# GENERAL PERMIT FOR SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS PERMIT NUMBER: VAR040053

Permit Year 5 Annual Report Reporting Period: July 1, 2017 - June 30, 2018



City of Winchester, Virginia Rouss City Hall Public Services Department 15 North Cameron Street Winchester, VA 22601



4.

#### Table of Contents

Sect	<u>Page</u>
1.0	Background Information1
2.0	Status of Permit Condition Compliance
2.	Assessment of BMP Appropriateness
2.2	2. Required MS4 Program Plan Updates
2.3	
3.0	Results of Collected Data
4.0	Future Stormwater Activities
5.0	Changes in BMPs and Measurable Goals
5.1	. Changes in BMPs/Program Elements
5.2	
6.0	Government Reliance for Permit Obligations
7.0	Section II C Program Status21
8.0	General Permit Section I Information21
	Attachments
1.	Electronic Database/Spreadsheet of City-Owned and Privately-Owned Stormwater Management Facilities
2.	Evaluation of the City's MS4 Public Education and Outreach Program
3.	Letter from DEQ Confirming City Yards Facility Coverage Under the Virginia General Permit for Discharge of STormwater from Industrial Activities

SWPPP for Parks Maintenance Building in Jim Barnett Park



#### 1.0 Background Information

(1) Name and State permit number of the program submitting the annual report; (2) The annual report permit year; (3) Modifications to any operator's department's roles and responsibilities; (4) Number of new MS4 outfalls and associated acreage by HUC added during the permit year; (5) Signed certification in accordance with 9 VAC25-870-370.

#### 1. Name and State permit number of the program submitting the annual report:

City of Winchester, VA Permit # VAR040053

#### The annual report permit year:

This serves as the Annual Report for permit Year 5 of the 2013-2018 Virginia MS4 General Permit. This Report covers the reporting period from July 1, 2017 – June 30, 2018.

#### 3. Modifications to any operator's department's roles and responsibilities:

There have been no modifications to the roles and responsibilities of the various City departments responsible for implementation of the program during this reporting period. The City's Engineering Division, led by the City Engineer, is responsible for implementing the commitments in the MS4 Program Plan. The City's Department of Fire and Rescue, led by the Fire and Rescue Chief, is responsible for implementation of BMP 3.7: Hazardous Spill Response. The City's Public Works Division, led by the Refuse and Recycling Coordinator, is responsible for the implementation of BMP 3.8: Household Hazardous Waste Collection and BMP 3.9: Household Waste Reduction. The City's Public Works Division, led by the Public Works Division Manager, is responsible for implementation of BMP 5.5: City-Owned Stormwater Management Facility Maintenance and BMP 6.8: Street Sweeping.

#### 4. Number of new MS4 outfalls and associated acreage by HUC added during the permit year:

No new outfalls were added to the City's inventory during the reporting period.

#### 5. Signed certification in accordance with 9 VAC25-870-370

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.

Perty Eisenach, P.E.

Public Services Director

Date

9/28/18



For questions about the annual report submittal or Winchester's MS4 Program Plan, please contact:

Hongmyung Lim, E.I.T., Stormwater Engineer 15 N. Cameron Street Winchester, VA 22601

540-667-2376 Hong.Lim@winchesterva.gov

#### 2.0 Status of Permit Condition Compliance

The status of compliance with state permit conditions, an assessment of the appropriateness of the identified best management practices and progress towards achieving the identified measurable goals for each of the minimum control measures.

#### 2.1. Assessment of BMP Appropriateness

The City of Winchester is confident that the BMPs we have chosen to implement under our 2013-2018 MS4 Program Plan are appropriate and meet the requirements of the MS4 General Permit. We will continue to monitor the status and appropriateness of each BMP as implementation continues.

#### 2.2. Required MS4 Program Plan Updates

The MS4 General Permit identified a compliance schedule for the development and implementation of a number of new MS4 General Permit Requirements. There were no updates required this reporting period and the City is currently in compliance with the schedule included in Table 1 of the MS4 General Permit.

#### 2.3. Measurable Goals Progress

#### I. Public Education and Outreach

BMP 1.1. City Stormwater Webpage: The City will maintain a web page dedicated to the City's stormwater management program. The MS4 Program Plan, MS4 Annual Reports and other information will be made available to the public through this website. Once a year in conjunction with development of the MS4 Annual Report, the City will insure the validity of all links to stormwater information included on the web page.

During this reporting period, the City continued to maintain a stormwater specific webpage found at: <a href="http://www.winchesterva.gov/engineering/stormwater">http://www.winchesterva.gov/engineering/stormwater</a>. The City's webpage is the primary public education and outreach tool utilized for reaching the program's targeted audiences and providing for distribution of educational materials to convey the appropriate messages. Through this webpage, the City provided year-long public access to the following:

- EPA video series "After the Storm".
- Advertisement of the Stormwater Complaint Hotline and distribution (via direct download) of the Stormwater Complaint Hotline Flyer.
- Pollution prevention and water conservation tips.
- Distribution (via direct download) of flyers about picking up pet waste and the hazards of feeding wild waterfowl.
- Benefits of rain barrels and instructions on how to make them.



- Current and past regulatory documents pertaining to City's stormwater program including the Program Plan, Annual Report, and TMDL Action Plans.
- Links to other stormwater webpages maintained by the EPA and Virginia DEQ.

There were approximately 816 unique page views on the City's Stormwater Webpage during this reporting period. This represents a significant increase from 329 views during the previous reporting period. Regardless, the City will continue to explore ways to further promote the stormwater webpage.

BMP 1.2. Social Media: The City will use its Facebook and Twitter accounts as necessary to distribute stormwater related information to its citizens in order to meet the annual requirement to reach 20% of its target audiences.

The City has 11,628 Facebook and 3,203 Twitter individual followers which facilitated distribution of stormwater related materials and messages during this reporting period.

BMP 1.3. Public Events: The City will participate in public events such as the Community Wellness Festival as necessary to distribute stormwater related information to its citizens in order to meet the annual requirement to reach 20% of its target audiences. Expected public events will be identified as part of the intended MS4 Public Education and Outreach Program for the next reporting year in the applicable MS4 Annual Report.

The City participated in the Valley Health Community Wellness Festival on February 24, 2018. During this event, City Public Services staff made contact with approximately 180 children/adults and handed out "goody bags" each of which included 5 stormwater related pieces of information. Therefore approximately 900 stormwater-related informational materials were distributed to the general public including City residents at this event.

The City held its third annual Spring Greening on April 21, 2018. The Spring Greening is a way to involve citizen volunteers in trash pickup along the City's streams. Notices were sent to boy/girl scouts and schools in the City of Winchester area, inviting them to participate. In addition, volunteers were solicited through various media, asking volunteers to meet at a city park and then be directed to stretches of Abrams Creek running though city-owned property. The city arborist also performed a tree planting demonstration. Thirty volunteers picked up trash from the streams in the morning and collected 450 lbs. waste from Abrams Creek.

Moving forward, the City will continue its participation in the Community Wellness Festival and will explore ways to increase involvement in the annual Spring Greening event. The City is continuing to hold the Green Neighborhood Expo event, but due to its low interest in participation and change in the organizing committee, the City is unsure of how long this event will continue. However, the City will continue holding the Spring Greening event because of the increase in interest and participation (from 10 participants in 2017 to 30 participants in 2018). In addition, the City will continue to explore the possibility of creating new public events which target specific audiences such as contractors, dog owners, or car washers.



BMP 1.4 Publications (Print and Electronic): The City will use publications such as its Cit-E newsletter as necessary to distribute stormwater related information to its citizens in order to meet the annual requirement to reach 20% of its target audiences. Expected use of publications will be identified as part of the intended MS4 Public Education and Outreach Program for the next reporting year in the applicable MS4 Annual Report.

The City's webpage is the primary public education and outreach tool utilized for reaching the program's targeted audiences and providing for distribution of educational materials to convey the appropriate messages. Publications currently available for download from the City's Stormwater webpage during this reporting period included:

- Stormwater Complaint Hotline Flyer
- EPA's "After the Storm" Video Series
- · "Pick it Up, It's Your Doodie" Pet Waste Brochure
- "Please Do Not Feed the Waterfowl" Wildlife Waste Brochure
- "How to Make Your Own Rain Barrel" Presentation
- 2014 2018 Municipal Separate Storm Sewer System (MS4) Program Plan
- MS4 Permit Years 1-4 Annual Reports
- After the Storm Brochure English
- After the Storm Brochure Spanish
- SepticSmart:Septic Tank Maintenance English
- SepticSmart:Septic Tank Maintenance Spanish
- Make Your Home the Solution to Stormwater Pollution Brochure
- Kids Stormwater Stickers

In addition, the City uses its email newsletter, The Cit-E News, to announce and promote various activities throughout the year that have an impact on stormwater. Educational articles dealing with stormwater are also published in the newsletter. The Cit-E News currently has a total of 2,589 subscribers; however, many of the City's Facebook and Twitter posts direct readers to articles in the Cit-E News, so readership is much larger than just the subscriber list.

BMP 1.5. Watershed and Stormwater Educational Opportunities Program: The City will continue to implement its Watershed and Stormwater Opportunities Education Program directed at students in Winchester City Public Schools. The City will concentrate on delivery of this program to sixth grade students in a manner necessary to insure that high priority water quality issues are addressed to the target audiences.

The City continued the Watershed and Stormwater Educational Opportunities Program as part of the City's formal program of stormwater education at schools within the City. The City's engineering staff conducted the following school presentations regarding engineering and high priority water quality issues during the current reporting period:

- September 26, 2017 Winchester STARBASE Academy 5th graders 40 students
- November 3, 2017 Winchester STARBASE Academy 5th graders 40 students
- December 1, 2017 Winchester STARBASE Academy 5th graders 40 students
- February 14, 2018 Sherando High School Spec. ed. 20 students
- February 16, 2018 Massanutten Military Academy 25 students
- March 19, 2018 New John Kerr Elementary School pre-K 4th graders 550 students



- April 24, 2018 Winchester STARBASE Academy 5th graders 45 students
- May 3, 2018 Orchard View Elementary 2<sup>nd</sup> graders 80 students
- June 6, 2018 Orchard View Elementary 4th graders 65 students

BMP 1.6. Other Message Delivery: The City will utilize other types of message delivery as necessary such as "Clean Up After Your Dog" signage at the City's Dog Park to reach the target audiences identified in its Public Education and Outreach matrix. These types of message delivery will be identified as part of the intended MS4 Public Education and Outreach Program for the next reporting year in the applicable MS4 Annual Report.

The City continued to promote picking up pet wastes through the use of "Clean Up After Your Dog" signs placed at the Dog Park located in Jim Barnett Park. There are currently 173 dog owners who are registered to use the Dog Park.

The City's Public Works Division continued to promote its Adopt-A-Tree, Watch It Grow program on its web page and through distribution of its pamphlet. There were 2 Adopt-A-Tree plantings during this reporting period.

BMP 1.7. Educational Materials: The City will retain copies (electronic or hard copy) of educational materials utilized in delivery of its messages regarding high priority water quality issues to target audiences. As part of the stormwater education and outreach program review required prior to reapplication for coverage under the MS4 General Permit in FY2017/18, the City will review the appropriateness of the message contained in these educational materials.

The City continues to maintain current copies of all the educational materials utilized under its Public Education and Outreach program to include the publications listed under BMP 1.4 above.

#### Additional Reporting Requirements:

Provide a list of the education and outreach activities conducted during this reporting period for each highpriority water quality issue, the estimated number of people reached, and an estimated percentage of the target audience or audiences that were reached.

Table 1. Education and Outreach Activities conducted during this reporting period

High Priority WQ Issue	Activity Description	Estimated # of People Reached	Estimated % of Target Audience(s) Reached
HPWQI #1: Reduce the amount of sediments and nutrients in area stormwater discharges	Watershed and Stormwater Educational Opportunities Program at local schools	905	21%*
Target Audience: 8,341	Community Wellness Festival 2015	180	2%
citizens	Rain Barrel Workshop	0	0%
	Spring Greening	30	<1%
	Social Media Campaign on Facebook and Twitter	14,831	17%**



HPWQI #2: Reduce bacteria levels in City of Winchester streams	Watershed and Stormwater Educational Opportunities Program at local schools	905	56%*
Target Audience: 3,200 citizens	Community Wellness Festival 2015	180	5%
	Spring Greening	30	<1%
	Social Media Campaign on Facebook and Twitter	14,831	46%**
HPWQI #3: Reduce the number of Illicit Discharges	Watershed and Stormwater Educational Opportunities Program at local schools	905	22%
Target Audience: 8,175 citizens	Community Wellness Festival 2015	180	2%
	Spring Greening	30	<1%
	Social Media Campaign on Facebook and Twitter	14,831	18%**

<sup>\*</sup> These estimates assume that each student shared the ideas and information they received during the training with two other family members or friends who are part of the targeted audiences.

Provide a list of the education and outreach activities that will be conducted during the next reporting period for each high-priority water quality issue, the estimated number of people that will be reached, and an estimated percentage of the target audience or audiences that will be reached.

The City plans to continue with the following education and outreach activities during the next reporting cycle and expects to reach the same or even more members of the targeted audiences as were reached during this reporting period (which was well over the targeted 20%):

- Watershed and Stormwater Educational Opportunities Program at local schools (To be scheduled)
- Green Neighborhood Expo (October 20, 2018)
- Community Wellness Festival 2019 (February 2019)
- Spring Greening (Spring 2019)
- Rain Barrel Workshop (Potentially early-Spring 2019)
- Social Media Campaign on Facebook and Twitter (Continuously throughout the year)

#### II. Public Involvement and Participation

BMP 2.1. Public Announcements: The City will provide public notification of all public meetings and hearings in accordance with any applicable federal, state, and local public notice requirements.

The City has continued to comply with the applicable public notice requirements under the MS4 General Permit. Public meetings are advertised on the City's web page <a href="http://www.winchesterva.gov/government/public-meeting-and-business-procedures">http://www.winchesterva.gov/government/public-meeting-and-business-procedures</a> and in the Winchester Star Newspaper, as required by Virginia Open Meetings Law.

<sup>\*\*</sup> These estimates conservatively assume that 10% of the City's individual followers on Facebook and Twitter are part of the targeted audiences and were reached by the City's Social Media Campaign.



BMP 2.2. Public MS4 Program Information Access: The City will provide public access to the MS4 Program Plan and MS4 Annual Reports by placing copies of the updated MS4 Program Plan and MS4 Annual Report on the City's Stormwater Webpage (BMP 1.1). Copies of each year's annual report will be retained on-line for the length of the current General Permit.

The City of Winchester's current MS4 Program Plan and previous Annual Reports are available for download at: <a href="http://www.winchesterva.gov/engineering/stormwater">http://www.winchesterva.gov/engineering/stormwater</a>. This MS4 Annual Report and any revisions to the City's MS4 Program Plan will be placed on-line within 30 days of submission to DEQ.

BMP 2.3. Stormwater Complaint Hotlines: The City will maintain its current stormwater complaint hotlines to encourage public reporting and involvement. The City promotes 540-662-4131 for reporting urgent issues such as illegal dumping and spills. The City promotes 540-542-1346 for reporting of less urgent issues such as maintenance issues and erosion and sediment control complaints.

During this reporting period, the City continued to advertise the Stormwater Complaint Hotlines on its stormwater webpage, processed calls placed to the Stormwater Complaint Hotlines, and facilitated distribution (via direct download) of the Stormwater Complaint Hotline Flyer.

BMP 2.4. Promotion of the Local Environmental Events: The City will annually promote a total of four events encouraging public participation and involvement including Household Hazardous Collection Days and Adopt-A-Stream. The City will promote these activities through use of its public education and outreach BMPs such as 1.1 City Stormwater Webpage, 1.4 Publications and 1.6 Other Message Delivery.

The local environmental events that the City promoted during this reporting period were:

- Household Hazardous Waste Collection Days (see schedule under BMP 2.5)
- October December Leaf Collection via Facebook, Cit-E News
- February 22 Publicize Valley Health Wellness Festival event via Cit-E News
- April 19 Promoting Arbor Day tree plantings via Facebook, Cit-E News
- April 19 Spring Greening via Facebook, Cit-E News

BMP 2.5. Promotion of the Household Hazardous Waste Collection Days: The City will continue to promote the joint Frederick County Winchester Household Hazardous Waste Collection Days program. The City will promote the Household Hazardous Waste Collection Days as one of its four local participation programs and will contribute to its implementation by providing pick-up and disposal of trash and debris collected by the participants.

The City continued to promote the Household Hazardous Waste Collection Days as one of its four local participation programs. These events were held on the first and third Wednesdays of each month from noon to 6 p.m. during the months of April through October. During the months of November, December, January, February and March, one event was held each month on the third Wednesday of the month.



BMP 2.6. Sponsorship of Adopt-A-Stream Program: The City will continue to promote Adopt-A-Stream program by sponsoring an annual stream clean-up day. In addition, the City will sponsor an Adopt-A-Stream Stream Clean-Up Day as one of its four local participation programs and will contribute to its implementation by providing pick-up and disposal of trash and debris collected by the participants.

The City is continuing its annual Spring Greening event which promotes stream cleanup along with its Adopt-A-Street program. The event was held on April 21, 2018 and 30 volunteers collected 450 lbs. of trash from one city stream running through city-owned property.

#### Additional Reporting Requirements:

Provide a web link to the MS4 Program Plan and annual report.

The City of Winchester's current MS4 Program Plan and previous Annual Reports are available for download at: <a href="http://www.winchesterva.gov/engineering/stormwater">http://www.winchesterva.gov/engineering/stormwater</a>. This MS4 Annual Report and any revisions to the City's MS4 Program Plan will be placed on-line within 30 days of submission to DEQ.

Provide documentation of compliance with the public participation requirements of this section,

Documentation of the City's compliance with the public participation requirements contained in Section II.B.2 of the MS4 General Permit has been provided in the write-ups shown above under the Public Involvement and Participation section of this Annual Report and via the City's stormwater webpage.

#### III. Illicit Discharge Detection and Elimination

BMP 3.1. Storm Sewer Infrastructure and Outfall Mapping: The City will maintain a stormwater infrastructure layer as part of its overall GIS program. The General Public will be able to access the stormwater infrastructure layer using the City's interactive mapping program. The City will maintain an MS4 Outfall layer that identifies the location of the City's MS4 outfalls.

In accordance with MCM 3 of the City's MS4 Program Plan, the Outfall Map was updated in 2017 to include all MS4 outfalls located within the boundaries identified as "urbanized" areas in the 2010 Decennial Census. As a part of that update, the City evaluated all of the previously located outfalls to determine if they were actually MS4 regulated outfalls. Additionally, the approximate drainage area of each regulated outfall was delineated. This updated mapping information was included as Attachment 2 of Annual report 4.

The City continues to update the storm sewer map on a continuous basis with the receipt of "asbuilt" development plans. A utilities map including storm sewer infrastructure mapping is available to the public on the following website: <a href="http://gis.winchesterva.gov/utilitiesmapping/">http://gis.winchesterva.gov/utilitiesmapping/</a>



BMP 3.2. MS4 Operator Coordination: The City will provide written notification to downstream MS4 operators where it identifies that the City's MS4 infrastructure is physically connected. At this time, the only local MS4s are the Frederick County Schools MS4 and the Virginia Department of Transportation.

The City did not provide any <u>new</u> written notifications of physical interconnections with downstream MS4 operators as they are the same as in previous years.

BMP 3.3. Legal Authority - IDDE: The City will maintain legal authority prohibiting illicit discharges into the MS4 system. The legal authority will also identify those non-stormwater discharges allowed to be discharged into the MS4 system. This legal authority is established at Chapter 9, Section III of the Code of Winchester.

The City continues to maintain the legal authority to prohibit illicit discharges through the City's Water Protection Ordinance (Chapter 9 of the City Code). The City provides information on illicit discharges and links to Chapter 9 of the City Code on the following website: <a href="http://www.winchesterva.gov/engineering/stormwater">http://www.winchesterva.gov/engineering/stormwater</a>.

BMP 3.4. IDDE Investigation and Follow-Up: The City will investigate and conduct follow-up on suspect discharges in accordance to procedures included in the Illicit Discharge Detection and Elimination (IDDE) Standard Operating Procedures Manual, June 2014 edition.

The City's Illicit Discharge Detection and Elimination (IDDE) Standard Operating Procedures Manual, June 2014 edition provides guidance for investigating complaints, determining the source of suspect discharges, and eliminating illicit discharges. Those investigations are summarized below under BMP 3.6.

BMP 3.5. MS4 Outfall Dry Weather Field Screening: The City will conduct dry weather screening on fifty (50) MS4 outfalls annually using procedures included in the Illicit Discharge Detection and Elimination (IDDE) Standard Operating Procedures Manual, June 2014 edition.

In conjunction with the update to the outfall mapping noted above under BMP 3.1, the City conducted dry weather screening inspections of all MS4 outfalls during this reporting period. A total of 50 regulated outfalls were screened and no suspect discharges were found.



BMP 3.6. Illicit Discharge Tracking and Documentation: The City will track and document suspect and illicit discharges, as well as, City investigation, follow-up and enforcement actions in accordance to procedures included in the Illicit Discharge Detection and Elimination (IDDE) Standard Operating Procedures Manual, June 2014 edition.

During this reporting period, the City investigated six reports of illicit discharges.

**Table 2. Illicit Discharge Tracking Summary** 

ID#	Date	Description of	Actions Taken	Date
	Opened	Discharge		Closed
IDR18-001	8/17/2017	E&S measures failed at single family home construction site during heavy rain and sediment was washed downstream for several blocks.	There were no storm inlets in the immediate area of the site so the sediment was largely contained to the curb and gutter. The E&S inspector ensured that the contractor on the site shoveled and swept any sediment the left the site.	8/18/2017
IDR18-002	10/30/2017	White colored water was seen pooling in the gutter in front of 229 South Loudoun. The Erosion Control Inspector inquired at the business about the source and was told that it was from the painters cleaning their brushes outside on the pavement.	The owner of the business used a vacuum to remove the remaining puddled water. The site was continually checked to make sure that the painter did not continue to release brush cleaning water.	10/30/2017
IDR18-003	2/6/2018	50 Concrete trucks left the site without cleaning their tires, pulling sediment onto Meadow Branch Avenue.	The contractor was given a 7 days to comply with E&S regulations. A Notice to Comply was then given out. The Notice to Comply was for 7 days. The morning of the 14th day, the LDP Permit was pulled due to non-compliance by the inspector and program administrator. The E&S inspector ensured the contractors on site resolved this issue before the permit was reinstated.	2/27/2018



IDR18-004	2/8/2018	Light brown colored liquid was seen in the gutter manhole in front of Roy Rogers on South Pleasant Valley. The E&S inspector spoke with the contractors about the source and was told that it was from disconnecting the water hose into the gutter manhole during	The E&S inspector ensured that the contractor on site shoveled and swept all the light brown colored illicit discharge from the gutter and manhole.	2/8/2018
IDR18-005	3/27/2018	the boring process.  A blue tube was seen connecting from the basement of 201 West Street to the City's Storm Sewer. The E&S inspector learned that the sump pump was disconnected and all electricity was off, and the owner had roughly 4 inches depth of water with sediments flooded in the basement.	The Stormwater engineer explained why discharging straight into the storm sewer is not allowed, and the owner pulled the tube from the storm sewer back into the house.	3/27/2018
IDR18-006	4/22/2018	The Stormwater Engineer went out 1721 Brandon Drive to inspect an illicit discharge. Oil was clearly seen on the site in front of the vehicle. The oil was still wet on the floor on a dry day.	The Stormwater Engineer met with the owner of the property on site. The owner stated he will be clean up the oil left over with cat litter.	4/23/2018

BMP 3.7. Hazardous Spill Response: The City, in cooperation with Frederick County, will provide emergency response to hazardous material spills and accidental chemical releases.

During this reporting period, there were 44 incidents reported by emergency response personnel. All of these incidents were minor in nature and were contained to the area of origin. None of these events resulted in a discharge to the City's MS4.



BMP 3.8. Household Hazardous Waste Collection: The City, in cooperation with Frederick County, will continue to provide household hazardous waste collection opportunities for its residents. The collection schedule will be promoted through use of the City's social media and Cit-E newsletter.

The City continued to promote the Household Hazardous Waste Collection Days as one of its four local participation programs. These events were held on the first and third Wednesdays of each month from noon to 6 p.m. during the months of April through October. During the months of November, December, January, February and March, one event was held each month on the third Wednesday of the month. All collections take place at the landfill's citizens' convenience center.

BMP 3.9. Household Waste Reduction: The City will continue to provide weekly waste collection services for City residents. In addition, the City will continue to provide fall leaf collection services, yard waste collection services and bulky waste collection services to City residences. Schedules for these services will be placed on the City's Public Works web page regarding refuse and recycling (http://www.winchesterva.gov/public-works/refuse).

The City continued to provide weekly waste collection services for City residents. The following are statistics associated with the City's Household Waste Reduction Program during this permit cycle:

- Household waste collected 6,560.62 tons
- Recycled materials (paper/cardboard, bottles/cans/plastic, scrap metal) collected 2,961.86 tons
- Yard waste collected 897.60 tons
- Recycling bins distributed 1,247

BMP 3.10. Elimination of Sanitary Sewage Seepage from Public Sewers: The City will continue, as part of its sanitary sewer utilities program, implementation of its inflow and infiltration program to replace or slipline sanitary sewers to prevent illicit discharge. The level of implementation of this BMP each year will be established by the City Council as part of annual budget approval.

As part of the City's ongoing inflow and infiltration program, the City replaced no sewer main and replaced no manholes during this reporting period.

#### Additional Reporting Requirements:

List any written notifications of physical interconnections given by the operator to other MS4s

The City did not provide any <u>new</u> written notifications of physical interconnections with downstream MS4 operators as they are the same as in previous years (Frederick County Schools MS4 and the Virginia Department of Transportation).

List the total number of outfalls screened during the reporting period, the screening results, and details of any follow-up actions necessitated by the screening results

The City screened 50 outfalls during this reporting period. The City's outfall screening results were provided under BMP 3.5 above.



Provide a summary of each investigation conducted by the operator of any suspected illicit discharge. The summary must include: (i) the date that the suspected discharge was observed, reported, or both; (ii) how the investigation was resolved, including any follow-up, and (iii) resolution of the investigation and the date the investigation was closed.

The City investigated six potential illicit discharge events during this reporting period. Details, including dates, of these investigations were provided under BMPs 3.5 and 3.6 above.

#### IV. Construction Site Stormwater Runoff Control

BMP 4.1. Legal Authority – E and SC: The City will maintain legal authority for implementation of a local erosion and sediment control program consistent with 9VAC25-840-10 et. seq. This legal authority is established at Chapter 9, Section II of the Code of Winchester.

The City continues to maintain the legal authority for implementation of a local erosion and sediment control program consistent with 9VAC25-840-10 through the City's Water Protection Ordinance (Chapter 9, Section II of the City Code). The City provides information on erosion sediment control and links to Chapter 9 of the City Code on the following website: <a href="http://www.winchesterva.gov/engineering/">http://www.winchesterva.gov/engineering/</a>. The City also provides access to a downloadable Land Disturbance Permit Package on the following website: <a href="http://www.winchesterva.gov/engineering/permits">http://www.winchesterva.gov/engineering/permits</a>.

BMP 4.2. Land Disturbing Activity Plan Review: The City will require submission of complete Land Disturbance Permit Applications and Virginia Stormwater Management Program Permit Packages for regulated land disturbance activities. The City will review the packages for compliance with Chapter 9, Section II of the City Code (Erosion Control) and Chapter 9, Section III of the City Code (Stormwater Management) by reviewing the checklists included in the permit application packages. Approval for land disturbance will not be given by the City until an application is approved.

The City continues to require permits for land disturbing activities including a VSMP authority permit through Chapter 9 of the City Code. The City provides access to a downloadable Land Disturbance Permit Package and Virginia Stormwater Management Program Permit Package on the following website: <a href="http://www.winchesterva.gov/engineering/permits">http://www.winchesterva.gov/engineering/permits</a>. The City approved 19 construction plan sets during the reporting period.

BMP 4.3. VPDES Construction Activity Permit Coordination: The City will not authorize initiation of land disturbance activities until it receives evidence that the applicant has applied for and obtained coverage under the Virginia General Permit for Discharges of Stormwater from Construction Activities for construction activity, including a completed general permit registration statement as required under City Code Section 9-50.

The City continues to require evidence that the applicant has applied for and obtained coverage under the Virginia General Permit for Discharges of Stormwater from Construction Activities per Section 9-50(b)(4) of the City Code. During this reporting period, there were one site located within the City that were approved for coverage under the VPDES General Permit for the Discharge of Stormwater.



BMP 4.4. Land Disturbing Activity Inspections: The City will maintain a land disturbance inspection program that is consistent with the requirements of Section 9-39 of the City Code. In addition, as part of these inspections, the City will inspect sites for compliance with Section 9-58 of the City Code requiring implementation of a pollution prevention plan and Section 9-67 of the City Code requiring compliance with the approved stormwater management plan. The City will enforce these requirements as authorized and in accordance to Chapter 9 of the City Code.

The City continues to maintain an inspection program in accordance with Sections 9-39 and 9-67 of the City Code. The City's inspection program provides for inspection of land disturbing activities during construction to ensure compliance with:

- Approved erosion and sediment control plans
- Approved stormwater management plans
- · Development, updating, and implementation of pollution prevention plans
- Development and implementation of any additional control measures necessary to address TMDLs

During this reporting period, there were a total of 2,530 inspections conducted across all construction sites located within the City.

BMP 4.5. Land Disturbing Activity Tracking and Recordkeeping: The City has an existing program to track land disturbance activities to provide the necessary information for routine inspections, as-built inspections, surveys, and determining which areas may be most likely to incur heavier than normal sediment loading. Plan approval records and inspections will be tracked and documented in the City's digital records system, SunGard.

During this reporting cycle, there were 19 Land Disturbance Permit Applications submitted, reviewed, and subsequent permits issued by the City.

#### **Additional Reporting Requirements:**

The operator shall track regulated land-disturbing activities and submit the following information in all annual reports: (1) Total number of regulated land-disturbing activities; (2) Total number of acres disturbed; (3) Total number of inspections conducted; and (4) A summary of the enforcement actions taken, including the total number and type of enforcement actions taken during the reporting period.

The following statistics apply to this reporting period:

Table 4. Regulated Land-Disturbing Activities

ITEM CONTROL OF THE PROPERTY O	TOTAL
Land Disturbing Permits Issued	19
Disturbed Acres	5.69
Inspections Conducted	2,530
Written Enforcement Actions Necessary	37



# V. Post Construction Stormwater Management in New Development and Development on Prior Developed Lands

BMP 5.1. Legal Authority - SWM: The City will maintain the legal authority necessary to implement a VSMP that is consistent with 9VAC25-870-10 et. seq. This legal authority is established at Chapter 9, Section III of the City Code.

The City continues to maintain the legal authority for implementation of a local Virginia Stormwater Management Program (VSMP) consistent with 9VAC25-870-10 through the City's Water Protection Ordinance (Chapter 9, Article III of the City Code). Furthermore, the City provides a link to Chapter 9 of the City Code on the following

website: <a href="http://www.winchesterva.gov/engineering/">http://www.winchesterva.gov/engineering/</a>. The City provides access to a downloadable Virginia Stormwater Management Program Permit Package on the following website: <a href="http://www.winchesterva.gov/engineering/permits">http://www.winchesterva.gov/engineering/permits</a>.

BMP 5.2. Private Stormwater Management Facility Inspections: The City will maintain a post development stormwater management facility inspection program in accordance with Section 9-67 of the City Code. Inspections on such facilities will be conducted at least once every five (5) years. Under required maintenance agreements executed by and between a private landowner (BMP 5.3), the City is provided with right-of-access to the private property on which a stormwater BMP is located, confers responsibility for construction and maintenance to the private landowner or property owners' association, and ensures that the City can undertake steps to maintain a facility should an inspection identify any deficiencies or problems. Maintenance agreements are recorded with the title to the property, providing the City with an enforceable legal instrument should a private landowner neglect to maintain a stormwater management facility constructed on his or her property. Inspection records will be kept on file with the City Engineer's Division.

The City continues to maintain a post development stormwater management facility inspection program in accordance with Section 9-67 of the City Code. The City has changed their inspection program from annual inspections by licensed private professionals to inspections once every five years by City personnel, and annual self-inspections by owners. During this reporting period, there were 88 self-inspections reported on 49 different sites. In addition, city personnel conducted another 28 comprehensive inspections on 17 different sites. Of those inspected by the City, 7 were found to have deficiencies beyond the scope of routine maintenance. Notices were sent to the property owners and follow up inspections were scheduled for 60 days from the date of the notices.

BMP 5.3. Maintenance Agreements: The City will require executed maintenance agreements for stormwater management facilities in accordance to Section 9-63 of the City Code. The agreement shall be recorded in the office of the Clerk of the Circuit Court for the City of Winchester. A copy of the City of Winchester Stormwater Facilities/BMP Maintenance Agreement is included in the Virginia Stormwater Management Program Permit Application.

The City continues to require the execution of maintenance agreements for private stormwater management facilities in accordance with Section 9-63 of the City Code. During this reporting period, there were no maintenance agreements executed with the City and recorded in the office of the Clerk of the Circuit Court for the City of Winchester.



BMP 5.4. City-Owned Stormwater Management Facility Inspections: The City Division of Engineering will inspect stormwater management facilities owned/operated by the City annually using procedures identified in the Public Stormwater Management Facility Inspection Standard Operating Procedures Manual, June 2014 edition. Copies of the inspections will be kept on file with the City Engineer's Division.

The City continued with its program to inspect stormwater management facilities owned/operated by the City annually. During this reporting period, there were 41 City owned/operated stormwater facilities that were inspected. Copies of the inspection reports are available in the City Engineer's office.

BMP 5.5. City-Owned Stormwater Management Facility Maintenance: The City Division of Public Works will conduct maintenance on City-Owned Stormwater Management Facilities as necessary and in response to Division of Engineering inspections.

Based on the results of the inspections of the 41 City owned/operated stormwater management facilities, 26 of these facilities required maintenance or follow-up inspections.

BMP 5.6. Tracking and Documentation: The City will track and document permanent stormwater management facilities in the City's BMP spreadsheet maintained by the City Engineering Division.

An updated electronic database/spreadsheet of all known operator-owned and privately-owned stormwater management facilities that discharge into the MS4 is provided under Attachment 1 to this Annual Report.

#### Additional Reporting Requirements:

The operator shall maintain an updated electronic database of all known operator-owned and privately-owned stormwater management facilities that discharge into the MS4. The operator shall submit an electronic database or spreadsheet of all stormwater management facilities brought online during each reporting year with the appropriate annual report.

An updated electronic database/spreadsheet of all known operator-owned and privately-owned stormwater management facilities that discharge into the MS4 is provided under Attachment 1 to this Annual Report.

The operator shall annually track and report the total number of inspections completed and, when applicable, the number of enforcement actions taken to ensure long-term maintenance.

During this reporting period, there were a total of 28 private stormwater management facility inspections performed and 41 City owned/operated stormwater facility inspections performed. Based on these inspections, 33 sites were found to be deficient and follow up inspections were scheduled.



#### VI. Pollution Prevention/Good Housekeeping for Municipal Operations

BMP 6.1. Standard Operating Procedures: The City will develop and implement standard operating procedures and pollution prevention methods for its daily operational activities.

Standard Operating Procedures (SOPs) were developed and continue to be implemented. The Pollution Prevention/Good Housekeeping for Municipal Operations - Standard Operating Procedures 2013-2018 were developed during Permit Year 2 and were attached to the Year 2 report. This document outlines the SOPs and the roles and responsibilities of the City Divisions involved.

BMP 6.2. Stormwater Pollution Prevention Plans: The City will develop a stormwater pollution prevention plan (SWPPP) for the equipment and maintenance facility located at Jim Barnett Park.

The Jim Barnett Park equipment and maintenance facility continues to maintain the SWPPP dated June 30, 2017 and is included in this report as Attachment 4. This SWPPP is temporary in nature – the renovation of the existing building was postponed due to funding issues. Until new construction occurs, this temporary SWPPP will be used for any inspections.

BMP 6.3. Nutrient Management Plans: NMPs will be developed by a certified turf and landscape nutrient management planner in accordance with § 10.1-104.2 of the Code of Virginia. NMPs must be renewed every three years. Copies of the nutrient management plans will be incorporated by reference into the MS4 Program Plan upon approval.

In accordance with Section II.B.6.c(1)(b) and Table 1 of the City's MS4 Permit, NMPs for all applicable sites, as identified in the City's NMP Facility Evaluation, were developed during the Year 3 reporting period. These plans cover a total of 19.39 acres.

BMP 6.4. Pollution Prevention Inspections: The City will conduct an annual pollution prevention inspection at the equipment and maintenance facility located at Jim Barnett Park.

This BMP was implemented in conjunction with the development and implementation of the facility's SWPPP on June 30, 2017. Two inspections had been conducted at the time of this report.



BMP 6.5. Staff Training: The City will conduct staff training in accordance with the training schedule and training modules included in the City of Winchester Stormwater Training Plan, June 2014 edition. The City will ensure necessary certifications identified in the training plan are maintained.

The City continued implementation of the City of Winchester Stormwater Training Plan dated June 2014. The following is a list of training events held during this reporting period:

- Training Module #1 Recognition and Reporting of Illicit Discharges
  - o March 12, 2017 15 attendees
  - March 28, 2017 25 attendees
- Training Module #2 Pollution Prevention for Road, Street and Parking Maintenance
  - o March 12, 2017 15 attendees
  - o March 28, 2017 25 attendees
- Training Module #3 Pollution Prevention for Fleet and Public Works Facilities
  - March 12, 2017 15 attendees
  - March 28, 2017 25 attendees
- Training Module #4 Minimizing Stormwater Pollution Practices for Parks and Rec Facilities
  - o March 12, 2017 15 attendees
  - March 28, 2017 25 attendees

BMP 6.6. Street Sweeping: The City will continue its street sweeping program and track the amount of litter and debris removed.

During this reporting period, the City swept approximately 2,999 lane miles of roadways within the City.

BMP 6.7. VPDES Industrial Stormwater Permit Compliance Coordination: As part of the MS4 Program, the City will confirm that the City Yards maintains a current Stormwater Pollution Prevention Plan (SWPPP) as required under the Virginia General Permit for Discharge of Stormwater from Industrial Activities.

The City Yards facility continues to maintain a current Stormwater Pollution Prevention Plan (SWPPP) dated June, 2014. The City also continued coverage under the Virginia General Permit for Discharge of Stormwater from Industrial Activities for this facility as evidenced by the letter from DEQ that is provided here in Attachment 3.

#### Additional Reporting Requirements:

Provide a summary report on the development and implementation of the daily operational procedures.

The City developed written Standard Operating Procedures (SOPs) for Daily Good Housekeeping and Pollution Prevention during Permit Year 2. The Pollution Prevention/Good Housekeeping for Municipal Operations - Standard Operating Procedures 2013-2018 were attached to the Year 2 report.



Provide a summary report on the development and implementation of the required SWPPPs.

In accordance with Section II.B.6.b(3) and Table 1 of the City's MS4 Permit, a SWPPP for the equipment and maintenance facility located at Jim Barnett Park was developed and implemented on June 30, 2017. This was included in Annual Report Year 4 as Attachment 4.

Provide a summary report on the development and implementation of the turf and landscape nutrient management plans that includes:

- (a) The total acreage of lands where turf and landscape nutrient management plans are required; and
- (b) The acreage of lands upon which turf and landscape nutrient management plans have been implemented.

In accordance with Section II.B.6.c(1)(b) and Table 1 of the City's MS4 Permit, NMPs for all applicable sites, as identified in the City's NMP Facility Evaluation, were developed by a certified turf and landscape nutrient management planner as outlined under BMP 6.3 above.

Provide a summary report on the required training, including a list of training events, the training date, the number of employees attending training and the objective of the training.

The City continued implementation of the City of Winchester Stormwater Training Plan dated June 2014. The following is a list of training events held during this reporting period:

- Training Module #1 Recognition and Reporting of Illicit Discharges
  - March 12, 2017 15 attendees
  - March 28, 2017 25 attendees
- Training Module #2 Pollution Prevention for Road, Street and Parking Maintenance
  - o March 12, 2017 15 attendees
  - March 28, 2017 25 attendees
- Training Module #3 Pollution Prevention for Fleet and Public Works Facilities
  - o March 12, 2017 15 attendees
  - March 28, 2017 25 attendees
- Training Module #4 Minimizing Stormwater Pollution Practices for Parks and Rec Facilities
  - o March 12, 2017 15 attendees
  - o March 28, 2017 25 attendees

#### 3.0 Results of Collected Data

Results of information collected and analyzed, including monitoring data, if any, during the reporting period.

Under the Abrams Creek and Lower Opequon Creek Combined Sediment and Bacteria TMDL Action Plan, the City was required to develop a water quality monitoring program for POC reductions assessment, which was attached to the Year 3 report. That plan was implemented on September 15, 2016. One sample was taken from each of the four sampling sites during this reporting period and the result is summarized below.



Table 5. Water Quality Monitoring Results

Sample Location	Sample Date	Total E.coli Count (CFU/100ml)	Total Suspended Solids (mg/L)
OT-11	6/5/17	0	64.3
OT-34	6/19/17	TNTC*	584.0
OT-42	6/19/17	380	53.6
OT-54	6/19/17	240	5.8

<sup>\*</sup>Too numerous to count using 5ml sample size. Sample size will be reduced for next sample test.

Other data collected was the evaluation of the City's MS4 Public Education and Outreach Program for the Year 5 report. A small survey with 5 questions was temporarily added to the City's stormwater website, and these questions were intended to assess the knowledge of the residents about the City's stormwater program. To ensure the people taking the quiz were City of Winchester residents, a mandatory section for adding their zip-code was implemented. The results can be found in Attachment 2.

#### 4.0 Future Stormwater Activities

A summary of the stormwater activities the operator plans to undertake during the next reporting cycle.

During the next reporting period, the City plans to continue implementation of the 40 BMPs contained in its current 2014-2018 MS4 Program Plan. Additionally, in order to comply with the MS4 General Permit's compliance schedule (Table 1) and other permit requirements, the City plans to undertake the following activities as well:

- MS4 Permit reapplication.
- Reapplication for the City Yards Facility General Permit for discharge of stormwater as industrial activity.
- Submit a GIS compatible shapefile of MS4 Map.
- Updated Chesapeake Bay TMDL Action Plan

#### 5.0 Changes in BMPs and Measurable Goals

A change in any identified best management practices or measurable goals for any of the minimum control measures including steps to be taken to address any deficiencies.

#### 5.1. Changes in BMPs/Program Elements

The City does not plan to make any changes to the BMPs/Program Elements listed in its 2014-2018 MS4 Program Plan at this time.

#### 5.2. Changes in Measurable Goals

The City does not plan to make any changes to the measureable goals associated with the BMPs/Program Elements listed in its 2014-2018 MS4 Program Plan at this time.



#### 6.0 Government Reliance for Permit Obligations

Notice that the operator is relying on another government entity to satisfy some of the State permit obligations (if applicable).

At this time, the City is not relying on any other government entity to satisfy any direct permit obligations.

#### 7.0 Section II C Program Status

The approval status of any programs pursuant to Section II C (if appropriate), or the progress towards achieving full approval of these programs.

The City does operate a local Erosion and Sediment Control Program consistent with the requirements contained in Section 62.1-44-15:54 of the State Water Control Law and Section 9VAC25-840 of the Virginia Administrative Code. The City also operates a local Virginia Stormwater Management Program consistent with the requirements contained in Section 62.1-44.15:27 of the State Water Control Law and Section 9VAC25-870 of the Virginia Administrative Code. Both of these City programs have been found to be in compliance with their respective regulatory requirements by the appropriate oversight agencies in Virginia.

#### 8.0 General Permit Section I Information

Information required for any applicable TMDL special condition contained in Section I.

The Abrams Creek and Lower Opequon Creek Combined Sediment and Bacteria TMDL Action Plan and the Chesapeake Bay TMDL Action Plan were both approved during the 2<sup>nd</sup> Annual reporting period and can be found on the City's website at <a href="http://www.winchesterva.gov/engineering/stormwater">http://www.winchesterva.gov/engineering/stormwater</a>.



# Attachment 1. Electronic Database/Spreadsheet of City-Owned and Privately-Owned Stormwater Management Facilities

Project	Owner Name	t/o	8MP ID Type ID	8MP Address	Acres Treated ervious Acres Tre		Online Date	HU Code ID Public/Private	MA Signed by Owner	Last Inspection Type of Inspection
804 Amherst Street	Iris, LC		0001 Pervious Pavers (Concrete)	804 Amherst Street	0.08	TRUE	30-Apr-10	17 Private	28-Apr-10	01-Jun-14 Inspector
804 Amherst Street	Irls, LC		0002 Grass Swale	804 Amherst Street	0.04	TRUE	30-Apr-10	17 Private	28-Apr-10	27-Jun-14 Inspector
	812 Amherst Street Condo									
812 & 830 Amherst Street	Association, Inc.		0115 Pervious Pavers (Concrete)	812 Amherst Street	0.14	TRUE	31-Aug-10	17 Private	31-Aug-10	27-Jun-14 Inspector
	Amherst Street Condo Association,					11142	or rug 20	27 Private	31-Aug-10	27-Jun-14 hispector
812 & 830 Amherst Street	Inc.		0123 Pervious Pavers (Concrete)	830 Amherst Street	0.24	TRUE	25 Aug 40	42.04		
Aiken Strip Mall	Alkens Group		0003 Detention Basin (Dry Pond)	2820-2836 Valley Avenue			31-Aug-10		31-Aug-10	27-Jun-14 Inspector
	Timetin Group	_	ooos Detention besitt (DI y Folia)		6.00	TRUE	30-Jun-05	16 Private		09-Jul-14 Inspector
Aliston Mews	Nell J. & Bobble J. Keefe			500-552 Allston Circle, 500-520 Mews						
Wilstoll Mem?	Nell J. & Bodble J. Keere		0005 Detention Basin (Dry Pond)	Lane	0.75	TRUE	30-Jun-05	16 Private		28-May-14 Inspector
49.4				500-552 Allston Circle, 500-520 Mews						
Aliston Mews	Nell J. & Bobble J. Keefe		0006 Detention Basin (Dry Pond)	Lane	0.75	TRUE	30-Jun-05	16 Private		28-May-14 Inspector
American Woodmark	American Woodmark		0007 Detention Basin (Dry Pond)	3102 Shawnee Drive	2.60	TRUE	30-Jun-05	16 Private	20-Sep-10	28-May-14 Inspector
Amherst St. CVS	Summit Community Bank		0008 Detention Basin (Dry Pond)	1721 Amherst Street	43.50	TRUE	28-Jul-08		07-Oct-05	07-Jul-14 Inspector
Bank of Clarke County	Bank of Clarke County		0010 Hydrodynamic Separator	2555 South Pleasant Valley Road	1.12	TRUE	25-Mar-13		31-Oct-09	11-Jun-14 Inspector
Berryville Ave. CVS	SCP 2006-C23-208-LLC	CVS Corporation	0012 Underground Detention	836-906 Berryville Avenue	1.10	TRUE	30-Jun-07		31-000	
BSW investments	BSW Investments, LLC		0013 Bioretention Basin	2264 Papermill Road	0.16	FALSE	30-3011-07		24 4 20	18-Sep-14 City
Burke Center	Pine-Burke Realty, LLC		0039 Detention Basin (Dry Pond)	2-40 Weems Lane	The second secon		20 1 05	17 Private	31-Aug-09	
Byrd Office Building	Byrd Enterprises, LLC				7.10	TRUE	30-Jun-05			07-Jul-14 Inspector
Byrd Office Building			0014 Detention Basin (Dry Pond)	2909-2919 Valley Avenue	2.06	TRUE	27-Feb-08			12-Jun-17 City
·	Byrd Enterprises, LLC		0014 Detention Basin (Dry Pond)	2909-2919 Valley Avenue	2.06	TRUE	27-Feb-08	16 Private		10-Jun-14 Inspector
Castleman Subdivision	City of Winchester		0016 Underground Detention	Mosby Street ROW	6.39	TRUE	27-Nov-07	17 Public		30-Apr-18 City
Cedar Creek Grade Office Complex	Dinapoli Properties, LLC		0017 Filterra	905 Cedar Creek Grade	0.36	TRUE	27-Feb-07	17 Private	19-Feb-07	03-Jun-14 Inspector
Cedar Creek Grade Office Complex	Oinapoli Properties, LLC		0019 Filterra	905 Cedar Creek Grade	0.48	TRUE	27-Feb-07	17 Private	19-Feb-07	03-Jun-14 Inspector
Cedar Creek Grade Office Complex	Dinapoli Properties, LLC		0020 Filterra	905 Cedar Creek Grade	0.61	TRUE	27-Feb-07	17 Private	19-Feb-07	03-Jun-14 Inspector
Cedar Creek Grade Office Complex	Treybul Co., LLC		0018 Filterra	817 Cedar Creek Grade	0.48	TRUE	27-Feb-07	17 Private	19-Feb-07	
Cedar Creek Grade Office Complex	Treybul Co., LLC		0021 Filterra	817 Cedar Creek Grade	0.78	TRUE	27-Feb-07			07-Jul-14 Inspector
Centre at Winchester - Home Depot,			<del>-</del>	DE. SEES. MICH GIGGE	V./ 0	INUE	27-reb-0/	17 Private	19-Feb-07	07-Jul-14 Inspector
Target	P D K Winchester LC	Dierman Realty Group	0022 Detention Basin (Dry Pond)	2220 Logge Poulsused	0.50					
City National Bank	City National Bank	Pictimen really group		2320 Legge Boulevard	8.50	TRUE	30-Jun-15			20-Jun-14 Inspector
City National Bank			0183 Underground Detention	1830 Valley Avenue	0.29	TRUE	20-Aug-13	17 Private	07-Nov-12	19-Jun-14 Inspector
•	City National Bank		0184 Filterra	1830 Valley Avenue	0.21	TRUE	20-Aug-13	17 Private	07-Nov-12	19-Jun-14 Inspector
City National Bank	City National Bank		0185 Filterra	1830 Valley Avenue	0.29	TRUE	20-Aug-13	17 Private	07-Nov-12	19-Jun-14 Inspector
Commercial Street Used Cars	Major Properties, LLC		0024 Underground Detention	154 Commercial Street	0.70	FALSE		17 Private		
Commonwealth Plaza - Phase 3	GWG Profit Sharing, TST Properties		0160 Filterra	2001-2027 South Loudoun Street	0.17	FALSE		17 Private	07-Feb-11	
Cottages at Willow Lawn	City of Winchester		0025 Detention Basin (Dry Pond)	1826 Tilghman Lane	40.60	TRUE	30-Jun-05	17 Public	07-FEB-11	20.4 - 40.00
Craun Property	Timothy Mellon		0026 Filterra	220 East Pall Mail Street	0.00		30-700-05			09-Apr-18 City
Dermatology Associates	Dermatology Properties, LC		0027 Detention Basin (Dry Pond)	1514 Amherst Street		FALSE		17 Private	28-Oct-08	
Dermatology Associates	Dermatology Properties, LC				5.20	TRUE	30-Jun-05	17 Private		12-Jun-17 City
Drissi Plaza	Drissi Properties, LLC		0027 Detention Basin (Dry Pond)	1514 Amherst Street	5.20	TRUE	30-Jun-05	17 Private		20-May-14 Inspector
			0028 Underground Detention	29-35 East Jubal Early Drive	2.10	TRUE	30-Jun-05	17 Private		07-Jul-14 Inspector
Elite Settlements	D & E Lee LLC		0032 Permeable Pavement (Concrete, Asphalt)	802 South Braddock Street	0.10	FALSE		17 Private	09-Nov-07	
FCPS Admin Annex	Frederick County Public Schools		0033 Bioretention Basin	1415 Amherst Street	0.10	TRUE	01-Nov-11	17 Private	07-Apr-08	17-Jun-14 Inspector
FCPS Admin Annex	Frederick County Public Schools		0034 General Infiltration Practice	1415 Amherst Street	0.10	TRUE	01-Nov-11	17 Private	07-Apr-08	17-Jun-14 Inspector
FCPS Admin Building Addition	Frederick County Public Schools		0161 Filterra	1415 Amherst Street	0.20	TRUE	01-Nov-11	17 Private	07-Apr-08	17-Jun-14 Inspector
Fern Adams Building	Fern Adams Building, LLC		0038 Underground Detention	303 South Loudoun Street	0.47	TRUE	30-Jun-05	17 Private	07-Арг-08	
Five Star Auto Spa	One Hanul LLC		0162 Filterra	555-565 Adams Drive	0.11	FALSE	30-1011-03			20-Jun-14 Inspector
Frederick Douglas School	City of Winchester		0040 Detention Basin (Dry Pond)	100 West Tevis Street	18.00			17 Private	03-Feb-11	
Friendship Fire Hall	City of Winchester		0041 Detention Basin (Dry Pond)		78.90	TRUE	30-Jun-05	16 Public		09-Apr-18 City
richasiip rite risii	City of Whichester		0041 Detention Basin (Dry Pond)	627 North Pleasant Valley Road	50.50	TRUE	30-Jun-05	17 Public		31-Jan-18 City
Fo Calling Del Food How (Share N.C.)	W. M. Am. A. M. A.									
Ft. Collier Rd. Food Lion (Shop N Save)	Kentland Foundation Inc.		0029 Detention Basin (Dry Pond)	699-723 Fort Collier Road	20.20	TRUE	30-Jun-05	17 Private		01-Jul-14 Inspector
5&M Music	Carolin M. Schebish		0042 Bioretention Filter	1817 South Loudoun Street	0.15	FALSE		17 Private	10-Jul-09	
Beorge Washington Autopark	Winchester Parking Authority		0015 Filterra	131 North Kent Street	0.20	TRUE	11-Apr-08	17 Private	04-Apr-08	30-May-14 Inspector
larvest Orive Medical	Valley Proteins, Inc.		0046 Filterra	501-519 Harvest Drive	0.53	TRUE	11-Dec-12	17 Private	25-Sep-12	07-Jul-14 Inspector
larvest Drive Medical	Valley Proteins, Inc.		0047 Filterra	501-519 Harvest Drive	0.51	TRUE	11-Dec-12	17 Private	25-Sep-12	
larvest Drive Medical	Valley Proteins, Inc.		0048 Filterra	501-519 Harvest Drive	0.17	TRUE				07-Jul-14 Inspector
larvest Drive Medical	Valley Proteins, Inc.		0049 Filterra	501-519 Harvest Drive	0.16		11-Dec-12	17 Private	25-Sep-12	07-Jul-14 Inspector
larvest Drive Medical	Valley Proteins, Inc.		0050 Filterra			TRUE	11-Dec-12	17 Private	25-Sep-12	07-Jul-14 Inspector
larvest Drive Medical	Valley Proteins, Inc.	1		501-519 Harvest Drive	0.14	TRUE	11-Dec-12	17 Private	25-Sep-12	07-Jul-14 Inspector
larvest Drive Medical			0051 Filterra	501-519 Harvest Orive	0.49	TRUE	11-Dec-12	17 Private	25-Sep-12	07-Jul-14 Inspector
	Valley Proteins, Inc.		OO52 Filterra	501-519 Harvest Orive	0.78	TRUE	11-Dec-12	17 Private	25-Sep-12	07-Jul-14 Inspector
tenkel-Harris	Henkel-Harris III, LLC		0054 Detention Basin (Dry Pond)	2983 South Pleasant Valley Road	30.10	TRUE	30-Jun-05	16 Private		20-Jun-14 Inspector
ligh End Automotive	SMD Properties, LLC		0055 Detention Basin (Dry Pond)	2970 Valley Avenue	0.55	TRUE	19-Apr-07	16 Private	05-Mar-07	20-Jun-14 Inspector
ligh End Automotive	SMD Properties, LLC		0056 Bioretention Filter	2970 Valley Avenue	0.55	TRUE	19-Apr-07	16 Private	05-Mar-07	20-Jun-14 Inspector
liiton Garden inn	Lucky 7 LP-LLP		0057 Underground Detention	120 Wingate Drive	5.50	TRUE	04-Dec-06	17 Private	19-Jan-09	
	Neurosurgical Investment					INCE	04 DCC-00	T. LIIVALE	13-1911-03	09-Jul-14 Inspector
lirschberg Office Building	Properties		0058 General Infiltration Practice	1818 Amherst Street	1 10	70115	20	49 64 4		4.5
listory and Tourism Center	City of Winchester		0059 Bioretention Basin		1.10	TRUE	30-Jun-05	17 Private		19-Jun-14 Inspector
istory and Tourism Center	City of Winchester			1400 South Pleasant Valley Road	1.63	TRUE	27-Feb-08	17 Public		31-Jan-18 City
N Funkhouser		1	0060 Bioretention Basin	1400 South Pleasant Valley Road	1.77	TRUE	27-Feb-08	17 Public		31-Jan-18 City
	KVCLLC		0062 Detention Basin (Dry Pond)	2148-2150 South Loudoun Street	1.16	TRUE	01-Jan-08	17 Private	01-Nov-07	08-Jul-14 Inspector
N Funkhouser	KVC LLC		0063 Grass Swale	2148-2150 South Loudoun Street	0.56	TRUE	01-Jan-08	17 Private	01-Nov-07	08-Jul-14 Inspector
N Funkhouser	KVC LLC		0064 Grass Swale	2148-2150 South Loudoun Street	0.22	TRUE	01-Jan-08	17 Private	01-Nov-07	08-Jul-14 Inspector
N Funkhouser	KVC LLC		0065 Grass Swale	2148-2150 South Loudoun Street	1.53	TRUE	01-Jan-08	17 Private	01-Nov-07	08-Jul-14 Inspector
ope Orive Site Plan	Dave Holliday Rentals, LLC	-	0066 Detention Basin (Dry Pond)	321 Hope Drive	2.69	TRUE	12-Jul-11	16 Private		
lope Drive Subdivision	City of Winchester		0067 Detention Basin (Dry Pond)	230 Hope Drive	66.00				29-Oct-09	07-Oct-14 Inspector
lamic Society of Winchester	Islamic Society of Winchester		0068 Permeable Pavement (Concrete, Asphalt)			TRUE	30-Jun-05	17 Public		09-Apr-18 City
D Byrider	JSB Associates			601 Woodstock Lane	0.20	TRUE	01-Sep-10	17 Private	01-Nov-08	07-Jul-14 Inspector
enkins - Cooper			0104 Extended Detention Basin	1930 South Loudoun Street	1.41	TRUE	02-Apr-12	17 Private	10-Sep-10	03-Jun-14 Inspector
THE PARTY OF THE P	Jenkins Cooper, LLC		0069 Detention Basin (Dry Pond)	2944-2950 Valley Avenue	0.68	FALSE		16 Private		

John Handley Bowl John Handley Bowl	Winchester Public School Board										
ohn Handley Bowl			0071 Underground Detention	425 Handley Boulevard	4.83		TRUE	02-Feb-11	17 Private	14-May-09	07-Jun-17 City
	Winchester Public School Board		0071 Underground Detention	425 Handley Boulevard	4.83	1	TRUE	02-Feb-11	17 Private	14-May-09	28-Jun-13 Inspector
ohn Handley Parking Lot	Winchester Public School Board		0070 Underground Detention	338 Handley Boulevard	0.00		TRUE	30-Jan-07	17 Private		07-Jun-17 City
ohn Handley Parking Lot	Winchester Public School Board		0070 Underground Detention	338 Handley Boulevard	0.00		TRUE	30-Jan-07	17 Private		28-Jun-13 Inspector
hn Handley Tennis	Winchester Public School Board		0072 Underground Detention	338 Handley Boulevard	0.24		TRUE	02-Feb-11	17 Private	14-May-09	07-Jun-17 City
ohn Handley Tennis	Winchester Public School Board		0072 Underground Detention				TRUE				28-Jun-13 Inspector
				338 Handley Boulevard	0.24			02-Feb-11	17 Private	14-May-09	
ubal Early Plaza I - Lot 2	Randolph Craun		0073 Detention Basin (Dry Pond)	21-29 West Jubal Early Drive	4.22		TRUE	30-Jun-05	17 Private	-	14-Jul-14 Inspector
ubal Early Plaza II - Lot 9	Women's Center of Winchester		0074 Detention Basin (Dry Pond)	1820 West Plaza Drive	4.22		TRUE	30-Jun-05	17 Private		07-Jul-14 Inspector
SR LLC	The Townes at Kent HOA		0075 Sand Filter	210 East Clifford Street	0.12		TRUE	29-Jan-07	17 Private		19-Jun-17 Inspector
imestone Court	Limestone Court HOA	Joyce Mull	0135 Detention Basin (Dry Pond)	2680 Limestone Court	18.30		TRUE	30-Jun-05	17 Private		18-Sep-14 City
imestone Court	White Properties of Winchester, In	c	0077 Detention Basin (Dry Pond)	2610 Hockman Avenue	0.00		TRUE	30-Jun-05	17 Private		18-Sep-14 City
inden Drive Office Park	La Rose, LLC		0078 Detention Basin (Dry Pond)	136 Linden Drive	2.13		TRUE	14-Mar-11	17 Private	-	14-May-18 City
						-					
indan Heights Animal Hospital	Schmitt Properties		0079 Enhanced Extended Detention Basin	274 Linden Drive	1.34		TRUE	14-Mar-11	17 Private	03-Oct-07	10-Jun-14 Inspector
	Linden Westside Condominiums										
inden Medical Center	Assoc.	Cambridge Companies	0080 Detention Basin (Dry Pond)	172 Linden Drive	4.40		TRUE	12-Jun-07	17 Private		05-Jun-18 City
	Linden Westside Condominiums				1						
Inden Medical Center	Assoc.	Cambridge Companies	0080 Detention Basin (Dry Pond)	172 Linden Drive	4.40		TRUE	12-Jun-07	17 Private		12-Jun-12 inspector
owes	Lowes Home Center Inc		0081 Detention Basin (Dry Pond)	2200 South Pleasant Valley Road	13.50		TRUE	30-Jun-05	17 Private		16-May-18 City
owes									The second secon		
	Lowes Home Center Inc		0081 Detention Basin (Dry Pond)	2200 South Pleasant Valley Road	13.50		TRUE	30-Jun-05	17 Private		01-Jul-13 Inspector
owes	Lowes Home Center Inc		0082 Detention Basin (Dry Pond)	2210 Legge Boulevard	19.70		TRUE	30-Jun-05	17 Private		24-May-18 City
owes	Lowes Home Center Inc		0082 Detention Basin (Dry Pond)	2210 Legge Boulevard	19.70		TRUE	30-Jun-05	17 Private		16-Sep-13 Inspector
fadison Center	NC Development LLC		0083 Detention Basin (Dry Pond)	320 Hope Drive	0.78		TRUE	07-Jan-08	17 Private	07-Oct-09	08-Sep-14 Inspector
ladison Center	NC Development LLC		0084 Bioretention Filter	320 Hope Drive	0.20	- 31	TRUE	07-Jan-08	17 Private	07-Oct-09	08-Sep-14 Inspector
Madison Center	NC Development LLC		0085 Bioretention Filter	320 Hope Drive	0.20		TRUE	07-Jan-08	17 Private	07-Oct-09	08-Sep-14 Inspector
Madison Center	NC Development LLC		0086 Bioretention Filter	320 Hope Drive	0.20		TRUE	07-Jan-08	17 Private	07-Oct-09	08-Sep-14 Inspector
	NC Development LLC	1									
Aadison Center		-	0087 Bioretention Filter	320 Hope Drive	0.20		TRUE	07-Jan-08	17 Private	07-Oct-09	08-Sep-14 Inspector
Aadison Center	NC Development LLC		0088 Underground Detention	320 Hope Drive	1.80		TRUE	07-Jan-08	17 Private	07-Oct-09	08-Sep-14 Inspector
Aadison Place I	Madison Winds, LLC		0089 Detention Basin (Dry Pond)	3018 Shawnee Drive	5.53		TRUE	20-Dec-05	16 Private		09-Jul-14 Inspector
Aajor Properties	Major Properties, LLC		0109 Pervious Pavers (Concrete)	150 Commercial Street	0.72		TRUE	29-May-15	17 Private	30-Jun-14	18-May-18 City
falloy Toyota	Malloy Properties V, LLC	Malloy Toyota	0269 Detention Basin (Dry Pond)	400 Weems Lane	0.20	0.20	TRUE		17 Private	05-Dec-16	16-May-18 City
lcDonald's - Berryville Ave.	McDonald's Restaurant		0090 Underground Detention	1124 Berryville Avenue	0.60		TRUE	30-Jun-05	17 Private		23-May-18 City
cDonald's - Berryville Ave.	McDonald's Restaurant				The second secon						
			0090 Underground Detention	1124 Berryville Avenue	0.60		TRUE	30-Jun-05	17 Private		20-May-14 inspector
AcKinley Office Building	Michael J. Bermel		0091 Detention Basin (Dry Pond)	700 Fort Collier Road	3.20		TRUE	30-Jun-05	17 Private		18-Sep-14 City
Aeadow Branch Avenue	City of Winchester		0246 Filterra	Meadow Branch Avenue ROW	0.16		TRUE	01-Jul-17	17 Public		26-Apr-18 City
Aeadow Branch Avenue	City of Winchester		0247 Filterra	Meadow Branch Avenue ROW	0.25		TRUE	01-Jul-17	17 Public	1	26-Apr-18 City
feadow Branch Avenue	City of Winchester		0248 Filterra	Meadow Branch Avenue ROW	0.07		TRUE	01-Jul-17	17 Public		26-Apr-18 City
Meadow Branch Avenue	City of Winchester		0249 Filterra	Meadow Branch Avenue ROW	0.12		TRUE	01-Jul-17	17 Public		26-Apr-18 City
Meadow Branch Avenue	City of Winchester		0250 Filterra	Meadow Branch Avenue ROW	0.23		TRUE	01-Jul-17	17 Public		26-Apr-18 City
Meadow Branch Avenue	City of Winchester		0251 Filterra	Meadow Branch Avenue ROW	0.30		TRUE	01-Jul-17	17 Public		26-Apr-18 City
Meadow Branch Avenue	City of Winchester		0252 Filterra	Meadow Branch Avenue ROW	0.18		TRUE	01-Jul-17	17 Public		26-Apr-18 City
Meadow Branch Avenue	City of Winchester		0253 Filterra	Meadow Branch Avenue ROW	0.33		TRUE	01-jul-17	17 Public		26-Apr-18 City
Meadow Branch Avenue	City of Winchester		0254 Filterra	Meadow Branch Avenue ROW	0.29		TRUE	01-Jul-17	17 Public		26-Apr-18 City
Meadow Branch Avenue	City of Winchester		0255 Filterra	Meadow Branch Avenue ROW	0.20		TRUE	01-Jul-17	17 Public		26-Apr-18 City
Meadow Branch Avenue	City of Winchester		0256 Filterra	Meadow Branch Avenue ROW	0.16		TRUE	01-Jul-17	17 Public		26-Apr-18 City
Aeadow Branch Avenue											
	City of Winchester		0257 Filterra	Meadow Branch Avenue ROW	0.47		TRUE	01-Jul-17	17 Public		26-Apr-18 City
Meadow Branch Avenue	City of Winchester		0258 Filterra	Meadow Branch Avenue ROW	0.55		TRUE	01-Jul-17	17 Public		26-Apr-18 City
Aeadow Branch Avenue	City of Winchester		0259 Filterra	Meadow Branch Avenue ROW	0.36		TRUE	01-Jul-17	17 Public		26-Apr-18 City
leadow Branch Avenue	City of Winchester		0260 Filterra	Meadow Branch Avenue ROW	0.47		TRUE	01-Jui-17	17 Public		26-Apr-18 City
Meadow Branch Avenue	City of Winchester		0261 Filterra	Meadow Branch Avenue ROW	0.20		TRUE	01-Jul-17	17 Public		26-Apr-18 City
Meadow Branch Avenue	City of Winchester		O262 Filterra	Meadow Branch Avenue ROW	0.17		TRUE	01-Jul-17	17 Public		26-Apr-18 City
Meadow Branch Avenue	City of Winchester		0263 Filterra	Meadow Branch Avenue ROW	0.26		TRUE	01-Jul-17	17 Public		26-Apr-18 City
leadow Branch Avenue	City of Winchester								17 Public		26-Apr-18 City
			0264 Filterra	Meadow Branch Avenue ROW	0.20	-	TRUE	01-Jul-17			
Meadow Branch Avenue	City of Winchester		0265 Filterra	Meadow Branch Avenue ROW	0.43		TRUE	01-Jul-17	17 Public		26-Apr-18 City
leadow Branch Avenue	City of Winchester		0266 Filterra	Meadow Branch Avenue ROW	0.34		TRUE	01-Jul-17	17 Public		26-Apr-18 City
Meadow Branch Avenue	City of Winchester		0267 Filterra	Meadow Branch Avenue ROW	0.18		TRUE	01-Jul-17	17 Public		26-Apr-18 City
Meadow Branch Avenue	City of Winchester		0268 Filterra	Meadow Branch Avenue ROW	0.22		TRUE	01-Jul-17	17 Public		26-Apr-18 City
Meddent Center	Meddent LLC		0092 Bioretention Basin	1002 Amherst Street	0.40		FALSE		17 Private	13-Aug-07	
Medical Circle Imaging	Neurological Properties, LLC		0165 Filterra	125 Medical Circle	0.00		TRUE	14-Sep-05	17 Private	02-Dec-10	01-Jun-17 City
					ALCOHOLD STATE						20-May-14 Inspector
Medical Circle Imaging	Neurological Properties, LLC		0165 Filterra	125 Medical Circle	0.00		TRUE	14-Sep-05	17 Private	02-Dec-10	
fedical Circle Imaging	Neurological Properties, LLC		0166 Filterra	125 Medical Circle	0.00	-	TRUE	14-Sep-05	17 Private	02-Dec-10	01-Jun-17 City
fedical Circle Imaging	Neurological Properties, LLC		0166 Filterra	125 Medical Circle	0.00		TRUE	14-Sep-05	17 Private	02-Dec-10	20-May-14 Inspector
ledical Circle Imaging	Neurological Properties, LLC		0167 Underground Detention	125 Medical Circle	0.00	1	TRUE	14-Sep-05	17 Private	02-Dec-10	23-May-18 City
fedical Circle Imaging	Neurological Properties, LLC		0167 Underground Detention	125 Medical Circle	0.00	- 1	TRUE	14-Sep-05	17 Private	02-Dec-10	20-May-14 Inspector
forlyn Hills Subdivision	City of Winchester		0093 Constructed Wetlands	1511 Stone House Court	0.00		TRUE	30-Jun-05	17 Public		20-Feb-18 City
						1.00		30-3411-03	17 Private	04-Dec-15	20,000
Aurphy Oil	Murphy Oil USA, Inc.		0245 Hydrodynamic Separator	2302 South Pleasant Valley Road	1.58	1.08	FALSE	40.1. 47			16 May 19 Cit.
lew John Kerr Elementary School	Winchester Public School Board		0232 Bioretention Basin	427 Meadowbranch Avenue	1 19	0.80	TRUE	12-Jan-17	17 Private	06-Nov-14	16-May-18 City
lew John Kerr Elementary School	Winchester Public School Board		0233 Bioretention Basin	427 Meadowbranch Avenue	1.24	0.55	TRUE	12-Jan-17	17 Private	05-Nov-14	16-May-18 City
ew John Kerr Elementary School	Winchester Public School Board		0234 Bioretention Basin	427 Meadowbranch Avenue	4.42	2.10	TRUE	12-Jan-17	17 Private	06-Nov-14	16-May-18 City
lambeide Chatian	Pari Plaza LLC		0139 General Infiltration Practice	823 North Loudoun Street	1.60		TRUE	30-Jun-05	18 Private		28-May-14 Inspector
IOI MISINE STRUCTI			0168 Bioretention Filter	1600 Amherst Street	4.57		TRUE	04-Aug-11	17 Private	16-Jun-11	20-Jun-17 City
	Omps Fuperal Home			AUGO MINISTER SUI CUL	7.3/		INVE	UT DUE AT	T. 1114616	20.14H.44	>=== ===============================
Jorthside Station Omps Pet Crematory	Omps Funeral Home						TRUE	04 444 14	17 Ochonea	16 lun 11	20-May-14 increases
	Omps Funeral Home Omps Funeral Home City of Winchester		0168 Bioretention Filter 0094 Detention Basin (Dry Pond)	1600 Amherst Street 282 Green Street	4.57 6.40		TRUE TRUE	04-Aug-11 30-Jun-05	17 Private 18 Public	16-Jun-11	20-May-14 Inspector 09-Apr-18 City

Project	Owner Name	c/o	BMP ID	Type ID	BMP Address	Acres Treated ervi	ous Acres Tre	Constructed?	Online Date	HU Code ID   Public/Private	MA Signed by Owner	Last inspection	Type of inspection
Dur Health - Phase II	North Cameron Properties, LLC		0095 Pe	rvious Pavers (Concrete)	401 North Cameron Street	0.08		TRUE	28-May-10	17 Private	31-Mar-10	03-Jul-13	Inspector
onera	Glaize Developments		0096 FI		2605 South Pleasant Valley Road	0.12		TRUE	18-Jun-07	16 Private	02-Apr-07	11-Jun-14	
Panera	Glaize Developments		0097 Fil		2605 South Pleasant Valley Road	0.51		TRUE	18-Jun-07	16 Private	02-Apr-07	11-Jun-14	
anera	Glaize Developments		0098 Fil			0.34		TRUE	18-Jun-07		02-Apr-07		
					2605 South Pleasant Valley Road					16 Private		11-Jun-14	
ranera	Glaize Developments			tention Basin (Dry Pond)	2605 South Pleasant Valley Road	0.34		TRUE	18-Jun-07	16 Private	02-Apr-07	11-Jun-14	
ark Place	City of Winchester			tention Basin (Dry Pond)	2024 Harvest Drive	33.10		TRUE	30-Jun-05	17 Public		09-Apr-18	
atriot Collision Center	Patriot Collision Center LLC		0101 Ur	derground Detention	3064-3068 Shawnee Orive	1.20		TRUE	30-Jun-05	16 Private	1	31-May-17	City
atriot Collision Center	Patriot Collision Center LLC		0101 Ur	derground Detention	3064-3068 Shawnee Orive	1.20		TRUE	30-Jun-05	16 Private		20-May-14	Inspector
Ine-Burke Apartments - Phase I	Pine-Burke Realty, LLC		0103 Ur	derground Detention	2-14 Taft Avenue	0.47		TRUE	30-Jun-05	17 Private		07-Jul-14	Inspector
opeye's	Christina Tseng			derground Detention	2659 Valley Avenue	0.93		TRUE	12-Jun-07	16 Private		23-May-18	
opeye's	Christina Tseng			derground Detention	2659 Valley Avenue	0.93		TRUE	12-Jun-07	16 Private		01-Jun-12	
olling Hills Park	•					The second secon	-						
Oming mins rark	City of Winchester		0707 56	tention Basin (Dry Pond)	702 Kennedy Drive	4.50		TRUE	30-Jun-05	16 Public		09-Apr-18	City
tolling Hills Subdivision	Rolling Hills Estates HOA	Cambridge Companies	0108 De	tention Basin (Dry Pond)	612 Lake Drive	54.70		TRUE	24-Aug-12	16 Private		21-May-18	City
tolling Hills Subdivision	Rolling Hills Estates HOA	Cambridge Companies	0108 De	tention Basin (Dry Pond)	612 Lake Driva	54.70		TRUE	24-Aug-12	16 Private		20-Jun-13	Inspector
tubbermaid Building Expansion	Rubbermaid Commercial Products		0102 De	tention Basin (Dry Pond)	3124 Valley Avenue	0.00		TRUE	25-Jun-12	16 Private		04-Jun-18	City
lubbermaid Building Expansion	Rubbermaid Commercial Products		0102 De	tention Basin (Dry Pond)	3124 Valley Avenue	0.00		TRUE	25-Jun-12	16 Private		20-Jun-14	inspector
Rubbermaid Storage Area	Rubbermaid Commercial Products		0169 Gr	ass Swale	3124 Valley Avenue	0.49		TRUE	12-Jul-13	16 Private	16-Dec-10	04-Jun-18	City
Rubbermaid Storage Area	Rubbermaid Commercial Products		0169 Gr	ass Swale	3124 Valley Avanue	0.49		TRUE	12-Jul-13	16 Private	16-Dec-10	20-jun-14	Inspector
Rubbermald Storage Area	Rubbermaid Commercial Products		0170 Gr	ass Swale	3124 Valley Avenue	0.27		TRUE	12-Jul-13	16 Private	16-Dec-10	04-Jun-18	City
Rubbermaid Storage Area	Rubbermaid Commercial Products		0170 64	ass Swale	3124 Valley Avenue	0.27		TRUE	12-Jul-13	16 Private	16-Dec-10	20.lun-14	Inspector
iaturn of Winchester	Andrew Commercial Freducts		0043		ATT ANIEL VACIOR			FALSE	15-JHLT3	Private	10-061-10	20-7411-14	aproced!
	m14.4.10					0.00							
iturn of Winchester	O'Malley LLC			tention Basin (Dry Pond)	3003-3019 Valley Avenue	3.80		TRUE	30-Jun-05	16 Private		06-Jun-17	
iturn of Winchester	O'Malley LLC		0011 De	tention Basin (Dry Pond)	3003-3019 Valley Avenue	3.80		TRUE	30-Jun-05	16 Private		17-May-12	Inspector
Ima Medical	City of Winchester		0110 De	tention Basin (Dry Pond)	330 Amherst Street	7.50		TRUE	30-Jun-05	17 Public		18-Apr-18	City
nawnee Drive Business Park	LHZ Properties, LLC		0111 Ur	derground Detention	2900 Shawnee Drive	2.42		FALSE		16 Private	06-Jan-09		
nawnee Drive Business Park	LHZ Properties, LLC		0171 Bk	pretention Filter	2900 Shawnee Drive	2.42		FALSE		16 Private	06-Jan-09		
nawnee Fire Department	Shawnee Volunteer Fire Dept		0112 De	tention Basin (Dry Pond)	2210 Valor Drive	20.30		TRUE	30-Jun-05	17 Private		20-Jun-14	Inspector
orrel Court	Sorrel Court HOA	Coventry Group		tention Basin (Dry Pond)	2946 Sorrel Court	4.80		TRUE	30-Jun-05	16 Private		16-May-18	
orrel Court	Sorrel Court HOA	Coventry Group		tention Basin (Dry Pond)	2946 Sorrel Court	4.80		TRUE	30-Jun-05	16 Private		27-May-14	
outh Valley Plaza		Covenity Group				100			30-7011-05		10.0 07	27-IVIQY-14	шареског
	Dixie Distributing, LLC		0172 Fil		2725 South Pleasant Valley Road	0.12		FALSE		16 Private	10-Dec-07		
outh Valley Plaza	Dixie Distributing, LLC		0173 Fil		2725 South Pleasant Valley Road	0.46		FALSE		16 Private	10-Dec-07		
outh Valley Plaza	Dixie Distributing, LLC		0174 FII	terra	2725 South Pleasant Valley Road	0.20		FALSE		16 Private	10-Dec-07		
outh Valley Plaza	Dixie Distributing, LLC		0175 Fil	terra	2725 South Pleasant Valley Road	0.45		FALSE		16 Private	10-Dec-07		
outh Valley Plaza	Dixie Distributing, LLC		0176 FII	terra	2725 South Pleasant Valley Road	0.29		FALSE		16 Private	10-Dec-07		
outh Valley Plaza	Dixie Distributing, LLC	1	0177 Fil	terra	2725 South Pleasant Valley Road	0.39		FALSE		16 Private	10-Dec-07		
outh Valley Plaza	Dixie Distributing, LLC		0178 Fil		2725 South Pleasant Valley Road	0.38		FALSE		16 Private	10-Dec-07		
outh Valley Plaza	Dixie Distributing, LLC		0179 Fil		2725 South Pleasant Valley Road	0.56		FALSE		16 Private	10-Dec-07		
		-					0.50		04.1147			40 1040	eta.
outhside Church of Christ	Spanish United Pentecostal Church		0023 Ge	neral Infiltration Practice	3136 Papermill Road	0.75	0.59	TRUE	01-Nov-17	17 Private	26-Sep-13	16-May-18	City
panish United Pentecostal Church	Trustees Spanish United Pentecostal Church		0180 Pe	rvious Pavers (Concrete)	672 Virginia Avenue	0.23		TRUÉ	30-Apr-13	17 Private	22-Apr-11	12-Jun-17	City
panish United Pentecostal Church	Trustees		0180 Pe	rvious Pavers (Concrete)	672 Virginia Avenue	0.23		TRUE	30-Apr-13	17 Private	22-Apr-11	02-Jul-13	Inspector
pencer Square	Melco Inc			tention Basin (Dry Pond)	2856 Spencer Square	1.50		TRUE	30-Jun-05	16 Private			Inspector
oring Street	City of Winchester		0223 Fil		Spring Street ROW	0.05	0.05	TRUE	30-Sep-15	17 Public		25-Apr-18	
oring Street	City of Winchester												
<del></del>			0224 Fil		Spring Street ROW	0.21	0.21	TRUE	30-Sep-15	17 Public		25-Apr-18	
oring Street	City of Winchester		0225 Fil		Spring Street ROW	0.30	0.15	TRUE	30-Sep-15	17 Public		25-Apr-18	
ewart Street Properties	Kilmer & Associates, CPA, P.C.			pretention Filter	120 South Stewart Street	0.55		TRUE	24-Jun-15	17 Private	17-Mar-15	23-May-18	
onecrest Village	Stonecrest Village HOA	Coventry Group	0119 De	tention Basin (Dry Pond)	415 Russelcroft Road	87.00		TRUE	30-Jun-05	16 Private			Inspector
utzman Body Shop	JACC, LLC		0120 Ur	derground Detention	2725 Valley Avenue	1.10		TRUE	28-Aug-09	16 Private	03-Jan-08	08-Jul-14	Inspector
J Aspirational Village	Shenandoah University			pretention Filter	1460 University Drive	0.18	0.14	FALSE		17 Private	05-Nov-15		
J Sarah's Glen	Shenandoah University			rvious Pavers (Concrete)	1460 University Drive	0.00		TRUE	21-Jan-13	17 Private		12-Jun-17	City
J Sarah's Glen	Shenandoah University			rvious Pavers (Concrete)	1460 University Drive	0.00		TRUE	21-Jan-13	17 Private		21-May-14	
J Student Center Addendum	Shenandoah University			rvious Pavers (Concrete)	1460 University Drive	0.40		TRUE	10-Jul-08	17 Private	26-May-08	12-Jun-17	-
J Student Center Addendum	Shenandoan University Shenandoah University					The state of the s							
				rvious Pavers (Concrete)	1460 University Drive	0.40		TRUE	10-Jul-08	17 Private	26-May-08		Inspector
mmerfield Apartments	Page-Brooke Developments			tention Basin (Dry Pond)	900-975 Summerfield Lane	5.40		TRUE	30-Jun-05	17 Private			Inspector
n Trust Bank	Amherst Associates II, LLC		0125 Ur	derground Detention	1738 Amherst Street	1.00		TRUE	30-Jun-05	17 Private		21-Jun-14	Inspector
GI Friday's	Glaize Developments		0126 Hy	drodynamic Separator	2600-2690 South Pleasant Valley Road	1.30		TRUE	23-Jul-07	16 Private	02-Apr-07	11-Jun-14	Inspector
GI Friday's	Glaize Developments		0127 Hy	drodynamic Separator	2600-2690 South Pleasant Valley Road	1.23		TRUE	23-Jul-07	16 Private	02-Apr-07	11-Jun-14	Inspector
GI Friday's	Glaize Developments		0128 Ex	tended Detention Basin	2600-2690 South Pleasant Valley Road	1.30		TRUE	23-Jul-07	16 Private	02-Apr-07	11-Jun-14	Inspector
GI Friday's	Glaize Developments		0129 Ex	tended Detention Basin	2600-2690 South Pleasant Valley Road	1.23		TRUE	23-Jul-07	16 Private	02-Apr-07	11-Jun-14	Inspector

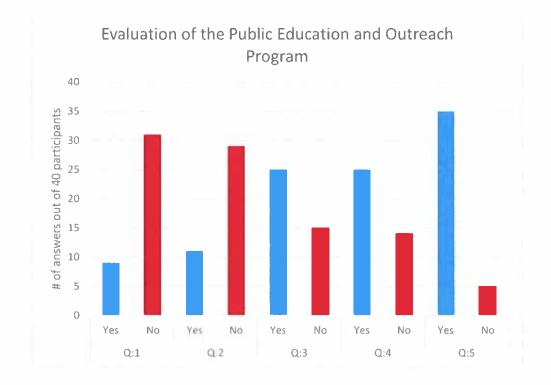
Project	Owner Name	c/o	BMP ID	Type ID	BMP Address	Acres Treated ervious Acre	Tre Constructed?	Online Date	HU Code ID	Public/Private	MA Signed by Owner	Last Inspection	Type of Inspection
he Corners I and II	Biggs Corner Winchester, LLC		013	O Underground Detention	2270 Valor Drive	1.51	TRU	E 30-Sep-08		17 Private	05-Feb-07	28-May-14	Inspector
he Corners I and II	Molden Real Estate Corporation		000	9 Underground Detention	2310 Valor Drive	1.60	FALS	E		17 Private	05-Feb-07		
he Lofts at Jubal Square	Jubal Square, LLC		023	8 Retention Basin (Wet Pond)	1900 Valley Avenue	6.89	FAL	E		17 Private	02-Jul-15		
imberlake Office Building	Grove Hill, LLC		013	1 Filterra	900 South Pleasant Valley Road	0.24	TRL	E 27-Nov-06	1	17 Private	09-Mar-07	07-Jul-14	Inspector
Timberlake Office Building	Grove Hill, LLC		013	2 Filterra	900 South Pleasant Valley Road	0.22	TRU	E 27-Nov-06		17 Private	09-Mar-07	07-Jul-14	Inspector
Trinity Auto Center	Grasso & Sons Development Corp.		021	8 Bioretention Basin	2409-2433 Valley Avenue	0.67	TRL	E 26-Aug-13		17 Private	14-Mar-12	31-May-17	City
Frinity Express Lube	Grasso & Sons Development Corp.		004	4 Detention Basin (Dry Pond)	2409-2433 Valley Avenue	0.81	TRL	E 30-Jun-05		17 Private		31-May-17	City
rinity Express Lube	Grasso & Sons Development Corp.		004	4 Detention Basin (Dry Pond)	2409-2433 Valley Avenue	0.81	TRL	E 30-Jun-05		17 Private		27-Jul-10	Inspector
alley Ave. Food Lion	Kentland Foundation Inc.		013	3 Detention Basin (Dry Pond)	2584-2606 Valley Avenue	20.70	TRU	E 19-Dec-06	3	17 Private		01-Jul-14	Inspector
/alley Mortgage	SEE Properties LP LLP		013	4 Detention Basin (Dry Pond)	2654 Valley Avenue	58.00	TRU	E 30-Jun-05		16 Private		09-Jul-14	Inspector
alor Drive Site Plan	Alejandro Orfila	Edwin P. Markowitz	013	6 Detention Basin (Dry Pond)	2233-2265 Valor Drive	3.44	TRU		+	17 Private		28-Sep-14	
alor View Shopping Center	PRO Properties, LLC		013	7 Underground Detention	2301-2325 Valor Drive	1.36	TRU			17 Private	10-Apr-10	13-Jun-17	
/alor View Shopping Center	PRO Properties, LLC		013	7 Underground Detention	2301-2325 Valor Drive	1.36	TRU			17 Private	10-Apr-10	08-Apr-14	
alor View Shopping Center	PRO Properties, LLC			8 Bioretention Basin	2301-2325 Valor Drive	0.59	TRU			17 Private	10-Apr-10	13-Jun-17	Address of the Control of the Contro
/alor View Shopping Center	PRO Properties, LLC		013	8 Bioretention Basin	2301-2325 Valor Drive	0.59	TRU			17 Private	10-Apr-10	08-Apr-14	and the second s
Walmart	Walmart Supercenter		014	O Detention Basin (Dry Pond)	2350 South Pleasant Valley Road	19.40	TRU		4	17 Private	201,010	06-Jun-14	
Walnut Street Extension Subdivision	Don Packard Jr.			1 Grass Swale	400 Walnut Drive	1.24	TRU		4	17 Private		20-Jun-17	-
Walnut Street Extension Subdivision	Don Packard Jr.		014	1 Grass Swale	400 Walnut Drive	1,24	TRU			17 Private		20-May-14	
Westridge Section 1	City of Winchester		014	3 Detention Basin (Dry Pond)	2505 Goldenfield Lane	9.20	TRU			17 Public		09-Apr-18	
Vestridge Section 2	City of Winchester			4 Detention Basin (Dry Pond)	2653 Windwood Drive	15.10	TRU			17 Public		09-Apr-18	
Whitacre Property	1726 Vailey Avenue, LLC			5 Filterra	1726 Valley Avenue	0.33	FALS			17 Private		00 7-17- 00	0.01
Whittier Ponding Basin	City of Winchester		Title blooming	6 Detention Sasin (Dry Pond)	841 Whittier Avenue	124.70	TRL		-	17 Public		18-Apr-18	City
Winchester Marketplace	DSC Properties LLC			2 Filterra	1551 South Pleasant Valley Road		0.12 TRU		-	17 Private	14-Apr-15	16-May-18	+ '
Vinchester Marketplace	DSC Properties LLC			5 Filterra	1551 South Pleasant Valley Road		0.11 TRU			17 Private	14-Apr-15	16-May-18	+ -
Winchester Marketplace	DSC Properties LLC			6 Filterra	1551 South Pleasant Valley Road		0.21 TRU			17 Private	14-Apr-15	16-May-18	+ -
Vinchester Marketplace	DSC Properties LLC			7 Filterra	1551 South Pleasant Valley Road		0.28 TRU			17 Private	14-Apr-15	16-May-18	+ -
Vinchester Marketplace	DSC Properties LLC		100	O Filterra	1551 South Pleasant Valley Road	0.27	FAL		-	17 Private	14-Apr-15	20-11104-20	City
Vinchester Marketplace	JDC Winchester, LLC		101	3 Filterra	1531-1539 Pleasant Valley Road		0.37 TRU		-	17 Private	14-Apr-15	16-May-18	City
Vinchester Marketplace	JDC Winchester, LLC			4 Filterra	1531-1539 Pleasant Valley Road		0.12 TRL			17 Private	14-Apr-15	16-May-18	
Vinchester Marketplace	JDC Winchester, LLC			8 Filterra	1531-1539 Pleasant Valley Road		0.27 TRL		-	17 Private	14-Apr-15	16-May-18	
Winchester Marketplace	JDC Winchester, LLC			9 Filterra	1531-1539 Pleasant Valley Road		0.30 TRL			17 Private	14-Apr-15	16-May-18	1000 7 4 10
Vinchester Marketplace	JDC Winchester, LLC			1 Filterra	222 Spring Street	0.19	FAL		-	17 Private	14-Apr-15	10-May-10	City
Vinchester Marketplace	JDC Winchester, LLC			2 Filterra	222 Spring Street	0.51	FAL		_	17 Private	14-Apr-15		
Vinchester Marketplace	JDC Winchester, LLC			3 Filterra	222 Spring Street	0.15	FAL		-	17 Private	14-Apr-15		
Vinchester Marketplace	JDC Winchester, LLC		-	4 Filterra	222 Spring Street	0.65	FAL		-	17 Private	14-Apr-15		
Vinchester Marketplace	JDC Winchester, LLC			5 Filterra	222 Spring Street	0.34	FAL		-	17 Private	14-Apr-15		
Vinchester Marketplace	JDC Winchester, LLC			6 Filterra	222 Spring Street	1.07	FAL	-	_	17 Private	14-Apr-15		1
Vinchester Marketplace	JDC Winchester, LLC			7 Filterra	222 Spring Street	0.24	FAL		_	17 Private	14-Apr-15		
Vinchester Marketplace	JDC Winchester, LLC			8 Filterra	222 Spring Street	0.24	FAL			17 Private	14-Apr-15		
Vinchester Marketplace	JDC Winchester, LLC			9 Filterra	222 Spring Street	0.39	FAL		-	17 Private	14-Apr-15		1
Vinchester Marketplace	JDC Winchester, LLC			O Filterra	222 Spring Street	0.35	FAL			17 Private	14-Apr-15		
Vinchester Marketplace	JDC Winchester, LLC			1 Filterra						17 Private	The second secon		
Vinchester Marketplace	JDC Winchester, LLC			2 Filterra	222 Spring Street 222 Spring Street	0.21 0.52	FAL			17 Private	14-Apr-15		
Vinchester Marketplace	JDC Winchester, LLC			3 Filterra		0.30	FAL			17 Private	14-Apr-15	·· · · · · · · · · · · · · · · · · · ·	
Vinchester Marketplace	JDC Winchester, LLC				222 Spring Street		FAL	THE RESERVE OF THE PARTY OF THE	-		14-Apr-15		
Vinchester Medical Center	Winchester Medical Center			4 Underground Detention	222 Spring Street	13.20	FALS			17 Private	14-Apr-15	10 1 11	
Vinchester Medical Center	Winchester Medical Center			7 Retention Basin (Wet Pond)	1840 Amherst Street	57.00	TRU			17 Private			Inspector
Winchester Medical Center	Winchester Medical Center Winchester Medical Center			8 Retention Basin (Wet Pond)	1840 Amherst Street	57.00	TRU		4	17 Private			Inspector
VMC Cancer Center				9 Retention Basin (Wet Pond)	1840 Amherst Street	57.00	TRU			17 Private			Inspector
A INIC COURSE CENTER	Winchester Medical Center		023	1 Cartridge Filter	1840 Amherst Street	2.65	1.38 TRU	E 25-Aug-16		17 Private	31-Oct-14	16-May-18	Lity



# Attachment 2. Evaluation of the City's MS4 Public Education and Outreach Program

Q:	1	Q:	2	Q:	3	Q:4	Q:5		
Yes	No	Yes	No	Yes	No	Yes	No	Yes	No
9	31	11	29	25	15	25	14	35	5
	<del> </del>					*one person did not answer			
				Q:4					

- Q:1 Are you aware that the City of Winchester has a Stormwater Complaint Hotline?
- Q:2 Did you know the City of Winchester's Stormwater Plan is located online (www.winchesterva.gov/engineering/stormwater)?
- Q:3 Did you know the City of Winchester's stormwater drains are not connected to the wastewater treatment system?
- Q:4 Did you know making a rain barrel saves up to 40% of an average household's water consumption?
- Q:5 Are you aware that picking up pet's waste could help improve water quality?



For one month, the five question survey was online on the City's stormwater website to evaluate the City residents' knowledge in the stormwater program. Forty City residents participated in this survey, and only one participant did not answer question 4. This information is greatly important for the City because it shows what topics need to be advertised more. With the data shown in the bar graph, the City will be focusing on informing the residents of City of Winchester more about the Stormwater Complaint Hotline and where to access the City's Stormwater Plan (MS4) during the next permit cycle. The City will also continue to educate the public of the City's overall Stormwater Program.



Attachment 3. Letter from DEQ Confirming City Yards Facility Coverage Under the Virginia General Permit for Discharge of Stormwater from Industrial Activities



## COMMONWEALTH of VIRGINIA

# DEPARTMENT OF ENVIRONMENTAL QUALITY VALLEY REGIONAL OFFICE

Molly Joseph Ward Secretary of Natural Resources 4411 Early Road, P.O. Box 3000, Harrisonburg, Virginia 22801 (540) 574-7800 Fax (540) 574-7878 www.deq.virginia.gov

David K. Paylor Director

Amy Thatcher Owens Regional Director

July 1, 2014

Perry Eisenach City of Winchester, Virginia 15 North Cameron Street Winchester, VA 22601

RE: Coverage under the VPDES Industrial Stormwater General Permit

Winchester Public Works Department City Yards, Registration No. VAR050822

Dear Mr. Eisenach:

We have reviewed your Registration Statement and have determined that stormwater discharges from the above facility are hereby covered under the referenced VPDES general permit. Your coverage under this permit is effective as of July 1, 2014. The enclosed copy of the general permit contains the applicable stormwater pollution prevention plan (SWPPP), sector specific requirements, monitoring requirements, and other conditions of coverage.

The general permit requires that you update your SWPPP within 90 days of your date of coverage under the permit to incorporate the SWPPP changes that the Department made for this permit reissuance. For this reissuance, all permit discharge monitoring is semi-annual (i.e., once per six months). Monitoring for your facility begins with the July 1, 2014 monitoring period.

Discharge Monitoring Reports (DMRs) for your monitoring type(s) and outfalls are included with the permit. Each DMR specifies the applicable monitoring parameters required by the permit. A DMR should be completed for each permitted outfall for each monitoring period. DMRs must be submitted to this office by January 10<sup>th</sup> and July 10<sup>th</sup> each year. The first DMR is due January 10, 2015 for the monitoring period of July 1, 2014 to December 31, 2014.

You are responsible for obtaining additional copies of the DMRs. (See the e-DMR note at the end of this letter). Note that Representative Outfall sampling and reporting is allowed for all monitoring types except Effluent Limitation Monitoring. See the permit Part I.A.2.f for details, and Part I.A.5 for instructions on submitting DMRs with representative outfalls.

Winchester Public Works Department City Yards Registration No. VAR050822 Page 2

Note that permittees with at least one industrial activity stormwater discharge through a regulated municipal separate storm sewer system (MS4) have to submit signed copies of DMRs to the MS4 operator at the same time as the reports are submitted to the Department. A spreadsheet listing the regulated MS4s and their addresses is on DEQ's web site at: <a href="http://www.deq.virginia.gov/Programs/Water/StormwaterManagement/VSMPPermits/MS4Permits.aspx">http://www.deq.virginia.gov/Programs/Water/StormwaterManagement/VSMPPermits/MS4Permits.aspx</a> (at the bottom of the page).

The following discharge monitoring applies to your facility:

- Benchmark monitoring Specific stormwater monitoring for your facility based on the industrial sectors that apply to your facility (see the enclosed DMR). Refer to the permit Part I.A.1.b for the benchmark monitoring requirements, and the sector specific sections for the benchmark monitoring applicable to your facility.
- Impaired Waters Monitoring Waters With An Approved TMDL (other than PCBs or Chesapeake Bay) Your facility has been identified as discharging the pollutant of concern to an impaired waterbody that has an approved Total Maximum Daily Load (TMDL) Wasteload Allocation. As such, you are required to modify your SWPPP to implement best management practices (BMPs) designed to meet the allocation in the TMDL (see the attached relevant pages from the TMDL and the attached TMDL Fact Sheet). The TMDL contains a specific wasteload allocation for your facility; therefore, you are required to monitor your stormwater discharges for the TMDL pollutant of concern (see the enclosed DMR). Refer to the permit Part I.A.1.c(3) for TMDL monitoring requirements, and permit Part I.B.7.a regarding TMDL requirements.
- Impaired Waters Monitoring Chesapeake Bay TMDL Special Monitoring For Facilities In The Chesapeake Bay Watershed In response to EPA's Chesapeake Bay Total Maximum Daily Load (TMDL) (December 2010), all owners of facilities in the Chesapeake Bay watershed are required to monitor their stormwater discharges for total suspended solids (TSS), total nitrogen (TN), and total phosphorus (TP) to characterize the contributions from their facility's specific industrial sector for these parameters (see the enclosed DMR). After you are granted coverage under the permit, stormwater samples are to be collected during each of the first four monitoring periods (i.e., the first two years of permit coverage). Refer to the permit Part I.B.7.b for the specific Chesapeake Bay TMDL requirements. Also note that permit Part I.B.7.b(3) requires you to analyze the collected data and possibly develop a Chesapeake Bay TMDL Action Plan based on the results of the sampling. Please refer to the enclosed Errata Sheet for the correct equation to use for the Chesapeake Bay TMDL loading calculations.

Virginia's Phase I Chesapeake Bay Total Maximum Daily Load (TMDL) Watershed Implementation Plan (November 29, 2010), states that the wasteloads from any expansion of an existing permitted facility discharging stormwater in the Chesapeake Bay watershed cannot exceed the nutrient and sediment loadings that were discharged from the expanded portion of the land prior to the land being developed for the expanded industrial activity. For any industrial activity area expansions (i.e., construction activities, including clearing, grading and excavation activities) that commence on or after July 1, 2014 (the effective date of this permit), you must document in the SWPPP the information and calculations used to determine the nutrient and sediment loadings discharged from the expanded land area prior to the land being developed, and the measures and controls that were employed to meet the no net increase of stormwater nutrient and sediment load as a result of the expansion of the industrial activity. Any land disturbance that is not required to be permitted under the VPDES construction stormwater general permit regulation (9VAC25-880) is exempt from this requirement.

Winchester Public Works Department City Yards Registration No. VAR050822 Page 3

DEQ launched an electronic Discharge Monitoring Report (e-DMR) program that now allows you to submit your stormwater DMR data electronically. We hope that every permittee will sign up for e-DMR access when they receive their general permit coverage, but it is not mandatory at this time. Note that EPA is moving towards making electronic reporting a mandatory requirement nationwide, so this may become a requirement in the future. There are many benefits to both DEQ and the permittee when e-DMR is utilized for monitoring data submissions:

- Fewer revisions of the data since the e-DMR program automatically flags omissions before the data is submitted:
- 2) Cost savings on postage, copying, and paper;
- 3) No concerns about using the most current DMR form e-DMR refreshes the required parameters automatically when changes are needed;
- 4) Submittals can be made on a timelier basis;
- 5) e-DMR participants instantly receive a system-generated email notification/ documentation with the exact time and date of when the e-DMR was submitted; and
- 6) Electronic signatures from multiple people are allowed, and e-DMR can be accessed from multiple computer locations.

We ask that you apply for e-DMR participation now, although you may apply at any time. Our regional DMR administrator, Linda Ferguson-Davie (540-574-7806, linda.ferguson-davie@deq.virginia.gov) can assist you. The following website provides details, training videos and Frequently Asked Questions:

http://www.deq.virginia.gov/Programs/Water/PermittingCompliance/ElectronicDMRsubmissions.aspx

This general permit will expire on June 30, 2019. The permit requires that you submit a new registration statement at least 60 days prior to that date if you wish continued coverage under the general permit, unless permission for a later date has been granted by the Board. Permission cannot be granted to submit the registration statement after the expiration date of the permit.

If you have any questions, please contact Olive Critzer at <u>olive.critzer@deq.virginia.gov</u> or (540) 574-7877.

Sincerely,

Brandon D. Kiracofe

Brandon D. Kingfe

Regional Water Permits & Compliance Manager



Attachment 4. SWPPP for Parks Maintenance Building in Jim Barnett Park

### **Stormwater Pollution Prevention Plan**

#### for:

Winchester Parks and Recreation Maintenance Building 1001 East Cork Street Winchester, VA 22601 540-662-4946

## **SWPPP** Contact(s):

City of Winchester Parks and Recreation Department Lynn Miller, Director Lynn.Miller@winchesterva.gov

# **SWPPP Preparation Date:**

06/30/2017

Page Intentionally Blank

## **Contents**

## **Table of Contents**

SECTION 1: FACILITY DESCRIPTION AND CONTACT INFORMATION	
1.1 Facility Information.	
1.2 Contact Information/Responsible Parties.	5
1.3 Stormwater Pollution Prevention Team	5
1.4 Site Description	6
1.5 General Location Map.	6
1.6 Site Map	6
SECTION 2: POTENTIAL POLLUTANT SOURCES	6
2.1 Potential Pollutants Associated with Industrial Activity	6
2.2 Spills and Leaks	
2.3 Unauthorized Non-stormwater Discharges Documentation	7
2.4 Salt Storage	
2.5 Sampling Data Summary	8
SECTION 3: STORMWATER CONTROL MEASURES	
3.1 Non-numeric Technology-based Effluent Limits (BPT/BAT/BCT)	
3.1.1 Minimize Exposure	8
3.1.2 Good Housekeeping	
3.1.3 Maintenance.	
3.1.4 Spill Prevention and Response	
3.1.5 Erosion and Sediment Controls.	
3.1.6 Management of Runoff	
3.1.7 Salt Storage Piles or Piles Containing Salt.	
3.1.8 Dust Generation and Vehicle Tracking of Industrial Materials	
SECTION 4: SCHEDULES AND PROCEDURES	
4.1 Good Housekeeping	
4.2 Maintenance.	
4.3 Spill Prevention and Response Procedures	
4.4 Erosion and Sediment Control.	
4.5 Employee Training	
4.6 Inspections and Assessments.	
4.6.1 Routine Facility Inspections.	
SECTION 5: SWPPP CERTIFICATION	
SECTION 6: SWPPP MODIFICATIONS.	4
SWPPP ATTACHMENTS	4

# SECTION 1: FACILITY DESCRIPTION AND CONTACT INFORMATION.

## 1.1 Facility Information.

Facility Information		
Name of Facility: Winchester Parks and Recreation Ma	intenance Building	
Street: 1001 East Cork Street		
City: Winchester	State: <u>VA</u>	ZIP Code: 22601
County or Similar Subdivision: City of Winchester		***
Latitude/Longitude		
Latitude:	Longitude:	
9 . 1 6 9 1 ° N (decimal degrees) - 7 8. 1 5 4 0 ° W (decimal degrees)		al degrees)
Method for determining latitude/longitude (check on	e):	
□USGS topographic map (specify scale:	)	□GPS
⊠Other (please specify): City of Winchester Pictometry	1	
Horizontal Reference Datum (check one):		
□NAD 27 □NAD 83 □WGS 84		
Estimated area of industrial activity at site exposed to st	ormwater: <u>0.72</u> (acres)	
Discharge Information		
Does this facility discharge stormwater into a municipal	separate storm sewer syste	e <b>m</b>
(MS4)? ⊠Yes □No		
If yes, name of MS4 operator: City of Winchester		
Name(s) of surface water(s) that receive stormwater from	m your facility: <u>Abrams C</u>	reek
Does this facility discharge industrial stormwater directly definition in 2015 MSGP, Appendix A)?	rinto any segment of an "in" ⊠No	paired water" (see

#### 1.2 Contact Information/Responsible Parties.

#### Facility Operator(s):

Name: City of Winchester Parks and Recreation Department

Address: 1001 East Cork Street

City, State, Zip Code: Winchester, VA 22601

Telephone Number: (540) 662-4946

Fax number: (540) 678-8791

#### Facility Owner(s):

Name: City of Winchester Virginia

Address: 15 North Cameron Street

City, State, Zip Code: Winchester, VA 22601

Telephone Number: (540) 667-1815

#### **SWPPP Contact(s):**

SWPPP Contact Name (Primary): Tommy Lambert, Parks Superintendent

Telephone number: (540) 662-4946

Email address: Thomas.Lambert@winchesterva.gov SWPPP Contact Name (Backup): Lynn Miller, Parks Director

Telephone number: (540) 662-4946

Email address: Lynn.Miller@winchesterva.gov

#### 1.3 Stormwater Pollution Prevention Team.

Staff Names Individual Responsibilities	
Lynn Miller	Parks Department Director
Matt Little	Parks Assistant Director
Tommy Lambert	Parks Superintendent
Robert Brown	Stormwater Engineer
Kelly Henshaw	City Engineer
[Repeat as necessary]	[Repeat as necessary]

#### 1.4 Site Description.

The parks maintenance building area is located in the southwestern corner of Jim Barnett Park and borders Interstate 81 to the east. It is used for the storage and maintenance of a variety of grounds keeping equipment and vehicles. It also serves as a storage area for various chemicals, paints, fuels, and other potential pollutants used for park maintenance. In general, materials are stored indoors and machinery is stored outdoors with no cover. Maintenance also generally occurs indoors. There is no stormwater infrastructure in this area of the park, so all drainage is via overland sheet flow and natural swales.

This SWPPP applies only to the maintenance building and its surrounding parking areas.

#### 1.5 General Location Map.

The general location map for this facility can be found in Attachment A.

#### 1.6 Site Map.

The site map for this facility can be found in Attachment B.

#### SECTION 2: POTENTIAL POLLUTANT SOURCES.

Section 2 will describe all areas at your facility where industrial materials or activities are exposed to stormwater or from which allowable non-stormwater discharges originate. Industrial materials or activities include, but are not limited to: material handling equipment or activities; industrial machinery; raw materials; industrial production and processes; and intermediate products, by-products, final products, and waste products. Material handling activities include, but are not limited to: the storage, loading and unloading, transportation, disposal or conveyance of any raw material, intermediate product, final product or waste product. For structures located in areas of industrial activity, you must be aware that the structures themselves are potential sources of pollutants. This could occur, for example, when metals such as aluminum or copper are leached from the structures as a result of acid rain.

For each area identified, the SWPPP must include industrial activities, potential pollutants, spills and leaks, unauthorized non-stormwater discharges, salt storage, stormwater sampling data and descriptions of control measures.

## 2.1 Potential Pollutants Associated with Industrial Activity.

Industrial Activity	Associated Pollutants  Motor oil, anti-freeze, hydraulic fluid, hydrocarbons	
Vehicle storage		
Material storage	Fertilizer, salt, de-icer, herbicide, pesticide, paint	
Fueling Facility	Hydrocarbons	

#### 2.2 Spills and Leaks.

#### Areas of Site Where Potential Spills/Leaks Could Occur

Location	Discharge Points Outfall #1	
Vehicle / Material Storage Area		
Maintenance Garage	"	
Oil / Chemical Barrels	"	
Parts Cleaning Station	и	

#### Description of Past Spills/Leaks

Date	Description	Discharge Points
Insert date of spill/leak	Insert description of spill/leak (where it occurred, what happened, types of pollutants, extent of damage)	Specify which discharge point(s) were affected
[Repeat as necessary]	[Repeat as necessary]	[Repeat as necessary]
[Repeat as necessary]	[Repeat as necessary]	[Repeat as necessary]
[Repeat as necessary]	[Repeat as necessary]	[Repeat as necessary]

## 2.3 Unauthorized Non-stormwater Discharges Documentation.

Description of this facility's unauthorized non-stormwater discharge evaluation:

- Date of evaluation: Insert the date(s) of your evaluation.
- Description of the evaluation criteria used: Describe the method used to conduct the evaluation and determine which non-stormwater discharges are authorized or unauthorized.
- List of the drainage points that were directly observed during the evaluation: Insert drainage points observed.
- Action(s) taken, such as a list of control measures used to eliminate unauthorized discharge(s), or
  documentation that a separate NPDES permit was obtained. For example, a floor drain was
  sealed, a sink drain was re-routed to the sanitary sewer or an NPDES permit application was
  submitted for an unauthorized cooling water discharge: Describe actions taken to eliminate
  unauthorized non-stormwater discharges and the corresponding drainage point affected.

#### 2.4 Salt Storage.

Salt and other de-icing chemicals are stored in bags under cover

#### 2.5 Sampling Data Summary.

No stormwater sampling has been done on the site.

#### SECTION 3: STORMWATER CONTROL MEASURES.

#### 3.1 Non-numeric Technology-based Effluent Limits (BPT/BAT/BCT)

You must comply with the following non-numeric effluent limits (except where otherwise specified in Part 8) as well as any sector-specific non-numeric effluent limits in Part 8.

#### 3.1.1 Minimize Exposure.

Vehicle Maintenance – All vehicle maintenance takes place inside the garage buildings. Used motor oil is stored in a 275-gallon tank and used antifreeze is stored in a similar 200-gallon tank. Both of these tanks are above ground tanks surrounded by secondary containment areas. Both tanks are covered to minimize the amount of stormwater that might enter the containment areas.

#### 3.1.2 Good Housekeeping.

Trash generated on-site is collected and in a lidded dumpster and collected weekly.

Waste oil and antifreeze tanks are visually inspected for leaks and spills regularly.

Used batteries are stored inside and collected as needed for recycling by the battery vendor.

#### 3.1.3 Maintenance.

Vehicles stored on the Parks Maintenance site are to be given regular maintenance and inspected regularly for any fluid leaks.

Floor drains in the garages are to be kept clear and functioning at all times to prevent fluids from leaving the buildings.

Waste oil and antifreeze storage tanks are to be emptied on a monthly basis, or as needed, to prevent overfilling. Containment areas area around the tanks is to be monitored and cleaned out if fluids are present.

## 3.1.4 Spill Prevention and Response.

Plainly label containers (e.g., "Used Oil," "Spent Solvents," "Fertilizers and Pesticides") that could
be susceptible to spillage or leakage to encourage proper handling and facilitate rapid response if
spills or leaks occur;\*

- Implement procedures for material storage and handling, including the use of secondary
  containment and barriers between material storage and traffic areas, or a similarly effective means
  designed to prevent the discharge of pollutants from these areas;
- Develop training and train all staff on procedures to quickly stop, contain and clean up leaks, spills, and other releases. As appropriate, execute such procedures as soon as possible;
- Keep spill kits on-site, located near areas where spills may occur or where a rapid response can be made; and
- Notify appropriate facility personnel when a leak, spill or other release occurs.

#### Prevention

The used oil and antifreeze tanks are labeled with their contents and each is surrounded by a secondary containment area.

#### Response

Dry cleanup methods are used; absorbents such as "Stay-Dri" are applied to spills. After the spill has been absorbed, the absorbent is swept up and placed in a storage drum to be recycled.

In the event that a spill occurs and sewage, industrial waste, other wastes or any noxious or deleterious substance discharges into or upon state waters in violation of Part II F; or a discharge may reasonably be expected to enter state waters in violation of Part II F, notify the Virginia DEQ of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the department within five days of discovery of the discharge. The written report shall contain:

- 1. A description of the nature and location of the discharge;
- 2. The cause of the discharge;
- 3. The date on which the discharge occurred;
- 4. The length of time that the discharge continued;
- 5. The volume of the discharge;
- 6. If the discharge is continuing, how long it is expected to continue:
- 7. If the discharge is continuing, what the expected total volume of the discharge will be; and
- Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge
  or any future discharges not authorized by this permit.

Discharges reportable to the department under the immediate reporting requirements of other regulations are exempted from this requirement.

#### **Contacts:**

DEQ Valley Regional Office Pollution Response Coordinator – Jennifer Welcher (540) 574-7800

## Virginia Department of Emergency Management 1-800-468-8892

#### 3.1.5 Erosion and Sediment Controls.

All areas of the site are stabilized, and no land disturbance activities are anticipated. If any construction occurs on site, erosion and sediment controls will be reviewed as part of the site plan approval process and implemented in accordance with the Virginia Erosion and Sediment Control Handbook.

#### 3.1.6 Management of Runoff.

Currently, there are no controls on site to reduce the amount of stormwater runoff beyond the maintenance of vegetated areas.

#### 3.1.7 Salt Storage Piles or Piles Containing Salt.

Salt is currently stored in the main building in individual bags.

#### 3.1.8 Dust Generation and Vehicle Tracking of Industrial Materials.

The gravel areas of the site are currently stable with low levels of dust. If dust becomes a problem, the gravel areas shall be sprayed with water or other approved non-toxic dust control material.

## **SECTION 4: SCHEDULES AND PROCEDURES.**

## 4.1 Good Housekeeping.

- Roll off dumpster shall be collected when full
- All liquid materials stored in drums shall be inspected for leaks whenever used or at least weekly
- Dry material stored in containers or bags shall be inspected for leaks when they are used or moved
- Flammable material shall be stored and inspected as required by OSHA, the Winchester Fire Marshall, or other applicable agencies

#### 4.2 Maintenance.

- Any spill containment measures shall be inspected daily and emptied as needed
- Vehicles shall be inspected before each use for fluid leaks and repaired as needed

#### 4.3 Spill Prevention and Response Procedures.

Listed under 3.1.4 above

#### 4.4 Erosion and Sediment Control.

Listed under 3.1.5 above

#### 4.5 Employee Training.

Employee training is covered under the City of Winchester's MS4 Program Plan

#### 4.6 Inspections and Assessments.

#### 4.6.1 Routine Facility Inspections.

Routine facility inspections shall be conducted at least quarterly. At least one routine facility inspection per year should occur while runoff is discharging from the site.

For routine facility inspections to be performed at your site, your SWPPP must include a description of the following:

- Person(s) or positions of person(s) responsible for inspection. Park Superintendent, Stormwater Engineer, City Engineer
- 2. Schedules for conducting inspections. Routine facility inspections shall be conducted at least quarterly. At least one routine facility inspection per year should occur while runoff is discharging from the site.
- List areas where industrial materials or activities are exposed to stormwater. Outdoor vehicle and equipment storage
- 4. List areas identified in the SWPPP (section 1 of the SWPPP Template) and any others that are potential pollutant sources (see Part 5.2.3). All outdoor storage areas; fueling area; areas around buildings where indoor spills may escape the building perimeter
- 5. Areas where spills and leaks have occurred in the past 3 years. No spills have been documented in the past three years

## SECTION 5: SWPPP 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 gathered and evaluated 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.		
Name:	Title:	
Signature:		Date:

## **SECTION 6: SWPPP MODIFICATIONS.**

Instructions (see 2015 MSGP Part 5.3):

Your SWPPP is a "living" document and is required to be modified and updated, as necessary, in response to corrective actions. See Part 4 of the 2015 MSGP.

- If you need to modify the SWPPP in response to a corrective action, then the certification statement in section 7 of this SWPPP template must be re-signed.
- For any other SWPPP modification, you should keep a log with a description of the modification, the name of the person making it, and the date and signature of that person.

## **SWPPP ATTACHMENTS**

Attach the following documentation to the SWPPP:

Attachment A - General Location Map

Include a copy of your general location map in Attachment A.

Attachment B - Site Map

Include a copy of your site map(s) in Attachment B.



CITY OF WINCHESTER VIRGINIA

VIRGINIA
PUBLIC SERVICES DEPARTMENT
15 N. CAMERON STREET
WINCHESTER, VA 22601
PHONE: 540-667-1815
FAX: 540-662-3351

PARKS MAINTENANCE BUILDING LOCATION MAP

SCALE 1"=500" DATE 6/30/17

SHEET I OF 1

