			Other benthic macroinvertebrates (ex. aquatic caterpillars) <small>*If unknown, use online tools or SOS staff assistance to identify before submitting</small>		
			Total number of organisms in the sample (include "other benthic macroinvertebrates" in total)		145

ECOLOGICAL MONITORING DATA FORM FOR ROCKY BOTTOM STREAMS

449

161
449
570

INDIVIDUAL METRICS

	Organism Groups	Number of Organisms		Total Number of Organisms in the Sample		Percent (This is your value for this metric.)
Metric 1	Mayflies + Stoneflies + Most Caddisflies (not Common Netspinning)	25	÷	210	Multiply by 100	11.9 %
Metric 2	Common Netspinning Caddisflies	145	÷	210	Multiply by 100	69 %
Metric 3	Lunged Snails	0	÷	210	Multiply by 100	0 %
Metric 4	Beetles	6	÷	210	Multiply by 100	2.85 %

Metric 5: Tolerant

Organism Groups	Number of Organisms
Black Flies	
Clams	
Dragonflies and Damselflies	
Flatworms	9
Leeches	1
Lunged Snails	
Midges	10
Scuds	1
Sowbugs	2
Worms	11
Total Tolerant	34
÷	2
Total number of organisms in sample	210
Multiply by 100	
Percent (This is your value for Metric 5.)	16.1 %

Metric 6: Non-Insect

Organism Groups	Number of Organisms
Clams	
Crayfish	
Flatworms	9
Gilled Snails	
Leeches	1
Lunged Snails	
Scuds	1
Sowbugs	2
Worms	11
--	--
Total Non-Insect	24
÷	
Total number of organisms in sample	210
Multiply by 100	
Percent (This is your value for Metric 6.)	11.4 %

MULTIMETRIC INDEX (STREAM HEALTH SCORE)

	Metric Organism	Your Metric Value	2	1	0
Metric 1	Mayflies + Stoneflies + Most Caddisflies (not Common Netspinning)	11.9 11.9	Greater than 32.2	16.1 - 32.2	Less than 16.1
Metric 2	Common Netspinning Caddisflies	69	Less than 19.7	19.7 - 34.5	Greater than 34.5
Metric 3	Lunged Snails	0	Less than 0.3	0.3 - 1.5	Greater than 1.5
Metric 4	Beetles	2.85 1.82	Greater than 6.4	3.2 - 6.4	Less than 3.2
Metric 5	Tolerant	16.1	Less than 46.7	46.7 - 61.5	Greater than 61.5
Metric 6	Non-Insects	11.4	Less than 5.4	5.4 - 20.8	Greater than 20.8
			Total # of 2s: 1	Total # of 1s: 1	Total # of 0s: 3
			Multiply by 2: 2	Multiply by 1: 1	Multiply by 0: 0
		SUBTOTALS			

Add the three subtotals to get the Save Our Streams Multimetric Index Score: 3

☐ Acceptable Ecological Condition (9 - 12)

☐ Ecological conditions cannot be determined at this time/Grayzone (8)

☒ Unacceptable Ecological Condition (0 - 7)

Stream Monitoring New River Conservancy Water Watchers
Monitoring on Crab Creek started in May 2024. Below are results from May and June 2024

From: Tonia Moxley <tonia.moxley@gmail.com>
Sent: Monday, May 6, 2024 7:55 AM
To: Patricia Colatosti
Subject: Crab Creek chemical results

Follow Up Flag: Follow up
Flag Status: Flagged

May chemical monitoring results for Crab Creek — filed with New River Conservancy on behalf of VDEQ.

Tonia Moxley
tonia.moxley@gmail.com

----- Forwarded message -----

From: Google Forms <forms-receipts-noreply@google.com>
Date: Sun, May 5, 2024 at 1:43 PM
Subject: Middle New NRW Data Sheet
To: <tonia.moxley@gmail.com>



Thanks for filling out [Middle New NRW Data Sheet](#)

Here's what was received.

[View score](#)

[Edit response](#)

Middle New NRW Data Sheet

Email *

tonia.moxley@gmail.com

Site Name *

Crab Creek

Site ID (Leave Blank)

Monitor Name (First and Last) *

Tonia Moxley

Monitoring Date *

MM

05

/

DD

04

/

YYYY

2024

Monitoring Time: *

Time

11

:

00

AM

Observations and Weather

Weather Type *

Sunny

☒ Overcast

Partly Cloudy

☒ Drizzle

Fog/Haze

Rain

Intermittent Rain

Snow

Rainfall on day of testing (in): *

0.3

Rainfall on 1 day before testing (in): *

0.0

Stream Flow Rate *

High

☒ Normal

Low

Negligible

Water Color *

☒ Clear

Muddy

Oily

Foamy

Milky/Gray

Green

Brown, Black

Iridescent Sheen

Ice

Water Odor *

☒ Natural

Gas/Oil

Chlorine

Rotten Egg

Sewage

Chemical

Additional Comments

(e.g. wind, recent events, wildlife, dead fish, debris, anything unusual):

minnows, crayfish, plastic bags in trees over water

Data:

Air Temperature (in Celsius): *

15.1

Water Temperature (in Celsius) *

15.6

Dissolved Oxygen Check 1 *

Sodium Thiosulfate check (mg/L):

10.2

Dissolved Oxygen Check 2

Sodium Thiosulfate check #2 (only do this if results were less than 9.4 or greater than 10.0)

10

Dissolved Oxygen Check 3

Sodium Thiosulfate check #3 (only if necessary)

Dissolved Oxygen Test *

Test 1 (mg/L):

9.6

Dissolved Oxygen Test 2 *

Test 2 (mg/L):

9.2

pH: *

8

Water Clarity: Turbidity Tube (in cm) *

117

Water Column Depth *

Depth of Water Column (total depth in cm):

30

Conductivity (uS/cm): *

504

Ecoli Sample: *

Were samples collected?

Yes

Sample on Ice? *

Was sample placed on ice?

Yes

E. Coli Comments

Comments

Coliscan Easygel Plating and Counting Results:

Performed upon return from sample run

Incubation Time *

Incubation time (to nearest hour)

25

Incubation Temperature *

Incubation temp (in Celsius) to nearest half degree:

37

Media Expiration Date *

Media Expiration Date:

MM

08

/

DD

22

/

YYYY

2024

Amount of water sample added to media bottle (max. 5 ml) *

1

Total # of purple or dark blue colonies on plate: *

5

Total Time Spent Monitoring (hours): *

(Includes travel to and from monitoring site, equipment preparations, sample collection, water's edge time and time spent filling out data sheet)

4

[Create your own Google Form](#)

[Report Abuse](#)

Start: 11:30 am
Sat: 8:30
incubation began 2:30 pm Sat.

New River Conservancy

New River Water Watchers Field Data Sheet

Has this datasheet been entered on the NRC's database via the online data entry?

☐ Yes
☐ No

Site Name and #:

Crab Creek

Monitoring Date (mm/dd/yyyy):

6/8/2024

Monitor:

Tonia Moxley

Time (hh:mm am/pm):

Noon

OBSERVATIONS / WEATHER

Weather Type (check):

- ☒ Sunny
☐ Partly Cloudy
☐ Fog/Haze
☐ Intermittent Rain

- ☐ Overcast
☐ Drizzle
☐ Rain
☐ Snow

Rainfall:

Rainfall on day of testing
(inches):

0

Rainfall on 1 day before testing
(inches):

0

Stream Flow Rate:

- ☐ High
☒ Normal
☐ Low
☐ Negligible

Water Color:

- ☒ Clear
☐ Muddy
☐ Oily
☐ Foamy
☐ Milky/Gray

- ☐ Green
☐ Brown, Brown
☐ Iridescent Sheen
☐ Ice
☐ Other:

Water Odor:

- ☒ Natural
☐ Gas/Oil
☐ Chlorine
☐ Rotten Egg
☐ Sewage
☐ Chemical

Additional Comments (e.g. aquatic life observed, pollution impacts, debris, recent events, anything unusual):

MINNOWS, birds, water striders, little bit of trash

DATA

1. Air Temperature (°C):

25.6 °C

2. Water Temperature (°C):

19.6 °C

3. Dissolved Oxygen: Instrument: LaMotte test kit

Sodium Thiosulfate check (mg/L):

10

2nd check (mg/L) (only if results are < 9.4 or > 10.0):

[NOTE: Do not run DO test if 2 Sodium Thiosulfate check results are not within the 0.4 mg/L of each other.]



Test 1 (___ mg/L):

Test 2 (___ mg/L):

DO Average (___ mg/L):

6.7	9.0	
-----	-----	--

[NOTE: Tests should be within 0.6 of each other. If not, perform 3rd test and report two closest results.]

4. pH: Instrument: LaMotte wide range: pH value ___ (Std. Units)

8.0

5. Water Clarity and Depth:

Turbidity tube (___ cm) (to the nearest tenth of cm):

117

Depth of Water Column (___ cm) (total depth):

27.0

6. Conductivity: Oakton ecoTestr- SPC value: (___ uS/cm)

(1411-1413 test)

539

7. E.coli sample:

Were samples collected?		Were samples placed on ice?		Comments:
<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Put under AC vent's home < 5' away forgot cooler!!!

8. Coliscan Easygel Planting and Counting Results: Performed upon return from sample run.

Incubation time (hours) (to nearest hour):

2:30pm -

25

Incubation temp (___ °C) (to nearest half degree):

37

Media expiration date:

8/22/2024

Rep 1

--

Rep 2

Amount of water sample added to media bottle (max. 5 ml per Rep):

Rep 1:

2ml

Rep 2:

--

Total # of purple or dark blue colonies on plate:

Rep 1:

6

Rep 2:

--

Total time spent monitoring: (Includes travel to and from monitoring site, equipment preparation, sample collection, water's edge time, and time spent filling out data sheet.) (hours) (Round to the nearest 15 mins)

4.75

Monitor's Signature:

Date:

6/9/2024

Send original forms to:

New River Conservancy, PO Box 1480, West Jefferson, NC 28694

Attn: New River Water Watchers Coordinator

Christiansburg Aquatic Center FINS Summer Camp Stream Day

From: Patricia Colatosti
Sent: Thursday, August 3, 2023 9:07 AM
To: Jilliann Kowalcik
Cc: Zenna Carson; Clayton Morgan
Subject: RE: FINS Summer Camp stream activity

Jilliann,

It is way too slick on the hill down to the creek to have the campers in the stream. And it is not going to quit raining.

We are going to have to be inside. I have activities for them to do similar to what we would do outside, and we are getting some creek water to do water tests (the test strips are kid safe so they will do the testing).

Are you in the multi purpose room with the kitchen attached? We will also need some tap water for the campers to fill up our secchi tubes with water.

We will be at the Aquatic Center at 10:30 am and ready to start whenever they are ready.

Thanks,

Patricia

Patricia Colatosti

Environmental Program Supervisor
Town of Christiansburg
100 E. Main St
Christiansburg, VA 24073
540.382.6120 ext. 1157

From: Jilliann Kowalcik <jkowalcik@christiansburg.org>
Sent: Wednesday, August 2, 2023 3:41 PM
To: Patricia Colatosti <pcolatosti@christiansburg.org>
Cc: Zenna Carson <zcarson@christiansburg.org>; Clayton Morgan <cmorgan@christiansburg.org>
Subject: RE: FINS Summer Camp stream activity

Wonderful! Thank you for the update! The camp staff and campers will meet you at 10:30am—I will be teaching a class from 10-11am but if you need anything during that time, the Camp Supervisor (Zenna) will be around as well!

The kids are super excited—thank you again for doing this!

MCPS Seventh Grade Stormwater Days April 9 and 10th 2024 documentation including site maps and list of station titles/topics

From: Glenn Anthony Deibler <tonydeibler@mcps.org>

Sent: Monday, April 8, 2024 10:21 AM

To: Tony Deibler <tonydeibler@mcps.org>; Polk, Nisha <nishapolk@vt.edu>; John W. Burke <burkejw@montgomerycountyyva.gov>; Patricia Colatosti <pcolatosti@christiansburg.org>; Mike B <mrbrosius@gmail.com>; Muldoon, Katelyn <katelyn5@exchange.vt.edu>; Kafi Howard <KHoward@blacksburg.gov>

Subject: Re: Stormwater Days

Here are the schools that are coming for each session:

General Schedule

April 9th Morning Session:

BMS Ferguson (~108 students)

SMS All 7th grade (~66 Students)

April 9th Afternoon Session:

BMS Howard & Ihlefeld (~210 students)

April 10th Morning Session:

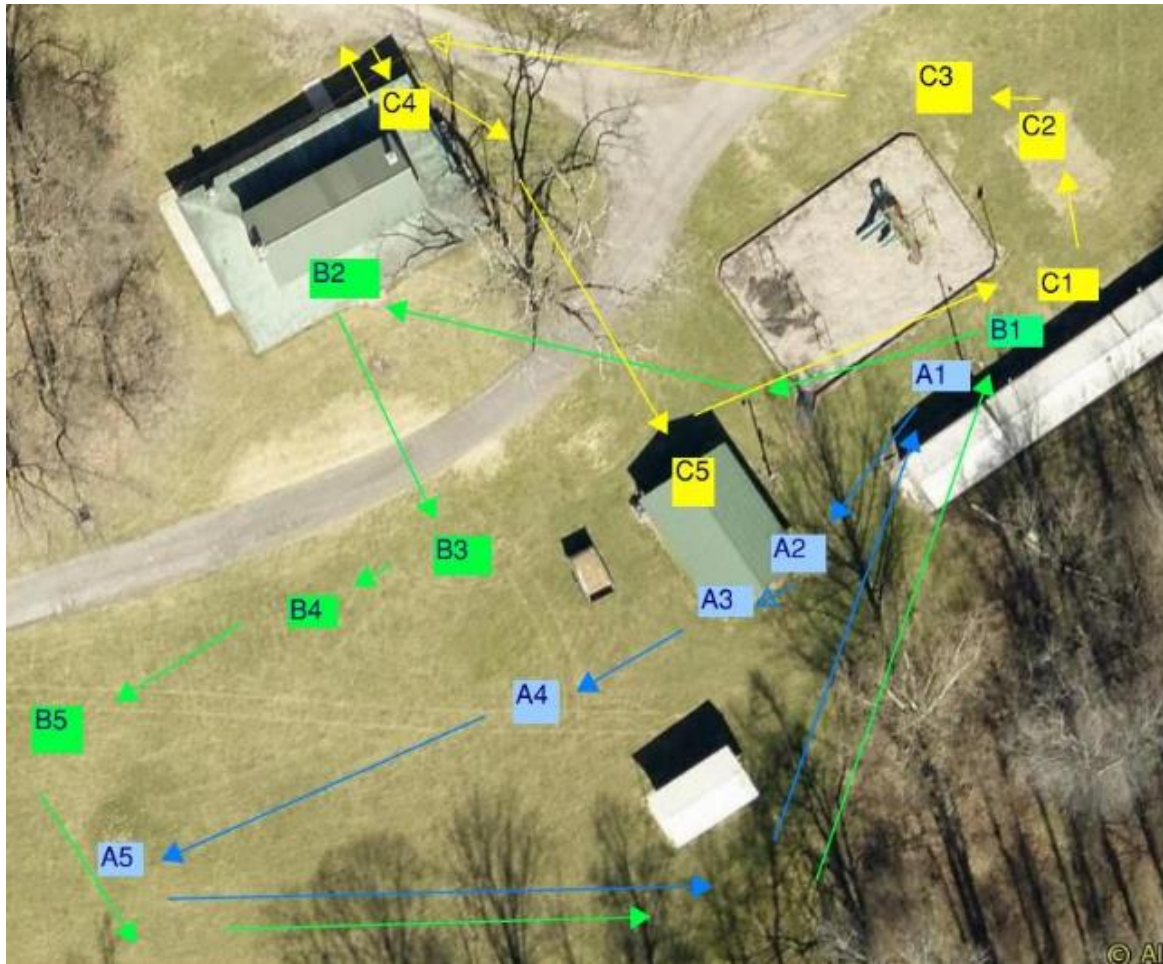
CMS King & Posciask (~151 students)

April 10th Afternoon Session:

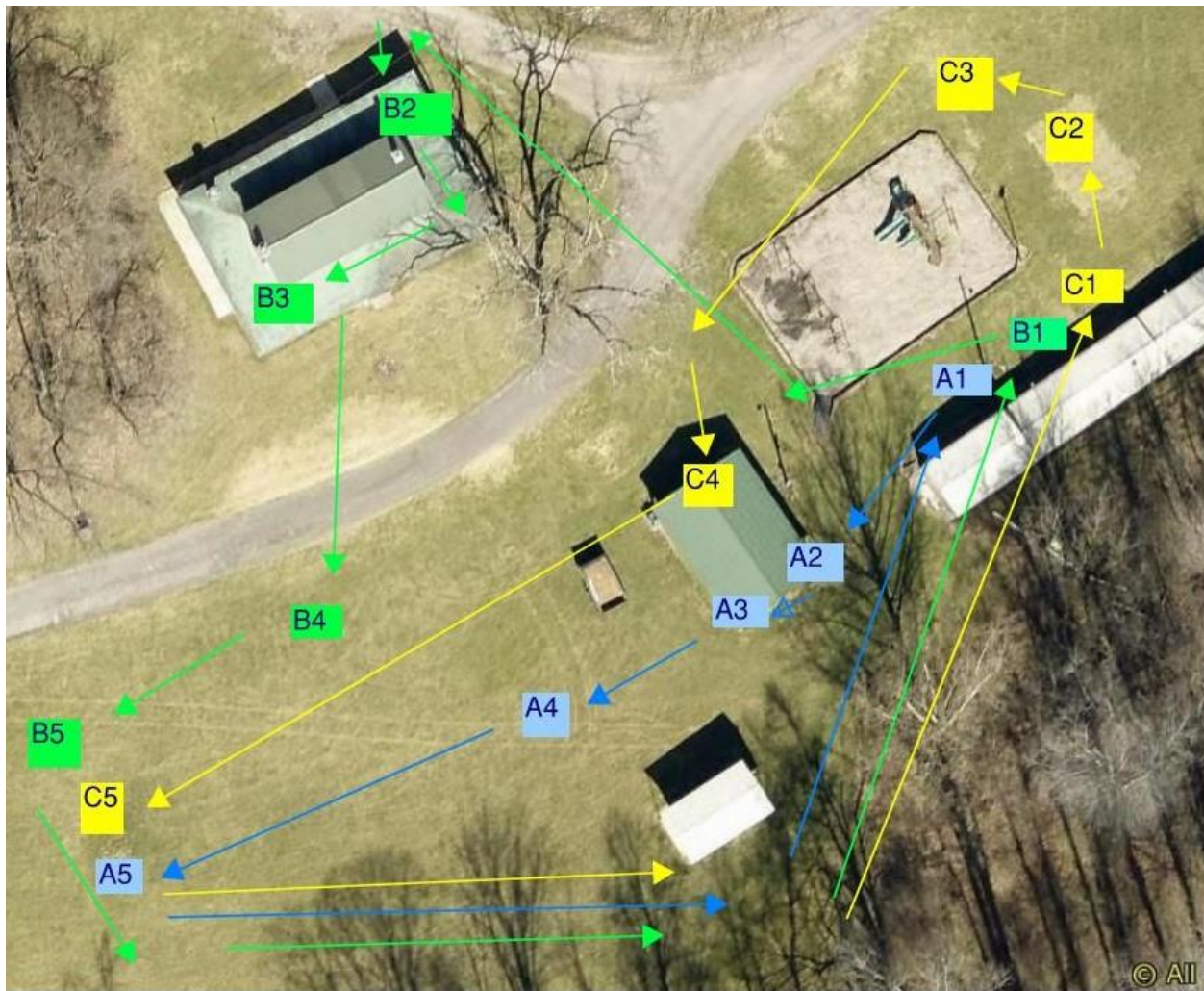
AMS - Donegan (~99 students)

CMS Wenger (~103 students)

Sent from my iPhone



	TUESDAY		
	Rotation A	Rotation B	Rotation C
1	Trout Run (Mike B and Lesa M +others)	Trout Run (Mike B and Lesa M +others)	Trout Run (Mike B and Lesa M +others)
2	Stream Table (John am/Kafi pm)	Ground water model (Tues- Erin Ling) inside	Ward's Flood model (Clayton and Pat M)
3	Benthic Macros-Bethany Bookout	Stream Team (Tues)	Master Gardeners (Wendy Silverman +)
4	Enviroscape (Patricia am/ John pm)	Rain Barrel - Katelyn/Emily	AR Sandbox (inside) (Tony)
5	Fishing Pole/Fly Casting (IWL volunteers)	Fishing Pole/Fly Casting (IWL volunteers)	Benthic Macros -DEQ (shelter)



WEDNESDAY			
	Rotation A	Rotation B	Rotation C
1	Trout Run (Mike B and Lesa M +others)	Trout Run (Mike B and Lesa M +others)	Trout Run (Mike B and Lesa M +others)
2	Stream Table (Kafi)	AR Sandbox (inside) (Tony)	Ward's Flood model (Clayton and Pat M and Grace B)
3	Benthic Macros-Bethany Bookout	Ground water model (Wed - Brette)	Master Gardeners (Wendy Silverman +)
4	Enviroscape (John)	Rain Barrel - Katelyn/Emily	Benthic Macros -DEQ (shelter)
5	Fishing Pole/Fly Casting (IWL volunteers)	Fishing Pole/Fly Casting (IWL volunteers)	Fishing Pole/Fly Casting (IWL volunteers)

Appendix C: List of Illicit Discharges

Table 6: 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:
Discharging outfalls	under investigation		detected during screening	no resolution. Multiple outfalls noted to be discharging during screening. Suspect springs and streams piped to storm sewer.	Investigation during extended dry weather	Remains open as investigations continue.
Resident asked Justin St Clair about trash in the stream behind the mall (UT to Slate Branch) and whether the Town did stream clean ups at that location	Specific source of trash not found. Illicit discharge not investigated	Reported 8/31/2020	Reported by Public	Not resolved	None	Closed 6/30/2024 no additional reports
Mulch in road and storm drains from vehicles leaving American Mulch on College St (100 Radford St). Reported as an intermittent problem requiring the Town to use the street sweeper to clean up the road		Reported on 6/1/2021 as an ongoing concern	Reported by TOC employee	Did not visit site prior to 6/30/2021	Discussion of how to document and charge for cost of Town cleaning up spills	ongoing as of 6/30/2022 as we received a new complaint for the same issue on 7/20/2022, Open until determination on requirements of site to control mulch. No complaints 23-24 reporting year

Outfalls discharging at Public Works yard	no source found	3/30/2022 and one discharging 4/5/2023 during dry weather screening	Town employees were mapping the outfalls at the Public Works facility and saw that two outfalls were discharging what appeared to be clear water	Both outfalls are connected to the same DI in the parking lot. No evidence of water flowing over parking lot. One of the same outfalls was flowing in 4/2023 during screening	The storm drain system at the Public Works yard will be re-mapped over the next year, as one of these outfalls was reported as being removed/sealed.	Mapping was groundtruthed and updated and discharging outfalls are likely piped springs. Investigation closed.
Unknown pipes are in the stream behind Alder Lane pond.	source not found	1/25/2022	Detected during Town inspection of adjacent Town owned SWM facility	Pipes were checked twice and do not appear to be connected to any source. Appear to be old drain pipes	rechecked 2/10/2022. Will be checked again at next inspection of adjacent Alder Lane SWM facility. As of 6/23/2023 was not rechecked.	Closed
Trash complaint for trash on and around N Franklin St Kroger and blowing into the adjacent park and stream	Kroger lot, possibly dumpsters	2/15/2023	Reported by Public	Management of dumpsters on private property is covered under the Zoning section of the Town code, so this was handled by Town Administration and the Planning Dept. The Town Manager called Kroger and spoke to the manager. In April 2023, P Colatosti noticed a landscaper picking up trash in the Kroger parking lot. Communication with Town Administration/Planning Dept at that time indicated Kroger had been sent a violation notice. Enforcement is	Continued monitoring of area by Town employees.	Open pending inspection after vegetation dies back and zoning violation is resolved

				being held off until the vegetation dies back in fall 2023 to see if the trash problem has been fully addressed.		
350 College St "Algae Bloom?"	TOC received a call from Mr. Mueller at 350 College St. He stated that there is a large amount of strange algae in the stream behind his house	3/20/2023 and 4/13/2023 and 5/12/2023 (last two are really about the smell) (Reported by two different residents on different days) Combined with previously reported complaint from 1/6/2023	Reported by Public	Not resolved. C Morgan walked this section of stream in March and May 2023 and documented the mats of brown and white algae. There is no algae or smell or white/grey substance in the stream upstream of Radford St.	Continued visits over the summer suggest that this problem washes out after heavy rains and may be seasonal. There is also a significant amount of mulch washing into the stream from a mulch yard on College St. Contacted DEQ for any help on algae issues and have possible contacts at VT and Ferrum. Investigation continues.	Open On 7/7/2023 received a phone call from Mr. Mueller stating the smell and algae were gone after several large storm events. Investigation still open as this has happened before.
Reagan's Pointe storm sewer dry weather discharge	significant flows coming out of a storm drain into the Reagan's Pointe SWM facility during a permanent stabilization inspection. Strom drain was flowing more than 24 hours after rain event and all other storm drains in	4/28/2023	Reported by Town Employees	Public Works tested the water on 4/28/23 and confirmed it was not a potable water leak and it was not sanitary sewer. Source was narrowed down to be under Glade Dr. Public Works will be asked to camera the lines to see if a pipe was connected when the storm sewer was installed. Follow up will be conducted to see if this is likely a spring	Will need to have a camera run through the storm drain under the new section of Glade Dr in the Reagan's Pointe subdivision. Possibly a pipe connection under the road. Monitoring for any continued flows	Moved to discharging outfalls investigations.

	the area were dry.			<p>piped to the storm drain. A. Shaw checked area on 5/2/23 and the pipe was dry.</p>		
Christiansburg High School Sanitary Sewer overflow dumped in storm drain	Sanitary Sewer overflow in CHS kitchen collected and then dumped into storm drain.	Occurred on 10/18/2023, reported on 10/19/2023	Reported by MCPS staff	Philip Hash from MCPS called on 10/19/2023 to report a mix of sewer wastewater and cleaner was dumped into the storm drain off the loading dock at CHS around 1 pm on 10/18/2023. The sanitary sewer had backed up in the kitchen during lunch and staff had used a shop vac and cleaner to clean it up and then dumped it. This was addressed under their SWPPP for the site and also reported to DEQ by TOC.	down stream stormdrain investigated by C Morgan. Maps in file.	10/19/2023
Resident call about pipe discharging across their property	New owner at 935 Montgomery St, Matthew Thompson, 540-514-2761, asked about a suspected discharge from his neighbor via a pipe across his property and	1/23/2024	Reported by Public	Description of pipe discharge and location suggested a piped spring. Resident did not grant access to property but was interested in doing water testing himself. Gave him name and email of well water testing program at VT	none besides getting description of source of water and pipe from resident. Location suggests a piped spring	1/23/2024

	to Crab Creek. Called on 1/23/2024.					
Christiansburg Livestock Marked	Anonymous complaint to neighborhood services about the Market storing large amounts of manure. Caller expressed concern that the manure was being washed into creek..	2/7/2024	Reported by Public	Clayton Morgan inspected on 2/8/2024 and did not see signs of manure in stream (see pictures). Will be handled by neighborhood services	None	2/8/2024
N Franklin Gas Line Drilling	Drilling personnel observed spraying water on N Franklin.	2/8/2024	Reported by Town Staff	Clayton Morgan visited the site soon after the observation. Workers stated that they sprayed off a small section of N Franklin to clear the area of mud. Soil was shoveled first and the rest was washed away. A small amount of sediment was observed on N Franklin (see photos).	None	2/8/2024

Grease Discharge from Arby's	Grease observed at Arby's outfall pipe in Market Place stormwater detention pond. Pictures in folder.	5/1/2024	Found by Town Staff during inspection of adjacent Stormwater BMP	Not resolved but does not appear to be ongoing	<p>4/30/2024- Noticed discharge</p> <p>5/1/2024- Talked to manager, walked site, found inlet where oil was poured into storm system. Manager unaware of discharge, said it couldn't have been Arby's employees. Manager will call me back after talking to employees. Walked stream below Arby's near Huckleberry Trail, no signs of grease/oil.</p> <p>5/28/2024- Pictures taken. Oil visible but no signs of new discharge. No odor.</p> <p>6/26/2024- Picture taken. Oil still coating vegetation around outlet. No odor or signs of new discharge.</p>	Open
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Crab Creek dyed blue green	Report of Blue green water in Crab Creek	6/11/2024	Reported by Public and Town Staff	Town Staff were forwarded a post to the Everything Christiansburg Facebook page about an intense blue green color in Crab Creek adjacent to Diamond Hills Park. Town staff investigated. No unusual color was found nor any obviously distressed wildlife observed upstream or downstream of the reported site. Speculate pond dye added to stream.	None	6/11/2024
Water Line Break Stone St NE	Potable water line break on Stone St	10/18/2023	Reported by Town Staff	The following was sent to DEQ: Potable water and associated sediment was discharged to Towne Branch at the Southwest corner of the the intersection of Stone St NE and Depot St NE starting on 10/18/2023. This discharge appeared to be primarily through the Town's MS4 system. The discharge has stopped. A previously uncharacterized drain, located at lat 37.1356, long - 80.4102, was simultaneously discharging increased amounts of water and sediment. An investigation on 10/19/2023 did not encounter any dead fish and recorded many live ones. Recent sediment	Reported to DEQ due to impact to stream with sediment deposition through tile drain	10/19/2023

				deposition from the previously uncharacterized drain appeared to end approximately 700 ft downstream of its discharge. The drain appears to be a tile drain under Depot St and not part of the storm sewer system.		
--	--	--	--	--	--	--

Appendix D:
Documentation of Land Disturbance Complaints and Comments/Complaints on MS4 Program Plan

Town of Christiansburg 2023 –2024 MS4 Annual Report

MCM2 – Complaint Land Disturbing Activities

Location/Project Name	Date	Description of Response
Birds Nest	7/5/2023	A resident in an adjoining development stated that the SWM facility at Birds Nest does not hold water. Repeated site visits showed that it does hold water.
1465 South Franklin St	8/21/2023	A call was received about dirt washing into the stream from erosion at a newly installed power pole. Carl Correll investigated and referred the matter to AEP
Peppers Ferry Storage	11/14/2023	Adjacent downstream landowner Cristine Ryplansky contacted the Town about getting new large volumes of water into the channel on her property. She claims it is muddy where it was not muddy before. P Colatosti called Ms. Ryplansky back and explained that the spring was now flowing again due to the new pipe alignment. It probably has not freely moved in 10 - 20 years. Also sent her the plan sheet showing the spring and the construction plans
Magnolia Point	1/3/2024	Tracking onto New Village Dr. Reported by Daria Eirich with TOC. Cole Hammonds investigated and contractor was directed to sweep the street
Magnolia Point	1/31/2024	Tracking onto New Village Dr. Reported by Daria Eirich with TOC Cole Hammonds investigated and contractor is now sweeping the street multiple times a day. Surge stone has been removed in preparation for grading.
1195 King Street	3/11/2024	Complaint of grading and moving boulders. Alan Shaw investigated. Under 10,000 sf of land disturbance
Proposed Dollar General	3/21/2024	, Complaint from Johnny Jones regarding contractor for Dollar Gen trespassing and cutting trees outside of LOD. Cole Hammonds Investigated and determined contractor was within the LOD and the trespassing claim was a civil matter between the two parties.
Clifton Towne Center Phase I	4/23/2024	Alan Shaw checked on a dust complaint
Round Meadows	4/25/2024	Received phone complaint from contractor at Meadows regarding EC Pace tracking stone onto Round Meadow dr, upon investigation crews had already swept the stone from the road.
RWW36 Grading Plan 850 North Franklin Street	5/6/2024	Alan Shaw checked on a complaint that included, "The site LOD is not marked. The silt fence is down or not existing. There is no construction entrance.. There is no silt drainage." And no posted permits

FSED	6/4/2024	Complaint received from resident, "A few main concerns include significant tracking and mud in the road and occasionally in my driveway, trucks lined up on the street blocking the view from my driveway, and the backing of large trucks up through the drainage ditch in the back of my yard and into my yard. This has been going on for a while, but has gotten worse through the spring. They also start construction as early as 5:30 am all days of the week", Cole Hammonds resolved complaints with contractor
Lester Place Townhomes	5/29/2024	An email was received about minor flooding at Lester Place Townhomes which the sender associated with land disturbance on an adjacent parcel. Carl Correll responded and meet the citizen on site on 6/6/2024. Rain event was a 10 - 25 yr storm event and land disturbance did not appear to be the cause.
Alvis Laing Electrical	6/21/2024	Complaint of outlet protection having too many rocks and impeding mowing in drainage easement on adjacent property. Alan Shaw investigated. OP appears to be installed per plan.
250 Roudabush	6/20/2024	The Building Official received a call and an email about land disturbance on the adjoining parcel and impervious area allowed on residential properties. Carl Correll responded. The disturbance was under 10000 sf. The Town responded to the question about regulated impervious area on residential properties via email on 7/8/2024

MCM2 Comment/Complaint MS4 Program Plan

Comment/Complaint	Date	Description of Response
A resident on Slate Creek Dr. called to request the Town property behind her house on Slate Creek Dr have the creek/stream/ditch cleaned out of sediment and mud. She claims that the HOA is mowing the Town property because the Town won't. Also that two fawns had to be pulled out of the mud the prior week to her call.	7/5/2023	P Colatosti tried to explain that this area was becoming a wetland, and any restoration was more likely to be planting appropriate wetland plants and leaving it alone. Also tried to explain that the Town would not have the final say over any plans to change or modify what was almost certain Waters of the US and waters of the Commonwealth. The resident did not want a return call unless the Town was changing management practices or implementing a stream restoration that involved dredging and removing mud
A resident on Slate Creek Dr. complained that the vegetation on the Town property from the edge of where it is mowed behind her house west to Walters Drive is all dead	7/5/2023	site visit showed some dead vegetation. The area is a wetland. It is also possible that AEP killed some vegetation in their easement The resident did not want a return call

A resident whose property backs up to the Town's Blue Leaf Stream Restoration complained about tall grass.	7/12/2023	An investigation showed that the tall grass is in the conservation area and the vegetation management plan is being properly followed. The resident received an email explaining that the area with the tall grass was in the conservation area and being maintained correctly.
The Town received a call through the Finance Department about regulations surrounding a mobile car detailing business	4/23/2024	Response was coordinated through the Finance dept that discharge from a mobile car detailing service is not allowed to enter the storm drain system per Town code.
A resident on Sleepy Hollow Rd contacted the Town to follow up on a stream restoration/stabilization study that had been conducted in 2021 for the drainage way behind their home.	5/17/2024	Multiple responses from the Town were sent about the drainage easement covering the stream area and that implementation of the restoration project was on an indefinite hold.

Appendix E: Documentation of Staff Training and Nutrient Management Plan Implementation

MS4 Bi-Annual Training

Sign-In Sheet

Topic: Illicit Discharge Detection and Elimination

Location: Operations Center

Topic: Operations Center and Wades Lane Landfill SWPPP Procedures

Meeting Hours: 1.0

Date: June 4, 2024

Provided by: Travis Moles

Print Name

Signature

Samantha Haxk

[Signature]

Donald Seymour ^{III}

[Signature]

Garrett Allen

[Signature]

Jacquie Peyton

[Signature]

Michael Price

[Signature]

Jersey Loren

[Signature]

Timothy Tucker

[Signature]

Ryan Williams

[Signature]

John Stewart

[Signature]

Roger Leonard

[Signature]

Daniel Robertson

[Signature]

Jamie Boston

[Signature]

Bobby Flinchum

[Signature]

Travis Moles

[Signature]

Kenny Oyster

[Signature]

Ben Gilmer

[Signature]

MS4 Bi-Annual Training

Sign-In Sheet



Topic: Illicit Discharge Detection and Elimination

Location: Operations Center

Topic: Operations Center and Wades Lane Landfill SWPPP Procedures

Meeting Hours: 1.0

Provided by: Travis Moles

Date: June 4, 2024

Print Name

Signature

James Collins
Freddie Price
Russell Eroseclose
Kenny Franklin
John Moore
Kevin Poff
Jim Lascianere
Anthony Church
Katie Perry
C GOAD

James Collins
Freddie Price
Russell Eroseclose
Kenny Franklin
John Moore
Kevin Poff
Jim Lascianere
Anthony Church
Katie Perry
C GOAD

MS4 Bi-Annual Training



Sign-In Sheet

Topic: Illicit Discharge Detection and Elimination

Location: Operations Center

Topic: Operations Center and Wades Lane Landfill SWPPP Procedures

Meeting Hours: 1.0

Date: 6-5-24

Provided by: Travis Moles

Print Name

Signature

Wesley Harris

Wesley Harris

Curtis Williams II

Curtis Williams II

James Witt

James Witt

Richard Weber

Richard Weber

Trent Yates

Trent Yates

Travis Lester

Travis Lester

Scott Harris

Scott Harris

Chase McKittrick

Chase McKittrick

Robert L. Lewis SR

Robert L. Lewis SR

Josh Dickerson

Josh Dickerson

James Boffington

James Boffington

Jacob Woods

Jacob Woods

Cole Albert

Cole Albert

MS4 Bi-Annual Training

Sign-In Sheet



Topic: Illicit Discharge Detection and Elimination

Location: Operations Center

Topic: Operations Center and Wades Lane Landfill SWPPP Procedures

Meeting Hours: 1.0

Provided by: Travis Moles

Date: 6-5-24

Print Name

Signature

Randy LAWRENCE

Chris R. Matter

Evan Phillips

Trevor Quesenberry

Andrew Reed

Billy Woodwine

Scott Winselt

Donis Schack

Randy Turman

CHRIS DOUGLAS

Lloyd Lopes

Carl Light

Leon Martin

Walling Starney 3rd

THOMAS SULLIVAN

GARRY moore

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MS4 Bi-Annual Training

Sign-In Sheet



Topic: Illicit Discharge Detection and Elimination

Location: Operations Center

Topic: Operations Center and Wades Lane Landfill SWPPP Procedures

Meeting Hours: 1.0

Provided by: Travis Moles

Date: June 6 2024

Print Name

Signature

Brandon Collins

Chase Smith

Dondi Roberson II

WILLIAM MONSEN

Joshua Huff

Chris Yon

Heather Dodd

David Haskins

[Signature]

Chase Smith

Dondi Roberson II

WILLIAM MONSEN

Joshua Huff

Chris Yon

Heather Dodd

David Haskins

MS4 Bi-Annual Training

Sign-In Sheet



Topic: Illicit Discharge Detection and Elimination

Location: Operations Center

Topic: Operations Center and Wades Lane Landfill SWPPP Procedures

Meeting Hours: 1.0

Date: 6-11-24

Provided by: Travis Moles

Print Name

Signature

Caleb Fellows

Caleb Fellows

Christopher Martin

Christopher Martin

Roger Domingues

Roger Domingues

Cody Sower

Cody Sower

Jacob Gilmore

Jacob Gilmore

Austin Kendrick

Austin Kendrick

Dalton Reynolds

Dalton Reynolds

Ray Willis

Ray Willis

Paul Shrewsbury Jr

Paul Shrewsbury Jr

Steven Witt

Steven Witt

Greg Rana

Greg Rana

Justin Shepherd

Justin Shepherd

Mark Gillispie

Mark Gillispie

Borden Wright

Borden Wright

MS4 Bi-Annual Training

Sign-In Sheet

Topic: Illicit Discharge Detection and Elimination

Topic: Stormwater Good Housekeeping Procedures

Provided by: _____

Print Name

Thomas Price Jr

Joshua Curtis

Tony Caldwell

Mason Gray

David Watson

Jilliann Kowalcik

Anna Henderson

Heisha Jeffery

Daniel H. Flinchum

Laura Sandford

William G. Wicks

Christopher Terry

Nathan Destree

Scott Copport



Location: CAC

Date: 6-3-2024

Signature

Thomas Price Jr

Joshua Curtis

Tony Caldwell

Mason Gray

David Watson

Jilliann Kowalcik

Anna Henderson

Heisha Jeffery

Daniel H. Flinchum

Laura Sandford

William G. Wicks

Christopher Terry

Nathan Destree

Scott Copport

MS4 Bi-Annual Training June 2024

Sign-Off Sheet- EPI

Topic: Illicit Discharge Detection and Elimination



Name	Date viewed training
Patricia Colatosti	05/09/2024
Daria Eirich	06/03/2024
Devon Shields	06/04/2024
Don Cole	06/05/2024
Caroline Collins	06/06/2024
Grace Byrd	06/21/2024
Clayton Morgan	06/21/2024
Alan Shaw	6/21/2024
Cole Hammonds	6/21/2024
Carl Correll	6/24/2024
Retta Jackson	6/24/2024
Dayton Poff	6/25/2024
Meredith Jones	6/25/2024
Jerry Heinline	6/26/2024
Dari Jenkins	06/26/2024
Bane Compton	6/27/2024
Michael Kelley	6/27/2024
Joey Penca	6/28/2024

Nutrient Management Plan Application Records

Date/Time	Who Applied Pesticides	Who Owns Property	Total Area	Problem Treated	Product Used	Equipment Used	Quantity Applied	Detailed Weather
1 8/2/19	Rodney Jordan	Town of Cherry	5.1 acres	insects & outfields	Chlorothal-nail	John Deere	960 cc	Partly Sun / light rain
2 8/2/19	Rodney Jordan	Town of Cherry	5.1 acres	insects & outfields	Metenolam	John Deere	236 cc	Partly Sun / light rain
3 8/25/20	Steven Lowe	Hartford / Town	5.1	" "	Escalade	Shovel on Sprayer	400 cc	Sunny
4 8/30/21	Steven Lowe	Hartford / Town	7 acres	" "	Armosa	Shovel on Sprayer	5 1/4 lbs	Sunny
5 9/3/21	Steven Lowe	Hartford / Town	7 acres	insects & outfields	Solitare	Shovel on Sprayer	10 lbs / water	Sunny / Calm
6 6/17/22	Steven Lowe	Hartford / Town	7 acres	" "	Escalade	Shovel on Sprayer	236 cc	Sun / Wind 5-10
7 8/17/22	Steven Lowe	Hartford / Town	7 acres	insects & outfields	Solitare	Shovel on Sprayer	110 cc	Sun / 72°
8 8/17/22	Steven Lowe	Hartford / Town	2 acres	outfields	Di-10 Dime	Shovel on Sprayer	100 cc	Sun / 72°
9 3/16/23	Steven Lowe / SLC	Hartford / Town	2 acres	insects & outfields	19-0-6	Shovel on Sprayer	888.6 lbs	Sunny
10 3/16/23	Steven Lowe / SLC	Hartford / Town	2 acres	outfields	19-0-6	Shovel on Sprayer	348.4 lbs	Sunny
11 9/12/23	Steven Lowe / SLC	Hartford / Town	7	outfields	Di-10 Dime	Shovel on Sprayer	120 galls	Sun / 64°
12 9/13/23	Steven Lowe / SLC	Hartford / Town	2 acres	outfields	Di-10 Dime	Shovel on Sprayer	35 galls	Sun / 60°
13 9/17/24	Steven Lowe	Hartford / Town	10 acres	outfields / outfields	Solitare / Escalade	Shovel on Sprayer	400 cc	Sunny / Calm
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