



The City of Harrisonburg, Virginia

Office of the Public Works Department
320 East Mosby Road
Harrisonburg, Virginia 22801

STREET MAINTENANCE
TRAFFIC ENGINEERING
TRANSPORTATION PLANNING
REFUSE/ RECYCLING
RESOURCE RECOVERY
CENTRAL STORES

Phone: 540-434-5928 FAX: 540-434-2695

September 30, 2019

Megan O’Gorek
Department of Environmental Quality
4411 Early Road
Harrisonburg, VA

Subject: City of Harrisonburg General VPDES Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (VAR040075)

Ms. O’Gorek

Please find attached the City of Harrisonburg’s MS4 Annual Report for the July 1, 2018-June 30, 2019 General VPDES Permit for Small Municipal Separate Storm Sewer Systems.

Please do not hesitate to contact me should you have any questions at (540) 434-5928 or Rebecca.Stimson@HarrisonburgVA.gov

Sincerely,

Rebecca Stimson
Environmental Compliance Manager

The City With The Planned Future

CERTIFICATION

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

Linda Campbell

Responsible Official Signature

9/9/2019

Date

VAR040075

City of Harrisonburg, VA

Permit Number

MS4 Name



MS4 Annual Report

July 1, 2018 – June 30, 2019

Permit Number: VAR040075

In compliance with the Virginia Stormwater Management Program (VSMP) General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (MS4)

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Introduction

The City of Harrisonburg is an independent city located in the Shenandoah Valley of the Commonwealth of Virginia and is surrounded by Rockingham County. The City is an operator of a Small Municipal Separate Storm Sewer System (MS4). A *municipal separate storm sewer* means “a conveyance or system of conveyances otherwise known as a municipal separate storm sewer system, including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, manmade channels, or storm drains:

1. Owned or operated by a federal, state, city, town, county, district, association, or other public body, created by or pursuant to state law, having jurisdiction or delegated authority for erosion and sediment control and stormwater management, or a designated and approved management agency under § 208 of the CWA that discharges to surface waters;
2. Designed or used for collecting or conveying stormwater;
3. That is not a combined sewer; and
4. That is not part of a publicly owned treatment works.”

The US Census in 2010 determined the City’s population to be 48,914, that the City is within an Urbanized Area, and thus subject to the amended and reissued General VPDES Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems, which became effective November 1, 2018 and will expire on October 31, 2023 when a new permit cycle is expected to become effective.

The MS4 Permit requires the City to develop an MS4 Program Plan and to submit Annual Reports (this document), for each period between July 1 through June 30. Modifications to the MS4 Program Plan are expected throughout the life of the permit as part of the iterative process to reduce pollutant loadings and to protect water quality. The City’s MS4 Program Plan and Annual Reports available on the City’s Stormwater webpages: <http://www.harrisonburgva.gov/stormwater-management-program>.

Additional information on the laws and regulations affecting the City and its operation of an MS4 can be found in:

- Virginia Stormwater Management Act, Article 2.3 (§62.1-44.15-24 et seq.) of Chapter 3.1 of Title 62.1 of the Code of Virginia
- Virginia Administrative Code, 9VAC25-870, Virginia Stormwater Management Program (VSMP) Regulations
- Virginia Administrative Code, 9VAC25-890-40, General VPDES Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems
- Virginia Department of Environmental Quality, Municipal Separate Storm Sewer Systems, <http://www.deq.virginia.gov/Programs/Water/StormwaterManagement/VSMPPermits/MS4Permits.aspx>

Watersheds

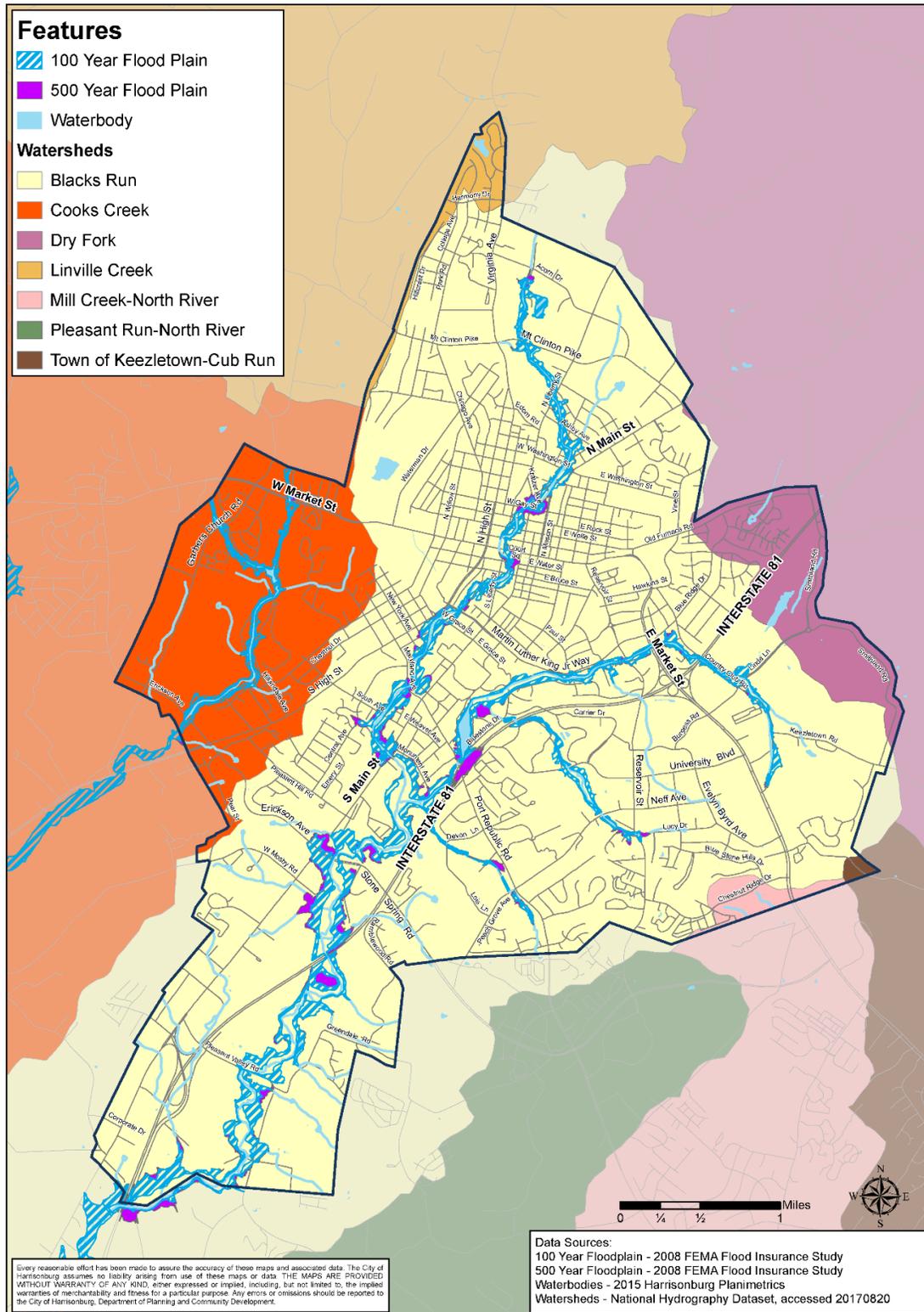
The City of Harrisonburg's 17.4 square miles is highly urbanized with substantial amounts of impervious surface. The following table describes approximate stream length, drainage areas, and impairments for each watershed within Harrisonburg city limits.

Table 1. Subwatersheds in Harrisonburg

| Subwatershed Name | Hydrologic Unit Code (HUC) | Approximate Length (miles) within Harrisonburg | Approximate Drainage Area (acres) | Impairments | TMDL WLA? |
|---|----------------------------|--|-----------------------------------|--|------------------------|
| Blacks Run (<i>flows into Cooks Creek</i>) | PS22 | 8.67 | 9067 | Fecal Coliform, Sediment, Total Phosphorus | Yes, 2019 ¹ |
| Sunset Heights Branch of Cooks Creek | PS23 | 2.09 | 1347.58 | Fecal Coliform, Sediment, Total Phosphorus | Yes, 2019 ² |
| Dry Fork (<i>flows into Smith Creek</i>) | PS59 | 0.206 | 493 | E. Coli, Sediment | Yes, 2004 |
| North River-Mill Creek | PS26 | No stream | 87.44 | E. Coli | No |
| Cub Run (<i>flows into South Fork of Shenandoah River</i>) | PS33 | No stream | 14.75 | E. Coli | No |
| Linville Creek (<i>flows into North Fork of Shenandoah River</i>) | PS56 | 0.08 | 117.8 | E. Coli, Sediment | No |

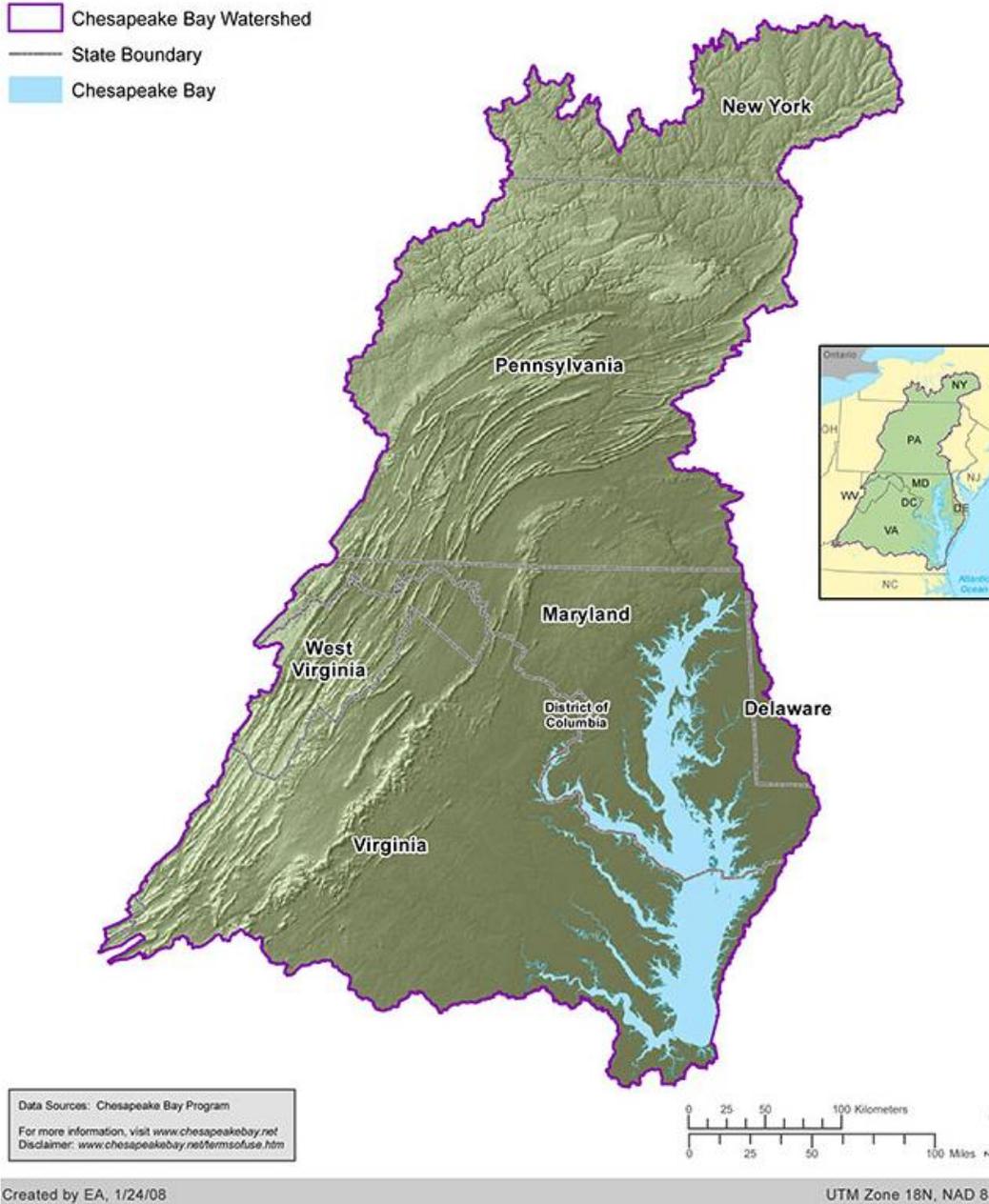
^{1,2} The revision of the Blacks Run and Cooks Creek Watershed TMDL includes a WLA. This TMDL was approved by the EPA on July 10, 2019 and so a local TMDL Action Plan will not be developed for this permit cycle.

Figure 1. Subwatersheds in Harrisonburg



The City of Harrisonburg also drains into the Chesapeake Bay Watershed. The Chesapeake Bay Watershed is 64,000 square miles and includes portions of New York, Pennsylvania, Delaware, Maryland, West Virginia, and Virginia. Altogether, more than 100,000 streams, creeks and rivers make up the Chesapeake Bay Watershed. As part of the Special Conditions for the Chesapeake Bay TMDL, the MS4 Permit requires the City of Harrisonburg to address impairments for phosphorus, nitrogen, and sediment that enter the Chesapeake Bay.

Figure 2. Chesapeake Bay Watershed Map



Roles and Responsibilities

The City of Harrisonburg's Public Works Department coordinates the City's municipal separate storm sewer system (MS4) program. The Public Works Department's Environmental Compliance Manager is responsible for developing and updating the MS4 Program Plan and submitting Annual Reports. The City Manager is responsible for providing the appropriate certification for documents. The Department of Community Development, Department of Public Utilities, the Department of Parks and Recreation, Police Department and Fire Department are the major contributors to Harrisonburg's MS4 Program although it is recognized that this is a citywide and community-wide program.

For MS4 Permit coverage, Harrisonburg City Public Schools (HCPS) and Harrisonburg Electric Commission (HEC) are covered by the City of Harrisonburg's MS4 Permit and their responsibilities are referenced throughout the MS4 Program Plan and associated Annual Reports.

Contact Information

Principal Executive Officer

Title: City Manager
Name: Eric Campbell
Address: 409 South Main Street
Harrisonburg, Virginia 22801
Phone: (540) 432-7701
Email: Eric.Campbell@harrisonburgva.gov

Duly Authorized Representatives

Title: Director of Public Works
Name: Tom Hartman
Address: 320 East Mosby Road
Harrisonburg, Virginia 22801
Phone: (540) 434-5928
Email: Tom.Hartman@Harrisonburgva.gov

Title: Environmental Compliance Manager
Name: Rebecca Stimson
Address: 320 East Mosby Road
Harrisonburg, Virginia 22801
Phone: (540) 434-5928
Email: Rebecca.Stimson@harrisonburgva.gov

MS4 Annual Report

The MS4 Annual Report details the City of Harrisonburg's stormwater program to manage the quality of stormwater runoff discharged from the MS4.

Evaluations gathered while developing the 2018-2019 MS4 Annual Report will be considered during the minimum control measure evaluations throughout the document as well as in the MS4 Program Plan. This report and subsequent annual reports from the five year permit cycle will remain on file in the Public Works Department and on Harrisonburg's stormwater webpage: www.harrisonburgva.gov/stormwater-management-program.

Minimum Control Measure #1: Public Education & Outreach

BMP 1.1: Develop and Implement a Public Education and Outreach Program

Description

The City will implement a public education and outreach program designed to:

- Increase the public's knowledge of how to reduce stormwater pollution, placing priority on reducing impacts to impaired waters and other local water pollution concerns.
- Increase the public's knowledge of hazards associated with illegal discharges and improper disposal of waste, including pertinent legal implications.
- Implement a diverse program with strategies that are targeted toward individuals or groups most likely to have significant stormwater impacts.

The City will identify no less than three high-priority stormwater issues to meet the goal of educating the public. The high-priority public education and outreach program will:

- Clearly identify the high-priority stormwater issues.
- Explain the importance of the high-priority stormwater issues.
- Include measures or actions the public can take to minimize the impact of the high-priority stormwater issues.
- Provide a contact name and telephone number or location where the public can find out more information.

Annual Reporting Requirements

- A list of the high-priority stormwater issues the City addressed in the public education and outreach program.
- A list of the strategies used to communicate each high-priority stormwater issue.

List of High Priority Stormwater Issues

High Priority Stormwater Issue 1: Chesapeake Bay Nutrients

Strategy 1: Traditional Written Materials

- Stormwater and Environmental Newsletters: This email newsletter has a subscription list of around 500 contacts and each newsletter is opened by around 40-50% of the subscription list.
 - *Clean Water + Wood Reuse*. March 2019.
 - *What's the state of the Bay?* January 2019.
 - *Healthy Lawns, Healthy Water*. September 2019.
- Harrisonburg Stormwater Facebook Page: The Harrisonburg Stormwater Facebook page promotes high-quality receiving waters, education about the Chesapeake Bay and local TMDLs, and information about local events and projects. During this permit year, 123 posts were made to the Harrisonburg Stormwater Facebook page. Each post reached an average of 245 people.

Strategy 2: Media Materials

- WHSV TV-3 Reports

- WHSV TV-3 Article, by Monica Casey: *Harrisonburg SWIP plan reducing pollutants, preparing residents for winter*. October 24, 2018. <https://www.wHSV.com/content/news/Harrisonburg-SWIP-plan-reducing-pollutants-preparing-residents-for-winter-498422611.html>

Strategy 3: Speaking Engagements

- All speaking engagements attended by stormwater staff are focused on explaining water quality, including TMDLs, as well as Harrisonburg’s role in meeting the Chesapeake Bay TMDL. Staff attended 18 educational events and reached an audience of approximately 850 participants. These speaking engagements do not include Blacks Run Clean Up Day, 6th and 7th grade Plant a Seed Field Trips, and the annual rain barrel workshop as these events are counted as Public Involvement Activities.

High Priority Stormwater Issue 2: High Quality Receiving Waters

Strategy 1: Traditional Written Materials

- Stormwater and Environmental Newsletters: This email newsletter has a subscription list of around 500 contacts and each newsletter is opened by around 40-50% of the subscription list.
 - *Leaves – Urban Stormwater Nutrient Pollution*. November 2018.
- Harrisonburg Stormwater Facebook Page: The Harrisonburg Stormwater Facebook page promotes high-quality receiving waters, education about the Chesapeake Bay and local TMDLs, and information about local events and projects. During this permit year, 123 posts were made to the Harrisonburg Stormwater Facebook page. Each post reached an average of 245 people.

Strategy 2: Media Materials

- WHSV TV-3 Reports
 - WHSV TV-3 Article, by Autumn Childress: *Harrisonburg introduces program to improve water quality, address drainage concerns*. June 12, 2019. <https://www.wHSV.com/content/news/Harrisonburg-Public-Works-introduces-program-to-improve-water-quality-address-drainage-concerns-511091142.html>
 - WHSV TV-3 Article, by Marina Barnett: *Harrisonburg Public Works receives grant to help with stream restoration*. April 22, 2019. <https://www.wHSV.com/content/news/Harrisonburg-Public-Works-receives-grant-to-help-with-stream-restoration-508888891.html>
 - WHSV TV-3 Article, by Marina Barnett: *City looks for volunteers for Blacks Run cleanup day*. March 13, 2019. <https://www.wHSV.com/content/news/City-looks-for-volunteers-for-Blacks-Run-cleanup-day-507095891.html>
 - WHSV TV-3 Article, by John Hood: *Harrisonburg stormwater study makes suggestions to city*. February 2, 2019.

<https://www.whsv.com/content/news/Harrisonburg-stormwater-study-makes-suggestions-to-city—505220011.html>

- WHSV TV-3 Article, by Johnny Oliver: *Goldfish causing headache for Harrisonburg public works*. August 21, 2019. <https://www.whsv.com/content/news/Goldfish-causing-headache-for-Harrisonburg-public-works-491400131.html>
- WHSV TV-3 Article, by John Hood: *Harrisonburg Public Works starts new project to help local watershed*. March 8, 2019. <https://www.whsv.com/content/news/Harrisonburg—506901821.html>
- Daily News Record Articles
 - Daily News Record Article, by Laine Griffin: *City to Offer Conservation Assistance Program*. June 14, 2019. http://www.dnronline.com/news/harrisonburg/city-to-offer-conservation-assistance-program/article_a51fe710-e38f-5ede-82a4-b0c41fa39722.html
 - Daily News Record Article, by Laine Griffin: *Volunteers Clean Up Blacks Run*. August 30, 2018. http://www.dnronline.com/news/harrisonburg/city-to-offer-conservation-assistance-program/article_a51fe710-e38f-5ede-82a4-b0c41fa39722.html
 - Daily News Record Article, by Laine Griffin: *Public Comes Out To Clean Up City, Blacks Run*. April, 2019. http://www.dnronline.com/news/harrisonburg/public-comes-out-to-clean-up-city-blacks-run/article_59463ed0-5d71-57e0-a10d-39d70c6d384b.html

High Priority Stormwater Issue 3: Litter and Trash

Strategy 1: Traditional Written Materials

- Stormwater and Environmental Newsletters: This email newsletter has a subscription list of around 500 contacts and each newsletter is opened by around 40-50% of the subscription list.
 - *Blacks Run Clean Up Day*. February 2019.
 - *Should I Throw This in Blacks Run?* February 2019.
- Harrisonburg Stormwater Facebook Page: The Harrisonburg Stormwater Facebook page promotes high-quality receiving waters, education about the Chesapeake Bay and local TMDLs, and information about local events and projects. During this permit year, 123 posts were made to the Harrisonburg Stormwater Facebook page. Each post reached an average of 245 people.

Strategy 2: Alternative Materials

- Clean Up Supplies: In addition to Blacks Run Clean Up Day, 15 smaller clean ups were organized throughout the year with community groups, university students, and local businesses. Trash bags and trash grabbers were provided for these events.

- Water Bottles: Re-usable water bottles were given out to Blacks Run Clean Up Day participants. These bottles have the Blacks Run Clean Up Day logo on them.

BMP Effectiveness

Review of BMP: A wide variety of audiences was reached through this BMP and educated about the high-priority stormwater issues.

Program Plan Revisions: Program Plan revisions were necessary, and the Program Plan was updated. The high-priority stormwater issues outlined in the original Program Plan were: City Schools, Downtown Restaurants, and Litter/Trash. These high priority issues were revised to Chesapeake Bay Nutrients, High Quality Receiving Waters, and Litter and Trash to more accurately meet the requirements of the permit.

City schools and downtown restaurants were still reached through the public education and outreach program. Stormwater staff attended multiple speaking engagements at city schools to discuss the high-priority stormwater issues of Chesapeake Bay nutrients and high-quality receiving waters and staff attended the 6th and 7th grade Plant a Seed field Trips. Downtown restaurants were sent a survey about sanitation issues and curb appeal related to improper disposal of waste and recycling. City staff worked with the Harrisonburg Fire Marshals to identify stormwater issues during their regular inspections, one illicit discharge was discovered by Fire Marshals during this permit year, although the restaurant in question was not located in the downtown area.

Minimum Control Measure #2: Public Involvement and Participation

BMP 2.1: Plan for, Respond to, and Document Public Input and Reports

Description

The City will develop and implement procedures for the following:

- 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.
- The public to provide input on the city's MS4 Program Plan.
- Receiving public input or complaints.
- Responding to public input received on the MS4 Program Plan or complaints.
- Maintaining documentation of public input received on the MS4 program and associated MS4 Program Plan and the city's response.

Annual Reporting Requirements

A summary of any public input on the MS4 program received and how the City responded.

Summary of Public Input

No public input on the MS4 program was received. The City anticipates comments during the Chesapeake Bay TMDL Action Plan comment period.

BMP Effectiveness

Review of BMP: The public can provide comments about the MS4 program and associated Program Plan as needed. Information about how to provide comments is listed on the stormwater webpage. The public

can also attend the quarterly Stormwater Advisory Committee meetings to provide comment during the public comment period of the meeting.

Program Plan Revisions: Program Plan revisions were not necessary.

BMP 2.2: Develop and Maintain a Stormwater Webpage

Description

No later than three months after this permit's effective date, the City will develop and maintain a webpage dedicated to the MS4 program and stormwater pollution prevention. The following information will be posted on this webpage:

- The effective MS4 permit and coverage letter.
- The most current MS4 Program Plan or location where the MS4 Program Plan can be obtained.
- The annual report for each year of the term covered by this permit.
- 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.
- Methods for how the public can provide input on the city's MS4 program.

Annual Reporting Requirements

A webpage link to the city's MS4 program and stormwater website.

Website Information

The City's MS4 Program Plan and Annual Reports are available on the City's Stormwater webpages: <http://www.harrisonburgva.gov/stormwater-management-program>.

The City of Harrisonburg promotes reporting of construction site issues through its website at: <http://www.harrisonburgva.gov/site-development>.

The City of Harrisonburg operates an online pollution reporting form for citizens to report illicit discharges at: <http://www.harrisonburgva.gov/report-pollution>.

BMP Effectiveness

Review of BMP: The metric for determining if the BMP is effective is if the websites are maintained and available for use. All of the websites are available for citizens to use and the City promotes the use of the websites periodically throughout the year.

Program Plan Revisions: Program Plan revisions were not necessary.

BMP 2.3: Implement Four Public Involvement Opportunities

Description

The City will implement no less than four activities per year from two or more of the categories described in the permit to provide an opportunity for public involvement to improve water quality and support local restoration and clean-up projects.

Annual Reporting Requirements

- A description of the public involvement activities implemented by the City.

- A report of the metric as defined for each activity and an evaluation as to if the activity is beneficial to improving water quality.
- The name of other MS4 permittees who participated in the public involvement opportunities.

Public Involvement Activities

- **Blacks Run Clean Up Day:** Blacks Run Clean Up Day is the annual community stream clean up organized by the City of Harrisonburg. The Event was held April 13th, 2019. Approximately 700 volunteers assisted in collecting 7,600 pounds (3.8 tons) of trash and 21 tires. There were 16 educational exhibits from participating organizations, which included the Shenandoah Valley Soil and Water Conservation District, Climate Action Alliance of the Valley, Wild Virginia, James Madison University, Virginia Master Naturalists, Potomac Appalachian Trail Club, Chesapeake Bay Foundation, Virginia Department of Forestry, Virginia Clean Cities, Harrisonburg Parks and Recreation, Harrisonburg-Rockingham Regional Sewer Authority, Bring Your Own, Virginia Department of Environmental Quality, and The Natural Garden. The website www.cleanstream.org has information on past and upcoming clean up day events. Further documentation is available upon request.
- **Household Hazardous Waste Collection Days:** Household Hazardous Waste Collection Days are organized by the City of Harrisonburg and Rockingham County and are offered to residents so they can properly dispose of their household hazardous waste. The collection days were held on October 20, 2019 and April 20, 2019.
- **6th and/or 7th Grade Plant a Seed Trips:** City of Harrisonburg middle school students participate in hands-on watershed field trips as a part of their curriculum. City of Harrisonburg staff help to teach lessons during these trips. The event was held on three days, May 29 through May 31, 2019 and reached 240 6th and 7th grade students.
- **Rain Barrel Workshops:** Rain Barrel workshops are organized by the Shenandoah Valley Soil and Water Conservation District and the City of Harrisonburg. Participants are taught about water conservation and watershed health and make rain barrels out of pickle barrels. The Rain Barrel workshop was held May 23, 2019.

BMP Effectiveness

Review of BMP:

- **Blacks Run Clean Up Day:** The metric for determining if the activity is beneficial to water quality will be tonnage of trash picked up. The average range of pounds of trash removed from 2001 – 2018 is 3,900 pounds – 8,100 pounds. This year's event is in alignment with previous years performances.
- **Household Hazardous Waste Collection Days:** The metric for determining if the activity is beneficial to water quality will be the type and amounts of items dropped off during the collection days. Collected waste included oil and antifreeze, waste paint, lamps, and aerosols.
- **6th and/or 7th Grade River Field Trips:** The metric for determining if the activity is beneficial to water quality will be the number of students reached through staff taught lessons. The event reached 240 students. In addition to meeting our goals, the City also led 8 additional educational events for K-12 students reaching approximately 750 additional students. The city also gave a presentation at 3 events for local colleges reaching 65 students. The City also gave 3 presentations to local citizens reaching approximately 130 people.
- **Rain Barrel Workshops:** The metric for determining if the activity is beneficial to water quality will be the number of participants in the workshop and the amount of rain barrels built. This year 23

people attended the workshop and 25 rain barrels were made. The average range of participants is 17 – 29 people and the average range of rain barrels made is 16 – 45. This year’s event is in alignment with past performances.

Program Plan Revisions: No Program Plan changes are needed at this time.

Minimum Control Measure #3: Illicit Discharge Detection and Elimination

BMP 3.1: Develop and Maintain a Storm Drain System, Outfalls, and Information Map

Description

The City will develop and maintain an accurate MS4 map and information table, which will be submitted to the DEQ no later than July 1, 2019, and updated no later than October 1 of each year. If any physical interconnections to other MS4s are established or discovered, written notification will be provided to those MS4s.

Annual Reporting Requirements

A confirmation statement that the MS4 map and information table are up-to-date as of June 30 of the reporting year.

Confirmation Statement

The MS4 map and information table are up-to-date and were submitted to the Department of Environmental Quality on June 6, 2019.

BMP Effectiveness

Review of BMP: The MS4 map and information table are up-to-date and were submitted to the Department of Environmental Quality.

Program Plan Revisions: No Program Plan changes are needed at this time.

BMP 3.2: Prohibit Illicit Discharges and Connections through Ordinance Language

Description

The City shall prohibit, through ordinance, policy, standard operating procedures, or other legal mechanism, to the extent allowable under federal, state, or local law, regulations, or ordinances, unauthorized non-stormwater discharges into the storm sewer system.

Annual Reporting Requirements

No requirements

BMP 3.3: Maintain and Implement Illicit Discharge Detection and Elimination Written Procedures

Description

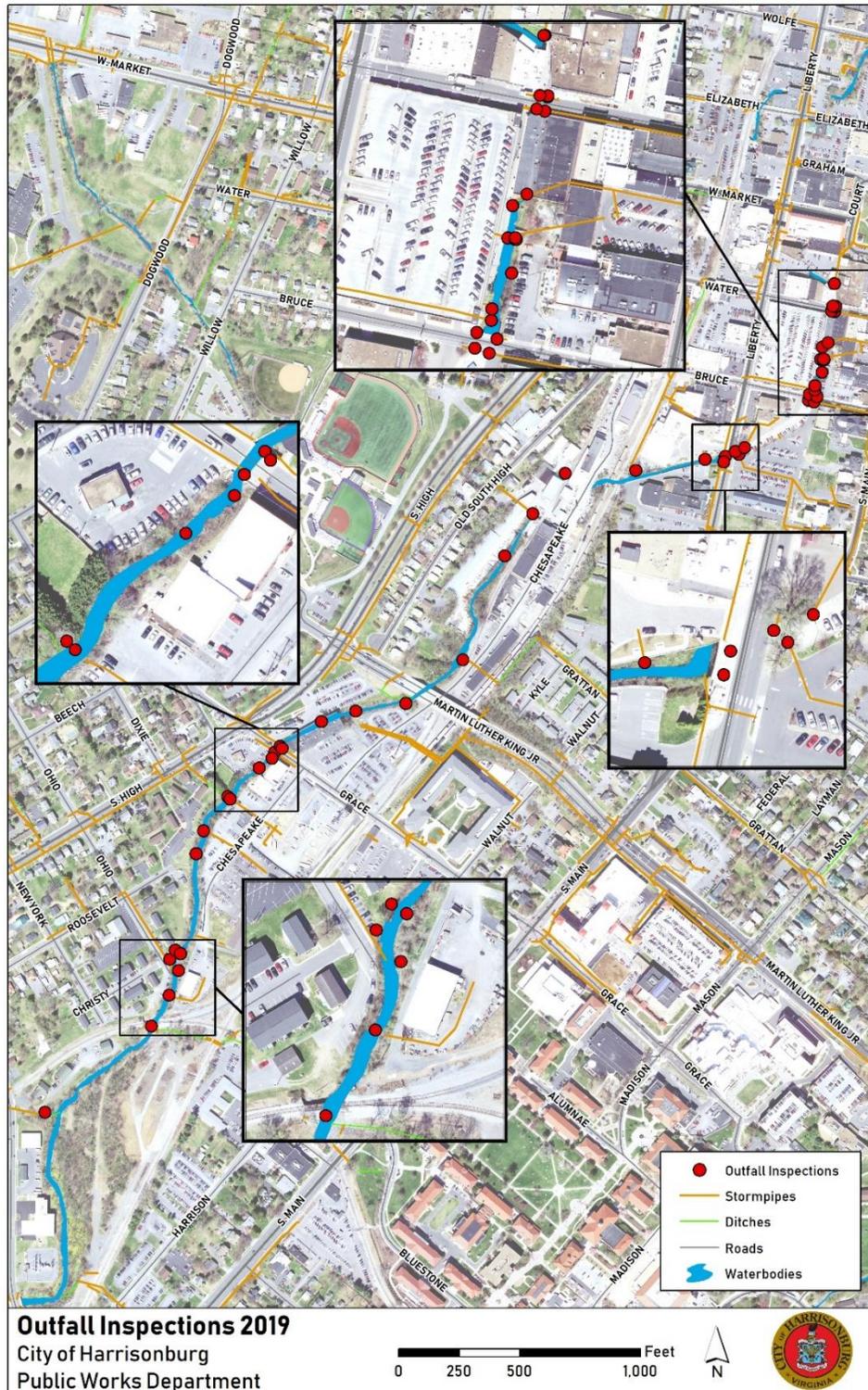
The City will maintain and implement illicit discharge detection and elimination (IDDE) written procedures designed to detect, identify, and address unauthorized non-stormwater discharges, including illegal dumping, to the MS4 with the goal of eliminating the unauthorized discharge. Procedures will include dry weather field screening of at least 50 outfalls per year.

Annual Reporting Requirements

- The total number of outfalls screened during the reporting period as part of the dry weather screening program.
- A list of illicit discharges to the MS4 including spills reaching the MS4.

Number of Outfalls Screened

During the 2018-2019 reporting period, 52 MS4 outfalls were inspected and 0 active illicit discharges were observed or required follow-up.



Illicit Discharges

The incidents listed in the Illicit Discharge Summary 2018-2019 report include potential (having entered the storm sewer system but not having entered the live waterway) and actual illicit discharges (having entered the storm sewer system and the live waterway). Other suspect illicit discharges (dumping activity or spills away from the storm sewer system) are tracked and enforced as needed. Significant suspect illicit discharges are included below. Further information is available by request.

| Incident Date | Report Date | Date Closed | Source | Discharge Discovery & Incident Narrative | Resolutions & and Follow Up Activities |
|----------------------|--------------------|--------------------|---------------|---|--|
| 7/3/2018 | 7/3/2018 | 7/3/2018 | Dumping | Harrisonburg Police Department noticed owners of apartment complex were dumping concrete chunks onto banks of Blacks Run. | City staff spoke with the owners and told them to contact USACE before performing stream bank work and to remove the concrete chunks and properly dispose of them. |
| 7/18/2018 | 7/18/2018 | 8/1/2018 | Stockpiling | City staff noticed large piles of soil and stone were stockpiled along the banks of a drainage ditch. | City staff contacted responsible party over the phone and the soil and gravel piles were removed the same day. |
| 9/11/2018 | 9/11/2018 | Closed by DEQ | Fuel Leak | Grocery store employee noticed a smell of fuel at store. Smell present for past two months. Oil sheen and smell found in one grate. | DEQ took over this investigation. A fuel leak was found at an adjacent gas station |
| 12/3/2018 | 12/3/2018 | 12/13/2018 | Spill | City staff called when a forklift fell off truck and spilled fluids on street. | Fire, PD, PW responded. The spill was contained, covered with sand, swept up, nothing reached storm sewer system. |
| 12/12/2018 | 12/12/2018 | 1/3/2019 | Dumping | Harrisonburg Fire Marshall noticed restaurant staff were dumping used grease into the storm drain behind restaurant. | A Notice of Violation letter was mailed to property owner and property manager and was also hand delivered to restaurant owner. Follow up inspection showed issue was fixed. |

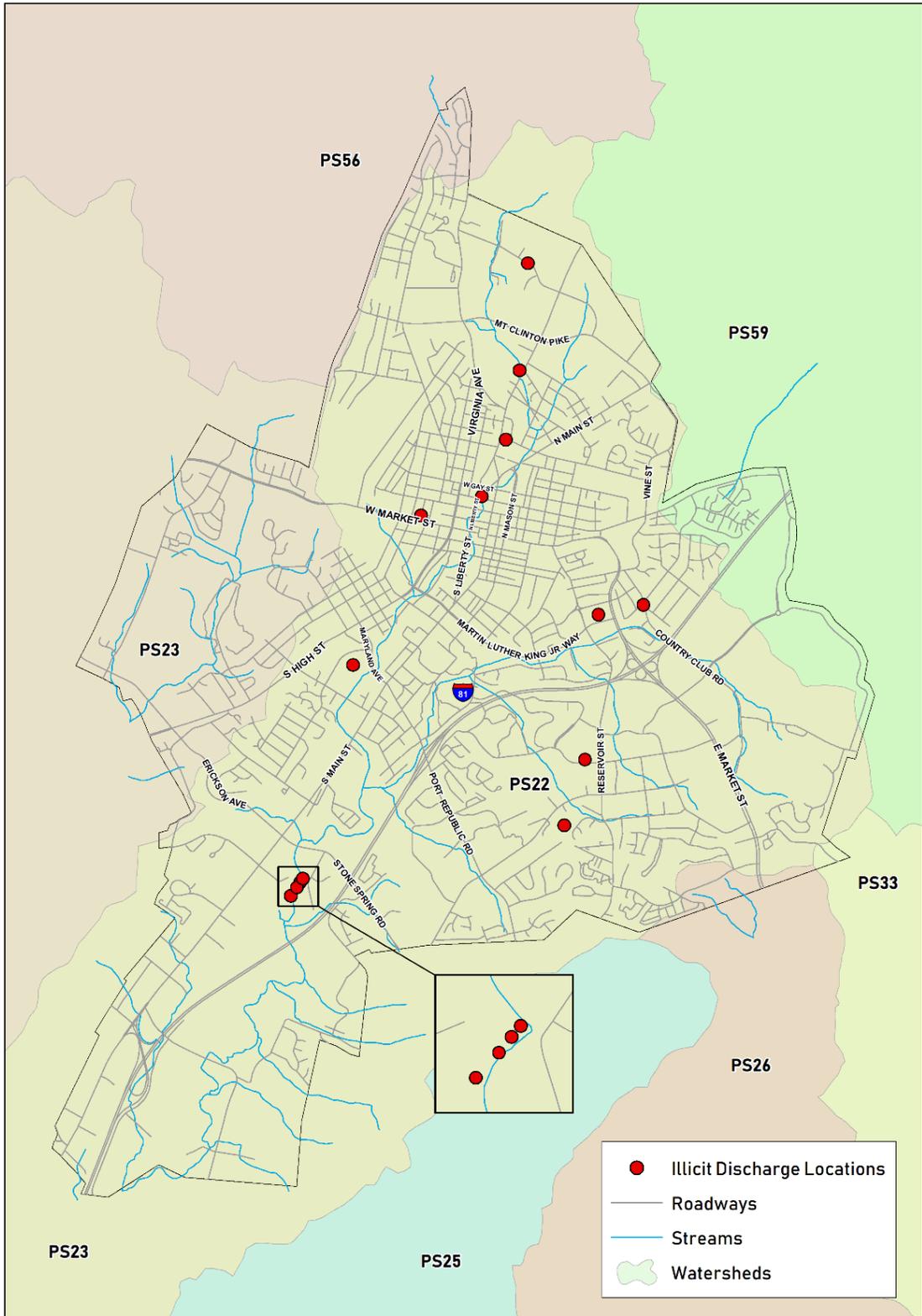
| | | | | | |
|-------------------|------------|-----------|-----------|--|--|
| 12/16/2018 | 12/16/2018 | 1/4/2019 | Fuel Leak | Private citizen noticed sheen on Blacks Run, which turned out to be a fuel leak from a fueling station. HFD and DEQ personnel responded to the issue on 12-17-18, where they found oil sheen running south on Blacks Run until Maryland Ave. | HFD installed booms on Blacks Run near fuel leak, behind Beyond Restaurant and near bridge on Maryland Ave. Private contractor installed underflow dam on site. DEQ took over this investigation. |
| 1/25/2019 | 1/25/2019 | 1/29/2019 | SSO | During Public Utilities' flushing exercise sanitary sewer spilled from clean-out 35/11 and overflowed onto pavement. The area around the clean-out was wet from the overflow but no solids were visible. No visible evidence of an overflow was present when our crews left the site. No sanitary sewer surcharge reached state waters. Two gallons of sewage was released. | Public Utilities did not recognize any additional actions that could be performed for this site. |
| 2/6/2019 | 2/6/2019 | 2/7/2019 | SSO | A citizen called Public Utilities engineering staff to report this sanitary sewer overflow. This overflow discovery was made during normal business hours. Public Utilities personnel responded immediately to the site and determined a blockage was present in line section 40L78. Field personnel jet flushed this line to remove restrictions and restore normal flow. Tree roots inside the pipe caused the blockage. | During the backup and our flushing exercise sanitary sewer overflowed from manhole 40/66 onto grass and oil. Public Utilities personnel cleaned and remediated the sewage spill. Lime was placed around manhole 40/66. The area around the manhole was wet from the overflow but no solids were visible when our crews left the site. No sanitary sewer reached state waters, stream, or storm water conveyance channel. The volume of the sewage released is unknown. At this time, Public Utilities does not recognize any additional actions that |

| | | | | | |
|------------------|-----------|-----------|-----------|--|--|
| | | | | | can be performed for this site. |
| 3/7/2019 | 3/7/2019 | 3/7/2019 | 3/7/2019 | Private citizen noticed apartment complex pumping water from pool onto ground. Stated that this was water they could not get into the sanitary sewer system due to pool elevation. | Stated water needed to be tested for chlorine. Water had chlorine in it. Email sent stating water needed to be dechlorinated and sent to vegetated area or chlorinated water pumped to sanitary sewer. |
| 6/25/2019 | 6/25/2019 | 6/25/2019 | 6/25/2019 | City staff noticed Harrisonburg City Schools Staff were washing loading docks with phosphate free soap. | Wes spoke with staff and told them this was not allowable. Street sweeper cleaned area. |

BMP Effectiveness

Review of BMP: Outfalls were screened and illicit discharges were followed up on per the permit requirements.

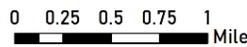
Program Plan Revisions: Program Plan changes are not needed at this time.



Illicit Discharges 2018-2019

City of Harrisonburg

Public Works Department



Minimum Control Measure #4: Construction Site Stormwater Runoff Control

BMP 4.1: Use Legal Authority to Address Discharges Entering the MS4

Description

The City will utilize its legal authority, such as ordinances, permits, orders, specific contract language, and interjurisdictional agreements, to address discharges entering the MS4. The City will control construction site stormwater runoff by implementing its Virginia Erosion and Sediment Control Program (VESCP) consistent with the Virginia Erosion and Sediment Control Law (Sec. 62.1-44.15:51 et seq. of the Code of Virginia) and Virginia Erosion and Sediment Control Regulations (9VAC25-840).

Annual Reporting Requirements

- A confirmation statement that land disturbing projects that occurred during the reporting period have been conducted in accordance with the current department approved standards and specifications for erosion and sediment.
- If one or more of the land disturbing projects were not conducted with the department approved standards and specifications, an explanation as to why the projects did not conform to the approved standards and specifications.
- Total number of inspections conducted.
- The total number and type of enforcement actions implemented and the type of enforcement actions.

Confirmation Statement

All land disturbing projects that occurred during the 2018-2019 reporting period were conducted in accordance with the current department approved standards and specification for erosion and sediment control.

Explanation of Nonconformity

All land disturbing projects were conducted in accordance with the current department approved standards and specifications.

Total Number of Inspections conducted

- Total number of land disturbing activities: 63
- Total number of acres disturbed: 109.57
- Total number of inspections conducted: 1316

Enforcement Actions

During the 2018-2019 reporting period 1316 land disturbing activity inspections were conducted. Of the 1316 inspections, 125 potential violations were noted. The findings and corrective measures were noted in the inspection files and either discussed on site, or emails or written letters were sent to the property owners or RLDs. Of the 125 potential violations, 8 Notice to Comply letters were sent to the property owners or RLDs. All potential violations were resolved in a timely manner without the need for further enforcement actions.

BMP Effectiveness

Review of BMP: All land disturbing projects that occurred during the 2018-2019 reporting period were conducted in accordance with the current department approved standards and specifications. Potential violations were noted and Notice to Comply letters were sent and all potential violations were resolved in a timely manner without the need for further enforcement actions.

Program Plan Revisions: Program Plan changes are not needed at this time.

Minimum Control Measure #5: Post-Construction Stormwater Management for New Development and Development on Prior Developed Lands

BMP 5.1: Implement the VSMP

Description

The city has an approved Virginia Stormwater Management Program (VSMP) and so shall implement the VSMP consistent with the Virginia Stormwater Management Act (Sec 62.1-44.15:24 et seq. of the Code of Virginia) and the VSMP Regulations (9VAC25-870).

Annual Reporting Requirements

None

BMP 5.2: Inspection and Maintenance Program for City Owned Stormwater Management Facilities

Description

The City will implement an inspection and maintenance program for those stormwater facilities owned or operated by the City that discharges to the MS4. The City will:

- Develop and maintain written inspection and maintenance procedures to ensure adequate long-term operation and maintenance of its stormwater management facilities.
- Inspect city owned or operated stormwater management facilities no less than once per year.
- Conduct maintenance as necessary.

Annual Reporting Requirements

- Total number of inspections conducted on stormwater management facilities owned or operated by the City.
- A description of the significant activities performed on the stormwater management facilities owned or operated by the City to ensure they continue to perform as designed. This does not include activities such as grass mowing or trash collection.

City Owned BMP Inspections

All city-owned BMPs were inspected once, for a total of 47 inspections.

Significant Activities performed

Sediment was removed from the Reservoir Street extended detention basin. Trapping for groundhogs and muskrats occurred on an as-needed basis in BMPs. Extensive control for invasives and vegetation trimming was completed at the Erickson/Stone Spring extended detention basin.

BMP Effectiveness

Review of BMP: All BMPs were inspected at least once during the permit year. One BMP (the hydrodynamic separator which was installed in 2017) was inspected and cleaned out during this permit year; however, an inspection report was not completed. At the time of the inspection, the asset had not yet been entered into the GIS-based inspection software. Hard copy inspection forms are now available in case this situation arises again.

Program Plan Revisions: Program Plan changes are not needed at this time

BMP 5.3: Inspection and Maintenance Program for Privately Owned Stormwater Management Facilities

Description

The City will implement an inspection and maintenance program for privately owned stormwater facilities that includes:

- An inspection frequency of no less than once per five years.
- Adequate long-term operation and maintenance by the owner by requiring the owner to develop a recorded inspection schedule and maintenance agreement.
- Enforcement of maintenance as needed.

Annual Reporting Requirements

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

Private Stormwater BMP Inspections and Enforcement Actions

During this reporting period, there were 26 inspections and there were 0 enforcement actions for privately owned stormwater management facilities.

BMP Effectiveness

Review of BMP: The inspection and maintenance program was implemented per permit requirements.

Program Plan Revisions: Program Plan changes are not needed at this time.

BMP 5.4: Track and Report Stormwater Management Facilities

Description

The City will maintain an electronic database or spreadsheet of all known city owned or city operated and privately owned stormwater management facilities that discharge into the MS4. The database shall also include all BMPs implemented by the city to meet the Chesapeake Bay TMDL load reduction required. The database will be updated when new stormwater management facilities are brought on-line or existing stormwater management facilities are discovered.

The City will use the DEQ Construction Stormwater Database to report stormwater management facilities installed to address the control of post-construction runoff from land disturbing activities for which the city is required to obtain a General VPDES Permit for Discharges of Stormwater from Construction Activities.

Historical BMPs will be reported using the DEQ Construction Stormwater Database, and new BMPs will be added to the DEQ BMP Warehouse on a yearly basis.

Annual Reporting Requirements

- A confirmation statement that the City submitted stormwater management facility information through the Virginia Construction Stormwater General Permit Database for those land disturbing activities for which the city was required to obtain coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities or a statement that the city did not complete any projects requiring coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities.
- A confirmation statement that the City electronically reported BMPs using the DEQ BMP Warehouse in accordance with the permit and the date on which the information was submitted.

Confirmation of VPDES Project Submittal

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

Confirmation of BMP Project Reporting

The permittee submitted BMPs using the DEQ BMP Warehouse in accordance with the permit on 8/28/2019.

BMP Effectiveness

Review of BMP: Septic to Sanitary Sewer Connections were submitted on 8/28/2019. The remaining BMPs were not able to be reported on the DEQ BMP Warehouse and include:

1. Homeowner BMPs
2. Street Sweeping
3. Land Conversion
4. Permanent Credit Purchases

Program Plan Revisions: Program Plan changes are not needed at this time.

Minimum Control Measure #6: Pollution Prevention and Good Housekeeping for Facilities Owned or Operated by the Permittee

BMP 6.1: Maintain and Implement Written Procedures for Pollution Prevention and Good Housekeeping

Description

The City shall maintain and implement written procedures for those activities at facilities owned or operated by the City, such as road, street, and parking lot maintenance; equipment maintenance; and the application, storage, transport, and disposal of pesticides, herbicides, and fertilizers designed to:

1. Prevent illicit discharges

2. Ensure the proper disposal of waste materials, including landscape wastes;
3. Prevent the discharge of wastewater or city vehicle washwater into the MS4 without authorization under a separate VPDES permit
4. Require implementation of best management practices when discharging water pumped from utility construction and maintenance activities
5. Minimize the pollutants in stormwater runoff from bulk storage areas (e.g. salt storage, topsoil stockpiles) using best management practices
6. Prevent pollutant discharge into the MS4 from leaking municipal automobiles and
7. Ensure the application of materials, including fertilizers and pesticides, is conducted in accordance with the manufacturers recommendations

Written pollution prevention and good housekeeping procedures shall be utilized as a part of the employee training program.

Annual Reporting Requirements

A summary of any daily operational procedures developed or modified in accordance with the permit requirements during the reporting period.

Summary of new or modified operational procedures

The sweeper pad operational procedure and map was modified to include information about the sweeper pad cover.

Existing Standard Operating Procedures

- Bulk Storage Areas (Stockpiles)
- Dewatering Operations
- Discharge of Wastewater
- Disposal of Waste Materials (Landscaping)
- Equipment Maintenance
- Fertilizer and Pesticide Applications
- Leaking Automobiles & Equipment
- Municipal Wash Water
- Prevent Illicit Discharges
- Road & Street Maintenance
- Spill Kits
- Sweeper Pad

BMP Effectiveness

Review of BMP: Operational procedures are available on the City intranet (C2) system accessible by all City of Harrisonburg employees and are distributed to site supervisors in hardcopy form to be stored in accessible location for employees to reference as needed.

Program Plan Revisions: Program Plan changes are not needed at this time.

BMP 6.2: Stormwater Pollution Prevention Plans

Description

Identify High-Priority, High-Potential Sites and Implement Stormwater Pollution Prevention Plans - The City will maintain and implement a site pollution prevention plan for each high-priority facility owned or operated by the permittee with a high potential to discharge pollutants that are not covered under a separate VPDES permit. SWPPP facilities will be inspected. Facilities without SWPPPs will be reviewed annually and added as necessary.

SWPPP Development for High-Priority, High-Potential Sites - Each SWPPP will contain information about the site and potential pollutants, written procedures designed to reduce and prevent pollutant discharge, procedures for training, an inspection and maintenance schedule, an inspection log, a log of unauthorized discharges, releases or spills.

Non-SWPPP Site Review - No later than June 30 of each year, the City will review any high-priority facility owned or operated by the City for which a SWPPP has not been developed to determine if the facility has a high potential to discharge pollutants. If the facility is determined to be a high-priority facility with a high potential to discharge pollutants, the City will develop a SWPPP no later than December 31 of that same year.

SWPPP Site Review - The City will review the contents of any site specific SWPPP no later than 30 days after any unauthorized discharge, release, or spill is reported to determine if additional measures are necessary to prevent future unauthorized discharges, releases, or spills. If necessary, the SWPPP will be updated no later than 90 days after the unauthorized discharge.

SWPPP Documentation - The SWPPP shall be kept at the high-priority facility with a high potential to discharge and utilized as part of staff training. The SWPPP and associated documents may be maintained as a hard copy or electronically if the documents are available to employees at the applicable site.

Facility Removal - If activities change at a facility such that the facility no longer meets the criteria of a high-priority facility with a high potential to discharge pollutants, the City may remove the facility from the high-priority, high-potential list.

Annual Reporting Requirements

- A summary of any new SWPPPs developed in accordance with the permit requirements during the reporting period
- A summary of any SWPPPs modified in accordance with the permit requirements during the reporting period.

Summary of new SWPPP Development

High-priority facilities were reviewed by June 30, 2019 to determine if there were any facilities meeting the high-priority, high-potential criteria requiring a SWPPP. Two facilities were identified:

1. Harrisonburg Electric Commission Facility on North Liberty Street
2. Public Works Storage Facility on West Market Street

SWPPS will be developed and implemented on these two facilities by December 31, 2019.

Summary of SWPPP Modifications

A roof was added to the sweeper pad area at the Public Works Facility. The facility SWPPP was modified to show this change.

BMP Effectiveness

Review of BMP:

- **New SWPPP Development:** High-priority facilities were reviewed to determine if new SWPPP development would be necessary by December 31.
- **SWPPP Modifications:** SWPPP modifications were made as necessary.

Program Plan Revisions: Program Plan changes are not needed at this time.

BMP 6.3: Pollution Prevention by Contractors

Description

The City will require through the use of contract language, training, standard operating procedures, etc., that contractors employed by the city and engaging in activities with the potential to discharge pollutants use appropriate control measures to minimize the discharge of pollutants to the MS4.

Annual Reporting Requirements

None

BMP 6.4: Stormwater Pollution Prevention Training Plan

Description

The City will develop a training plan in writing for applicable staff. The City will maintain documentation of each training event conducted for a minimum of three years after the training event.

Annual Reporting Requirements

A list of the training events conducted in accordance with the permit requirements including the following information:

- The date of the training event.
- The number of employees who attended the training event.
- The objective of the training event.

Training Event Summaries

| Date | Attendees | Objective |
|-----------------|-----------|--|
| April 11, 2019 | 9 | City Schools Maintenance Staff Training |
| June 6, 2019 | 20 | HEC Field Staff Training |
| Online Training | 31 | Parks and Recreation Field Staff Training |
| Online Training | 14 | Parks and Recreation SWPPP Facility Training |

| | | |
|-----------------|----|--|
| Online Training | 54 | Public Utilities Field/Customer Service Staff Training |
| Online Training | 55 | Public Utilities SWPPP Facility Training |

BMP Effectiveness

Review of BMP: City staff conducted in-person training for City Schools and Harrisonburg Electric Commission staff, and online training for Parks and Recreation and Public Utilities staff. All staff completed the main stormwater good housekeeping and illicit discharge detection training, relevant Parks and Recreation and Public Utilities staff completed additional SWPPP training.

Program Plan Revisions: Program Plan changes are not needed at this time.

BMP 6.5: Turf and Landscape Nutrient Management Plans

Description

The City will maintain and implement turf and landscape nutrient management plans on all lands owned or operated by the City where nutrients are applied to a contiguous area greater than one acre.

Annual Reporting Requirements

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

- Location and total acreage of each land area.
- The date of the approved nutrient management plan.

Summary of new nutrient management plans

1. Heritage Oaks Golf Course; 38°26'49.97"N, 78°54'15.82"W; 66.42 acres; 11/1/2017
2. Smithland Park; 38°26'55"N, 78°50'02"W; 5 acres, 2.5 acres, 10 acres; 11/1/2018
3. Purcell Park; 38°25'33"N, 78°52'53"W; 1 acre, 5.0 acres; 11/1/2018
4. Simms Field; 38°27'15"N, 78°51'30"W; 1.6 acres; 11/1/2018
5. Ramblewood Fields; 38°24'44"N, 78°53'13"W; 3.6 acres; 11/1/2018
6. Harrisonburg High School; 38°26'30"N, 78°54'37"W; 11.14 acres; 3/1/2018

BMP Effectiveness

Review of BMP: Nutrient management plans are in place at the required facilities. Bluestone Elementary School was built during this permit year but nutrient management plans are not required for this facility.

Program Plan Revisions: Program Plan changes are not needed at this time.

TMDL Special Conditions

Chesapeake Bay TMDL Special Condition

Description

In its Phase I and Phase II Chesapeake Bay TMDL Watershed Implementation Plans (WIP), the Commonwealth committed to a phased approach for MS4s to implement necessary pollutant reductions (phosphorus, nitrogen, and sediment). This permit (2018-2023) requires implementation of an additional

35% pollutant reductions as specified in the 2010 Phase I and II WIPs. In combination with the 5% pollutant reductions that have already been achieved, the total reduction at the end of this permit term is 40%.

The City developed the draft Chesapeake Bay TMDL Action Plan which was submitted to the Virginia Department of Environmental Quality with the Registration Statement.

The City will implement its Chesapeake Bay TMDL Action Plan and submit progress reports in its MS4 Annual Report in accordance with the permit requirements. Any updates to the Chesapeake Bay TMDL Action Plan will be submitted with each MS4 Annual Report.

Program Plan Requirements

The Chesapeake Bay TMDL Action Plan will be incorporated by reference into the program plan.

Anticipated BMPs or Strategies

The Chesapeake Bay TMDL Action Plan is available at: <https://www.harrisonburgva.gov/MS4-permit-program>

Annual Reporting Requirements

Once the Chesapeake Bay TMDL Action Plan is developed, each subsequent annual report shall include:

- A list of BMPs implemented during the reporting period but not reported to the DEQ Warehouse and the estimated reduction of pollutants of concern achieved by each and reported in pounds per year;
- If the permittee acquired credits during the reporting period to meet all or a portion of the required reductions, a statement that credits were acquired,
- The progress, using the final design efficiency of the BMPs, toward meeting the required cumulative reductions for total nitrogen, total phosphorous, and total suspended solids; and,
- A list of BMPs that are planned to be implemented during the next reporting period.

BMPs Implemented during the reporting period but not reported to the DEQ Warehouse

1. Homeowner BMPs
2. Street Sweeping
3. Permanent Credit Purchases
4. Land Conversion

Acquired Credits

Permanent credits were acquired during this permit year.

Progress towards Chesapeake Bay TMDL

TMDL Action Plan: The City of Harrisonburg has developed a Chesapeake Bay TMDL Action Plan and it is available at <http://www.harrisonburgva.gov/MS4-permit-program>. The 2018-2023 TMDL Action Plan will be available following permit guidance.

List of Control Measures Implemented During the Reporting Period: Street Sweeping, Homeowner BMPs, Septic to Sanitary Sewer Connections, Permanent Credit Purchase, Land Conversion

Estimate Reduction Achieved by Each Control:

| Type of BMP | Project Name | Location | Reductions (lbs/yr) | | |
|---|---|------------------------|---------------------|----------|---------|
| | | | TP | TN | TSS |
| Permanent Water Quality Trading Credits | As Needed | Nutrient Credit Market | 8 | 59.44 | Pending |
| Street Sweeping | Street Sweeping (annual) | Harrisonburg, VA | 815 | 2,037 | 244,411 |
| Septic to Sanitary Sewer Connections | Septic to Sanitary Sewer Connections (since 2006) | Harrisonburg, VA | 0 | 368 | 0 |
| Homeowner BMPs | Homeowner BMPs 2015 | Harrisonburg, VA | 4.92 | 71.07 | 0 |
| Homeowner BMPs | Homeowner BMPs 2016 | Harrisonburg, VA | 3.30 | 39.72 | 0 |
| Homeowner BMPs | Homeowner BMPs 2017 | Harrisonburg, VA | 0.32 | 3.51 | 0 |
| Homeowner BMPs | Homeowner BMPs 2018 | Harrisonburg, VA | 0.68 | 7.31 | 0 |
| Land Conversion: Pervious to Grass | Pollinator Habitats: HDR Pollinator Project 1 | Harrisonburg, VA | 0 | 0.11 | 0 |
| Land Conversion: Pervious to Grass | Pollinator Habitats: HDR Pollinator Project 2 | Harrisonburg, VA | 0 | 0.05 | 0 |
| Total | | | 832.22 | 2,586.21 | 244,411 |
| Amount Needed by 2023 | | | 354 | 2,684 | 303,897 |

BMPs to be implemented during next reporting period

The anticipated BMPs to be implemented during the next reporting period include (but are not limited to): Storm Drain Cleaning Practice, Septic to Sanitary Sewer Connections, Tree Planting, Permanent Credit Purchases, Stream Restoration, Pollinator Habitat Conversion, Homeowner BMPs, BMP Retrofits

Local TMDL Special Conditions

Description

The City will develop a local TMDL action plan designed to reduce loadings for pollutants of concern if the permittee discharges the pollutants of concern to an impaired water for which a TMDL has been approved by the U.S. Environmental Protection Agency (EPA) as described below:

1. For TMDLS approved by the EPA prior to July 1, 2013, and in which an individual or aggregate wasteload has been allocated to the permittee, the permittee shall update the previously approved local TMDL action plans to meet the conditions of the new permit as applicable, no later than 18 months after the permit effective date and continue implementation of the action plan; and
2. For TMDLs approved by EPA on or after July 1, 2013, and prior to June 30, 2018, and in which an individual or aggregate wasteload has been allocated to the permittee, the permittee shall develop and initiate implementation of action plans to meet the conditions of the new permit as applicable for each pollutant for which wasteloads have been allocated to the city's MS4 no later than 30 months after the permit effective date.

Annual Reporting Requirements

For each reporting period, each annual report shall include a summary of actions conducted to implement each local TMDL action plan

Summary of Actions

Smith Creek watershed has a TMDL that was approved by the EPA prior to July 1, 2013 and has an associated wasteload allocation. A Smith Creek TMDL Action Plan was developed and is available at <http://www.harrisonburgva.gov/MS4-permit-program>.

Existing programmatic practices, ordinances, and outreach currently in place under the MS4 program are sufficient to address anthropogenic sources of bacteria. Additionally, approximately 43,200 pet waste bags were distributed from the Smithland Road Dog park during this permit year.

This Action Plan will be updated no later than 18 months after the permit effective date.

The revised Blacks Run and Cooks Creek Watershed TMDL includes a WLA. This was approved by the EPA on July 10, 2019 and so a TMDL Action Plan will not be included during this permit cycle.