



Town of Christiansburg, Virginia

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# Municipal Separate Storm Sewer System Annual Report

For

General Permit No. VAR040025

Permit Year

July 1, 2020 through June 30, 2021

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

Submitted: October 1, 2021

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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.2.a)

Permittee Name: Town of Christiansburg

Permit Number: VAR040025

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

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

July 1, 2020 - June 30, 2021

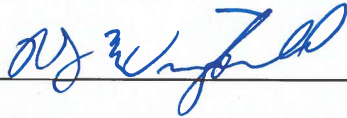
### 1.3. Signed Certification (Part I.D.2.c)

A signed certification as per Part III K

Printed Name: Randy Wingfield

Title: Town Manager

Signature:



Date:

9-30-21

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

Include information for each annual reporting item specified in Part LE:

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

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

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

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

Table 1: Summary of MS4 Program Plan Changes

**MCM #2 Public Involvement and Participation:** Due to COVID-19 restrictions, in-person public participation activities were either not allowed or restricted. As such, the Town continued to use two monitoring groups' activities for two of the four required events and participated in Montgomery County and Virginia Tech's self-reporting stream clean ups and pet waste clean-up programs, as well as adding a monitoring group for the Diamond Hills Stream Restoration. The program plan is being updated to include all COVID-19 restriction adjustments. Documentation for the MCM #2 activities for the reporting year are in Appendix B.

**MCM #3 Illicit Discharge Detection and Elimination:** The Town's monitoring, documentation, and enforcement procedures were determined to need review, including documentation 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 are being looked at within the bounds of the current Town code. The Town has also hired additional staff and is reallocating staff duties to better address these issues.

**MCM #5 Post-construction Stormwater Management:** The Town is reviewing the Program Plan to evaluate a change to a targeted approach to inspecting the privately owned stormwater management facilities as detailed in the Town's 2020 update to the Sediment TMDL Action Plan. The Town has hired additional staff and is reallocating staff duties to ensure that all privately maintained stormwater management facilities are inspected no less than once per five years. The Town is still catching up on deferred maintenance to the Town owned/operated stormwater management facilities. Reporting year inspections were completed in February 2021 and maintenance should follow in fall/winter 2021-22. The original delay in 2020 was communicated to DEQ and documented in the 2020 Annual Report. The program plan is being updated to include this delay in maintenance and inspections.

#### MCM #6

**Nutrient Management Plans:** The program plan is being updated to reflect changes in areas receiving nutrients. The Christiansburg Aquatic Center grounds are no longer being fertilized and will be removed from the list. The Depot Park Field was determined to only have 0.5 acres fertilized and falls under the 1 contiguous acre requirement. This area will be removed from the list. The Kiwanis Park ball fields are managed by the Town of Christiansburg under an agreement with the Kiwanis Club and a nutrient management plan is in place for those fields.

## 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)	Media & Traditional Written Materials	Articles in the Christiansburg Connection newsletter and posted on the Town's website and/or Facebook page.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
2	Education on special water quality concerns (E. coli)	Media & Traditional Written Material	Articles in the Christiansburg Connection newsletter and posted on the Town's website and/or Facebook page.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Education on Stream Health (Stream restorations, lawn care/sediment)	Media & Traditional Written Material	Articles in the Christiansburg Connection newsletter and posted on the Town's website and/or Facebook page.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Education on Stream Health (Stream restorations, lawn care/sediment)	Signage	A permanent sign was installed along the Town Branch stream restoration in Depot Park in March 2021.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

3	Education on Stream Health	Speaking engagement	Presentation to the New River Regional Roundtable on stream restoration projects in Christiansburg	<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 2020 Public Drinking Water Quality Report. Report disseminated on paper and via Town webpage and Facebook	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

Were all MCM #1 communications accomplished to the intended public audience indicated in the MS4 Program Plan? ☒ Yes (Effective) ☐ No (Ineffective)

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



## 2.2. MCM #2: Public Involvement and Participation

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

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

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

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

Table 3: Public Input or Complaints and Responses
<p>Input/Complaint Illicit Discharges/Spills: 20 Reported Complaints</p> <p>Response: Site visits by Town employee or Fire Department per Town's IDDE Manual</p>
<p>Input/Complaint Land Disturbing Activities: 25 Reported Complaints</p> <p>Response: Response by Environmental Inspector within 24 hours of complaint</p>

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

A webpage address to the MS4 program and stormwater website:

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

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

A description of the public involvement activities implemented:

A description of the implemented public involvement activities is provided in Table 4.

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

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

A report of the metric as defined for each activity and an evaluation as to whether or not the activity is beneficial to improving water quality is provided in Table 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 Diatom Study	Collect samples	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Stream Monitoring Towne Branch Native Plant monitoring and remediation	Continue survey/remove invasive plants	No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Stream/Wetland Monitoring: Biodiversity survey at Diamond Hills stream restoration and wetlands	Report returned to Town of Christiansburg	Virginia Tech	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Restoration: Towne Branch Stream Cleanup in Depot Park on 4/21/21	4 small bags of trash, 7 participants	Virginia Tech	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Restoration: Diamond Hills stream cleanup on 4/30/2021	3 bags of trash, 8 participants.	Virginia Tech	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Pollution Prevention: Regional Grass Roots Watershed Improvement Effort	Participation within the Town of Christiansburg	Virginia Tech, Montgomery County, Town of Blacksburg	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

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

If applicable, the name of other MS4 permittees collaborated with for any of the public involvement opportunities are provided in Table 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 <input type="checkbox"/> No
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 type="checkbox"/> Yes <input checked="" 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.2.e)

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

Were all MCM #2 responses Yes or Not Applicable?

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

Due to an oversight, the 2020 MS4 Annual Report was not posted within 30 days of submission to DEQ. The 2020 MS4 Annual Report was posted on April 29, 2021. The documentation from the Towne Branch Stream Monitoring Diatom Study is incomplete, as Mr. Orcutt, the stream monitor, is severely ill. Additional Public Participation activities were added to account for this missing information.

The Program Plan is still considered to be effective, as the 2020 MS4 Annual Report was posted to the webpage and additional Public Participation activities were provided.

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)

### 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 58. This represents 41% of the total outfalls.

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

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

Were there any illicit discharges to the MS4 including spills reaching the MS4?  
☒ Yes (Refer to 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 compatible shapefile submitted to DEQ?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.1	Was written notification provided to any downstream adjacent MS4 of any known interconnection established or discovered during the permit reporting year?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (No new or discovered) <input type="checkbox"/> No
3.2	Were all reported or observed non-stormwater discharges eliminated?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.2	Were inspections, surveillance, monitoring and enforcement procedures in response to all reports implemented?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
3.3	Were illicit discharge detection and elimination procedures implemented, enforced and documentation maintained?	<input type="checkbox"/> Yes <input checked="" 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, a mulch discharge issue in a subdivision, and a trash issue in at least two streams. These investigations are ongoing as solutions are sought. Additionally, several reports occurred towards the end of the reporting year and monitoring continues into the 21-22 reporting year. An outfall at the Town's Public Works Operations Center was removed in August 2020 and was not updated on the Town's storm sewer map and outfall information table by June 30, 2021. The Town's monitoring, documentation, and enforcement procedures were determined to need review, including documentation 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 are being looked at within the bounds of the current Town code. The Town has also hired additional staff and is reallocating staff duties to better address these issues.

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.d(2))

Total number of inspections conducted:

The total number of site stormwater runoff inspections conducted for regulated land disturbance activities is 1,734.

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

The total number and type of enforcement actions implemented:

The total number of enforcement actions implemented is 2.

The total number of Notices to Comply issued is 2.

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

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

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

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.i (1))**

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

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

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

The number of privately-owned stormwater management facility inspections conducted is 0.

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

The number of enforcement actions initiated by the permittee to ensure long-term maintenance of privately-owned stormwater management facilities including the type of enforcement action:

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

The type of enforcement actions issued are Not Applicable.

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

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

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

The total number of inspections conducted on stormwater management facilities is 27.

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

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

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

☒ Yes ☐ No (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
White Pine Ct.	<ul style="list-style-type: none"> <li>Removed brush</li> </ul>
VDOT Pond on Quin W Stuart	<ul style="list-style-type: none"> <li>Removed brush</li> </ul>
VDOT Pond Behind First Church of the Nazarene	<ul style="list-style-type: none"> <li>Removed brush</li> <li>Grass seed</li> <li>Straw matting</li> <li>Rock in the outfall</li> </ul>



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

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

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

- ☐ Yes ☒ No (All stormwater management facility information for stormwater facilities installed during the reporting year was submitted through the Virginia Construction Stormwater General Permit database. An email was sent to [constructiongp@deq.virginia.gov](mailto:constructiongp@deq.virginia.gov) inquiring about updating the incomplete information submitted in previous years. There has been no response. A copy of the email was provided in the 2020 Annual Report.)

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

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

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

- ☐ Yes, Date Submitted: NA ☐ No ☒ Not Applicable (No SWM facilities constructed or BMPs implemented.)

#### **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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5.1	Did all regulated land disturbance activities have a Town approved SWM plan?	<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 stormwater management facility tracking database updated?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable (No new or discovered) <input type="checkbox"/> No

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

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

Were all MCM #5 responses Yes or Not Applicable?

☐ Yes (Effective) ☐ No (Ineffective) ☒ No (Plan still effective, see 2.5.4 and 2.5.2 and below)

The Town did assist one HOA with maintenance on their stormwater management facility and has assisted two other properties with requests for information on their stormwater management facilities. The Town is reviewing the Program Plan to evaluate a change to a targeted approach to inspecting the privately owned stormwater management facilities as detailed in the Town's 2020 update to the Sediment TMDL Action Plan. The Town has hired additional staff and is reallocating staff duties ensure that all privately maintained stormwater management facilities are inspected no less than once per five years. The Town is still catching up on deferred maintenance to the Town owned/operated stormwater management facilities. Reporting year inspections were completed in February 2021 and maintenance should follow in fall/winter 2021-22. The original delay in 2020 was communicated to DEQ and documented in the 2020 Annual Report. The program plan is being updated to include this delay in maintenance and inspections.

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

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

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

☐ Yes (Refer to Table 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.q(2))

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

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

☐ Yes (Refer to Table 12) ☐ No ☒ Not Applicable (No new high priority facilities)

Table 12: New SWPPPs Developed

SWPPP Name	SWPPP Address

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

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

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

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

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

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

If “Yes” is checked above, the rationale is provided for any high priority facilities delisted in accordance with Part I.E.6.h during the reporting period in Table 13.

Table 13: SWPPPs Modified or Delisted

SWPPPs Modified/Delisted	Rationale for Delisting

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

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

Were any new turf and landscape nutrient management plans developed?

☐ Yes (Refer to Table 14) ☐ No ☒ Not Applicable (Not required this permit year)

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

The location and the total acreage of each land area:

If “Yes” is checked above, the location and total acreage of the land area for any newly developed nutrient management plan is provided in Table 14.

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

The date of the approved nutrient management plan:

If “Yes” is checked above, the approval date of any newly developed nutrient management plan is provided in Table 14.

Table 14: New Turf and Landscape Nutrient Management Plans

Location	Total Acreages	Date Approved
NA, no new Nutrient Management Plans		

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

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

Was training conducted?

☒ Yes (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.m is provided in Table 15.

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

The date of the training event:

If “Yes” is checked above, the date of the training event is provided in Table 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
06/29/2021	4	Good Housekeeping, IDDE for Park and Recreation staff. Training done as a stream walk and park maintenance discussion in a park

## 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
6.5	Did all signed contracts executed for pesticide and herbicide application maintain proof of certifications on file?	<input type="checkbox"/> Yes <input type="checkbox"/> Not Applicable <input checked="" type="checkbox"/> No
6.5	Did training occur and were proof of certifications maintained on file for employees performing pesticide and herbicide applications?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> Not Applicable <input type="checkbox"/> No
6.6	Were all signed contracts executed with contract good housekeeping and pollution prevention language?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

Were all MCM #6 responses Yes or Not Applicable?

☐ Yes (Effective) ☒ No

The Program Plan is still effective. Five contracts lacked the Good Housekeeping terms and conditions. Three of them were cooperative procurement contracts developed by other public bodies, and one was with Comcast as a backup ISP. None of the services for these 4 contracts are likely to result in an illicit discharge. Due to an oversight, a contract for hauling and spreading biosolids is missing the Good Housekeeping terms and conditions. It has been flagged to be included at contract renewal. The mowing contract included the option of spraying weeds in a limited area of sidewalk. No spraying of weeds per this contract was requested by the Town during the reporting year. The Town is pursuing obtaining proof of certification for this contract.

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.9)

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, events for 2020 and 2021 were cancelled) <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 (No web based information, but see print information Appendix E)
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
- Engineering for the Arrowhead Sewershed is at 90%



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

### 3.2.1. Sediment TMDL Implementation (Part II.B.9)

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 as applicable to the MS4 been completed 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
18	Have the Lomoor Channel and Christiansburg Industrial Park Detention Basin BMPs been installed?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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 Street Sweeping BMP

- 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.

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

Table 19: 2020-2021 POC Reductions	
<b>BMP #10: Street Sweeping – Crab Creek</b>	
Required tons of material swept	27.57 tons
Estimated tons of material swept	526 tons
<b>BMP #10: Street Sweeping – Roanoke River</b>	
Required tons of material swept	22.9 tons
Estimated tons of material swept	119 tons

### 3.3. Roanoke River PCB TMDL Action Plan

#### 3.3.1. PCB TMDL Implementation (Part II.B.9)

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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No (New coordination detailed in 2020 Action Plan update has not yet occurred)
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 <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 Christiansburg Connection

Newsletter for the Town of Christiansburg

March/April 2021



## COMMUNITY CORNER COVID-19 Vaccine

If you qualify for the current phase of vaccination, please pre-register at [NRVRoadtoWellness.com](http://NRVRoadtoWellness.com). If you are 75 or older, you can call the New River Health District's Vaccine Hotline 540-838-8222 to pre-register for an appointment. Please note that pre-registration is not an appointment to receive the vaccine. Pre-registration only places you in queue to then be scheduled for a vaccination appointment.

If you have pre-registered, the New River Health District will call you to schedule your appointment. Please save the Vaccine Hotline phone number (540-838-8222) in your contacts to avoid missing the call.

The Health District will provide you instructions on how to receive your second dose during your first dose appointment.

Regardless of whether you have received the vaccine, it is imperative that everyone still practice the three Ws—wear a mask, wash your hands and watch your distance. The light at the end of the tunnel that is COVID-19 is in sight, but the tunnel is long. We must continue to stay diligent in our efforts to protect ourselves, our neighbors and our community.

Not sure where to find the most up-to-date info about the COVID-19 vaccine? Visit [NRVRoadtoWellness.com](http://NRVRoadtoWellness.com) to learn more and to sign up for notifications and alerts as new info is received and current info is updated.

**Be committed.**  
**Be well.**

**Follow us!**  
**@CburgVAGov**



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](http://www.christiansburg.org/notifyme)  
Citizens Alert: [www.christiansburg.org/alerts](http://www.christiansburg.org/alerts)



THE PLACE TO BE.  
**CHRISTIANSBURG VA**

Have a question? Let us know!  
540-382-6128, ext. 1150  
[info@christiansburg.org](mailto:info@christiansburg.org)  
[www.christiansburg.org](http://www.christiansburg.org)

## IN THE KNOW

Spring is almost here, which means Spring Cleanup is just around the corner! Don't forget to place out your items April 10-23 for complimentary collection. Tax season is almost here, too! Learn about tax support offered at the Rec Center on page 2. Also, the BT Explorer Route is back! More on the next page. Happy spring, Christiansburg!

## HISTORY BEHIND THE SIGNATURE PARK

At the Nov. 10 Town Council meeting, a budget amendment to the Fiscal Year 2020-2021 budget was approved, which includes funding for a park off of Peppers Ferry Road—moving the project forward. At its Dec. 8 meeting, Town Council voted to enter into a comprehensive agreement with Faulconer Construction Company to build the park. Construction is expected to begin in March 2021 and be complete by November 2022.

The 63 acres of land the park is to be built upon was originally owned by Truman and Viola Wilson, who lived, farmed and operated a sawmill on the property. While preparing the land for construction, crews discovered a small graveyard, which was identified as the resting places for the Truman's four colliers. Never having children, the couple treated these pets as family. The Trumans would cook pork chops as a treat for their beloved pets. Family friends of the Trumans have expressed how happy the couple would be that a large and small dog park will be an amenity of the signature park. A special plaque will be placed at the gravesite to commemorate the original owners and their adored pets.

Additionally, Town Council voted on Jan. 12, 2021, to name the proposed Connector Road, which will provide access to the park property, the Booker T. Washington Parkway. Washington served as superintendent of Christiansburg Industrial Institute (CII) from 1896 until his death in 1915 and was instrumental in expanding the curriculum to include both classical instruction and practical instruction in industry and the trades. The school was relocated to Lattimer Plantation in 1898 and was significantly expanded in the following years, growing to 14 buildings and 185 acres—some of which Booker T. Washington Parkway will reside on. George Washington Carver and other members of the Tuskegee University staff visited CII, and prominent industrial engineer John Wines Lester lived on the CII campus.



Above: Washington speaking to a crowd of 5,000 people at CII.  
(Source: Christiansburg Institute, Inc.)

Today, Christiansburg Institute, Inc. (CI, Inc.) is a 501(c)3 grassroots, cultural heritage and historic preservation non-profit organization with a mission of education and empowerment. CI, Inc. operates a museum containing archival collections and artifacts from CII's 100-year legacy. The non-profit offers community education and cultural programming; partners with local community agencies, schools and local government; and manages the historic preservation and adaptive reuse of the Edgar A. Long Building and adjoining CII properties. Learn more about CII history at CI, Inc.'s exhibit here: [tinyurl.com/CIExhibit](http://tinyurl.com/CIExhibit). (Source: Christiansburg Institute, Inc.)

Stay up to date on all information regarding the park by visiting [www.christiansburg.org/signaturepark](http://www.christiansburg.org/signaturepark).



# The Christiansburg Connection

Newsletter for the Town of Christiansburg

March/April 2021

## SPRING CLEANUP: APRIL 10-23

In April and October each year, the Town offers free special collection periods for residents to place out larger items for pickup. To make it easier on collection 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 separately). Loose materials must be placed in bags/containers not exceeding 32 gallons. Leaves must be bagged. For a full list of accepted items, please visit [www.christiansburg.org/cleanupFAQ](http://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](http://www.christiansburg.org/brush) to learn more. Brush collection will not run in April as it is part of Spring Cleanup.

## LAWN CARE TIPS

The key to a low-maintenance yard is retaining soil, and the simplest way to retain soil is to grow site-appropriate plants.

- Patchy grass from high foot traffic? Cover it with organic mulch, great for under child play equipment or in pet play areas.
- Grass won't grow? Don't fight it. Grasses are picky about light, soil and moisture. Try moss for damp shady places, native trees for steep slopes and native groundcover plants just about anywhere.
- Really need grass? Test your soil before adding fertilizer. Unneeded fertilizer can spur fast growth that stresses the plant. Virginia Cooperative Extension provides inexpensive, professional soil tests. Find more info at [ext.vt.edu/lawn-garden](http://ext.vt.edu/lawn-garden).

Retaining soil in your yard keeps it out of storm drains and streams and helps Christiansburg meet the goals set in its Municipal Separate Storm Sewer System (MS4) permit.

## SNOW CONTEST WINNER



At the end of January, the Town held a snow creation contest through Facebook. Emmarsyn was crowned winner with the most likes and reactions. Congratulations, Emmarsyn!

## SWIM MEETS

The Aquatic Center will be closed on the following dates for swim meets:

- March 24-28, USA Swimming Sectionals
- March 29-April 2, Colonial Athletic Association Championship

Note that due to evolving COVID-19 restrictions, these details may change. Please visit [cacpool.com](http://cacpool.com) for the most up-to-date information.

## BT EXPLORER ROUTE

The Explorer bus has resumed service with a passenger limit of five. Gold and Blue routes will run on the same schedule and routes as before with hourly frequency. Riders worried about pass-bys should consider the Go-Anywhere trip instead. Masks are required for all passengers on the Explorer. Call BT at 540-443-1500 for more info.

## HEAD START

Head Start is a no-cost preschool for eligible families. Participants will receive research based curriculum, developmental screenings, individualized high quality adult-child interactions, and services that promote family support, healthy nutrition, and dental health. Currently taking applications for 2021-2022 school year for 3- and 4-year-olds. Call 540-381-7559 for more info.

## NEIGHBORHOOD SERVICES



With Spring Cleanup just around the corner (April 10-23), it's a good time to refresh yourself with some Town Codes. A list of common beautification and safety codes can be found online along with other information to help you with your spring cleaning this season. Learn more about this topic at [www.christiansburg.org/neighborhoodservices](http://www.christiansburg.org/neighborhoodservices). Be sure to check out the "What is Neighborhood Services?" page to learn all about the benefits of code compliance for our community. Remember, don't hesitate to contact our Neighborhood Services Division if you have questions at 540-382-6120, ext. 1181 or [psaunders@christiansburg.org](mailto:psaunders@christiansburg.org).

## PARKS & REC PROGRAMS

It's almost tax season! Have you thought about how you are going to file your taxes this year?

Did you know that Parks and Recreation offers a free tax aide to help you with filing your taxes? Just call 540-382-2349 to schedule an appointment. Tax appointments will be made every 15 minutes on Monday (1-4 p.m.), Tuesday (1-4 p.m.), Thursday (1-4 p.m.) and Saturday (9-12 p.m.) from Feb. 16 through April 15. Learn more about this year's process at [tinyurl.com/CburgTaxes2020](http://tinyurl.com/CburgTaxes2020).

Save the date! This season's Shred-A-Thon is on April 27 from 3-6 p.m. in the Rec Center's parking lot. Learn more at [tinyurl.com/ShredSpring21](http://tinyurl.com/ShredSpring21).

Remember, you can sign up to use the Rec Center's amenities online at [www.christiansburg.org/parksandrec](http://www.christiansburg.org/parksandrec) and check out some more programs at [www.christiansburg.org/register](http://www.christiansburg.org/register).

## UPCOMING TOWN COUNCIL MEETINGS\*

March 9 at 7 p.m.

March 23 at 7 p.m.

April 13 at 7 p.m.

April 27 at 7 p.m.

\*Meetings are held in Council Chambers at Town Hall. To adhere to social distancing guidelines, residents may be asked to wait in the hall or watch the meeting from another room. Opportunity to provide public comment in person will be provided; however, contactless comment methods are also available at [www.christiansburg.org/publiccomment](http://www.christiansburg.org/publiccomment) to ensure resident access and safety. Please visit the website for information on each meeting closer to the dates above.

Never miss a meeting! Sign up for notifications at [www.christiansburg.org/notifyme](http://www.christiansburg.org/notifyme). All meetings are recorded and posted to the Town's YouTube page at [www.christiansburg.org/YouTube](http://www.christiansburg.org/YouTube).

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# The Christiansburg Connection

Newsletter for the Town of Christiansburg

May/June 2021



## COMMUNITY CORNER

### Recycled Benches

Christiansburg residents have collected over 1,600 pounds of thin, single use plastic in less than a year at the Christiansburg Farmers Market and Recreation Center.

The single-use, thin plastics are recycled into an earth-friendly composite decking and railing material by Trex, an eco-friendly decking company. For every 500 pounds of plastic collected, Trex donates a high-performance, composite bench made of the same eco-friendly material to the Parks and Recreation Department. One of the benches will be on display at the Recreation Center until it can be permanently placed at a Town facility.

The Farmers Market will continue to collect thin, single-use plastics in the Recreation Center parking lot on Thursdays from 3-7 p.m. starting May 20. Items that can be recycled include produce and bread bags, grocery bags, cereal box liners and ice bags, as well as resealable bags, and case wraps from bulk items like bottled water. You can also recycle newspaper sleeves, dry cleaning bags, plastic shopping bags and bubble wrap.

Thank you to our community for recycling so well. We hope you'll continue to recycle your thin, single-use plastics with us at the Farmers Market this season!



Follow us!  
@CburgVAGov



## IN THE KNOW

Summer is almost here, and we're celebrating the warmer weather with the Christiansburg Farmers Market! Starting May 20, come visit local vendors at the Rec Center parking lot from 3-7 p.m. on Thursdays. Thinking about taking on a renovation project this season? On the next page, check out what to do with the potentially hazardous waste you can find in structures built before 1980. It's been a year since the Town implemented its Neighborhood Services Division. On page two, read about the progress it's made towards beautifying Christiansburg in just one year!

## 2021 FARMERS MARKET SEASON

The Christiansburg Farmers Market will be open from May 20 through October 28 and operates every Thursday from 3-7 p.m. For the 2021 season, the Market will be temporarily moving to the Christiansburg Recreation Center parking lot at 1600 N. Franklin St. due to downtown storm drain construction on Hickok Street.

While we encourage customers to utilize online ordering whenever possible this season at [www.christiansburg.org/marketshop](http://www.christiansburg.org/marketshop), our vendors will still be set up in the Christiansburg Recreation Center parking lot each Thursday during market hours. Market staff will monitor customer density and restrict entry to the market as needed to ensure there is ample room for social distancing. We will also enforce social distancing guidelines by spacing vendors six feet apart.

Vendors for the 2021 season are below.

- Aloha Eddie Snow Cones
- Bent Mountain Barbecue
- Bird and Hopper Farm
- Carley's Kettle Corn
- Cavalier Farm
- Down in the Valley Egg Soaps
- Gracious Day Grains
- Granny Bean's Confections
- Heavenly Hill Honey
- Jim's Wood Turning
- KDR Art Studio
- Lens Crafts

**WE MOVED**  
DUE TO CONSTRUCTION!



**EVERY THURS.**  
**MAY 20-OCT. 28**  
**FROM 3-7 P.M.**  
**@ REC CENTER PARKING LOT**

- No Rest Farm
- Piemonte Provisions
- Red Fern Farm
- SNS Stitching
- Space Rabbit Coffee Co.
- Wanderlust Fabrication and Design
- Woo's Q Brew Gourmet BBQ Sauce

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# The Christiansburg Connection

Newsletter for the Town of Christiansburg

May/June 2021

## COMMUNITY BEAUTIFICATION

It's been a year since the Town of Christiansburg implemented its Neighborhood Services Division. In that time, 758 complaints of potential code violations were filed—491 were closed due to voluntary compliance, 175 were closed due to no violations found and 92 cases are still open. The division made 1,343 site visits and inspections—53 lead to notices of violations and only one resulted in a court hearing.

The mission of the Neighborhood Services Division is to protect the health, safety and welfare of our residents and to increase overall quality of life in the Town of Christiansburg by enhancing the appearance of neighborhoods and business districts to prevent blight, protect property values and grow economic conditions. It is our goal to obtain voluntarily compliance, whenever possible, by administering a fair and unbiased enforcement program.

Learn more info at [www.christiansburg.org/neighborhoodservices](http://www.christiansburg.org/neighborhoodservices).

## SWIM MEET

The Aquatic Center will be closed April 30–May 2 for the H2Okie Long Course Invitational swim meet. Please note that due to evolving COVID-19 restrictions, these details may change. Please visit [cacpool.com](http://cacpool.com) for the most up-to-date information.

## MOBILE CANCER SCREENING

On Friday, May 21, from 10 a.m. to 2 p.m. at the Christiansburg Recreation Center (1600 N. Franklin St.), there will be a Mobile Cancer Screening event providing FREE screenings for breast, skin, colorectal and oral cancers. If you wish to schedule a screening, please call 434-297-5202. You will need to bring your ID and insurance card at the time of screening.

Educational booths will also be available with information on cancer prevention and treatment, lung cancer and HPV screenings, and vaccinations.

Healthcare experts will be on site to answer cancer-related questions. Please note, no childcare services will be provided.

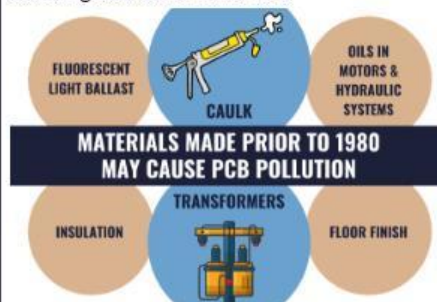
For more information, call 540-382-2349. In case of inclement weather, the event will be postponed to Friday, May 28.

## HAZARDOUS WASTE

Are you thinking about taking on a summer project like remodeling or updating some of the older amenities of your property? Maybe it's a shed or outdoor garage you haven't touched in years?

Well, before you strip those building materials and replace them with new ones, the Town wants you to be aware that building materials manufactured before 1980 may contain PCBs.

PCBs, or polychlorinated biphenyls, can be found in transformers and capacitors, fluorescent light ballasts, oils in motors and hydraulic systems, insulation materials, caulking 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, some local rivers have fish consumption advisories. Learn more about these advisories at [tinyurl.com/VAFishConsumptionAdvisories](http://tinyurl.com/VAFishConsumptionAdvisories).

To dispose of items that may possibly contain PCBs, please contact the New River Resource Authority about their **Household Hazardous Waste event on Saturday, May 15, 2021. This event is by appointment only.** You may call 540-674-1677 to schedule an appointment. The event will be held at 7100 Cloyd's Mountain Road, Dublin, VA 24084, and will also be offering document shredding and electrical/universal waste disposal. Learn more about the Authority at [www.newriverresourceauthority.org](http://www.newriverresourceauthority.org).

To find out more about PCB pollution, please visit [tinyurl.com/VDHPCBs](http://tinyurl.com/VDHPCBs) and [tinyurl.com/USEPAPCBs](http://tinyurl.com/USEPAPCBs).

Christiansburg's Municipal Separate Storm Sewer System (MS4) permit allows the Town to discharge stormwater to our streams, and one requirement of this permit is to inform residents of PCB pollution.

## UPCOMING HOLIDAYS

### Memorial Day, May 31

Town Hall will be closed.

The Aquatic Center will be closed.

The Recreation Center will be closed.

Solid waste normally collected on Mondays will be collected on Friday, May 28, with Friday's regular collection.

### Juneteenth, June 18 (observed)

Town Hall will be closed.

The Aquatic Center will be open from 8 a.m.–5 p.m., but administrative offices will be closed.

The Recreation Center will be open from 6 a.m.–7 p.m., but administrative offices will be closed.

Solid waste normally collected on Fridays will be collected on Thursday, June 17, with Thursday's regular collection.

## UPCOMING TOWN COUNCIL MEETINGS\*

May 11 at 7 p.m.

May 25 at 7 p.m.

June 8 at 7 p.m.

June 22 at 7 p.m.

\*Meetings are held in Council Chambers at Town Hall. To adhere to social distancing guidelines, residents may be asked to wait in the hall or watch the meeting from another room. Opportunity to provide public comment in person will be provided; however, contactless comment methods are also available at [www.christiansburg.org/publiccomment](http://www.christiansburg.org/publiccomment) to ensure resident access and safety. Please visit the website for information on each meeting closer to the dates above.

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## E. coli Facebook Post 06/23/2021

<https://www.facebook.com/CburgVAGov/posts/4663428607005211>



**Town of Christiansburg, VA**

June 23 · 🌐

The long summer days are a great time to get outside and play with your pets! But please remember to clean up after them. It can make a big difference in our community and our waterways.

The streams in Christiansburg are considered impaired, or overloaded, with E. coli bacteria. In urban/suburban areas, a large portion of this excess bacteria can be traced back to dog and cat waste. Pet waste left in yards and on the street washes into storm drains, ditches and streams. Stre...

[See More](#)



### Performance for Your Post

**2,929** People Reached

**47** Likes, Comments & Shares ⓘ

<b>44</b> Likes	<b>44</b> On Post	<b>0</b> On Shares
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<b>1</b> Comments	<b>1</b> On Post	<b>0</b> On Shares
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<b>2</b> Shares	<b>2</b> On Post	<b>0</b> On Shares
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**65** Post Clicks

<b>4</b> Photo Views	<b>7</b> Link Clicks	<b>54</b> Other Clicks ⓘ
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#### NEGATIVE FEEDBACK

<b>1</b> Hide Post	<b>0</b> Hide All Posts
<b>0</b> Report as Spam	<b>0</b> Unlike Page

Reported stats may be delayed from what appears on posts



Town of Christiansburg, VA  
Published by Amy South · June 23 ·

The long summer days are a great time to get outside and play with your pets! But please remember to clean up after them. It can make a big difference in our community and our waterways.

The streams in Christiansburg are considered impaired, or overloaded, with E. coli bacteria. In urban/suburban areas, a large portion of this excess bacteria can be traced back to dog and cat waste. Pet waste left in yards and on the street washes into storm drains, ditches and streams. Streams that become overloaded with E. coli bacteria can transmit disease and pose hazards to people and their pets. Excessive waste can also contribute to algae blooms, which affect aquatic life.

The Town is teaming with **Montgomery County, VA** to log and map community involvement and other individual efforts to clean up our streams. Log your efforts on our MS4 Public Participation App at <http://arcg.is/1iC0aL0>.

Bagged pet waste can be disposed with household trash. If you're at an event downtown and want to take your pup or just want to walk along Main Street, check out these waste stations pictured below. There are also some along our trails and in our parks for pet owners to use. If you use another method to safely dispose of pet waste you can log that, too!

To find out more about this and other stormwater issues in the Town, please visit <http://www.christiansburg.org/.../Stormwater-Information...>



[See Insights](#) [Boost Post](#)

44 1 Comment 2 Shares

 Like  Comment  Share

Most Relevant



Write a comment...  
Press Enter to post.



Meagan Rae Landrum  
We appreciate the posts put along our street, have seen a massive reduction in dog waste left on the sidewalk!  
[Like](#) · [Reply](#) · [Message](#) · 12w



## Stream Health and Restoration sign installation, March 2021



### Towne Branch Stream Restoration



#### Why Restore Towne Branch?

- Address sediment impairment on Crab Creek
- Reduce erosion/sediment inputs from stream banks
- Improve habitat/ecology
- Restore native vegetation along stream (riparian buffer)
- Protect infrastructure (sanitary sewer, roads)
- Foster enhanced interaction between nature and Town residents



#### Characteristics of a Healthy Stream

- Stable, diverse habitat features (fast-flowing riffles; slow, deep pools)
- Well-vegetated stream banks
- Room to flood
- Clean, clear water

#### Towne Branch Watershed

Statistics:

- 1,180 acres
- Greater than 40% impervious (rooftops, roads, and parking lots)
- Drains downtown areas
- Network of piped and open channels



#### What Went Into Restoring Towne Branch?



- STEP 1** Determine limits of restoration work. The project area must account for a number of environmental and cultural limitations.
- STEP 2** Analyze existing stream channel characteristics. Studies of the existing channel inform the design of the new channel.
- STEP 3** Determine bankfull channel dimensions based on watershed size and characteristics. Sized to allow periodic, but controlled flooding.
- STEP 4** Raise stream and create a floodplain bench. Floodplains allow for energy dissipation and filter pollutants during storm events.
- STEP 5** Incorporate grade control structures. Structures stabilize the stream channel by resisting the erosive force of water.

Create overbank wetland areas. Wetlands are created from portions of the old stream channel to promote habitat diversity.

Incorporate woody debris habitat features. Woody debris provides shelter and food for aquatic organisms.

Plant the riparian buffer with native vegetation. Native vegetation helps stabilize the stream banks and also provides food and habitat for wildlife.

Stream restoration design by:



Wetland  
a DAVEY company





**NEW RIVER WATERSHED ROUNDTABLE  
QUARTERLY MEETING**

**July 29, 2020 | 10:30 AM to 11:30 PM | via Zoom**

**Agenda**

**1. Welcome and Introductions**

- We discussed the state of the river. We heard from a number of folks who commented on river usage being up across the region. Brad Buchanan stated that he has never seen so many folks utilizing the banks of the river in McCoy. Cheri Stanz with FOCL let us know that the back to back 100 year floods this Spring revealed record amounts of woody debris in Claytor Lake. FOCL has removed over 2000 tons of woody debris and 35 trash bags from the lake this year to date. Ann Goette updated us on the new boat launches and mile markers in Giles.
- Stephanie Houston, an associate with Draper Aden introduced herself and discussed a Go Virginia Grant Program that allocates \$5000 to be used by a local business to partner with students to produce education materials. These funds are being used for the Peak Creek restoration project in Pulaski County. Welcome Stephanie!

**2. Christiansburg Restoration Projects ..... Patricia Colatosti**

- Ms. Colatosti, Environmental Program Supervisor for the Town of Christiansburg, shared a presentation, Urban Stream Restorations: What Happens After Construction. She discussed three projects: Diamond Hills, Blue Leaf and Towne Branch restorations. Along with describing the differences in the individual projects Patricia spoke about overcoming the challenges of changing local landscape aesthetic and the public's reaction. People are used to seeing turf mowed up to the creek's edge, some have challenged the newly messy aesthetic. Patricia discussed one thing that has really helped is split rail fences and mowing along pathways. Manicured borders cue to folks that these landscapes are not forgotten but are intentionally left this way. Additionally, the Town developed Grow Zone signage which explicitly state the reason for the no mow zones. Other strategies have been to leave holes in the fence to allow residents to access the creek, bridges/creek crossings for water views, and notifying the public about upcoming landscape changes—including showing photos of creek restoration projects so people can become familiar with what their neighborhood landscapes will begin to look like. Some residents have welcomed the new aesthetic and have reached out in appreciation of the improved wildlife habitat. Christiansburg has also found partnership for these wild spaces with Master Gardeners, Master Naturalists and an individual monitoring for diatoms in the water looking to make a connection with water quality. The Town of Christiansburg has two additional restoration projects in their pipeline. For questions about the restoration work Christiansburg is doing, reach out to Patricia at [pcolatosti@christiansburg.org](mailto:pcolatosti@christiansburg.org).



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# 2020 DRINKING WATER QUALITY REPORT



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Treatment Plant Information .....	2
About Your Water .....	3
Health Information .....	4
Sampling Results .....	5
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## A NOTE FROM THE 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 2020 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,

A handwritten signature in black ink, which appears to read "Randy Wingfield". The signature is fluid and cursive.

Randy Wingfield, Town Manager



# 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 70,000.

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 that will take more than two years to complete. These renovations will enable 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 2.3 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 NRV RWA ([www.nrvwater.org](http://www.nrvwater.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](http://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 <sup>1</sup> (ppm)	10	10	0.79	N/A	No	Runoff from fertilizer use; leaching from septic tanks and sewage; erosion of natural deposits
Haloacetic acids [HHA5] (ppm)	N/A	60	36	28 - 41	No	Byproduct of drinking water disinfection
Total Trihalomethanes [TTHM] (ppm)	N/A	80	31	17 - 40	No	Byproduct of drinking water disinfection
Total organic carbon (removal ratio)	N/A	TT in compliance if $\geq 1.0$	1	1	No	Naturally present in the environment
Barium <sup>2</sup> (ppm)	2	2	0.021	N/A	No	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chlorine (ppm)	4	4	2.77	2.00 - 3.90	No	Water additive to control microbes
Turbidity (NTU) <sup>3</sup>	N/A	TT, 1 NTU max TT, $\leq 0.3$ (95% of the time)	0.18, 100% of the time	0.07 - 0.18	No	Soil runoff
Fluoride <sup>4</sup> (ppm)	4	4	0.56	N/A	No	Erosion of natural deposits; discharge from fertilizer and aluminum factories

\* These tables only show those contaminants that were detected in the water.

<sup>1</sup> 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.

<sup>2</sup> Some people who drink water containing barium in excess of the MCL over many years could experience an increase in their blood pressure.

<sup>3</sup> 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.

<sup>4</sup> 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 <sup>th</sup> Percentile)	Sample Date	Violation	Sites above action level	Typical sources
Copper (mg/L)	1.3	1.3	0.0531	Aug. 2020	No	0	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead <sup>5</sup> (ppb)	0	15	<2 <sup>6</sup>	Aug. 2020	No	0	Corrosion of household plumbing systems; erosion of natural deposits

\* These tables only show those contaminants that were detected in the water.

<sup>5</sup> The Town of Christiansburg participates in lead and copper monitoring every three years with the Town of Blacksburg and Belview distribution systems. The site above action level was not in the Town of Christiansburg's water distribution system.

<sup>6</sup> The 90<sup>th</sup> percentile was below the detection limit of 2 ppb.



# SAMPLING RESULTS CONT.

## Unregulated Contaminants\*

Contaminant (unit)	Level Detected	Sample Date	Typical Sources
Sodium <sup>1</sup>	8.1 mg/L	Dec. 2020	Naturally occurring; Addition of treatment chemicals/processes

\*These tables only show those contaminants that were detected in the water.

<sup>1</sup> 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.

### 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).

### Additional Resources

- **Attend an NRV Regional Water Authority meeting.** Community members are welcome to attend NRVWA 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](http://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](http://www.nrvwater.org).

The EPA ([www.epa.gov/Your-Drinking-Water](http://www.epa.gov/Your-Drinking-Water)) and the Centers for Disease Control and Prevention ([www.cdc.gov/healthywater/drinking](http://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](http://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!





Town of Christiansburg, VA

Published by Amy South · June 17 ·



Every year, the Town of Christiansburg's drinking water undergoes extensive testing to ensure it is safe. The results of the test, performed during the 2020 calendar year, demonstrate that the town's drinking water is safe and meets all federal and state requirements. To view the report, click the here: [www.christiansburg.org/drinkingwater](http://www.christiansburg.org/drinkingwater).



See Insights

Boost Post



7

1 Share

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Comment

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Write a comment...



Press Enter to post.

## Appendix B: Documentation of Public Involvement Activities



## Towne Branch Master Naturalist exotic invasive plant removal

---

**Patricia Colatosti**

**From:** Patricia Colatosti  
**Sent:** Monday, July 13, 2020 4:09 PM  
**To:** fredandbeth@verizon.net  
**Subject:** Re: Seed list  
**Categories:** To reply or do ASAP

Hi Beth,

I can get a seed list for the mixes we planted, I know it came from one of the few commercial nurseries that sell these mixes in large quantities. It was only native seed, but the area between the paved trail and the split rail fence was seeded with a typical contractor fescue mix.

I completely understand staying out of the stream buffer until late fall! We completed our tree survival survey in early March for just those reasons, and I tend to just wear waders and walk in the stream if at all possible during the summer.

Thanks,

Patricia

---

**Patricia Colatosti**

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

---

**From:** fredandbeth@verizon.net <fredandbeth@verizon.net>  
**Sent:** Wednesday, July 8, 2020 3:20 PM  
**To:** Patricia Colatosti <pcolatosti@christiansburg.org>  
**Subject:** Seed list

Hi Patricia,

Is it possible to get a seed list of species planted in the restoration project at Depot Park? Also would the source of the seeds or ecotype be available. Were only native seeds planted?

Fred and I started working under the oak. Because of the high growth, pandemic, and ticks I found on me after planting there, I have decided to spend most of the time working during the late fall into mid-spring. Once the lespedeza blooms I can identify it, and if it is invasive I will cut back to ground to keep it from going to seed.

Thanks,  
Beth

## Patricia Colatosti

---

**From:** Mary Rhoades <mrhoades@vt.edu>  
**Sent:** Saturday, November 14, 2020 12:21 PM  
**To:** umberger  
**Cc:** Patricia Colatosti; graff\_brenda@hotmail.com; sawdon@msn.com; shadeperennial@gmail.com; nicole@nrvrc.org  
**Subject:** Re: Town Branch update and request for permission to work in other town areas upstream

Help! I can't keep up with you.

I will probably plod along at Depot Park on Monday afternoon. While you ZIP through--somewhere in the invasive plant universe.

On Fri, Nov 13, 2020 at 10:26 AM <[fredandbeth@verizon.net](mailto:fredandbeth@verizon.net)> wrote:

Hi Patricia,  
Starting to get the feel of what plants are along the stream at Depot Park.  
These are the plants we are working on over the winter:  
Garlic mustard  
English ivy  
Winter creeper  
Poison hemlock  
Bush honeysuckle  
Multiflora rose  
Privet  
Burdock  
Curly Dock

Some of the privet, bush honeysuckle and multiflora rose border the stream and we are cutting these back and leaving the roots in the ground to help prevent erosion.

I am working on learning which grasses are native.  
In the spring and summer I will work on removing the invasive grasses:  
Johnson Grass  
Bermuda Grass  
Quack Grass (winter as well)

It has become apparent to me that when we remove invasive plants we need to be planting natives to fill in the empty spaces. You mentioned that some of the area will need reworking. I am assuming you mean the banks that is eroded along Depot Street.

This is the time of year that I order plants to use at the Montgomery Museum to increase the diversity of plants. I order plugs and bareroot that arrive in spring. Sometimes I grow them in containers before I plant them. It is also a good time to order or cut "sticks" to put in the ground or grow in containers for the stream edge. I was thinking about buttonbush and ninebark. Should I assume it is alright to plant on the side that is sloping and not eroded.

I have scattered seed and transplanted some plants from Montgomery Museum (Jerusalem artichoke, ironweed, New England aster, golden ragwort, dutchman's britches, Christmas fern, anise root, Phlox divaricata, Phlox paniculata, Hyssop leaf Thoroughwort, Cardinal flower, Great blue lobelia, zig zag golden rod, and others. Looking forward to putting Virginia bluebells in this spring.

Along the edge of the stream where there is an entry from the play ground, I have been removing a lot of broken glass. I am guessing there was a trash pile there at one time as some of the pieces are milk glass and small pieces of plates and fake cut glass.

I have been looking up stream at all the places it is open throughout the town to Depot Street and College Street. Does the town own these areas on both sides of the stream? For some plants it would be helpful to remove them up stream so reseeding does not take place such as garlic mustard, Johnson grass.

A dry stream that feeds into Town Branch is covered with *Arum italicum* on private property. It belongs to a neighbor and I have gotten permission to remove it. Sadly, I grew it in my yard several year back and I have been removing it from my yard and it still appears. Then I realized it hopped to four of my neighbors yard. I am afraid it has gone down stream from the heavy rains we have had recently. So I am watching for it along the stream, but would like permission to remove it if I see it in the areas that go through town. I have tentative permission from a member of the church to work on invasive plants in the opening at the Presbyterian church.

The opening next the ABC Store has an amazingly big *Salix* which I think is *Salix eriocephala* (heart-leaved willow). With permission I could cut "sticks" from this plant, but need permission. The plant is dioecious and I will have to wait for spring to determine whether it is male or female. Willows are up there with oaks and black cherry for supporting lots of native insects.

Surprising what you find in ditches, when we traveled and stopped to get gas, Fred knew if I wasn't in the car I was out back of the gas station looking for plants.

Also saw a clay plume entering stream from a pipe entering the stream that drains the business area that borders North Franklin, but did not see any exposed clay in the area above.

Thanks for letting us work in Depot Park,  
Beth Umberger

**Patricia Colatosti**

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**From:** Patricia Colatosti  
**Sent:** Wednesday, February 17, 2021 4:15 PM  
**To:** fredandbeth@verizon.net  
**Subject:** Re: Bluebird house

**Categories:** Need to file or create memo

Hi Beth,

It is ok to install the bluebird house. Sounds like a nice addition to the park. There is a tri-color heron that frequents the stream, and a friend of mine in the Cambria section of town has a pair that nest in her yard, so a possible heron nest is something to look for as well!

The fish kill was most likely caused by the water main break at Roanoke St and East Main St that morning. Nothing else was reported discharged to the stream, and residual chloramines in drinking water are known to be toxic to fish above certain concentrations. It was a large, fast discharge of potable water.

I was thinking the historic glass might be coming from the old mill property at the corner of Depot and North Franklin. The site has been vacant for years, but I do remember buying horse feed from it a very long time ago, and the mill was old then. There may be a trash pit in the floodplain. It is private property so I can't go look.

Let me know when you might be working out at the stream and I can come by for a masked and distanced hello to at least meet you all!

thank you again for your work,

Patricia

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

---

1

**From:** fredandbeth@verizon.net <fredandbeth@verizon.net>  
**Sent:** Friday, February 5, 2021 9:19 AM  
**To:** Patricia Colatosti <pcolatosti@christiansburg.org>  
**Subject:** Bluebird house

Hi Patricia,

Fred and I would like to put a bluebird house up along the creek. Can we have permission to install?

Also, did you find out what caused the fish kill? I have noticed some in the area where several springs fed into the stream and a couple of weeks ago I got a glimpse of some several inches upstream above Depot Park.

I have picked up all the broken glass I can as I see it, especially after rain storms. I asked Sherry Wyatt at Montgomery Museum if it had any historic value and since it is not in situ it doesn't. I have been sorting it and have suggested its use to local artist.

Lots of discarded water bottles and cigarette butts. We Americans disrespect our wild areas. May be how all that trash glass got there- dumping it over bank into stream.

Thanks,  
Beth

2

# Towne Branch Diatom Monitoring Study Master Gardener Project

---

**Patricia Colatosti**

**From:** David Orcutt <dmorcutt@vt.edu>  
**Sent:** Monday, July 13, 2020 3:55 PM  
**To:** Patricia Colatosti  
**Subject:** Re: Depot Park Monitoring

Thanks Patricia for your response. I look forward to the seeing the overflow data. I hope you had a good break. Dave

On Jul 13, 2020, at 3:32 PM, Patricia Colatosti <[pcolatosti@christiansburg.org](mailto:pcolatosti@christiansburg.org)> wrote:

Hello Dave,

I have not seen anything beyond a few news clips on possibly finding evidence of the virus in fecal matter, but I did not see any studies on whether it was trace genetic material or actual infectious virus. Either way, I understand your hesitation at getting in the stream.

We did finally pull the sanitary sewer overflow data you had asked for. I am currently looking at the data file to make sure it is only overflows upstream of your sample site. Over the past year we have upgraded the sewer in the College St/ N Franklin sewershed leading to fewer overflows. I should have it in a usable form in a week or two and I will send it to you.

Thanks,

Patricia

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

---

**From:** David Orcutt <dmorcutt@vt.edu>  
**Sent:** Friday, July 3, 2020 5:04 PM  
**To:** Patricia Colatosti <[pcolatosti@christiansburg.org](mailto:pcolatosti@christiansburg.org)>  
**Subject:** Depot Park Monitoring

Hello Patricia: I hope you are well and enduring this crisis of Covid-19. I have not been sampling Town Branch since March when the covid scare started to ramp up. I really would like to get back to my sampling soon but have some reservations of Covid being transmitted in waste water that may be entering the stream. Have you heard anything about that possibility? I have briefly reviewed what I could find on the internet but have not found anything very conclusive either way. The fact is it may not be known yet. Any thoughts on this. Thanks, Dave Orcutt

---

**Patricia Colatosti**

**From:** David Orcutt <dmorcutt@vt.edu>  
**Sent:** Tuesday, September 8, 2020 8:47 AM  
**To:** Patricia Colatosti  
**Subject:** Town Branch

Patricia: Hope you are well and enjoying this cooler weather. When I was teaching at Tech this was the time of year I enjoyed the most because there was this anticipation in the air of renewed energy to teach and learn. I still get that sense of newness even though I haven't been in the classroom since 2002.

I just wanted you to know that I plan to resume monitoring Town Branch starting this week. I have obtained some assurance that the probability of contracting Covid-19 from the stream water is pretty low. See the communications below that I have had with a scientist from the Netherlands.

The link provided outlines his background and credentials. Have a great week. Dave Orcutt

<https://www.kwrwater.nl/en/experts-expertises/experts/gertjan-medema/>

Dear Dr. Medema:

I am currently monitoring a small stream known to be contaminated with sewage from septic and leaky sewage systems. I am collecting diatoms from rock surfaces and water samples from the stream and using them to determine changes in water quality following a recent partial stream remediation. I am concerned about collecting samples from the stream since covid-19 has been detected in sewage water. What is the likelihood that covid-19 from sewage contamination could be infectious from stream water as described above.

Thank you for your input.

Sincerely,

David M. Orcutt, Professor Emeritus

Dear Dr Orcutt

Excuse brevity: very low. Although fecal-oral transmission is possible in principle, in practice there are no epidemiological signals that individuals exposed to wastewater for instance have a higher risk of COVID-19. Also several authors have attempted to see if SARS-CoV-2 is infectious in wastewater and have not been able to find infectious SARS-CoV-2. So my take on this is that it is possible if you are exposed to fresh excreta in very highly contaminated situation, but that in the situation you describe it becomes very low. Of course, I do recommend the normal precautions for your and co-workers health, because other, more waterborne pathogens are generally present in fecally contaminated water.

Best

Gertjan MEdeema

## Towne Branch Stream Clean up

### Virginia Adopt-A-Stream Clean up Data Form

Please complete and return this form to the Virginia Tech Site and Infrastructure Development with all the other clean up supplies, or by email to [lgstamen@vt.edu](mailto:lgstamen@vt.edu).

Adopting Group/Person (please print) \_\_\_\_\_ Chi Delta Alpha \_\_\_\_\_

Stream Name and Location of Adopted Section \_\_Depot Park\_\_\_\_\_

Clean-up date \_\_\_\_\_ 4/21/21 \_\_\_\_\_ Number of participants \_\_\_\_\_ 7 \_\_\_\_\_

Number of hours \_\_\_\_\_ 1 \_\_\_\_\_ Number of bags of trash collected \_\_\_\_\_ 3-4 small trash

bags \_\_\_\_\_

Comments \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Name (printed) \_Rachel Kearon\_\_\_\_\_

Signature



Date

\_\_\_\_\_ 4/22/21 \_\_\_\_\_

## Diamond Hills Stream Clean up

### Virginia Adopt-A-Stream Clean up Data Form

Please complete and return this form to the Virginia Tech Site and Infrastructure Development with all the other clean up supplies, or by email to lgstamen@vt.edu.

Adopting Group/Person (please print) Service Without Borders

Stream Name and Location of Adopted Section Crab Creek, Christainsburg

Clean-up date April 30th, 2021 Number of participants 8

Number of hours 1.5 Number of bags of trash collected 3

Comments Great success! Thanks for the opportunity!

\_\_\_\_\_  
\_\_\_\_\_

Name (printed) Harrison Jaehn

Signature 

Date May 3rd, 2021

## Regional Grass Roots Watershed Improvement Effort

The current map is available at <https://data-montva-gis.opendata.arcgis.com/apps/scoop-the-poop/explore> and <https://data-montva-gis.opendata.arcgis.com/maps/ms4-grassroots-watershed-improvement-activities-map/explore?location=37.106884%2C-80.336750%2C12.00>

The Town of Christiansburg has promoted this effort primarily as a Pollution Prevention activity and published the map link in a Facebook post promoting cleaning up dog waste. The Facebook post is below, as well as a summary of activities reported on the website through June 30, 2021 in the Town of Christiansburg.

Activity Type	Other - Activity Type	Date of activity	Number of participants	Additional details or comments	MS4 Comments	x	y
Litter/trash cleanup		26-Jan-21	2	VFW	TOC	-8948810	4457205
Pet Waste Collection		1-Jan-21	5		TOC	-8942094	4458207
Pet Waste Collection		14-May-21	1		TOC	-8948939	4456673
Pet Waste Collection		1-May-21	4	Members of the community	TOC	-8950992	4457300
Planting (i.e. trees, native species)		8-May-21	4	Planted blueberries, pieris, peonies, rhododendrums, and azaleas	TOC	-8942106	4458207





2



Town of Christiansburg, VA  
Published by Amy South · June 23 ·

The long summer days are a great time to get outside and play with your pets! But please remember to clean up after them. It can make a big difference in our community and our waterways.

The streams in Christiansburg are considered impaired, or overloaded, with E. coli bacteria. In urban/suburban areas, a large portion of this excess bacteria can be traced back to dog and cat waste. Pet waste left in yards and on the street washes into storm drains, ditches and streams. Streams that become overloaded with E. coli bacteria can transmit disease and pose hazards to people and their pets. Excessive waste can also contribute to algae blooms, which affect aquatic life.

The Town is teaming with [Montgomery County, VA](#) to log and map community involvement and other individual efforts to clean up our streams. Log your efforts on our MS4 Public Participation App at <http://arcg.is/1iC0aL0>.

Bagged pet waste can be disposed with household trash. If you're at an event downtown and want to take your pup or just want to walk along Main Street, check out these waste stations pictured below. There are also some along our trails and in our parks for pet owners to use. If you use another method to safely dispose of pet waste you can log that, too!

To find out more about this and other stormwater issues in the Town, please visit <http://www.christiansburg.org/.../Stormwater-Information...>



See Insights

Boost Post

44

1 Comment 2 Shares

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Comment

Share



Write a comment...

Press Enter to post



Meagan Rae Landrum

We appreciate the posts put along our street, have seen a massive reduction in dog waste left on the sidewalk!

Like · Reply · Message · 12w



## Diamond Hills Wetland Monitoring Virginia Tech Biodiversity Class

### Birds

On Saturday April 17th 2021, 37 species of bird were observed at Diamond Hills Wetland. In an hour and 49 minutes a total of 154 birds were observed in a 2.072 km range. Of these 154 birds there were 22 Wilson's Snipe observed. This is the most significant finding of all species found at the wetland.

Bird Species	Quantity Observed
Mallard	4
Mourning Dove	3
Wilson's Snipe	22
Black Vulture	5
Red-bellied Woodpecker	2
Downy Woodpecker	3
Hairy Woodpecker	1
Pileated Woodpecker	1
Eastern Phoebe	1
Blue Jay	7
American Crow	5
Carolina Chickadee	1
Northern Rough-winged Swallow	1
Tree Swallow	5
Barn Swallow	2
Ruby- crowned Kinglet	2
Carolina Wren	2
Gray Catbird	1
Brown Thrasher	1

Northern Mockingbird	5
American Robin	8
House Finch	1

Purple Finch	3
American Goldfinch	8
Field Sharrow	1
White-crowned Sparrow	3
White-throated Sparrow	5
Song Sparrow	10
Swamp Sparrow	4
Eastern Towhee	2
Eastern Meadowlark	2
Red-winged Blackbird	14
Brown-headed cowbird	3
Common Grackle	3
Yellow-rumped Warbler	1
Northern Cardinal	6
<b>Total Birds Observed</b>	<b>154</b>

### **Water Chemistry**

The main components to test for water chemistry of the tributary to Crab Creek inside the Diamond Hills Wetland are the nitrogen and phosphorus levels as well as the pH levels of the water in the area. This can be tested at different locations along the main stream and averaged, or kept as separate data points. Currently, the intention is to get a rough estimate from the area, although the number of measurements and components to record could increase over time to collect more detailed data.

<b>Element</b>	<b>Quantity</b>
Nitrogen	
Phosphorus	

Average pH:

These measurements will be taken following May 26, when the water chemistry testing kits are made available.

### **Fishies**

On April 20th 2021, 5 species of fish were recorded inhabiting the tributary to Crab Creek, inside the Diamond Hills wetlands. Over the course of 3 hours, 6 traps were set up to catch these fish. All of the species recorded are resilient and have inhabited a wide range of habitats inside North America.

<b>Species</b>	<b>Quantity</b>
Mountain Redbelly Dace	40
Fantail Darter	17
Bluehead Chub	11
Creek Chub	9
White Sucker	2
Black Nose Dace	37

### **Amphibians**

On March 22, 2021 there were hundreds of Spring Peepers that got louder as the night progressed. Two American Toads were also found that night. On April 17, 2021 a Green Frog was discovered and on April 20, 2021, many two-lined salamander larvae were found throughout the wetland, specifically in the river. As it got later into spring, there were significantly less frog calls. In summary, 4 species of amphibians were recorded inhabiting the tributary to Crab Creek.

<b><u>Species</u></b>	<b><u>Common Name</u></b>	<b><u>Quantity</u></b>
Pseudacris crucifer	Spring Peeper	Whole Chorus (hundreds)
Anaxyrus americanus	American Toad	2
Eurycea bislineata	Two-lined salamander	14
Rana clamitans	Green Frog	1

### **Aquatic Insects**

Aquatic insects and macroinvertebrates can be used as bioindicators to assess water quality. Certain macroinvertebrates are highly sensitive to pollution and require high levels of dissolved oxygen. Below is a table including the insects that were identified in the flowing water along the site. There were not many insects captured due to high fish populations, but of the insects that were captured and identified, assumptions can be made about the water quality. Caddisflies are very sensitive to pollution. Two caddisflies were found in crab creek. Alderflies and damselflies are somewhat tolerant of pollution. This area had a significant amount of crayfish which commonly do coexist with alderflies and damselflies. Overall, due to the presence of caddisflies, we can assume that the water quality is suitable.

<b>Order</b>	<b>Family</b>	<b>Common Name</b>
Odonata	Calopterygidae	Damselfly
Megaloptera	Sialidae	Alderfly
Trichoptera	Hydropsychidae	Caddisfly

## **Future**

### **How will the project continue over time?**

As a conservation initiative, this project has an inextricable link to time.

Questions for future classes involved in the project.

Annually assess crab creek for aquatic insects and macroinvertebrates in April. Are there more insects? Are the insects bioindicators of poor or suitable water quality?

Are the Diamond Hill Wetlands functioning as amphibian habitat or breeding ground? What species were found in the creek? How have these species changed over time?

Are new species of fish present in the estuaries? Are there more fish present?

Christiansburg High School contact -  
Rachel Craine - rcraine@mcps.org

## 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:
Silt building up in stream/drainage ditch behind 190 Slate Creek Dr	unknown/not found	7/1/2020, 4/5/2021	Reported by Public	Report of silt build up in spring/stream/ditch on Town property behind 190 Slate Creek Dr. This is a continual complaint. Site visit shows a stream running through a silty area, some evidence of erosion in upstream drainage ditch as well as on rear, steep sloping yards. No visible evidence of sediment moving downstream except when you walk in the stream. The person reporting wants the stream excavated and the silt removed.	The area is mowed routinely by TOC Public Works in the areas that are not wet. No reports from the mowing crews of extensive erosion issues.	8/5/2020
Mulch moving in quantity into storm drain system in Oak Tree Phase I and II. Expanded to all phases 10/2019	Oak Tree Development	7/9/2018, 10/24/2019, 3/20/2020, 1/27/2021, 3/23/2021	Originally reported by Public Works employee, 2019-20 and 2020-21 reports by Public	Investigation of all phases of Oak Tree development noted multiple areas where mulch could be moving into the storm drain. No evidence of dumping mulch.	Continue to talk to HOAs about alternative ground covers and edging for mulch beds.	ongoing as of 6/30/2021



Water in ditch at 2605 Glade Dr during dry weather, reporting person conducted chlorine test that came up positive and reported that ditch was routinely wet.	unknown/not found	Reported 7/29/2020, Investigated 7/30/2020	Reported by Public	Forwarded to Utilities to check for water line break. No resolution. Resident has not called again	None	open
Sewer contractor hit an unmarked 12" water main along Crab Creek	Water main	Reported by contractor 8/8/2020	Reported by Public	All potable water discharged to sanitary sewer, none reached the stream	None	8/10/2020
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	open
Potable water discharge to UT to Towne Branch. Fish kill in Towne Branch probably resulting from discharge.	Water main break at 6 Roanoke St discharged 108,000 gal (est) to UT of Towne Branch in 90 minutes.	Observed 10/14/2020 Reported 10/14/2020	Reported by TOC Public Works	Water main discharge cut off on 10/14/2020. Water main repaired. DEQ notified of fish kill and discharge within 24 hrs.	DEQ conducted a fish kill survey.	10/16/2020 for specific incident. Permissible potable water releases and in stream impacts under MS4 permit is still under consideration by DEQ
Report of "oil" discharging across Kiwanis Park and into Walnut Branch	492 Kiwanis Lane has a large leaf/mulch pile that was leaching water across the property	Observed and reported 11/12/2020	Reported by TOC Public Works	TOC employees went to 492 Kiwanis Lane and found the leaf/compost pile.	None	11/12/2020

Contractor blowing leaves into the ditch on Gold Leaf and Bronze Leaf Drs.	Grant Hoover (TOC) found contractors blowing leaves into the ditch and stopped to talk with them. Was informed that the HOA had contracted to have the leaves blown	Observed 11/23/2020 Reported 11/23/2020	Reported by TOC Public Works	P Colatosti spoke to Keith Formica by phone about the HOA not being allowed to place collected leaves in the ditches. The HOA had the leaves removed from the ditches	None	11/23/2020
Water main break at 6 Roanoke St discharged to UT to Towne Branch	Water main break discharged 15,000 gal (est) over 105 minutes	Observed 12/7/2020 Reported 12/7/2020	Reported by TOC Public Works	Water main discharge cut off on 12/7/2020. Water main repaired. DEQ notified of discharge within 24 hrs.	No dead fish observed in the stream on 12/07/2020 and 12/08/2020	12/8/2020
Water from ponds (unknown type of ponds) at Chandler Concrete being pumped to ditch and entering creek along Ellett Rd NE at or beyond Christiansburg Municipal Boundary	Chandler Concrete pumping water to the ditch near US 460 Bypass	Observed 1/7/2021 Reported 1/8/2021	Reported by TOC Public Works	Discharge determined to be to VDOT	Discharge reported to DEQ via email on 1/8/2021. Chandler Concrete (Tiim East) contacted as well about discharge	1/8/2021
Mud from utility installation left in road along N Franklin between Cambria St and Independence Blvd in multiple areas. Areas not stabilized after disturbance.	Utility installation	Observed and reported 1/12/2021	Reported by TOC employee Justin St Clair	Justin St Clair (TOC) spoke to Robert Lovejoy (Comcast installation contractor) who indicated they would fix it	Area is under a Land Disturbance Permit and CGP and is inspected regularly.	1/13/2021

Water line break near Roanoke and Lester. Storm sewer in area outfalls to UT to Towne Branch	Potable water line break	Observed and reported 2/3/2021	Reported by TOC employee Justin St Clair	Water line fixed . No fish kills reported	None	2/3/2021
Tracking mud on Village St	Mud tracking from construction activity at the end of Village St in Montgomery County	Observed and reported 2/4/2021	Reported by Public	Investigated on 2/4/2021. Complaint forwarded to John Burke with Montgomery County. Street was swept	None	2/4/2021
Trash in conservation area along Towne Branch Stream Restoration in Depot Park	Trash collects in the stream buffer and in the stream. Source not determined	Reported 3/10/2021	Reported by TOC employee Wayne Nelson	Parks and Rec staff and Aquatic Center staff thought they could not go in the stream buffer at all. In order to protect the plants. Misconception cleared up since at this point the buffer is established. Crews from both facilities will be picking up trash.	None	3/11/2021
Bubbles or suds in the SWM pond along Buffalo Dr at Christiansburg Middle School	unknown/not found	Observed in late February 2021 and on 3/31/2021	Reported by TOC employee Patricia Colatosti	CMS is covered under Montgomery County's MS4 permit. Issue forwarded to John Burke at MoCo	None	4/1/2021
Report of radiator fluid being discharged directly to curb inlet at Mr. Tire at 2870 Market St. Report by resident who saw employ at Mr. Tire discharge fluid from his car to the parking lot.	unknown/not found	Observed 4/10/2021 and Reported 4/12/2021	Reported by Public	Checked storm drains in area on 4/22/2021 . Source not found.	Checking storm drains and SWM pond below 2870 Market St intermittantly for 6 months	ongoing as of 6/30/2021

Dump truck lost load of fill dirt in front of 950 N Franklin St.	Fill dirt suspected to be from the Express Wash site across the street, which has a CGP and Local Land Disturbance Permit coverage. Contractor on site would not confirm truck came from the site. The truck did not latch the tailgate and lost half the load in the street on 5/12/2021.	Observed 5/13/2021 and reported 5/13/2021	Reported by TOC employee	TOC got a front end loader and cleaned up the mess and then used the street sweeper. On 5/13/2021 TOC pressure washed the street and used the Vac truck to clean up the area pressure washed. No sediment appeared to reach the storm drain.	Discussion of how to document and charge for cost of Town cleaning up spills	6/2/2021
Red powder being washed off street by fire department at Depot and West Main intersection	unknown/not found	Observed and reported 5/26/2021	Reported by Public	Area discharges to UT to Towne Branch. No dead fish found upon investigation. Phone message left with Fire Dept about source.	None	5/26/2021
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 6/30/2021

Fish kill in Crab Creek behind 950 Clark St, extending upstream to a pipe extending from the Southern States yard	unknown/not found	Observed and reported on 6/7/2021	Reported by TOC employees	Fish kill reported to DEQ on 6/8/2021 and assistance requested in documentation and investigation. Investigation seemed to suggest the pipe, or an area near the pipe, extending from the Southern States yard (885 Roanoke St) was the source of the material that caused the fish kill. P Colatosti, C Hammonds, and A Linkenhoker (DEQ) spoke with the manager of the Southern States store , Dennis Miller, and all walked around the yard looking for possible sources and discussing chemical handling procedures. nothing definitive found.	Need to follow up with Southern States on herbicide management on the yard and where the pipe is coming from	ongoing as of 6/30/2021
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## Appendix D: Documentation of Staff Training and Nutrient Management Plan Implementation

**Illicit Discharge Detection/Good Housekeeping/Pollution Prevention Training**  
**Town of Christiansburg Parks and Recreation Staff**  
**June 29, 2021**

Goal: Review illicit discharge detection and elimination, the TOC Good Housekeeping Manual, basic stormwater pollution prevention and contact/reporting guidelines. Introduce stream restorations as pollution prevention.

Please sign in:

Print name	Signature
John FOREST REED	J.F.R.
Jim Wheel	Jim Wheel
LARRY W. Nunley	Larry W. Nunley
Charlton McCoy	Charlton McCoy



## Fertilizer Application Records

[illegible]

## Fertilizer Application Records

[illegible]

	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 eburg	5.1 acres	insects outfields	Chlorothal-nail	John Deere	960 cc	Partly Sun / light rain
2	8/11/19	Rodney Jordan	Town of eburg	5.1 acres	infield & outfields	Metenolam	John Deere	2560 cc	Partly Sun / light rain
3	6/25/20	Steven Lowe	HACKRODER / Town	5.1	" "	Escalate	Shut on Sprayer	1 gallon	Sunny
4	6/30/21	Steven Lowe	HACKRODER / Town	7 acre	" "	Arespa	Shut on Sprayer	5 1/4 IBS	Sunny
5	9/3/21	Steven Lowe	HACKRODER / Town	7 acre	infields & outfields	Solitare	Shut on Sprayer	10 IBS / mixed	Sunny / calm
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HACKRODER

## Appendix E – Documentation of FOG educational materials



# The Christiansburg Connection

Newsletter for the Town of Christiansburg

July/August 2020



## COMMUNITY CORNER 2020 Farmers Market

The Christiansburg Farmers Market is open for its 2020 season! Vendors will be on Hickok Street every Thursday from 3-7 p.m. until October 22.

This year, the Town has introduced online ordering options for some of the vendors. Customers can prepay for items and pick them up on market day. You can explore links to these virtual shops at [www.christiansburg.org/marketshop](http://www.christiansburg.org/marketshop). Some vendors have their own site, and some have joined our Lulu Local Foods site, which allows you to order from multiple vendors in one place. Some vendors do not have online ordering available but will be set up on Hickok Street for day-of shopping.

Each week, online ordering will open at 7 a.m. on the Friday prior to the market and close at 5 p.m. on the Tuesday before the market.

Not every vendor will be at every market. Check out our Facebook page to see who is coming week to week: [www.facebook.com/ChristiansburgFarmersMarket](https://www.facebook.com/ChristiansburgFarmersMarket).

While we encourage customers to utilize online ordering whenever possible, our vendors will still be set up on Hickok Street each Thursday during market hours. Market staff will monitor customer density and restrict entry to the market as needed to ensure there is ample room for social distancing. Vendors will be spaced according to social distancing guidelines. We encourage our patrons to wear masks while they are shopping at the market. However, we discourage the attendance of children and pets to the market unless it's absolutely necessary.

Hope to see you all on Hickok this summer!

## IN THE KNOW

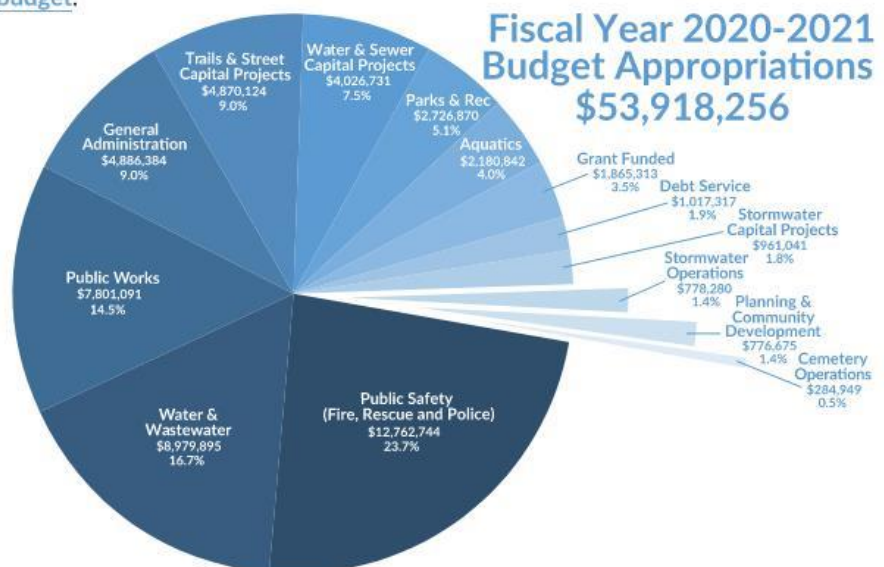
Hello, summer! Town Hall reopened to the public on June 15. To read about the adjusted operations for the Rec and Aquatic Centers, visit page 2. For more and info on other Town facilities, please visit [www.christiansburg.org/covidoperations](http://www.christiansburg.org/covidoperations). As the weather warms up, we encourage our residents to get outside and enjoy the outdoors while practicing social distancing. See a list of parks you can visit at [www.christiansburg.org/parks](http://www.christiansburg.org/parks). For those sporadic rainy days, you can explore some fun online sources at our Virtual Recreation Center ([www.christiansburg.org/virtualreccenter](http://www.christiansburg.org/virtualreccenter)). Stay healthy and safe, Christiansburg!

## TOWN COUNCIL APPROVES FY 2020-21 BUDGET

On June 9, Town Council approved the budget for fiscal year 2020-2021. With respect to the economic impact of COVID-19, the Town has reduced expected revenue for 2020 and forecasted revenue for 2021. Of these reduced predictions, meals, lodging, sales tax and business and occupational taxes were most affected.

Due to these reduced revenue predictions, there are no new employee positions proposed, and the proposed park has been removed from the budget. The scheduled increase in water rates has been postponed. Sewer rates and real estate and personal property tax rates remain unchanged.

Town Council has tabled the following budget items for a later vote in the fall: compensation plan, raises, VRS multiplier, water rates, the proposed park and other capital projects. You can find a copy of the full budget at [www.christiansburg.org/budget](http://www.christiansburg.org/budget).



Have a question? Let us know!  
540-382-6128, ext. 1150  
[info@christiansburg.org](mailto:info@christiansburg.org)  
[www.christiansburg.org](http://www.christiansburg.org)



# The Christiansburg Connection

Newsletter for the Town of Christiansburg

July/August 2020

## DRINKING WATER QUALITY REPORT

In 2019, the Town of Christiansburg detected ten regulated and three unregulated contaminants in the drinking water. However, these contaminants were at allowable levels and no health-based violations were reported. Please go to [www.christiansburg.org/drinkingwater](http://www.christiansburg.org/drinkingwater) to view the 2019 Annual Drinking Water Quality Report and learn more about the source and quality of your drinking water. If you would like a paper copy of the report mailed to you, or to speak with someone about the report, please contact the Engineering Department at 540-382-6120 or visit Christiansburg Town Hall. For more information about how the Town of Christiansburg maintains the safety of your drinking water and to view previous years' reports, go to [www.christiansburg.org/waterquality](http://www.christiansburg.org/waterquality).

## AQUATIC AND RECREATION CENTERS REOPEN

The Christiansburg Aquatic Center reopened to the public on Monday, June 15, with adjusted hours and operations. With guidelines constantly changing, our operations are adjusting accordingly, so please visit [www.christiansburg.org/covidoperations](http://www.christiansburg.org/covidoperations) for the most up to date information about the Aquatic Center. Please come dressed in your swimsuit and bring your own towel.

The Christiansburg Recreation Center reopened to the public on Monday, June 15, with adjusted hours and operations. With guidelines constantly changing, our operations are adjusting accordingly, so please visit [www.christiansburg.org/covidoperations](http://www.christiansburg.org/covidoperations) for the most up to date information about the Recreation Center. Clean all equipment before and after use. Please bring your own reading materials, weight belts, yoga mats, exercise balls, etc.

At parks, all playgrounds, outside basketball courts and shelters are open. Please be advised that all Town parks will be closed at intermittent times throughout the week for sanitization. However, we still recommend that if you use playground equipment, you bring hand sanitizer or wipes. Trails remain open. Please continue to practice appropriate social distancing.

These adjusted operations may change as Virginia enters Phase III and beyond, so please continue to visit [www.christiansburg.org/covidoperations](http://www.christiansburg.org/covidoperations) for the most up to date information.

## LET'S NOT F.O.G.G. UP CHRISTIANSBURG

Do you practice responsible disposal of F.O.G.G. (fats, oils, grease and grit)? If not disposed of properly, F.O.G.G. will build up in the Town's wastewater systems, obstructing pipes, damaging infrastructure, causing overflows and harming the environment.

When mixed in small amounts with hot water, F.O.G.G. flows easily. But once it cools, it hardens inside pipes. When the solids build up over time, lines get blocked, which can cause sewer overflows. These spills can happen without warning anywhere there is a sewer line. Sewage may overflow into your yard or even back up into your house or business.

Blockages and overflows are expensive to fix, so the easiest way to approach the problem is by preventing it in the first place!

- Do not dispose of your cooking oil, grease or fat by pouring it down the drain. Instead, pour your used cooking oil, grease and fat into a covered container. These covered containers can be placed in the trash can with your regular garbage. Avoid using your garbage disposal whenever possible.
- Do not put food scraps down the drain. Instead, scrape food scraps from your dishes into the garbage. Use a paper towel to "dry wipe" grease and oil from dishes and cookware before you wash them. The wipe can be thrown away with your regular garbage.
- Do not use cloth towels or rags to wipe plates or to clean greasy, oily dishes. When you wash the cloth, the fats, oils and grease will end up in the sewer.
- Do not rinse F.O.G.G. from cooking ware with hot water. Hot water will melt the fats, oils and grease off the dishes and into the sewer pipes, where it will later cool and begin to accumulate.



## FARMERS MARKET ART CONTEST WINNER



Gracie Lafon of Blacksburg won the 2020 Christiansburg Farmers Market Art Contest. The 12-year-old's work depicts a beautiful farm scene with sunflowers growing beside a red barn. Her prize is \$20 of market bucks to use at the Christiansburg Farmers Market this season. Congratulations, Gracie!

## UPCOMING MEETINGS

### Town Council Meetings\*

July 14 at 7 p.m.

July 28 at 7 p.m.

August 11 at 7 p.m.

August 25 at 7 p.m.

\*Meetings are normally held in Council Chambers at Town Hall. To adhere to social distancing guidelines, residents may be asked to wait in the hall or watch the meeting from another room. Opportunity to provide public comment in person will be provided; however, contactless comment methods are also available to ensure resident access and safety. Please visit the website for information on each meeting closer to the dates above.

Never miss a meeting! Sign up for notifications at [www.christiansburg.org/notifyme](http://www.christiansburg.org/notifyme). All meetings are recorded and posted to the Town's YouTube page the following day.

## UPCOMING HOLIDAY

Town facilities will be closed for Independence Day on July 3. Solid waste normally scheduled for Fridays will be collected Thursday, July 2, along with Thursday's regular collection.



Have a question? Let us know!  
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