# GENERAL PERMIT FOR SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS

PERMIT NUMBER: VAR040053

Permit Year 5 Annual Report Reporting Period: July 1, 2022 - June 30, 2023



City of Winchester, Virginia
Public Services Department
301 East Cork Street
Winchester, VA 22601

October 1, 2023

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### I. Background Information

In accordance with the requirements of Permit Number VAR040053, this Annual Report is hereby submitted in compliance with the City of Winchester General Permit for Small Municipal Separate Storm Sewer Systems (MS4). A link to the MS4 Program Plan and latest Annual Report can be found at:

https://www.winchesterva.gov/engineering/stormwater

This Annual Report covers all information required by the permit as described in 9VAC25-890 but is not intended to fully describe all activities the city has performed, programs the city has implemented, or plans the city has made or is making. Please note that as all activities conducted by permittees are not required to be reported certain data may not be included in this report. Any omissions of data in that regard should not be inferred, nor is it intended to imply that additional requirements are not being fulfilled or addressed by the city.

### II. Annual Reporting Requirements

#### A. Regulatory Requirement

The permittee, system name, and permit number as listed below:

Permittee: City of Winchester

System Name: General Permit for Small Municipal Separate Storm Sewer Systems

Permit Number: VAR040053

#### B. Reporting period

This document serves as the Annual Report for Permit Year 5 of the 2018-2023 Virginia MS4 General Permit. The reporting period for which this annual report is being submitted is July 1, 2022 to June 30, 2023.

#### C. Signed Certification per Part III K

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to 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.



#### D. Minimum Control Measures (MCMs) Reporting Items

All applicable Minimum Control Measures (MCM) reporting items can be found in Sections 3.0-8.0 of this Annual Report. Supporting information for the MCMs is located in the Appendix.

#### E. Evaluation of the MS4 Program Implementation

Based on the current program results, the City is confident that the Minimum Control Measures (MCMs) being implemented are appropriate, effective, and meet the requirements of the 2018-2023 Virginia MS4 General Permit. As such, the City does not anticipate the need to make any changes to its MS4 Program at this time. The City will continue to monitor the status, appropriateness, and effectiveness of each MCM as part of our iterative process to reduce pollutant loadings and protect water quality. Installation

## F. Chesapeake Bay TMDL Special Condition Update

An update of the Chesapeake Bay TMDL Special Condition as established under Part II A of the General Permit requirements can be found in Section IX.

#### **G. Local TMDL Special Condition Update**

An update of the Local TMDL Special Condition, as established under Part II B of the General Permit requirements, can be found in Section X.

#### III. Minimum Control Measure 1 – Public Education and Outreach

#### A. High Priority Stormwater Issues

The City addressed the following three high priority stormwater issues during this reporting period:

- #1 Reduce the amount of sediment and nutrients in local stormwater discharges.
- #2 Reduce bacteria levels in City streams.
- #3 Reduce the number of Illicit Discharges.

## **B. High Priority Stormwater Strategies**

The City used the strategies outlined in Table 1 below to address the above-referenced high priority stormwater issues. These strategies varied in target audience and delivery method to maximize the efficiency and effectiveness of its outreach and education efforts. See Section 4.3 for more information regarding individual public education and outreach events.

Table 1. High Priority Stormwater Strategies

High Priority Stormwater Issue	Strategy Category	Public Education and Outreach
Reduce the amount of sediment and nutrients in local stormwater discharges	<ol> <li>Traditional Written         Materials</li> <li>Signage</li> <li>Media Materials</li> <li>Curriculum Materials</li> </ol>	<ol> <li>City Publications</li> <li>Community Signage</li> <li>City Publications</li> <li>Watershed and Stormwater Education Opportunities Program</li> </ol>
Reduce bacteria levels in City Streams	<ol> <li>Traditional Written         Materials</li> <li>Signage</li> <li>Media Materials</li> <li>Curriculum Materials</li> </ol>	<ol> <li>City Publications</li> <li>Community Signage</li> <li>City Publications</li> <li>Watershed and Stormwater Education Opportunities Program</li> </ol>
Reduce the number of illicit dischargers	<ol> <li>Traditional Written         Materials</li> <li>Signage</li> <li>Media Materials</li> <li>Curriculum Materials</li> </ol>	<ol> <li>City Publications</li> <li>Community Signage</li> <li>City Publications</li> <li>Watershed and Stormwater Education Opportunities Program</li> </ol>

## IV. Minimum Control Measure 2 – Public Involvement and Participation

#### A. Summary of Public Input

During this reporting period, the City continued to advertise the Stormwater Complaint Hotline on its stormwater webpage, process calls placed to the Stormwater Complaint Hotline, and facilitate the distribution (via direct download) of the Stormwater Complaint Hotline Flyer. Public input and complaints were categorized into three sections: 1) Referral for maintenance by Public Works, 2) Large capital project consideration, 3)

Inter-property/private matter, in which the City would not be involved. Maintenance recommendations are evaluated and added to the Public Works schedule as necessary. Large capital project considerations are noted and incorporated into future discussions when evaluating the City's needs. Inter-property/private matters are directed to the appropriate department or handled between the respective property owners, in which case the City has no jurisdiction. City staff attended the community events listed in Section 4.3 to document any additional public input that may have been provided at that time.

#### **B. MS4 Program and Stormwater Website**

The City of Winchester's current MS4 Program Plan and previous Annual Reports dating back to 2009 are available at:

https://www.winchesterva.gov/engineering/stormwater

This MS4 Annual Report and any revisions to the City's MS4 Program Plan will be placed on-line within thirty (30) days of submission to DEQ.

#### C. Public Involvement Activities

The City participates in multiple public involvement activities to increase public knowledge and awareness of any stormwater related issues that may exist within the City limits. These activities vary in type and are scheduled at intervals occurring throughout the calendar year for maximum effectiveness.

#### **City Publications**

The City's webpage is the primary public education and outreach tool. Education materials are made available to the citizens regarding the City's various program areas, the associated regulations, and the programmatic obligations. The following publications are currently available at the City's Stormwater webpage:

- 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
- 2018 2023 Municipal Separate Storm Sewer System (MS4) Program Plan
- MS4 Permit Years 1-5 Annual Reports from the 2014-2019 permit cycle.
- 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

The Cit-E News, City of Winchester email newsletter, is used to announce and promote various activities throughout the year regarding stormwater quality and quantity management. Educational articles pertaining to the proper management of stormwater are also published in the newsletter. The Cit-E Newsletter currently has a total of two thousand one hundred seventy-one (2,171) subscribers. It should be noted that readers of the City's Facebook and Twitter posts may be directed to articles in the Cit-E Newsletter, so readership is not limited to the subscriber list and a broader audience is included.

#### Community Signage

The City continued to promote picking up pet waste through the use of "Clean Up After Your Dog" signs placed at the Dog Park located in Jim Barnett Park. The number of registered dog owners with access to the Dog Park is not monitored since the dog park is a public facility.

#### Watershed and Stormwater Education Opportunities Program

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 23, 2022 Winchester STARBASE Academy 25 students
- October 19, 2022 Winchester STARBASE Academy 28 students
- December 9, 2022 Winchester STARBASE Academy 21 students
- January 27, 2023 Winchester STARBASE Academy 36 students
- February 21, 2023

   Winchester STARBASE Academy 39 students
- March 31, 2023– Winchester STARBASE Academy 28 students
- April 28, 2023– Winchester STARBASE Academy 35 students

#### Community Wellness Festival

The City participated in the Valley Health Community Wellness Festival on February 25, 2023. During this event, City Public Services staff educated the public on the effects of pollution on waterbodies, conservation of water, and good housekeeping through recycling, proper lawn maintenance, and proper disposal of household products. Roughly two hundred (200) people were provided fliers and coloring books related to the water cycle and ways to prevent pollution.

#### Household Hazardous Waste Collection Days

The City continued to promote the Household Hazardous Waste Collection Days as one of 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. One event was held on the third Wednesday during the months of November, December, January, February, and March.

#### Pickup Party

The city hosted a series of community cleanup events on the first Thursday of every month from April to June of this reporting period. The events are intended to encourage citizens to take an active role in keeping their community clean. At the event, staff spoke about the benefits of reduced trash and pollution in our storm sewers and waterways. Citizens earn points for attendance and other items, and prizes are awarded at milestone intervals as outlined below:

- 1 point = Show up and participate in cleanup activities
- 1 point = Bringing water to drink? Make sure a reusable water bottle!
- 1 point = Wear something to participate in the theme
- 1 point = Bring a new friend to the party (1 point per person who hasn't attended a previous party)
- 1 point = Correctly answer the themerelated trivia question at sign in

- 8 points = Water bottle (one per person)
- 10 points = Pickup Party T-shirt (one per person)
- 12 points = Grand prize raffle entry (1 entry per person per 12 points)

### D. Water Quality Metric and Evaluation

Having been cancelled in previous years due to the ongoing pandemic, the City is returning to its public involvement opportunities and is currently assessing four activities to determine their benefits and effectiveness on water quality. The City will track the metrics shown in Table 2 below to determine the success of these opportunities over the next few years.

Table 2. Public Involvement Opportunities

Public Involvement Opportunity	Activity	Description	Metric	Benefit
Disposal or Collection Events	Household Hazardous Waste Collection Days	Provide household hazardous waste collection opportunities to residents. The events were held on the first and third Wednesdays of each month from noon to 6 pm during the months of April Through October. During the months of November, December, January, February and March, the event was held once on the third Wednesday of the month.	Household waste collected – 6,670.56 tons Recycled Materials – 1,981.11 tons Recycling Bins Distributed - 640	Removed hazardous waste that could enter stormwater systems and dispose of them at approved location that is equipped to handle it

Pollution Prevention	Pickup Party	Citizens volunteer to collect trash at the various locations and are awarded points and prizes depending on their level and frequency of participation. Events are held on the first Thursday of the month from April to November	Weight of Trash collected this reporting period – 440 lbs	Removed trash from local streams, improving the health and water quality of the stream system.
Educational Events	Watershed and Stormwater Educational Opportunities Program	City engineering staff conducted presentations at schools and students learned about engineering practices and high priority water quality issues.	Number of schools attended – 1 Number of presentations given – 7 Number of students present – 212	Educated students on the importance of water quality
Educational Events	Valley Health Community Wellness Festival	In-person event where Public Utilities staff provides educational material on water conservation, pollution prevention, and recycling.	Educational Materials handed out - 150	Educated the public on the effects of pollution, water consumption, and improper recycling on natural resources.

#### E. MS4 Permittees Collaboration

The City did not collaborate with any other MS4 permittees during this permit cycle. The City currently does not have any plans to collaborate with other MS4 permittees but reserves the right to do so if a mutually beneficial opportunity arises.

## V. Minimum Control Measure 3 – Illicit Discharge Detection and Elimination

#### A. Confirmation Statement

The City confirms that the MS4 map and information table have been updated to reflect any changes to the MS4 occurring on or before June 30 of this reporting year.

#### **B. Outfalls Screened**

The City conducted dry weather screening on fifty (50) MS4 outfalls annually using procedures included in the Illicit Discharge Detection and Elimination (IDDE) Standard Operating Procedures Manual. No suspect discharges were found at any of the fifty (50) outfalls.

#### C. Illicit Discharges

The City continues to track and document suspect and illicit discharges, as well as City investigation, follow-up, and enforcement actions in accordance with procedures included in the Illicit Discharge Detection and Elimination (IDDE) Standard Operating Procedures Manual. During this reporting period, the City investigated twelve (12) reports of illicit discharges, all of which were followed up on and eventually closed. A tracking spreadsheet depicting the suspect and illicit discharges has been included in Appendix 1.

## VI. Minimum Control Measure 4 – Construction Site Stormwater Runoff Control

#### A. Confirmation Statement

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

The City continues to require permits for land disturbing activities including a VSMP authority permit through Chapter 9 of the City Code. Access to a downloadable Land Disturbance Permit Package and Virginia Stormwater Management Program Permit Package is provided on the City website at <a href="https://www.winchesterva.gov/engineering/permits">https://www.winchesterva.gov/engineering/permits</a>.

The City confirms that all land disturbing projects that occurred during this reporting period have been conducted in accordance with the current department approved standards and specifications for erosion and sediment control.

#### **B. Inspections Performed**

The City continues to maintain an inspection program pursuant to 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 two thousand, seven hundred seventy-eight (2,578) inspections were conducted across all construction sites located within the City.

#### C. Enforcement Actions

No erosion and sediment control enforcement actions were required during this reporting period.

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

#### A. Virginia Stormwater Management Program Information

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). The following link is provided on the City's web page directing citizens to Chapter 9 of the City Code: <a href="https://www.winchesterva.gov/engineering">https://www.winchesterva.gov/engineering</a>. Access is also provided to a downloadable Virginia Stormwater Management Program Permit Package using the link <a href="https://www.winchesterva.gov/engineering/permits">https://www.winchesterva.gov/engineering/permits</a> provided on the City Engineering web page. The City continues to maintain a post development stormwater management facility inspection program in accordance with Section 9-67 of the City Code and requires inspections once every five years by City personnel, and annual self-inspections by owners.

#### **B. Privately Owned Stormwater Management Facility Inspections**

During this reporting period, one hundred and eighty (180) private BMPs were requested to be self-inspected by their owners; of that number, the City received responses and self-certifications for sixty (60) BMPs. The City performed inspections on forty-five (45) private BMPs.

#### C. Privately Owned Stormwater Management Facility Enforcement Actions

During this reporting period, zero (0) of the forty-five (45) private BMPs inspected by the City failed inspection.

#### D. Public Stormwater Management Facilities Inspections

During this reporting period, thirty-six (36) City owned BMPs were inspected. A spreadsheet with the results can be found in Appendix 5.

## E. Significant Maintenance, Repair, or Retrofit Activities on Stormwater Management Facilities

Thirty-six (36) City owned/operated stormwater management facilities were inspected in this reporting period and all facilities were found to be within normal operating condition and no significant maintenance, repair, or retrofit activities were needed beyond that of routine maintenance. A tracking spreadsheet depicting the City's publicly owned stormwater management facility maintenance logs has been included in Appendix 5.

## F. Virginia Construction Stormwater General Permit Database Confirmation Statement

For all projects that require coverage under the General VPDES Permit for Discharges of Stormwater from Construction Activities pursuant to Part I.E.5.f of the Construction General Permit, the City reviews all applicable information provided by applicants pertaining to any site stormwater management facilities and enters that information into the Virginia Construction Stormwater General Permit database.

#### **G. Electronic Reporting Confirmation Statement**

The City confirms that all best management practices (BMPs) were reported in accordance with Part I.E.5.f of the General VPDES Permit For Discharges Of Stormwater From Small Municipal Separate Storm Sewer Systems, and no best management practices (BMPs) were eligible to be submitted under Part I.E.5.g.

## VIII. Minimum Control Measure 6 – Pollution Prevention and Good Housekeeping for Municipal Operations

## A. Operation Procedures Summary

The City developed written Standard Operating Procedures (SOPs) for Daily Good Housekeeping and Pollution Prevention during Permit Year 2 of the 2013-2018 permit cycle. The Pollution Prevention/Good Housekeeping for Municipal Operations - Standard Operating Procedures provides guidance for City staff. The Standard Operating Procedures documents are included in Appendix 6.

#### **B. New SWPPPs Summary**

At the direction of DEQ, the SWPPP for the City Yard facility was updated during this reporting period. The revised SWPPP is included in Appendix #4 of this report.

#### C. Modified SWPPPs Summary

The City has modified the City Yards SWPPP but has not delisted it as a high priority facility.

#### D. Nutrient Management Plans Summary

The City has not developed any new turf or landscape nutrient management plans during this permit year.

#### **E. Training Events Summary**

Online training developed and used throughout the duration of the pandemic is provided to staff on April 1 and is required to be completed by June 30. All four modules previously presented in the City's in-person training are incorporated. These modules require all trainees to take a 10-question quiz and obtain a 75% pass rate for the participant to be counted. The modules that were incorporated are as follows:

- Training Module #1 Recognition and Reporting of Illicit Discharges
- Training Module #2 Pollution Prevention for Road, Street, and Parking Maintenance
- Training Module #3 Pollution Prevention for Fleet and Public Works Facilities
- Training Module #4 Minimizing Stormwater Pollution Practices for Parks and Recreational Facilities

Sixty-Three (63) City employees were trained in this program year. The City expects to use this online training in the coming years due to the efficiency and convenience of online learning and the capabilities of the application.

## IX. Chesapeake Bay TMDL Special Conditions Requirements

#### A. Non-Reported BMPs

The City confirms that all best management practices (BMPs) were reported in accordance with Part I.E.5.f of the General VPDES Permit For Discharges Of Stormwater From Small Municipal Separate Storm Sewer Systems, and no best management practices (BMPs) were eligible to be submitted under Part I.E.5.g.

#### **B. Credit Acquisitions**

A Nutrient Credit Exchange Agreement between the City of Winchester and Frederick-Winchester Service Authority (FWSA) was finalized on June 20, 2023. This credit agreement secures the acquisition and use of Total Nitrogen (TN) and Total Phosphorus (TP) credits for the purposes of compliance with the Chesapeake Bay TMDL loading reductions of the city's MS4 VPDES permit, including credits generated by the FWSA by discharging less TN and TP than are permitted under the Watershed General Permit. As such, the City has acquired credits during the reporting period to meet the required reductions in Part II A 3, A 4, or A5. Transfer credits for TN, TP, and TSS in the amount of 1,353.06 lbs., 192.82 lbs., and 167,311.60 lbs. respectively were obtained from the Frederick-Winchester Service Authority to be applied toward their Chesapeake Bay

reduction goals. The credit purchase invoice and annual water quality credit transfer form have been included as Appendix 8.

## **C. Cumulative Reduction Progress**

The City has summarized the progress toward meeting the required cumulative reductions for total nitrogen, total phosphorus, and total suspended solids in Table 3 below:

Table 3. Overall Chesapeake Bay TMDL Reduction Progress

			FY23 Re	porting Period (	Year 5)				
Pollutant	Subsourc e	40% Total Reductio ns Required Second Permit Cycle (lbs./yr.)	Sum of 40% cumulative Reduction Requireme nt (lbs./yr.)	Reduction Achieved: City Projects/Progra ms	Remainin g Credits from the 5% Cumulati ve Reductio n to be Applied to This Permit Cycle (lbs./yr.)	Reduction to be Obtained (lbs./yr.)	Credit Transfer (lbs./yr.)	Amount Remaini ng (lbs./yr.)	
Nitrogen	Regulate d Urban Impervio us	1431.95	2120.49	982.81	215.39	1,353.06	1,353.06	0.00	
	Regulate d Urban Pervious	688.54							
Phosphor us	Regulate d Urban Impervio us	244.60	278.48	112.10	26.44	192.82	192.82	0.00	
	Regulate d Urban Pervious	33.87							
Total Suspende d Solids	Regulate d Urban Impervio us	221071.1 9	238600.90	97,793.29	26,503.9 9	167,311. 60	167,311. 60	0.00	
	Regulate d Urban Pervious	17529.71			9	60	60	0.00	

### D. BMP Implementation Summary

**X.** No new BMP's have been implemented during the FY23 reporting period.

## **Local TMDL Special Conditions Requirements**

#### A. Summary of Actions

The City of Winchester currently has two (2) Local TMDLs, they are as follows:

- 1.) Abrams Creek Sediment
- 2.) Lower Opequon Creek Sediment

The City has developed a comprehensive plan for addressing its local TMDL requirements in the *Abrams Creek and Lower Opequon Creek Combined Sediment and Bacteria TMDL Action Plan (*Permit Number VAR040053), which has been approved by DEQ. The City continues to enhance its public education, outreach, and employee training programs. The City also continues to implement its BMP management strategy for controlling the POC loads and is on track to accomplish its goals and milestone set forth in the report.

APPENDIX 1: Illicit Discharge Detection and Elimination Tracking (IDDE)

ID#	DATE	TIME	CONTACT NAME	PHONE NUMBER	APPROX. ADDRESS OF DISCHARGE	DESCRIPTION OF EVENT
IDR23-001	7/27/2022	1:15PM	Carie Holbrook	540-323-4787	3050 Valley Ave Winchester VA 22601	Around 1pm today, we received correspondence from the property manager at 3050 Valley Ave regarding a spill incident which occurred on July 16, 2022. Peru's Chicken, located at 3050 Valley Ave had a grease removal contractor out to pump their system when there was a malfunction with the hose on the truck, causing used grease to spray across a section of parking lot near a storm inlet and inside the dumpster enclosure. The contractor laid down an absorbent material to clean up and came back the next day to sweep up. It is unknown at this time if any grease made it down the storm drain. Peru's will be issued a written inspection report for illicit discharge and given 7 days to rectify the lingering issue. 08/12/2022 UPDATE I revisited this site and have confirmed appropriate clean-up methods have been taken and this issue is resolved.
IDR23-002	8/25/2022	approx. 5pm	Don Riggleman	540-550-2986	101 N Loudoun St Winchester VA 22601	Union Jack Pub was in the process of pumping the grease trap at this establishment when the hose fell, discharging an unknown amount of used grease onto the ground. Once the issue was found, operations ceased and clean-up efforts began. Crews utilized Sta-Dri, as shown in the photos for absorbtion. Mr. Riggleman advised the on-site crew to permanently repair a hole in the fence next to the grease trap to help prevent any future spills from reaching the storm drain.
IDR23-003	9/7/2022	Approx. 3:50 PM	Bill Cain/Carie Holbrook	540-533-3382	101 N Loudoun St Winchester VA 22601	This is a residual effect of the 8/25/2022 event in that grease was apparently a contaminate in the leaf litter (natural organics) accumulating atop the grease storage unit. Recent rains appear to have washed residual grease from the organics which collected at the inlet in the adjacent parking area. Staff committed to cleaning the area with rags and sorbent once the rains subside.
IDR23-004	11/11/2022	Approx. 10:20 AM	Bill Cain	504-533-3382	450 Smithfield Ave. Winchester, VA 22601	Fire and rescue responded to a vehicle accident at Smithfield Ave and Kern St today where a vehicle had stuck another and both vehicles struck the telephone pole at the intersection. One of the vehicles sustained damage resulting in chemical spill on the roadway. With the wet streets and continuing rain, some sheen was noted entering the stormwater system on both sides of Smithfield Ave in the area of Shenandoah Sanitation Supply at 450 Smithfield Ave. We did deploy absorbent to limit actual chemical involvement but the sheen was present prior to our arrival and I'm sure for some time after our departure.
IDR23-005	2/1/2023	1:00PM	Carie Holbrook	540-323-4787	46 E Piccadilly St Winchester VA 22601	I received a group message from the City's Parking Division Manager regarding employees at Piccadilly Diner washing their kitchen mats out on the sidewalk. Upon my arrival, the cleaning process was finished but there was soapy water across the sidewalk and in an isolated area of the gutter pan. I advised the staff to use absorbent methods to clean up the soapy water and they agreed. At the time of re-inspection, the clean-up work was completed.
IDR23-006	3/18/2023	11:00AM	Carie Holbrook	540-323-4787	Intersection of North Sector Ct and Campus Blvd Winchester VA 22601	Report was received via email, see thread below:  "I wanted to make you aware that we had an accident at the intersection of North Sector Court and Campus Boulevard yesterday that involved some fluids from a vehicle that drained towards a storm drain. It did not appear that any entered the drain before we got it controlled.  It is the storm drain at the intersection that is directly under the stop sign on North Sector Court."
IDR23-007	3/23/2023	11:00AM	Mike Neese	540-667-1815 x1452	501 N Loudoun St Winchester VA 22601	The City's garage staff notified us of a spill which occurred on March 23, 2023 around 11:00am. While performing routine trash pick-up along N Loudoun St, the truck's transmission cooler line blew out of the radiator creating a spill onto the roadway. Absorbent material was immediately added to the spill area and there was no discharge into the City's storm system.
IDR23-008	4/8/2023	10:03 PM	Chase Kelly (DEQ)	267-273-8859 (C)	1944 Valley Ave Winchester VA 22601	DO reviewed report of release of ~340 kg (750lbs) PVC foam due to overfill of tank with ~ 11  kg (24 lbs) to waterway. Cleanup underway.  Confirmed VADEM received report and is passing along to DEQ and HAZMAT teams for followup. Emailing to DEQ, subarea OSCs and EPA programs for awareness. NFA by EPA  Removal. Link to report.

IDR23-009	5/13/2023	5:28 PM	Timothy Vaught	540-662-2298	707 University Dr (Shockey Dr) Winchester VA 22601	Wagon 1 responded for a small fuel spill. Arrived in the area to be met by Shenandoah Public safety officers stating their was diesel fuel in the roadway. Sheen of the fuel spanned from university drive to Ralph Shockey Dr. past the Interstate Bridges. Unknown as to the amount of fuel that was released. Wagon 1 crew took immediate action to mitigate fuel entering the waterways utilizing Sta-Dri. Battalion 6 arrived on scene and made appropriate notifications to HAZMAT officials. Called for leak and spill 6. Once it arrived on scene booms were placed at waterway and storm drains in affected area. Sta-Dri was applied to road surface. Once hazards were mitigated all units returned to service.
IDR23-010	5/23/2023	8:13 AM	Carie Holbrook	540-323-4787	121 N Loudoun St Winchester VA 22601	At approximately 8:13 AM, I received notification from the City's Parking Division Manager that a company was actively cleaning grease vents onto City hardscape. Upon my arrival, the crew had completed the vent cleaning, however they were washing down the pavillion area where they did the initial cleaning. I spoke to the General Manager for the cleaning company and they were advised not to repeat their work in this manner. There was no visible discharge into the City's storm system, as the wash water was flushed into the grassy area.  At this time, no follow up is warranted.
IDR23-011	6/13/2023	11:45 AM	Bill Cain	540-533-3382	2004 Valley Ave	First contacted by Eli Connell of DCR after he received a report of a sheen at the outfall of the Town Run Diversion box culverts at 2004 Valley Avenue. The complainant notified DCR that the sheen appears every time it rains, but the source of the contaminate is unknown. Staff investigation found an abandoned fuel cell in proximity to drainage inlet No. 3 (see ABRAMS CREEK FLOOD DIVERSION 002.pdf). Staff has been in contact with the president of the Company (Diane Kearns) who, though surprised of the finding, committed to properly disposing of the tank and ensuring all contaminates would be removed from the site.
IDR23-012	6/23/2023	4:48 PM	Bill Cain/Carie Holbrook	540-533-3382	605 Beau St	Winchester Fire Dept called informing staff of an oil spill in the area of 605 Beau St. at approximately 4:45pm and indicated that the street was extremly slick and posed a serious hazard to drivers. Staff visited the site and confirmed that a significant amount of an unknown petroleum product (potentially transmission fluid) was spilled on the street starting just east of Watson Ave to approximately 638 Sherlock Trace. HazMat was dispached and placed absorbent booms on the inlets immeidiately to the east of Watson, inlets to the north of 638 Sherlock, and at the system outfall behind 282/286 Green St. Sand was placed in the street to provide traction to drivers and absorbent granuals were poured in front of the booms.

APPENDIX 2: City and Privately Owned Stormwater Management BMP's

ID	Property Name	Project Address	PID	Туре	Latitude	Longitude	Owner	Owners Address	HU Code ID	Acres Treated	Constructed?	Online Date	Last Self Inspection	Last City Inspection
1	804 Amherst Street	804 Amherst Street	1276	Pervious Pavers (Concrete)	39.188156	-78.17735	804 AMHERST LLC	110 WATERSIDE LN CROSS JUNCTION, VA, 22625	17	0.08	Yes	04/30/10	03/21/23	10/30/19
2	804 Amherst Street	804 Amherst Street	1276	Grass Swale			804 AMHERST LLC	110 WATERSIDE LN CROSS JUNCTION, VA, 22625	17	0.04	Yes	04/30/10	03/21/23	
3	Aiken Strip Mall	2820 Valley Avenue	9413	Detention Basin (Dry Pond)			Aikens Group	P.O. Box 2468 Winchester, VA 22601	16	6.00	Yes	06/30/05	02/14/19	05/15/20
4	All Points Warehouse	3082 Shawnee Drive	8529	Detention Basin (Dry Pond)			All Points Properties LLC	1682 East Guide Drive, Suite 201 Rockville, MD 20850	16	8.80	Yes	06/30/05	04/19/23	
5	Allston Mews	500 Allston Cir	4532	Detention Basin (Dry Pond)			JONES MICHAEL TRUSTEE	4306 EVERGREEN LN STE 102 ANNANDALE, VA, 22003	16	0.75	Yes	06/30/05	05/28/14	
6	Allston Mews	500 Allston Cir	4532	Detention Basin (Dry Pond)			JONES MICHAEL TRUSTEE	4306 EVERGREEN LN STE 102 ANNANDALE, VA, 22003	16	0.75	Yes	06/30/05	05/28/14	05/18/20
7	American Woodmark	3102 Shawnee Drive	429	Detention Basin (Dry Pond)	39.133504	-78.18086	GRAFTON SCHOOL INC	120 BELLVIEW AVE WINCHESTER, VA, 22601	16	2.60	Yes	06/30/05	04/28/23	06/02/20
8	Amherst St. CVS	1721 Amherst Street	9286	Detention Basin (Dry Pond)			Summit Community Bank	310 N MAIN ST MOOREFIELD, WV, 26836	17	43.50	Yes	07/28/08	03/24/23	05/25/20
9	The Corners I and II	2270 Valor Drive	9227	Underground Detention	39.159248	-78.18044	Molden Real Estate Corporation	2400 Valley Avenue, Winchester, VA 22601	17	1.60	Yes			04/28/23
10	Bank of Clarke County	2555 S Pleasant Valley Road	8721	Hydrodynamic Separator			BANK OF CLARKE COUNTY	PO BOX 391 BERRYVILLE, VA, 22611	17	1.12	Yes	03/25/13	04/13/23	
11	Saturn of Winchester	3003 Valley Avenue	2284	Detention Basin (Dry Pond)	39.144267	-78.19112	O'Malley LLC	3019 Valley Avenue Winchester, VA 22601	16	3.80	Yes	06/30/05	05/14/20	05/25/20
12	Berryville Ave. CVS	840 Berryville Avenue	9404	Underground Detention	39.186634	-78.14517	GZK WINCHESTER LLC, ET. AL.	9 DUMPLIN HILL LANE HUNTINGTON, NY, 11743	17	1.10	Yes	06/30/07		05/25/20
14	Byrd Office Building	2913 Valley Avenue	1503	Detention Basin (Dry Pond)	39.149286	-78.18891	WINCHESTER MEDICAL CENTER INC	220 CAMPUS BLVD SUITE 310 WINCHESTER, VA, 22601	16	2.06	Yes	02/27/08	12/21/18	05/02/23
17 Ce	dar Creek Grade Office Complex	905 Cedar Creek Grade	8947	Filterra			Dinapoli Properties, LLC	905 Cedar Creek Grade Winchester, VA 22601	17	0.36	Yes	02/27/07	05/21/20	10/29/19
18 Ce	dar Creek Grade Office Complex	905 Cedar Creek Grade	8947	Filterra			Treybul Co., LLC	817 Cedar Creek Grade, Suite 120 Winchester, VA 22601	17	0.48	Yes	02/27/07	05/14/20	10/29/19
19 Ce	dar Creek Grade Office Complex	905 Cedar Creek Grade	8947	Filterra			Dinapoli Properties, LLC	905 Cedar Creek Grade Winchester, VA 22601	17	0.48	Yes	02/27/07	05/21/20	10/29/19
20 Ce	dar Creek Grade Office Complex	817 Cedar Creek Grade	8941	Filterra			Dinapoli Properties, LLC	905 Cedar Creek Grade Winchester, VA 22601	17	0.61	Yes	02/27/07	05/21/20	10/29/19

								817 Cedar Creek Grade,						
21	Cedar Creek Grade Office Complex	817 Cedar Creek Grade	8941	Filterra			Treybul Co., LLC	Suite 120 Winchester, VA 22601	17	0.78	Yes	02/27/07	05/14/20	10/29/19
22	Centre at Winchester - Home Depot, Target (2320 Legge Boulevard)	2320 Legge Boulevard	8306	Detention Basin (Dry Pond)	39.154745	-78.16592	P D K WINCHESTER LC/C/O DIERMAN REALTY GROUP	1313 DOLLEY MADISON BLVD STE 401 MCLEAN, VA, 22101	17	8.50	Yes	06/30/15	06/20/14	05/18/20
23	Southside Church of Christ (3136 Papermill Road)	3136 Papermill Road	9846	General Infiltration Practice	39.142031	-78.17244	Southside Church of Christ	3136 Papermill Road Winchester, VA 22601	17	0.75	Yes	11/01/17	03/27/23	06/02/20
26	Ft. Collier Rd. Food Lion [now Shop N Save] (699 -723 Fort Collier Road)	699 Fort Collier Road	6047	Detention Basin (Dry Pond East)	39.18747	-78.14315	Kentland Foundation Inc.	P.O. Box 879, Berryville, VA 22611	17	20.20	Yes	06/30/05	06/01/20	05/19/20
27	Dermatology Associates (1514 Amherst Street)	1514 Amherst Street	8479	Detention Basin (Dry Pond)	39.191484		Dermatology Properties, LC	1514 Amherst Street Winchester, VA 22601	17	5.20	Yes	06/30/05	04/04/23	05/02/23
28	Drissi Plaza (29-35 East Jubal Early Drive)	35 East Jubal Early Drive	9412	Underground Detention	39.166181		D'AREZZO REAL ESTATE #2 LLC	4200 LONG MEADOW RD MIDDLETOWN, VA, 22645	17	2.10	Yes	06/30/05	03/30/23	
29	Ft. Collier Rd. Food Lion [now Shop N Save] (699 -723 Fort Collier Road)	699 Fort Collier Road	6047	Detention Basin (Dry Pond West)	39.188022	-78.14437	Kentland Foundation Inc.	P.O. Box 879, Berryville, VA 22611	17	20.20	Yes	06/30/05	06/01/20	05/19/20
30	Ft. Collier Rd. Food Lion [now Shop N Save] (699 -723 Fort Collier Road)	699 Fort Collier Road	6047	Detention Basin (Dry Pond East)	39.18747	-78.14315	Kentland Foundation Inc.	P.O. Box 879, Berryville, VA 22611	17	20.20	Yes	06/30/05	06/01/20	05/19/20
31	East Tevis Street Extension	231 Crossover Blvd	9137	Enhanced Extended Detention Basin (West)	39.150602	-78.17402	Glaize Developments	P.O. Box 888 Winchester, VA 22604	17	23.06	Yes		03/30/23	05/18/20
32	East Tevis Street Extension	231 Crossover Blvd	9137	Enhanced Extended Detention Basin (East)	39.148706	-78.16915	Glaize Developments	P.O. Box 888 Winchester, VA 22604	17	59.76	Yes		02/14/19	
33	FCPS Admin Annex (1415 Amherst Street)	1415 Amherst Street	9882	Rain Garden	39.189503	-78.18698	FREDERICK CO SCHOOL BOARD	PO BOX 3508 WINCHESTER, VA, 22604	17	0.10	Yes	11/01/11	05/18/20	
34	FCPS Admin Annex (1415 Amherst Street)	1415 Amherst Street	9882	Dry Swale	39.189266	-78.18698	FREDERICK CO SCHOOL BOARD	PO BOX 3508 WINCHESTER, VA, 22604	17	0.10	Yes	11/01/11	05/18/20	
35	Featherbed Lane - Lot 3	80 Featherbed Lane		Filterra	39.165148	-78.17002	Windewald Enterprises, LLC	1025 WINCHESTER AVE MARTINSBURG, WV, 25401	17	0.38	Yes		04/12/23	
36	Featherbed Lane - Lot 3	80 Featherbed Lane		Filterra	39.165141	-78.16995	Windewald Enterprises, LLC	1025 WINCHESTER AVE MARTINSBURG, WV, 25401	17	0.38	Yes		04/12/23	
37	Featherbed Lane - Lot 3	80 Featherbed Lane		Bioretention Basin	39.165945	-78.16941	Windewald Enterprises, LLC	1025 WINCHESTER AVE MARTINSBURG, WV, 25401	17	1.20	Yes	03/01/2016	04/12/23	05/13/20
38	Fern Adams Building (303 South Loudoun Street)	303 S Loudoun Street	8351	Underground Detention	39.181083	-78.16738	AFLP-FAB LLC	303 South Loudoun Street Winchester, VA 22601	17	0.47	Yes	06/30/05	02/06/19	05/19/20
39	Burke Center (2-40 Weems Lane)	2 Weems Lane	8377	Detention Basin (Dry Pond)	39.162219	-78.17545	PINE-BURKE REALTY LLC	36 WEEMS LN WINCHESTER, VA, 22601	17	7.10	Yes	06/30/05	03/29/23	05/15/20
43	Subaru of Winchester	3019 Valley Avenue	2284	Dry Pond	39.145328	-78.19094	O'MALLEY LLC	3019 VALLEY AVE		0	No			
44	Trinity Express Lube	2409 Valley Avenue	9758	Detention Basin (Dry Pond)	39.159419	-78.18606	KGA HOLDINGS LLC	37360 JOHN MOSBY HIGHWAY, MIDDLEBURG, VA, 20117	17	0.81	Yes	06/30/05	03/21/23	04/27/23

Harvest Drive Medical	501 W Jubal Early	8477	Filterra	39.169146	-78.18233	519 WJE LLC	PO BOX 3592 Winchester, VA 22604	17	0.53	Yes	12/11/12	04/28/23	05/14/20
Harvest Drive Medical	501 W Jubal Early	8477	Filterra	39.16927	-78.18284	519 WJE LLC	PO BOX 3592 Winchester, VA 22604	17	0.51	Yes	12/11/12	04/28/23	05/14/20
Harvest Drive Medical	501 W Jubal Early	8477	Filterra	39.169999	-78.18353	519 WJE LLC	PO BOX 3592 Winchester, VA 22604	17	0.17	Yes	12/11/12	04/28/23	05/14/20
Harvest Drive Medical	501 W Jubal Early	8477	Filterra	39.169914	-78.18357	519 WJE LLC	PO BOX 3592 Winchester, VA 22604	17	0.16	Yes	12/11/12	04/28/23	05/14/20
Harvest Drive Medical	501 W Jubal Early	8477	Filterra	39.168616	-78.18254	519 WJE LLC	PO BOX 3592 Winchester, VA 22604	17	0.14	Yes	12/11/12	04/28/23	05/14/20
Harvest Drive Medical	501 W Jubal Early	8477	Filterra	39.168825	-78.18328	519 WJE LLC	PO BOX 3592 Winchester, VA 22604	17	0.49	Yes	12/11/12	04/28/23	05/14/20
Harvest Drive Medical	501 W Jubal Early	8477	Filterra	39.168924	-78.18341	519 WJE LLC	PO BOX 3592 Winchester, VA 22604	17	0.78	Yes	12/11/12	04/28/23	05/14/20
Harvest Drive Medical	501 W Jubal Early	8477	Pervious Pavers (Concrete)	39.169637	-78.18225	519 WJE LLC	PO BOX 3592 Winchester, VA 22604	17	1.50	Yes	12/11/12	04/28/23	05/14/20
Henkel-Harris	2983 South Pleasant Valley Road	2660	Detention Basin (Dry Pond)	39.143359	-78.18057	2983 S PLEASANT VALLEY ROAD LLC	114 N CAMERON ST WINCHESTER, VA, 22601	16	30.10	Yes	06/30/05	04/28/23	06/02/20
High End Automotive	2970 Valley Avenue	6938	Detention Basin (Dry Pond)	39.146126	-78.18848	2970 VALLEY AVE LLC	915 FAIRWAY DR, VIENNA, VA, 22180	16	0.55	Yes	04/19/07	01/28/16	05/15/20
High End Automotive	2970 Valley Avenue	6938	Bioretention Filter	39.145957	-78.18867	2970 VALLEY AVE LLC	915 FAIRWAY DR, VIENNA, VA, 22180	16	0.55	Yes	04/19/07	01/28/16	
Hilton Garden Inn	120 Wingate Drive	5340	Underground Detention	39.16586	-78.16767	Lucky 7 LP-LLP	1025 MARTINSBURG PIKE WINCHESTER, VA, 22603	17	5.50	Yes	12/04/06	04/15/23	05/13/20
Hirschberg Office Building	1818 Amherst Street	8492	General Infiltration Practice	39.192591	-78.19088	Neurosurgical Investment Properties	1818 Amherst Street Winchester, VA 22601	17	1.10	Yes	06/30/05	04/24/23	
Orchard Hills Section 7A	1946 Cidermill Lane	9614	General Infiltration Practice	39.170378	-78.19202	AJIBIKE OPEOLUWA MIRIAM/OTTI ALEX	1946 CIDERMILL LN WINCHESTER, VA, 22601	17	1.20	Yes		05/26/20	05/25/20
Hope Drive Site Plan	321 Hope Drive	9073	Detention Basin (Dry Pond)	39.157285	-78.18203	Zolivia Properties, LLC	21 S. Loudoun Street Winchester VA 22601	16	2.69	Yes	07/12/11	06/16/20	
Islamic Society of Winchester	601 Woodstock Lane	9570	Permeable Pavement (Concrete, Asphalt)	39.182427	-78.15324	Islamic Society of Winchester	601 Woodstock Lane Winchester, VA 22601	17	0.20	Yes	09/01/10	04/01/23	05/25/20
Shenandoah University, Sarah's Glen	1460 University Drive	9895	Pervious Pavers (Concrete)	39.166104	-78.15891	Shenandoah University	1460 University Drive Winchester, VA 22601	17	YES	YES	01/21/13	03/09/18	05/02/23
John Handley Parking Lot	338 Handley Boulevard	9819	Underground Detention	39.178975	-78.17407	HANDLEY BOARD OF TRUSTEES	P O BOX 58 WINCHESTER, VA, 22604	17	0.00	YES	01/30/07	06/28/13	05/02/23
John Handley Bowl	425 Handley Boulevard	9820	Underground Detention	39.175891	-78.17123	HANDLEY BOARD OF TRUSTEES	P O BOX 58 WINCHESTER, VA, 22604	17	4.83	YES	02/02/11	06/28/13	05/02/23
	Harvest Drive Medical  Henkel-Harris  High End Automotive  High End Automotive  Hilton Garden Inn  Hirschberg Office Building  Orchard Hills Section 7A  Hope Drive Site Plan  Islamic Society of Winchester  Shenandoah University, Sarah's Glen  John Handley Parking Lot	Harvest Drive Medical 501 W Jubal Early  Henkel-Harris 2983 South Pleasant Valley Road  High End Automotive 2970 Valley Avenue  High End Automotive 2970 Valley Avenue  Hilton Garden Inn 120 Wingate Drive  Hirschberg Office Building 1818 Amherst Street  Orchard Hills Section 7A 1946 Cidermill Lane  Hope Drive Site Plan 321 Hope Drive  Islamic Society of Winchester 601 Woodstock Lane  Shenandoah University, Sarah's Glen 1460 University Drive	Harvest Drive Medical 501 W Jubal Early 8477  Henkel-Harris 2983 South Pleasant Valley Road 2660  High End Automotive 2970 Valley Avenue 6938  High End Automotive 2970 Valley Avenue 6938  Hilton Garden Inn 120 Wingate Drive 5340  Hirschberg Office Building 1818 Amherst Street 8492  Orchard Hills Section 7A 1946 Cidermill Lane 9614  Hope Drive Site Plan 321 Hope Drive 9073  Islamic Society of Winchester 601 Woodstock Lane 9570  Shenandoah University, Sarah's Glen 338 Handley Boulevard 9819	Harvest Drive Medical 501 W Jubal Early 8477 Filterra  Harvest Drive Medical 501 W Jubal Early 8477 Filterra  Harvest Drive Medical 501 W Jubal Early 8477 Filterra  Harvest Drive Medical 501 W Jubal Early 8477 Filterra  Harvest Drive Medical 501 W Jubal Early 8477 Filterra  Harvest Drive Medical 501 W Jubal Early 8477 Filterra  Harvest Drive Medical 501 W Jubal Early 8477 Filterra  Harvest Drive Medical 501 W Jubal Early 8477 Pervious Pavers (Concrete)  Henkel-Harris 2983 South Pleasant Valley Road 2660 Detention Basin (Dry Pond)  High End Automotive 2970 Valley Avenue 6938 Detention Basin (Dry Pond)  High End Automotive 2970 Valley Avenue 6938 Bioretention Filter  Hilton Garden Inn 120 Wingate Drive 5340 Underground Detention  Hirschberg Office Building 1818 Amherst Street 8492 General Infiltration Practice  Orchard Hills Section 7A 1946 Cidermill Lane 9614 General Infiltration Practice  Hope Drive Site Plan 321 Hope Drive 9073 Detention Basin (Dry Pond)  Islamic Society of Winchester 601 Woodstock Lane 9570 Permeable Pavement (Concrete, Asphalt)  Shenandoah University, Sarah's Glen 1460 University Drive 9895 Pervious Pavers (Concrete)	Harvest Drive Medical   So1 W Jubal Early   8477   Filterra   39.169999     Harvest Drive Medical   So1 W Jubal Early   8477   Filterra   39.169999     Harvest Drive Medical   So1 W Jubal Early   8477   Filterra   39.169914     Harvest Drive Medical   So1 W Jubal Early   8477   Filterra   39.169914     Harvest Drive Medical   So1 W Jubal Early   8477   Filterra   39.168816     Harvest Drive Medical   So1 W Jubal Early   8477   Filterra   39.168825     Harvest Drive Medical   So1 W Jubal Early   8477   Pervious Pavers (Concrete)   39.169324     Harvest Drive Medical   So1 W Jubal Early   8477   Pervious Pavers (Concrete)   39.16937     Henkel-Harris   2983 South Pleasant Valley Road   2660   Detention Basin (Dry Pond)   39.143359     High End Automotive   2970 Valley Avenue   6938   Detention Basin (Dry Pond)   39.145957     Hilton Garden Inn   120 Wingale Drive   5340   Underground Detention   39.16986     Hirschberg Office Building   1818 Amherst Street   8492   General Infiltration Practice   39.170378     Hope Drive Site Plan   321 Hope Drive   9073   Detention Basin (Dry Pond)   39.157285     Islamic Society of Winchester   601 Woodstock Lane   9570   Permeable Pavement (Concrete, Asphalt)     John Handley Parking Lot   338 Handley Boulevard   9819   Underground Detention   39.16904	Harvest Drive Medical   S01 W Jubal Early   8477   Filterra   39.16997   -78.18353	Harvest Drive Medical 501 W Jubal Early 577 Filterra 39.169090 78.18284 519 WJE LLC  Harvest Drive Medical 501 W Jubal Early 577 Filterra 39.169090 78.18353 519 WJE LLC  Harvest Drive Medical 501 W Jubal Early 577 Filterra 39.169091 78.18357 519 WJE LLC  Harvest Drive Medical 501 W Jubal Early 577 Filterra 39.169014 78.18357 519 WJE LLC  Harvest Drive Medical 501 W Jubal Early 577 Filterra 39.168015 78.18254 519 WJE LLC  Harvest Drive Medical 501 W Jubal Early 577 Filterra 39.168015 78.18328 519 WJE LLC  Harvest Drive Medical 501 W Jubal Early 577 Filterra 39.168015 78.18328 519 WJE LLC  Harvest Drive Medical 501 W Jubal Early 577 Filterra 39.168015 78.18328 519 WJE LLC  Harvest Drive Medical 501 W Jubal Early 577 Filterra 39.168015 78.18328 519 WJE LLC  Harvest Drive Medical 501 W Jubal Early 577 Filterra 39.168015 78.18328 519 WJE LLC  Harvest Drive Medical 501 W Jubal Early 577 Filterra 39.168015 78.18328 519 WJE LLC  Harvest Drive Medical 501 W Jubal Early 577 Filterra 39.168015 78.18328 519 WJE LLC  Harvest Drive Medical 501 W Jubal Early 577 Filterra 39.168015 78.18328 519 WJE LLC  Harvest Drive Medical 501 W Jubal Early 577 Filterra 39.168015 78.18328 519 WJE LLC  Harvest Drive Medical 501 W Jubal Early 577 Filterra 39.168016 78.18328 519 WJE LLC  Harvest Drive Medical 501 W Jubal Early 577 Filterra 39.168016 78.18328 519 WJE LLC  Harvest Drive Medical 501 W Jubal Early 578 Determine Basin (Dry Pond) 59.168024 78.18388 519 WJE LLC  High End Automotive 2970 Valley Avenue 5938 Bioretention Filter 39.16807 78.18888 2970 VALLEY AVE LLC  Hilton Garden Inn 59.168016 78.188017 78	Parcest Drive Medical   Sol W Jubel Early   Service   Service	Harvest Drive Medical   Set W Jubel Larly   847   Filters   38 16924   78 16254   519 WJE LLC   PO BOX 3592   17	Herman Drive Medical   S01 W Inhal Early   S477   Filters   39 19927   7-9 19296   519 WJE LLC   Whomeland, WA 20004   17   0.51	Horsest Direction   Section   Sect	Herman Chree Medical   30.1 Model and   247   Filteria   30.1 EEEE   78, 10.20   50 WWE FLIC   100 DOC 5025   17	Particular Description   Sulf Workshor   Sul

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72	John Handley Tennis	338 Handley Boulevard	9819	Underground Detention	39.178673	-78.17391	Winchester Public School Board	12 N. Washington Street Winchester, VA 22601	17	0.24	YES	02/02/11	06/28/13	05/02/23
73	Jubal Early Plaza I - Lot 2	21 West Jubal Early Drive	8186	Detention Basin (Dry Pond)	39.165893	-78.17295	CRAUN LLC	PO BOX 3124594 SIOUX FALLS, SD, 57186	17	4.22	YES	06/30/05	06/25/20	
74	Jubal Early Plaza II - Lot 9	1820 West Plaza Drive	8917	Detention Basin (Dry Pond)	39.167638	-78.17245	BILILIU LLC	214 TAGGART DRIVE WINCHESTER, VA, 22602	17	4.22	YES	06/30/05	04/06/18	
75	KSR LLC	210 East Clifford Street	1470	Sand Filter	39.180735	-78.16314	The Townes at Kent HOA	210 South Kent Street Winchester, VA 22601	17	0.12	YES	01/29/07	04/01/23	
76	Shenandoah University, Sarah's Glen	1460 University Drive	9895	Pervious Pavers (Concrete)	39.166055	-78.15918	Shenandoah University	1460 University Drive Winchester, VA 22601	17	2.51	YES	01/21/13	03/09/18	06/12/17
77	Limestone Court	2610 Hockman Avenue	3956	Detention Basin (Dry Pond)	39.156306	-78.188	White Properties of Winchester, Inc.	720 S BRADDOCK ST WINCHESTER, VA, 22601	17	0.00	YES	06/30/05		09/18/14
78	Linden Drive Office Park	136 Linden Drive	9142	Detention Basin (Dry Pond)	39.193051	-78.18962	DELAMA LLC	22770 MOUNTVILLE WOODS DR ASHBURN, VA, 20148	17	0002	Yes	40616		05/02/23
79	Linden Heights Animal Hospital	274 Linden Drive	175	Bioretention	39.194882	-78.18827	SCHMITT PROPERTIES LLC	377 MARGARITAVILLE AVE S HARDEEVILLE, SC, 29927	17	1.34	YES	03/14/11	02/13/19	
80	Linden Medical Center	172 Linden Drive	9455	Detention Basin (Dry Pond)	39.194399	-78.18873	KGA HOLDINGS LLC	37360 JOHN MOSBY HIGHWAY MIDDLEBURG, VA, 20117	17	4.40	YES	06/12/07	01/02/19	04/07/23
81	Lowes	2200 South Pleasant Valley Road	8324	Detention Basin (Dry Pond)	39.159651	-78.17048	LOWE'S HOME CENTER INC	1000 LOWE'S BLVD MOORESVILLE, NC, 28117	17	13.50	YES	06/30/05	01/02/19	06/02/20
82	Lowes	2200 Legge Boulevard	7917	Detention Basin (Dry Pond)	39.157265	-78.16417	CDP LEGGE BLVD LLC	230 COURT SQ STE 202 CHARLOTTESVILLE, VA, 22902	17	19.70	YES	06/30/05	01/02/19	05/24/18
83	Madison Center	320 Hope Drive	9225	Detention Basin (Dry Pond)	39.158136	-78.18349	SAREENA CORPORATION	1372 LANCIA DRIVE MCLEAN, VA, 22102	17	0.78	YES	01/07/08	03/22/17	04/07/23
84	Madison Center	320 Hope Drive	9225	Bioretention Filter	39.158161	-78.18302	SAREENA CORPORATION	1372 LANCIA DRIVE MCLEAN, VA, 22102	17	0.20	YES	01/07/08	03/22/17	04/07/23
85	Madison Center	320 Hope Drive	9225	Bioretention Filter	39.158145	-78.1828	SAREENA CORPORATION	1372 LANCIA DRIVE MCLEAN, VA, 22102	17	0.20	YES	01/07/08	03/22/17	04/07/23
86	Madison Center	320 Hope Drive	9225	Bioretention Filter	39.158003	-78.18206	SAREENA CORPORATION	1372 LANCIA DRIVE MCLEAN, VA, 22102	17	0.20	YES	01/07/08	03/22/17	04/07/23
87	Madison Center	320 Hope Drive	9225	Bioretention Filter	39.157985	-78.18283	SAREENA CORPORATION	1372 LANCIA DRIVE MCLEAN, VA, 22102	17	0.20	YES	01/07/08	03/22/17	04/07/23
88	Madison Center	320 Hope Drive	9225	Underground Detention	39.157933	-78.18288	SAREENA CORPORATION	1372 LANCIA DRIVE MCLEAN, VA, 22102	17	1.80	YES	01/07/08	03/22/17	04/07/23
89	Madison Place I	3018 Shawnee Drive	1055	Detention Basin (Dry Pond)	39.138834	-78.17546	Madison Winds, LLC	P.O. Box 2468 Winchester, VA 22604	16	5.53	YES	12/20/05	02/14/19	05/18/20
90	McDonald's - Berryville Ave.	1124 Berryville Avenue	8373	Underground Detention	39.185669	-78.14081	MCDONALDS USA LLC	PO BOX 182571 COLUMBUS, OH, 43218	17	0.60	YES	06/30/05	04/28/23	06/02/20

91	McKinley Office Building	700 Fort Collier Road	8474	Detention Basin (Dry Pond)	39.186471	-78.14204	TEE SPOT REACHING HIGHER /HEIGHTS LLC	175 GREENWOOD RD WINCHESTER, VA, 22602	17	3.20	YES	06/30/05	04/11/23	05/02/23
94	Orchard Terrace	282 Green Street	8676	Detention Basin (Dry Pond)	39.194229	-78.15399	HARDESTY WAYNE/HARDESTY JESSICA	282 GREEN ST WINCHESTER, VA, 22601	18	6.40	Yes			06/03/20
95	Our Health - Phase II	401 North Cameron Street	5591	Pervious Pavers (Concrete)	39.187978	-78.16349	KING JERRY W	831 S DUKE ST YORK, PA, 17403	17	0.08	Yes	05/28/10	07/03/13	05/02/23
96	Panera	2605 South Pleasant Valley Road	8581	Filterra	39.153133	-78.17663	Glaize Developments	P.O. Box 888 Winchester, VA 22604	16	0.12	Yes	39251	43510	10/31/19
97	Panera	2605 South Pleasant Valley Road	8581	Filterra	39.152903	-78.17645	Glaize Developments	P.O. Box 888 Winchester, VA 22604	16	0.51	Yes	06/18/07	02/14/19	10/31/19
98	Panera	2605 South Pleasant Valley Road	8581	Filterra	39.152637	-78.17704	Glaize Developments	P.O. Box 888 Winchester, VA 22604	16	0.34	Yes	06/18/07	02/14/19	10/31/19
99	Panera	2605 South Pleasant Valley Road	8581	Detention Basin (Dry Pond)	39.153003	-78.17711	Glaize Developments	P.O. Box 888 Winchester, VA 22604	16	0.34	Yes	06/18/07	02/14/19	10/31/19
101	Patriot Collision Center	3064 Shawnee Drive	5727	Underground Detention	39.136831	-78.17983	BIRLS LLC	C/O WILLIAM EMERSON JR 874 HUTSON RD DRY FORK, VA, 24549	16	1.20	Yes	06/30/05	04/07/23	05/31/17
102	Rubbermaid Building Expansion	3124 Valley Avenue	2954	Detention Basin (Dry Pond)	39.142937	-78.1843	NEWELL BRANDS INDUSTRIES LLC	6655 PEACHTREE DUNWOODY RD ATLANTA, GA, 30328	16	0.00	Yes	06/25/12	05/19/20	04/07/23
103	Pine-Burke Apartments	2 Taft Avenue	1972	Underground Detention (North)	39.158508	-78.17682	PINE-BURKE REALTY LLC	36 WEEMS LN WINCHESTER, VA, 22601	17	0.47	Yes	06/30/05	03/29/23	
104	Pine-Burke Apartments	3 Taft Avenue	7916	Underground Detention (South)	39.1583	-78.17675	PINE-BURKE REALTY LLC	36 WEEMS LN WINCHESTER, VA, 22601	17	0.47	Yes	06/30/05	03/29/23	
105	JD Byrider	1930 South Loudoun Street 6025 Extended De		Extended Detention Basin	39.163419	-78.17175	MMAC2 LLC	100 REMEY AVE WINCHESTER, VA, 22602	17	1.41	Yes	04/02/12	03/20/23	
106	Popeye's	2659 Valley Avenue	3958	Underground Detention	39.152669	-78.18834	Christina Tseng	160 Lenz Lane Stephens City, VA 22655	16	0.93	Yes	06/12/07	04/14/23	05/02/23
108	Rolling Hills Subdivision	612 Lake Drive	9386	Detention Basin (Dry Pond)	39.152412	-78.19068	RICHMOND AMERICAN HOMES OF VA	12220 SUNRISE VALLEY DR STE 400 RESTON, VA, 20191	16	54.70	Yes	08/24/12	01/02/19	05/02/23
109	Major Properties	150 W Commercial Street	9789	Pervious Pavers (Concrete)	39.195868	-78.16324	MAJOR PROPERTIES	150 W COMMERCIAL ST WINCHESTER, VA, 22601	17	0.72	Yes	42153	05/12/23	05/02/23
112	Shawnee Fire Department	2210 Valor Drive	8569	Detention Basin (Dry Pond)	39.160719	-78.17992	Shawnee Volunteer Fire Dept	2210 Valor Drive Winchester, VA 22601	17	20.30	Yes	06/30/05	05/26/20	
113	Stone Ridge Development	412 South Loudoun Street	9657	Pervious Pavers (Concrete)	39.179884	-78.16653	EISENACH PERRY	412 S LOUDOUN ST WINCHESTER, VA, 22601	17	0.18	Yes		03/09/16	
115	812 Amherst Street	812 Amherst Street	9600	Pervious Pavers (Concrete)	39.18867	-78.17763	PLAN PROPERTIES LLC	19763 SPYGLASS HILL CT, ASHBURN, VA, 20147	17	0.14	Yes	08/31/10	01/07/19	05/19/20
116	Sorrel Court	2946 Sorrell Court	7606	Detention Basin (Dry Pond)	39.147335	-78.18553	OAKCREST PROPERTIES LLC	126 N KENT ST WINCHESTER, VA, 22601	16	4.80	Yes	06/30/05	04/12/23	06/04/20

117	Spencer Square	2856 Spencer Square	8185	Detention Basin (Dry Pond)	39.147994	-78.18318	MELCO INC	1401 RAMSEUR LANE WINCHESTER, VA, 22601	16	1.50	Yes	06/30/05	05/14/20	06/04/20
119	Stonecrest Village	415 Russelcroft Road	4425	Detention Basin (Dry Pond)	39.153714	-78.18483	STONECREST VILLAGE HOMEOWNERS ASSOC	2045 VALLEY AVE STE 100 WINCHESTER, VA, 22601	16	87.00	Yes	06/30/05	04/11/23	05/14/20
120	Stutzman Body Shop	2725 Valley Avenue		Underground Detention	39.150884	-78.18846	MALLOY PROPERTIES III LLC	2700 VALLEY AVE WINCHESTER, VA, 22601	16	1.10	Yes	08/28/09	01/18/19	05/13/20
121	SU Student Center Addendum (1460 University Drive)	1460 University Drive	9895	Pervious Pavers (Concrete)	39.167767	-78.15714	Shenandoah University	1460 University Drive Winchester, VA 22601	17	0.40	Yes	07/10/08	03/09/18	05/02/23
122	Summerfield Apartments (900 - 975 Summerfield Lane)	961 Summerfield Lane	329	Detention Basin (Dry Pond)	39.164888	-78.19209	SUMMERFIELD LLC	1573 COMMERCE ST WINCHESTER, VA, 22601	17	5.40	Yes	06/30/05	04/14/23	
123	812 & 830 Amherst Street	830 Amherst Street	3442	Pervious Pavers (Concrete)	39.188473	-78.17793	Amherst Street Condo Association, Inc.	830 Amherst Street Winchester, VA 22601	17	0.24	Yes	08/31/10	04/26/23	
125	Sun Trust Bank	1738 Amherst Street	4853	Underground Detention	39.192119	-78.18976	FARMERS & MERCHANTS BANK	PO BOX 1111, TIMBERVILLE, VA, 22853	17	1.00	Yes	06/30/05	05/14/20	
126	TGI Friday's	2600 South Pleasant Valley Road	9138	Hydrodynamic Separator	39.152137	-78.17587	Glaize Developments	P.O. Box 888 Winchester, VA 22604	16	1.30	Yes	07/23/07	02/14/19	
127	TGI Friday's	2600 South Pleasant Valley Road	9138	Hydrodynamic Separator	39.152049	-78.17546	Glaize Developments	P.O. Box 888 Winchester, VA 22604	16	1.23	Yes	07/23/07	02/14/19	
128	TGI Friday's	2600 South Pleasant Valley Road	9138	Extended Detention Basin	39.152	-78.1758	Glaize Developments	P.O. Box 888 Winchester, VA 22604	16	1.30	Yes	07/23/07	02/14/19	
129	TGI Friday's	2600 South Pleasant Valley Road	9138	Extended Detention Basin	39.15187	-78.17538	Glaize Developments	P.O. Box 888 Winchester, VA 22604	16	1.23	Yes	07/23/07	02/14/19	
130	The Corners I and II	2270 Valor Drive	9227	Underground Detention	39.159624	-78.1803	JKLEE SERVICES LLC	PO BOX 1694 WINCHESTER, VA, 22604	17	1.51	Yes	09/30/08	12/30/18	
131	Timberlake Office Building	900 South Pleasant Valley Road	8407	Filterra	39.174724	-78.15681	GROVE HILL LLC	PO BOX 131, BOYCE VA, 22620	17	0.24	Yes	11/27/06	04/28/23	05/19/20
132	Timberlake Office Building	900 South Pleasant Valley Road	8407	Filterra	39.174794	-78.157	GROVE HILL LLC	PO BOX 131, BOYCE VA, 22620	17	0.22	Yes	11/27/06	04/28/23	
133	Valley Ave. Food Lion	2584 Valley Avenue	4784	Detention Basin (Dry Pond)	39.15684	-78.18446	Kentland Foundation Inc.	P.O. Box 879, Berryville, VA 22611	17	20.70	Yes	12/19/06	06/01/20	
134	Valley Mortgage	2654 Valley Avenue	1182	Detention Basin (Dry Pond)	39.153801	-78.18606	DOUBLE J HOLDINGS LLC	2654 VALLEY AVE STE J WINCHESTER, VA, 22601	16	58.00	Yes	06/30/05	07/09/20	
135	Limestone Court	2658 Limestone Court	8770	Detention Basin (Dry Pond)	39.154787	-78.18821	DAVIS GRANT	160 FRANKIE DR RICHMOND, KY, 40475	17	18.30	Yes	06/30/05	03/27/23	05/13/20
136	Valor Drive Site Plan	2233 Valor Drive	9502	Detention Basin (Dry Pond)	39.160674	-78.18138	Alejandro Orfila	C/O EDWIN F MARKOWITZ P O BOX 1182 MIDDLEBURG VA 20118	17	3.44	Yes	05/15/06	05/18/20	05/15/20
137	Valor View Shopping Center	2301 Valor Drive	9226	Underground Detention	39.158667	-78.18201	PRO Properties, LLC	588 Stoney Mountain Drive, Strasburg, VA 22657	17	1.36	Yes	12/03/10	04/23/18	05/02/23

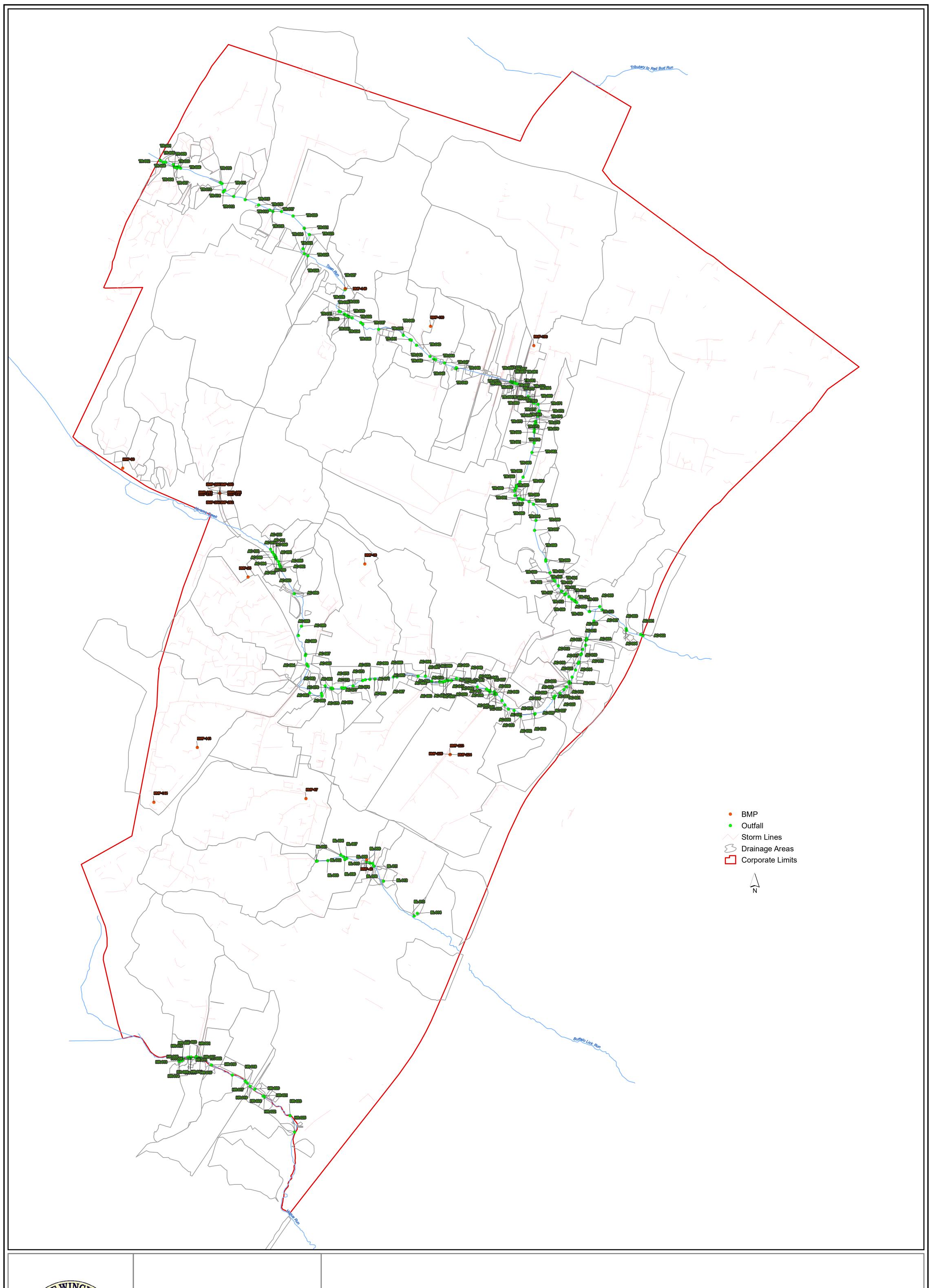
138	Valor View Shopping Center	2301 Valor Drive	9226	Bioretention Basin	39.158516	-78.1819	PRO Properties, LLC	588 Stoney Mountain Drive, Strasburg, VA 22657	17	0.59	Yes	12/03/10	04/23/18	05/02/23
139	Northside Station	823 North Loudoun Street	1282	General Infiltration Practice	??	??	Pari Plaza LLC	7204 Hickory Street Falls Church, VA 22043	18	1.60	Yes	06/30/05	04/24/23	06/03/20
140	Walmart	2350 South Pleasant Valley Road	7832	Detention Basin (Dry Pond)	39.15811	-78.17115	WAL-MART REALTY COMPANY	P O BOX 8050 MS 0555, BENTONVILLE, AR, 72712	17	19.40	Yes	06/30/05	03/22/23	10/30/19
141	Walnut Street Extension Subdivision	400 Walnut Street	9347	Grass Swale	39.183472	-78.14063	Don Packard Jr. Inc	2400 Valley Avenue, Winchester, VA 22601	17	1.24	Yes	09/26/05	03/29/23	06/03/20
147	Winchester Medical Center	1840 Amherst Street	9936	Retention Basin (Wet Pond)	39.196412	-78.18933	Winchester Medical Center	ATTN ACCOUNTING DEPT PO BOX 3340 WINCHESTER, VA, 22604	17	57.00	Yes	06/30/05	04/08/16	04/07/23
148	Winchester Medical Center	1840 Amherst Street	9936	Retention Basin (Wet Pond)	39.191528	-78.19586	Winchester Medical Center	ATTN ACCOUNTING DEPT PO BOX 3340 WINCHESTER, VA, 22604	17	57.00	Yes	06/30/05	04/08/16	04/07/23
149	Winchester Medical Center	1840 Amherst Street	9936	Retention Basin (Wet Pond)	39.191645	-78.19443	Winchester Medical Center	ATTN ACCOUNTING DEPT PO BOX 3340 WINCHESTER, VA, 22604	17	57.00	Yes	06/30/05	04/08/16	04/07/23
150	405 West Ln	406 West Ln	9756	Pervious Pavers (Concrete)	39.187981	-78.160463	Residential	406 West Ln	17	0.45	yes	4/5/2023		
151	Glaize Pleasant Valley Commercial	2600 South Pleasant Valley Road	9138	Hydrodynamic Separator			Glaize Developments Inc	P.O. Box 888 Winchester, VA 22604	16	0.67	Yes		02/14/19	
152	405 West Ln	402 West Ln	9755	Pervious Pavers (Concrete)	39.187872	-78.16051	Residential	402 West Ln	17	0.45	yes	4/5/2023		
153	405 West Ln	t Ln 403 West Ln 9754 Pervious Pavers (Concrete) 39.1877		39.187752	-78.159987	Residential	403 West Ln	17	0.45	yes	4/5/2023			
154	405 West Ln	407 West Ln	9959	Pervious Pavers (Concrete)	39.187859	-78.159948	Residential	407 West Ln	17	0.45	yes	4/5/2023		
155	405 West Ln	411 West Ln	9950	Pervious Pavers (Concrete)	39.187955	-78.159915	Residential	411 West Ln	17	0.45	yes	4/5/2023		
156	Museum of The Shenandoah Valley	901 Amherst St	9985	Permeable Pavers	39.186317	-78.18002	Museum of the Shenandoah Valley	901 AMHERST STREET	17	2.5	Yes	4/20/2023		
157	Museum of The Shenandoah Valley	901 Amherst St	9985	Underground Stormwter Management	39.186317	-78.18002	Museum of the Shenandoah Valley	901 AMHERST STREET	17	54.92	Yes	4/20/2023		
158	Museum of The Shenandoah Valley	901 Amherst St	9985	Natural Wetlands	39.186994	-78.17604	Museum of the Shenandoah Valley	901 AMHERST STREET	17	84.52	Yes	4/20/2023		
161	FCPS Admin Building Addition	1415 Amherst Street	9882	Filterra	39.190154	-78.18702	FREDERICK CO SCHOOL BOARD	PO BOX 3508 WINCHESTER, VA, 22604	17	0.20	Yes	11/01/11	05/18/20	
163	Harvest Drive Medical	501 Harvest Drive	8477	Grass Swale	39.168707	-78.18209	519 WJE LLC	PO BOX 3592 WINCHESTER, VA, 22604	17	0.21	Yes		04/28/23	05/14/20
164	Harvest Drive Medical	501 Harvest Drive	8477	Grass Swale	39.16856	-78.18289	519 WJE LLC	PO BOX 3592 WINCHESTER, VA, 22604	17	3.09	Yes		04/28/23	05/14/20

165	Medical Circle Imaging	125 Medical Circle	2702	Filterra	39.190731	-78.18118	NEUROLOGICAL PROPERTIES LLC	125 MEDICAL CIR WINCHESTER, VA, 22601	17	0.00	Yes	09/14/05	06/16/20	05/02/23
166	Medical Circle Imaging	125 Medical Circle	2702	Filterra	39.190432	-78.18155	NEUROLOGICAL PROPERTIES LLC	125 MEDICAL CIR WINCHESTER, VA, 22601	17	0.00	Yes	09/14/05	06/16/20	05/02/23
167	Medical Circle Imaging	125 Medical Circle	2702	Underground Detention	39.190479	-78.18159	NEUROLOGICAL PROPERTIES LLC	125 MEDICAL CIR WINCHESTER, VA, 22601	17	0.00	Yes	09/14/05	06/16/20	05/02/23
168	Omps Pet Crematory	1600 Amherst Street		Bioretention Filter	39.192674	-78.18663	Omps Funeral Home	1600 Amherst Street Winchester, VA 22601	17	4.57	Yes	08/04/11	05/14/20	05/02/23
169	Rubbermaid Storage Area	3124 Valley Avenue	2954	Grass Swale	39.142293	-78.18459	NEWELL BRANDS INDUSTRIES LLC	6655 PEACHTREE DUNWOODY RD ATLANTA, GA, 30328	16	0.49	Yes	07/12/13	05/19/20	04/07/23
170	Rubbermaid Storage Area	3124 Valley Avenue	2954	Grass Swale	39.141827	-78.18485	NEWELL BRANDS INDUSTRIES LLC	6655 PEACHTREE DUNWOODY RD ATLANTA, GA, 30328	16	0.27	Yes	07/12/13	05/19/20	04/07/23
180 8	Spanish United Pentecostal Church	672 Virginia Avenue	9878	Pervious Pavers (Concrete)	39.186149	-78.15169	Spanish United Pentecostal Church Trustees	672 Virginia Avenue Winchester, VA 22601	17	0.23	Yes	04/30/13	06/01/20	05/02/23
182	TGI Friday's	2600 South Pleasant Valley Road	9138	Filterra	39.15241	-78.17518	Glaize Developments	P.O. Box 888 Winchester, VA 22604	16	0.33	Yes	39286	43510	05/18/20
183	City National Bank	1830 Valley Avenue	9582	Underground Detention	39.168986	-78.17841	CITY NATIONAL BANK OF WEST VIRGINIA	25 GATEWATER RD CROSS LANES, WV, 25356	17	0.29	Yes	08/20/13	07/23/20	
184	City National Bank	1830 Valley Avenue	9582	Filterra	39.169136	-78.17829	CITY NATIONAL BANK OF WEST VIRGINIA	25 GATEWATER RD CROSS LANES, WV, 25356	17	0.21	Yes	08/20/13	07/23/20	05/13/20
185	City National Bank	1830 Valley Avenue	9582	Filterra	39.169155	-78.17905	CITY NATIONAL BANK OF WEST VIRGINIA	25 GATEWATER RD CROSS LANES, WV, 25356	17	0.29	Yes	08/20/13	07/23/20	05/13/20
186	Cedar Hill Apartments	2250 Sofia Way	9604	Filterra	39.161974	-78.18833	Cornerstone, LP LLP	PO BOX 2468 WINCHESTER, VA, 22604	17	0.38	Yes		02/14/19	
187	Cedar Hill Apartments	2250 Sofia Way	9604	Filterra	39.161699	-78.18845	Cornerstone, LP LLP	PO BOX 2468 WINCHESTER, VA, 22604	17	0.25	Yes		02/14/19	
188	Cedar Hill Apartments	2250 Sofia Way	9604	Filterra	39.161505	-78.1882	Cornerstone, LP LLP	PO BOX 2468 WINCHESTER, VA, 22604	17	0.25	Yes		02/14/19	
189	Cedar Hill Apartments	2250 Sofia Way	9604	Filterra	39.162078	-78.18882	Cornerstone, LP LLP	PO BOX 2468 WINCHESTER, VA, 22604	17	0.25	Yes		02/14/19	
190	Cedar Hill Apartments	2250 Sofia Way	9604	Grass Swale	39.161353	-78.18852	Cornerstone, LP LLP	PO BOX 2468 WINCHESTER, VA, 22604	17	0.20	Yes		02/14/19	05/15/20
191	Roberts Street Plaza Parking	1811 Roberts Street	7566	Filterra	39.16852	-78.17819	DAVE HOLLIDAY RENTALS LLC	420 W JUBAL EARLY DR STE 103 WINCHESTER, VA, 22601	17	0.33	Yes		06/01/20	05/14/20
192	Winchester Marketplace	1551 S Pleasant Valley Road	7311	Filterra	39.167285	-78.16402	COOK-OUT SHENANDOAH INC	PO BOX 698 THOMASVILLE, NC, 27361	17	0.12	Yes	09/30/15	02/12/19	04/07/23
193	Winchester Marketplace	1531 Pleasant Valley Road	7311	Filterra	39.167549	-78.16417	SL WINCHESTER LLC	C/O HYUNG JOO KIM 2935 FOX MILL MANOR DR OAKTON, VA, 22124	17	0.37	Yes	09/30/15	04/04/23	04/07/23

194	Winchester Marketplace	1531 Pleasant Valley Road	7311	Filterra	39.167822	-78.16454	SL WINCHESTER LLC	C/O HYUNG JOO KIM 2935 FOX MILL MANOR DR OAKTON, VA, 22124	17	0.12	Yes	09/30/15	04/04/23	04/07/23
195	Winchester Marketplace	1551 S Pleasant Valley Road	7311	Filterra	39.167049	-78.16419	COOK-OUT SHENANDOAH INC	PO BOX 698 THOMASVILLE, NC, 27361	17	0.11	Yes	09/30/15	05/26/20	04/07/23
196	Winchester Marketplace	1551 S Pleasant Valley Road	7311	Filterra	39.167121	-78.16457	COOK-OUT SHENANDOAH INC	PO BOX 698 THOMASVILLE, NC, 27361	17	0.21	Yes	09/30/15	02/12/19	04/07/23
197	Winchester Marketplace	1551 S Pleasant Valley Road	7311	Filterra	39.167268	-78.16474	COOK-OUT SHENANDOAH INC	PO BOX 698 THOMASVILLE, NC, 27361	17	0.28	Yes	09/30/15	02/12/19	04/07/23
198	Winchester Marketplace	1531 Pleasant Valley Road	7311	Filterra	39.168119	-78.16426	SL WINCHESTER LLC	C/O HYUNG JOO KIM 2935 FOX MILL MANOR DR OAKTON, VA, 22124	17	0.08	Yes	09/30/15	04/04/23	04/07/23
199	Winchester Marketplace	1531 Pleasant Valley Road	7311	Filterra	39.168222	-78.16408	SL WINCHESTER LLC	C/O HYUNG JOO KIM 2935 FOX MILL MANOR DR OAKTON, VA, 22124	17	0.42	Yes	09/30/15	04/04/23	04/07/23
215	Chuck E. Cheese's	2600 South Pleasant Valley Road	9138	Filterra	39.152534	-78.17436	Glaize Developments	P.O. Box 888 Winchester, VA 22604	16	0.25	Yes		02/14/19	05/18/20
216	Chuck E. Cheese's	2600 South Pleasant Valley Road	9138	Filterra	39.152334	-78.17396	Glaize Developments	P.O. Box 888 Winchester, VA 22604	16	0.29	Yes		02/14/19	05/18/20
217 S	VEC South Winchester Substation	21 Shingleton Lane	9610	General Infiltration Practice	39.162766	-78.1751	Shenandoah Valley Electric Cooperative	PO BOX 236 MOUNT CRAWFORD, VA, 22841	17	9.30	Yes		04/20/23	
218	Trinity Auto Center	2409 Valley Avenue	9758	Bioretention Basin	39.159371	-78.18596	Grasso & Sons Development Corp.	2425 Valley Avenue, Winchester, VA 22601	17	0.67	Yes	41512	03/21/23	05/31/17
219	Gateway Center	1705 Amherst Street	9631	Cartridge Filter	39.19094	-78.18916	PELL INVESTMENT PROPERTIES LLC	1370 MERRIMANS LN WINCHESTER, VA, 22602	17	0.16	Yes		03/01/16	
220	Gateway Center	1705 Amherst Street	9631	Underground Detention	39.19125	-78.18873	PELL INVESTMENT PROPERTIES LLC	1370 MERRIMANS LN WINCHESTER, VA, 22602	17	1.46	Yes		03/01/16	
221	Gateway Center	1705 Amherst Street	9631	Cartridge Filter	39.191153	-78.18814	PELL INVESTMENT PROPERTIES LLC	1370 MERRIMANS LN WINCHESTER, VA, 22602	17	1.46	Yes		03/01/16	
222	Gateway Center	1705 Amherst Street	9631	Detention Basin (Dry Pond)	39.190075	-78.18776	PELL INVESTMENT PROPERTIES LLC	1370 MERRIMANS LN WINCHESTER, VA, 22602	17	0.77	Yes		03/01/16	05/19/20
226	118 St. James Place	118 East James Street	6635	Bioretention Basin	39.175774	-78.16648	MELLING JOHN H/MELLING JUANITA G	5607 HOPKINS CEMETERY RD FELTON, DE, 19943	17	0.04	Yes	10/27/14	05/15/23	
227	118 St. James Place	120 East James Street	9456	Bioretention Basin	39.175774	-78.16648	MELLING JOHN H/MELLING JUANITA G	5607 HOPKINS CEMETERY RD FELTON, DE, 19943	17	0.04	Yes	10/28/14	03/30/18	
228	118 St. James Place	122 East James Street	9457	Bioretention Basin	39.175774	-78.16648	NEWTON MARGARET TRUSTEE	225 RIBBON RD SUMMERVILLE, SC, 29483	17	0.04	Yes	10/29/14	04/05/23	
229	118 St. James Place	124 East James Street	9458	Bioretention Basin	39.175774	-78.16648	TROUT JOHN	124 E JAMES STREET WINCHESTER, VA, 22601	17	0.15	Yes	10/30/14	05/14/20	05/18/20
230	Stewart Street Properties	120 South Stewart Street	1719	Bioretention Filter	39.18322	-78.17042	Kilmer & Associates, CPA, P.C.	120 South Stewart Street Winchester, VA 22601	17	0.55	Yes	06/24/15	04/10/23	04/07/23
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231	WMC Cancer Center	1840 Amherst Street	9936	Cartridge Filter	39.197537	-78.18821	Winchester Medical Center	ATTN ACCOUNTING DEPT PO BOX 3340 WINCHESTER, VA, 22604	17	2.65	Yes	08/25/16		04/07/23
232	New John Kerr Elementary School	427 Meadowbranch Avenue	9645	Bioretention Basin	39.187093	-78.19104	SCHOOL BOARD CITY/WINCHESTER	12 N. Washington Street Winchester, VA 22601	17	1.19	Yes	01/12/17	03/27/23	04/07/23
233	New John Kerr Elementary School	427 Meadowbranch Avenue	9645	Bioretention Basin	39.186552	-78.19269	SCHOOL BOARD CITY/WINCHESTER	12 N. Washington Street Winchester, VA 22601	17	1.24	Yes	01/12/17		04/07/23
234	New John Kerr Elementary School	427 Meadowbranch Avenue	9645	Bioretention Basin	39.187695	-78.19205	SCHOOL BOARD CITY/WINCHESTER	12 N. Washington Street Winchester, VA 22601	17	4.42	Yes	01/12/17	03/27/23	05/16/18
235	Dixie Beverage	2705 South Pleasant Valley Road		Bioretention Basin: LVL 1	39.150193	-78.17895	Shenandoah Valley Distributing Company	2705 South Pleasant Valley Road Winchester, VA 22601	16	0.6	Yes	42339	43965	10/29/19
236	Dixie Beverage	2705 South Pleasant Valley Road		Bioretention Basin: LVL 1	39.150452	-78.17847	Shenandoah Valley Distributing Company	2705 South Pleasant Valley Road Winchester, VA 22601	16	1	Yes	42339	43965	10/29/19
237	Dixie Beverage	2705 South Pleasant Valley Road		Bioretention Basin: LVL 1	39.150966	-78.17796	Shenandoah Valley Distributing Company	2705 South Pleasant Valley Road Winchester, VA 22601	16	0.5	Yes	42339	43965	10/29/19
239	Storage Solutions	403 Battaile Drive	1663	Filterra	39.140653	-78.17792	Storage Solutions of Winchester, LLC	1520 Commerce Street Winchester, VA 22601	16	0.36	Yes		5/26/2020	10/29/19
240	Storage Solutions	403 Battaile Drive	1663	Filterra	39.140616	-78.17803	Storage Solutions of Winchester, LLC	1520 Commerce Street Winchester, VA 22601	16	0.37	Yes		5/26/2020	10/29/19
241	Storage Solutions	403 Battaile Drive	1663	Filterra	39.139807	-78.1783	Storage Solutions of Winchester, LLC	1520 Commerce Street Winchester, VA 22601	16	0.26	Yes		5/26/2020	10/29/19
242	Storage Solutions	403 Battaile Drive	1663	Filterra	39.139771	-78.17826	Storage Solutions of Winchester, LLC	1520 Commerce Street Winchester, VA 22601	16	0.53	Yes		5/26/2020	10/29/19
243	Storage Solutions	403 Battaile Drive	1663	Detention Basin (Dry Pond)	39.139871	-78.17846	Storage Solutions of Winchester, LLC	1520 Commerce Street Winchester, VA 22601	16	2.34	Yes		5/26/2020	10/29/19
269	Malloy Toyota	400 Weems Lane	3821	Detention Basin (Dry Pond)	39.162649	-78.18316	Malloy Properties V, LLC	400 Weems Lane Winchester, VA 22601	17	0.20	Yes		04/26/23	06/08/20
271	Westminster Canterbury Shenandoah Valley	300 Westminster Canterbury Drive	9937	Filterra	39.200743	-78.17567	Westminster Canterbury - Shenandoah Valley	300 Westminster Cantebury Dr, Winchester, VA 22601		0.60	Yes		N	lone Thus Fa
272	Denstock Meadow Branch LLC	450 Ridgewood Ln	9667	Bioretention Filter	39.186156	-78.19088	DENSTOCK MEADOW BRANCH LLC	1430 ROLKIN CT SUITE 201 CHARLOTTESVILLE, VA, 22911						05/12/20
273	Denstock Meadow Branch LLC	450 Ridgewood Ln	9667	Infiltration Area 1	39.186123	-78.19015	DENSTOCK MEADOW BRANCH LLC	22911 1430 ROLKIN CT SUITE 201 CHARLOTTESVILLE, VA, 22911						05/12/20
274	Denstock Meadow Branch LLC	450 Ridgewood Ln	9667	Infiltration Area 3	39.186613	-78.18908	DENSTOCK MEADOW BRANCH LLC	22911 1430 ROLKIN CT SUITE 201 CHARLOTTESVILLE, VA, 22911						05/12/20

**APPENDIX 3: MS4 Service Area** 





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

CITY OF WINCHESTER
MS4 SERVICE AREA

SCALE: 1 " = 900 '
DATE: 8/25/2021

Current City ID	MS4 Outfall ID (Unique Identifier)	Latitude	Longitude	HUC6	Туре	Material	Dimension (in)	Impaired	TMDL Developed	Receiving Stream	Suspect Discharge / High Risk (Yes / No) (Automatic Selection)	Watershed Priority	Date of Last Screening
154	AC-001	39.1674784	-78.1543319	PU17	Closed	Metal	15	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	05/11/20
155	AC-002	39.1675366	-78.1545055	PU17	Closed	Metal	15	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	05/13/20
156	AC-003	39.1677894	-78.1556589	PU17	Open Channel	Concrete	24	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23
157	AC-004	39.1678964	-78.155694	PU17	Closed	PVC	24	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	05/11/21
158	AC-005	39.1690988	-78.1576381	PU17	Closed	Metal	12	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23
159	AC-006	39.1693082	-78.1578251	PU17	Closed	Metal	12	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	05/13/20
160	AC-007	39.1683918	-78.1583078	PU17	Closed	Metal	18	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/21/22
161	AC-008	39.1673048	-78.1589063	PU17	Closed	Metal	24	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	05/11/21
162	AC-009	39.1672172	-78.1588946	PU17	Closed	Metal	24	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	05/11/21
163	AC-010	39.1671836	-78.1589707	PU17	Open Channel	Earthen	36	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	05/11/21
164	AC-011		-78.1589741	PU17	Open Channel	Earthen	36	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	05/11/21
165	AC-012	39.1666062	-78.1592245	PU17	Closed	Metal	18	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	05/11/21
166	AC-013	39.16632	-78.159333	PU17	Closed	Metal	48 (24*2)	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	05/13/20
167	AC-014	39.1662748	-78.1593737	PU17	Closed	Metal	24	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/02/21
168	AC-015	39.1658175	-78.1595234	PU17	Closed	Metal	12	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	05/11/20
169	AC-016	39.1657239	-78.1595824	PU17				Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23
170	AC-017	39.1653051	-78.1598075	PU17	Open Channel	Concrete	24	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23
171	AC-018	39.1648579	-78.1600844	PU17	Open Channel	Concrete	24	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/02/21
172	AC-019	39.1644884	-78.1602377	PU17	Open Channel	Concrete	24	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/02/21
173	AC-020	39.1644946	-78.1602702	PU17	Closed	Metal	18	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/02/21
174	AC-021	39.1644877	-78.1603322	PU17	Open Channel	Concrete	24	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/21/22
175	AC-022	39.1645577	-78.1603266	PU17 PU17	Closed	Metal	12	Yes Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	05/13/20
176 177	AC-023 AC-024	39.1645808 39.1642474	-78.1603272 -78.1605417	PU17	Closed Open Channel	Metal Concrete	48 36	Yes	Sediment, Fecal Coliform Sediment, Fecal Coliform	Abrams Creek Abrams Creek	No No	1	06/02/21 05/11/21
178	AC-024 AC-025	39.1640725	-78.160749	PU17	Closed	Concrete	60	Yes	Sediment, Fecal Coliform	Abrams Creek  Abrams Creek	No	1	06/21/22
179	AC-026	39.1638289	-78.161089	PU17	Closed	Concrete	15	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/02/21
180	AC-020 AC-027	39.1636784	-78.1614812	PU17	Closed	Metal	6	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/02/21
181	AC-027 AC-028	39.1635898	-78.161587	PU17	Closed	Metal	6	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/02/21
182	AC-029		-78.161567	PU17	Closed	Metal	15	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/02/21
183	AC-030	39.16253	-78.1631316	PU17	Closed	Concrete	18	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23
184	AC-031	39.1625687	-78.1631082	PU17	Closed	Concrete	15	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	05/01/20
185	AC-032		-78.1642815	PU17	Closed	Concrete	12	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	05/11/21
186	AC-033		-78.1648034	PU17	Closed	PVC	12	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	05/13/20
187	AC-034	39.162854	-78.1652766	PU17	Closed	Concrete	12	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/02/21
188	AC-035	39.1631145	-78.1655508	PU17	Open Channel	Concrete	48	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/02/21
189	AC-036	39.1633974	-78.1657864	PU17	Closed	Metal	6	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23
190	AC-037		-78.1663817	PU17	Closed	Concrete	18	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	05/11/21
191	AC-038		-78.1662407	PU17	Closed	PVC	6	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/21/22
192	AC-039		-78.1662755	PU17	Closed	PVC	4	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	05/11/21
193	AC-040	39.1638992	-78.1663964	PU17	Closed	PVC	8	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/21/22
194	AC-041	39.1639232	-78.1663814	PU17	Closed	Metal	6	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	05/11/20
195	AC-042	39.1639497	-78.166413	PU17	Closed	Concrete		Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/21/22
196	AC-043	39.1639418	-78.1667603	PU17	Closed	Metal	18	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/21/22
197	AC-044	39.164024	-78.1667496	PU17	Closed	Metal	18	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23
198	AC-045	39.1640233	-78.1668544	PU17	Closed	Metal	15	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	05/01/20
199	AC-046	39.1641172	-78.1670272	PU17	Closed	Concrete	24	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	05/11/21
200	AC-047	39.1642582	-78.1677881	PU17	Closed	Concrete	15	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	05/11/20
201	AC-048	39.164575	-78.1682526	PU17	Closed	PVC	18	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/02/21

Ver.6/2014

Current City ID	MS4 Outfall ID (Unique Identifier)	Latitude	Longitude	HUC6	Туре	Material	Dimension (in)	Impaired	TMDL Developed	Receiving Stream	Suspect Discharge / High Risk (Yes / No) (Automatic Selection)	Watershed Priority	Date of Last Screening
202	AC-049	39.1647207	-78.1689111	PU17	Closed	PVC	6	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/02/21
203	AC-050	39.1647282	-78.1690456	PU17	Closed	PVC	18	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/02/21
204	AC-051	39.1647613	-78.1691799	PU17	Closed	Concrete	21	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	05/01/20
205	AC-052	39.164801	-78.1694742	PU17	Closed	Metal	46	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23
206	AC-053	39.1646798	-78.1698641	PU17	Open Channel	PVC	12	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	05/11/20
207	AC-054	39.164675	-78.1701157	PU17	Closed	PVC	4	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/02/21
208	AC-055	39.1646744	-78.1702666	PU17	Open Channel	Other	7	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23
209	AC-056	39.1646876	-78.1702776	PU17	Open Channel	Other	2	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/02/21
210	AC-057	39.1646703	-78.1702903	PU17	closed	PVC	6	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/21/22
211	AC-058	39.1646364	-78.1703757	PU17	closed	PVC	6	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/21/22
212	AC-059	39.1645821	-78.1705892	PU17				Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23
213	AC-060	39.1646036	-78.1704909	PU17				Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23
214	AC-061	39.1646071	-78.1708309	PU17				Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23
215	AC-062	39.1645918	-78.1708414	PU17	closed	Concrete	6	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/21/22
216	AC-063	39.1646291	-78.171477	PU17	closed	Concrete	6	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/21/22
217	AC-064	39.1649582	-78.1719884	PU17	Closed	Concrete	30	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/02/21
218	AC-065	39.1649632	-78.1725808	PU17	Closed	Concrete	30	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/02/21
219	AC-066	39.1649116	-78.1742879	PU17				Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23
220	AC-067	39.164914	-78.1745861	PU17				Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23
221	AC-068	39.1648675	-78.1750169	PU17				Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23
222	AC-069	39.1647977	-78.1760859	PU17				Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23
223	AC-070	39.1647727	-78.1764901	PU17	closed	Concrete	12	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/21/22
224	AC-071	39.1647481	-78.176856	PU17	closed	Metal	16	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/21/22
225	AC-072	39.1646881	-78.1770861	PU17	closed	PVC	4	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/21/22
226	AC-073	39.1643623	-78.1778503	PU17	closed	Concrete	18	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/21/22
227	AC-074	39.1642348	-78.1784985	PU17				Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23
228	AC-075	39.1642277	-78.1786632	PU17	closed	Concrete	18	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/21/22
229	AC-076	39.1642455	-78.1787855	PU17	closed	Concrete	18	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/21/22
230	AC-077		-78.179502					Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23
231	AC-078		-78.1795747	PU17	closed	Concrete	16	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/21/22
232	AC-079		-78.1796609	PU17				Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23
233	AC-080		-78.1801156	PU17				Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23
234	AC-081		-78.180421	PU17				Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23
235	AC-082		-78.1803913	PU17	Class 1	DVC	10	Yes	Sediment, Fecal Coliform	Abrams Creek	No No	1	04/25/23
236	AC-083		-78.1813847	PU17	Closed	PVC	18	Yes	Sediment, Fecal Coliform	Abrams Creek	No No	1	06/21/22
237	AC-084		-78.1814999 78.1816071	PU17	closed	Concrete	16	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1 1	06/21/22
238	AC-085 AC-086		-78.1816071 -78.1817194	PU17	+		+	Yes Yes	Sediment, Fecal Coliform Sediment, Fecal Coliform	Abrams Creek	No No	1	04/25/23 04/25/23
$\frac{239}{240}$	AC-086 AC-087		-78.1817194 -78.1816888	PU17 PU17	Closed	PVC	12	Yes	Sediment, Fecal Coliform Sediment, Fecal Coliform	Abrams Creek Abrams Creek	No No	1	04/25/23
240	AC-087 AC-088		-78.1822688	PU17	Closed	PVC	18	Yes			No	1	06/21/22
$\frac{241}{242}$	AC-089		-78.1820285	PU17 PU17	Ciosea	IVU	10	Yes	Sediment, Fecal Coliform Sediment, Fecal Coliform	Abrams Creek Abrams Creek	No No	1	04/25/23
243	AC-099		-78.1826029	PU17	+		<del>                                     </del>	Yes	Sediment, Fecal Coliform	Abrams Creek  Abrams Creek	No	1	04/25/23
$\frac{243}{244}$	AC-090 AC-091		-78.1836782	PU17				Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23
$\frac{244}{245}$	AC-091 AC-092		-78.1837044	PU17	Closed	PVC	12	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/21/22
$\frac{246}{246}$	AC-092 AC-093	39.171956	-78.1837556	PU17	Closed	PVC	18	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/21/22
$\frac{240}{247}$	AC-094		-78.1838092	PU17	closed	Concrete	16	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/21/22
248	AC-095	39.1722228	-78.183868	PU17	515554	231101000	10	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23
249	AC-096		-78.1840384	PU17				Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23

Ver.6/2014

Current City ID	MS4 Outfall ID (Unique Identifier)	Latitude	Longitude	HUC6	Туре	Material	Dimension (in)	Impaired	TMDL Developed	Receiving Stream	Suspect Discharge / High Risk (Yes / No) (Automatic Selection)	Watershed Priority	Date of Last Screening
250	AC-097	39.1724489	-78.1840863	PU17				Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23
251	AC-098	39.1724888	-78.1841211	PU17	Closed	PVC	12	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/21/22
252	AC-099	39.1725095	-78.184082	PU17	Closed	PVC	18	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/21/22
253	AC-100	39.1726141	-78.1841722	PU17	closed	Concrete	16	Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	06/21/22
254	AC-101	39.1726591	-78.1842287	PU17				Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23
255	AC-102	39.1728224	-78.1843719	PU17				Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23
256	AC-103		-78.1844992	PU17				Yes	Sediment, Fecal Coliform	Abrams Creek	No	1	04/25/23
140	BL-001	39.1533033	-78.1808752	PU16	Closed	Concrete	36	No	No	Buffalo Lick	No	3	02/16/22
141	BL-002	39.1533138	-78.1808124	PU16	Closed	PVC	4	No	No	Buffalo Lick	No	3	02/16/22
142	BL-003	39.1533311	-78.1799438	PU16	Closed	PVC	4	No	No	Buffalo Lick	No	3	02/16/22
143	BL-004	39.1536725	-78.1789025	PU16	Closed	PVC	18	No	No	Buffalo Lick	No	3	05/21/20
144	BL-005	39.1535775	-78.1786838	PU16	Closed	Concrete	24	No	No	Buffalo Lick	No	3	05/21/20
145	BL-006	39.1534047	-78.1785707	PU16	Closed	PVC	24	No	No	Buffalo Lick	No	3	04/25/23
146	BL-007	39.1534624	-78.1784223	PU16	Closed	Metal	36	No	No	Buffalo Lick	No	3	04/25/23
147	BL-008	39.1532609	-78.1768069	PU16				No	No	Buffalo Lick	No	3	02/16/22
148	BL-009	39.1531642	-78.1765448	PU16	Closed	PVC	12	No	No	Buffalo Lick	No	3	04/07/21
149	BL-010	39.1531416	-78.1763307	PU16	Closed	PVC	12	No	No	Buffalo Lick	No	3	04/07/21
150	BL-011	39.1529769	-78.1762197	PU16				No	No	Buffalo Lick	No	3	02/16/22
151	BL-012	39.1520212	-78.1754487	PU16	Closed	PVC	12	No	No	Buffalo Lick	No	3	04/07/21
152	BL-013	39.1498074	-78.172966	PU16	Closed	PVC	24x48	No	No	Buffalo Lick	No	3	04/07/21
153	BL-014	39.1499831	-78.1727105	PU16				No	No	Buffalo Lick	No	3	02/16/22
115	HR-001	39.1409059	-78.1904551	PU16	Closed	Concrete	24	No	No	Hogue Run	No	4	05/21/20
116	HR-002	39.1409356	-78.1906184	PU16	Closed	PVC	8 (4*2)	No	No	Hogue Run	No	4	04/07/21
117	HR-003	39.1409937	-78.1906769	PU16	Closed	PVC	2	No	No	Hogue Run	No	4	04/07/21
118	HR-004	39.1409309	-78.1907414	PU16	Closed	PVC	4	No	No	Hogue Run	No	4	04/07/21
119	HR-005	39.1409368	-78.1910875	PU16	Closed	PVC	4	No	No	Hogue Run	No	4	05/21/20
120	HR-006	39.1409034	-78.1911354	PU16	Closed	PVC	8(4*2)	No	No	Hogue Run	No	4	02/16/22
121	HR-007	39.1409163	-78.1911482	PU16	Closed	Metal	18	No	No	Hogue Run	No	4	05/21/20
122	HR-008		-78.1912463		Closed	Concrete	28	No	No	Hogue Run	No	4	02/16/22
123	HR-009		-78.1913464	PU16	Closed	Concrete	28	No	No	Hogue Run	No	4	02/16/22
124	HR-010	39.1409548	-78.1911021	PU16	Open Channel	Concrete	36	No	No	Hogue Run	No	4	05/21/20
125	HR-011	39.1408464	-78.1917747	PU16	Closed	Concrete	30	No	No	Hogue Run	No	4	02/16/22
126	HR-012	39.1407514	-78.1918173	PU16	Closed	Concrete	12	No	No	Hogue Run	No	4	05/11/20
127	HR-013	39.1407218	-78.1919855	PU16	Closed	Concrete	12	No	No	Hogue Run	No	4	04/07/21
128	HR-014	39.1406935	-78.1920746	PU16	Closed	PVC	4	No	No	Hogue Run	No	4	04/07/21
129	HR-015	39.1409034	-78.1903333	PU16				No	No	Hogue Run	No	4	04/25/23
130	HR-016	39.1404506	-78.1894501	PU16				No	No	Hogue Run	No	4	04/25/23
131	HR-017	39.1398227	-78.1877617	PU16	Closed	PVC	2	No	No	Hogue Run	No	4	04/07/21
132	HR-018	39.13943	-78.186718	PU16	Closed	Concrete	12	No	No	Hogue Run	No	4	02/16/22
133	HR-019	39.1393171	-78.1865545	PU16	Closed	Metal	4	No	No	Hogue Run	No	4	02/16/22
134	HR-020	39.1389284	-78.185949	PU16	Closed	Concrete	24	No	No	Hogue Run	No	4	02/16/22
135	HR-021	39.1384833	-78.1852654	PU16	Closed	Concrete	18	No	No	Hogue Run	No	4	02/16/22
136	HR-022	39.1384268	-78.1851494	PU16				No	No	Hogue Run	No	4	05/11/20
137	HR-023	$39.1\overline{372458}$	-78.1830864	PU16				No	No	Hogue Run	No	4	04/25/23
138	HR-024		-78.1863152	PU16				No	No	Hogue Run	No	4	05/11/20
139	HR-025		-78.1827263	PU16		<del></del>		No	No	Hogue Run	No	4	04/25/23
1	TR-001		-78.1933483	PU17	Closed	PVC	18	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/11/21
2	TR-002	39.197464	-78.193124	PU17	Closed	PVC	8	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/18/23

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Current City ID	MS4 Outfall ID (Unique Identifier)	Latitude	Longitude	HUC6	Туре	Material	Dimension (in)	Impaired	TMDL Developed	Receiving Stream	Suspect Discharge / High Risk (Yes / No) (Automatic Selection)	Watershed Priority	Date of Last Screening
3	TR-003	39.1974618	-78.1929293	PU17	Closed	PVC	18	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/11/21
4	TR-004	39.197294	-78.1922945	PU17	Closed	Concrete	15	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/21/20
5	TR-005	39.1971287	-78.1921934	PU17	Closed	PVC	6	Yes	Sediment, Fecal Coliform	Town Run	No	2	08/28/19
6	TR-006	39.1971458	-78.1920393	PU17	Closed	Concrete	60	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/01/20
7	TR-007	39.1970801	-78.1919791	PU17	Closed	Metal	15	Yes	Sediment, Fecal Coliform	Town Run	No	2	08/28/19
8	TR-008	39.1971782	-78.1918571	PU17	Closed	Concrete	48	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/18/23
9	TR-009	39.1970616	-78.1916958	PU17	Open Channel	Earthen	48	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/01/20
10	TR-010	39.1961559	-78.188476	PU17	Open Channel	Earthen	12	Yes	Sediment, Fecal Coliform	Town Run	No	2	08/28/19
11	TR-011	39.1960988	-78.1883477	PU17	Closed	PVC	15	Yes	Sediment, Fecal Coliform	Town Run	No	2	08/28/19
12	TR-012		-78.1882425	PU17	Closed	Metal	24	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/11/21
13	TR-013	39.1956748	-78.1881285	PU17	Closed	PVC	4	Yes	Sediment, Fecal Coliform	Town Run	No	2	08/28/19
14	TR-014	39.195279	-78.1873995	PU17	Closed	Metal	42	Yes	Sediment, Fecal Coliform	Town Run	No	2	08/28/19
15	TR-015	39.1950726	-78.1864657	PU17	Closed	Metal	4	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/27/20
16	TR-016	39.1947301	-78.1853778	PU17	Closed	PVC	12	Yes	Sediment, Fecal Coliform	Town Run	No	2	03/16/22
17	TR-017	39.1944218	-78.1844851	PU17	Open Channel	Earthen	24	Yes	Sediment, Fecal Coliform	Town Run	No	2	08/28/19
18	TR-018	39.1943254	-78.1842288	PU17	Closed	PVC	6	Yes	Sediment, Fecal Coliform	Town Run	No	2	08/28/19
19	TR-019	39.1943272	-78.1835322	PU17	Closed	PVC	4	Yes	Sediment, Fecal Coliform	Town Run	No	2	08/28/19
20	TR-020	39.1940318	-78.1825883	PU17	Closed	PVC	4	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/18/23
21	TR-021	39.1932612	-78.1816889	PU17	Closed	PVC	(4*4)	Yes Yes	Sediment, Fecal Coliform	Town Run	No	2	08/28/19
$\frac{22}{23}$	TR-022 TR-023	39.1932484 39.1928622	-78.1816826 -78.1812766	PU17 PU17	Closed Closed	PVC PVC	4	Yes	Sediment, Fecal Coliform Sediment, Fecal Coliform	Town Run Town Run	No No	$\frac{2}{2}$	05/11/21 08/28/19
$\frac{25}{24}$	TR-024	39.1928622	-78.1817958	PU17	Ciosea	FVC	4	Yes	Sediment, Fecal Coliform	Town Run	No	2	08/28/19
$\frac{24}{25}$	TR-024	39.1916504	-78.1817938	PU17	Closed	Clay	1	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/01/20
$\frac{25}{26}$	TR-026	39.1915158	-78.1814086	PU17	Closed	Stone	6	Yes	Sediment, Fecal Coliform	Town Run	No	2	08/28/19
$\frac{20}{27}$	TR-027	39.18938	-78.1784032	PU17	Closed	PVC	3	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/21/20
28	TR-028	39.1879943	-78.1788863	PU17	Closed	PVC	6	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/11/21
29	TR-029	39.1879748	-78.1787732	PU17	Closed	PVC	6	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/11/21
30	TR-030	39.1878331	-78.178455	PU17	Closed	PVC	(6*6)	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/11/21
31	TR-031		-78.1783813	PU17	Closed	PVC	6	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/11/20
32	TR-032	39.1877368	-78.1782255	PU17	Closed	Metal	6	Yes	Sediment, Fecal Coliform	Town Run	No	2	08/28/19
33	TR-033	39.1877009	-78.1781623	PU17	Closed	Metal	4	Yes	Sediment, Fecal Coliform	Town Run	No	2	08/28/19
34	TR-034	39.1876667	-78.178094	PU17	Closed	Concrete	48	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/11/20
35	TR-035	39.1876624	-78.1780744	PU17	Closed	Metal	6	Yes	Sediment, Fecal Coliform	Town Run	No	2	08/28/19
36	TR-036	39.18758	-78.1778251	PU17	Closed	Metal	(4*4)	Yes	Sediment, Fecal Coliform	Town Run	No	2	08/28/19
37	TR-037	39.1872926	-78.1771271	PU17	Closed	Metal	4	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/11/21
38	TR-038	39.1871937	-78.1769688	PU17	Closed	Clay	4	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/18/23
39	TR-039	39.1868607	-78.175682	PU17	Open Channel	Concrete	24	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/18/23
40	TR-040		-78.1736787	PU17	Closed	Metal	6	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/01/20
41	TR-041		-78.1731433	PU17	Closed	PVC	3	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/21/20
42	TR-042	39.1861713	-78.173041	PU17	Closed	Metal	3	Yes	Sediment, Fecal Coliform	Town Run	No	2	03/16/22
43	TR-043	39.1858483	-78.1726143	PU17	Closed	Concrete	36	Yes	Sediment, Fecal Coliform	Town Run	No	2	03/16/22
44	TR-044	39.1851344	-78.171517	PU17	Closed	Concrete	72	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/01/20
45	TR-045		-78.1712085	PU17	Closed	PVC	36	Yes	Sediment, Fecal Coliform	Town Run	No	2	03/16/22
46	TR-046	39.1849323	-78.1710653	PU17	Closed	PVC	2	Yes	Sediment, Fecal Coliform	Town Run	No No	2	05/01/20
47	TR-047	39.1847236	-78.1703473	PU17	Closed	Metal	4	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/01/20
48	TR-048	39.1843561	-78.1694244	PU17	Closed	Clay	12	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/18/23
49	TR-049	39.1844074	-78.1693767	PU17	Closed	PVC	12	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/01/20
50	TR-050	39.1835167	-78.1649883	PU17	Open Channel	Concrete	48	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/01/20

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## City of Winchester IDDE Outfall Prioritization Spreadsheet

Current City ID	MS4 Outfall ID (Unique Identifier)	Latitude	Longitude	HUC6	Туре	Material	Dimension (in)	Impaired	TMDL Developed	Receiving Stream	Suspect Discharge / High Risk (Yes / No) (Automatic Selection)	Watershed Priority	Date of Last Screening
51	TR-051	39.1835415	-78.1649392	PU17	Open Channel	Concrete	48	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/01/20
52	TR-052	39.1834786	-78.1648761	PU17	Closed	Metal	6	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/18/23
53	TR-053	39.1835086	-78.1648546	PU17	Closed	Metal	6	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/18/23
54	TR-054	39.1834816	-78.1648178	PU17	Closed	Concrete	36 (box)	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/18/23
55	TR-055	39.1834786	-78.1647676	PU17	Closed	PVC	12	Yes	Sediment, Fecal Coliform	Town Run	No	2	03/16/22
56	TR-056	39.1834616	-78.1646882	PU17	Closed	PVC	15	Yes	Sediment, Fecal Coliform	Town Run	No	2	03/16/22
57	TR-057	39.1834139	-78.1645828	PU17	Closed	PVC	4	Yes	Sediment, Fecal Coliform	Town Run	No	2	03/16/22
58	TR-058	39.1833849	-78.1644413	PU17	Closed	PVC	18	Yes	Sediment, Fecal Coliform	Town Run	No	2	03/16/22
59	TR-059	39.1833052	-78.1641615	PU17	Closed	Metal	36	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/01/20
60	TR-060		-78.1637117	PU17	Closed	Concrete	10	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/18/23
61	TR-061	39.1832324	-78.1636704	PU17	Closed	Metal	18	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/11/20
62	TR-062	39.1832472	-78.1637854	PU17	Open Channel	Rip Rap	36	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/11/21
63	TR-063	39.1832328	-78.1637756	PU17	Closed	Metal	15	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/11/20
64	TR-064	39.1831872	-78.1636934	PU17	Closed	Concrete	12	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/27/20
65	TR-065	39.1825731	-78.1635831	PU17	Closed	Concrete	24	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/11/20
66	TR-066	39.1823817	-78.1633829	PU17	Closed	Concrete	15	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/11/20
67	TR-067	39.182394	-78.16345	PU17	Closed	Clay	15	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/11/21
68	TR-068	39.1823229	-78.1632842	PU17	Closed	Metal	2	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/11/21
69	TR-069	39.1822465	-78.163245	PU17	Closed	Metal	4	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/11/21
70	TR-070	39.1821644	-78.1630914	PU17				Yes	Sediment, Fecal Coliform	Town Run	No	2	05/18/23
71	TR-071	39.1820947	-78.1627801	PU17				Yes	Sediment, Fecal Coliform	Town Run	No	2	05/18/23
72	TR-072	39.181682	-78.1626594	PU17				Yes	Sediment, Fecal Coliform	Town Run	No	2	05/18/23
73	TR-073	39.1816207	-78.1627084	PU17	Closed	PVC	4	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/11/21
74	TR-074	39.1813337	-78.1627864	PU17				Yes	Sediment, Fecal Coliform	Town Run	No	2	05/18/23
75	TR-075	39.1810232	-78.1629822	PU17				Yes	Sediment, Fecal Coliform	Town Run	No	2	05/11/20
76	TR-076	39.180951	-78.162986	PU17				Yes	Sediment, Fecal Coliform	Town Run	No	2	05/18/23
77	TR-077	39.1808509	-78.1629581	PU17				Yes	Sediment, Fecal Coliform	Town Run	No	2	08/28/19
78	TR-078		-78.1630719	PU17				Yes	Sediment, Fecal Coliform	Town Run	No	2	08/28/19
79			-78.1630755		Closed	Metal		Yes	Sediment, Fecal Coliform	Town Run	No	2	03/16/22
80	TR-080	39.1803355		PU17				Yes	Sediment, Fecal Coliform	Town Run	No	2	08/28/19
81	TR-081	39.1796595		PU17				Yes	Sediment, Fecal Coliform	Town Run	No	2	08/28/19
82	TR-082		-78.1632756	PU17				Yes	Sediment, Fecal Coliform	Town Run	No	2	08/28/19
83	TR-083		-78.1640069	PU17	C1 1	7.5.1	0	Yes	Sediment, Fecal Coliform	Town Run	No	2	08/28/19
84	TR-084		-78.1642588	PU17	Closed	Metal	6	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/11/21
85	TR-085	39.1769651	-78.164553	PU17				Yes	Sediment, Fecal Coliform	Town Run	No	2	04/26/23
86	TR-086		-78.1645485	PU17	+		+	Yes	Sediment, Fecal Coliform	Town Run	No	2	08/28/19
87	TR-087		-78.1646365	PU17	Cla 1	M 1	20*20	Yes	Sediment, Fecal Coliform	Town Run	No	2	08/28/19
88	TR-088 TR-089		-78.1646963	PU17	Closed	Metal	30*30	Yes Yes	Sediment, Fecal Coliform	Town Run Town Run	No No	2	05/11/21
89 90	TR-089		-78.1646677 -78.1643445	PU17 PU17	Closed	Metal	1	Yes	Sediment, Fecal Coliform Sediment, Fecal Coliform	Town Run Town Run	No No	$\frac{2}{2}$	08/28/19 05/11/21
90	TR-090	39.1761504		PU17 PU17	Closed	PVC	12	Yes	Sediment, Fecal Coliform Sediment, Fecal Coliform	Town Run Town Run	No No	2	05/11/21
91	TR-091		-78.164241 -78.1641236	PU17 PU17	Ciosea	FVC	12	Yes	Sediment, Fecal Coliform Sediment, Fecal Coliform	Town Run Town Run	No No	$\frac{2}{2}$	05/11/21
93	TR-092		-78.1641236 -78.1640011	PU17			+	Yes	Sediment, Fecal Coliform	Town Run	No No	2	05/18/23
94	TR-094	39.17595	-78.1635265	PU17	Closed	Concrete	36	Yes	Sediment, Fecal Coliform	Town Run	No	2	03/16/22
$\frac{94}{95}$	TR-095	39.1757841	-78.1631709	PU17	Closed	Concrete	54	Yes	Sediment, Fecal Coliform	Town Run	No	$\frac{2}{2}$	03/16/22
96	TR-096		-78.1629879	PU17	Closed	Metal	6	Yes	Sediment, Fecal Coliform	Town Run	No	$\frac{2}{2}$	03/16/22
97	TR-097		-78.1630866	PU17	Closed	Metal	0	Yes	Sediment, Fecal Coliform	Town Run	No	$\frac{2}{2}$	05/18/23
98	TR-098		-78.1621911	PU17	Closed	Metal	†	Yes	Sediment, Fecal Coliform	Town Run	No	2	05/18/23

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## City of Winchester IDDE Outfall Prioritization Spreadsheet

Current City ID	MS4 Outfall ID (Unique Identifier)	Latitude	Longitude	HUC6	Туре	Material	Dimension (in)	Impaired	TMDL Developed	Receiving Stream	Suspect Discharge / High Risk (Yes / No) (Automatic Selection)	Watershed Priority	Date of Last Screening
99	TR-099	39.1721853	-78.1621935	PU17				Yes	Sediment, Fecal Coliform	Town Run	No	2	05/18/23
100	TR-100	39.1714569	-78.1618584	PU17				Yes	Sediment, Fecal Coliform	Town Run	No	2	05/18/23
101	TR-101	39.1710845	-78.1616005	PU17				Yes	Sediment, Fecal Coliform	Town Run	No	2	05/11/20
102	TR-102	39.1709257	-78.1614554	PU17				Yes	Sediment, Fecal Coliform	Town Run	No	2	05/11/20
103	TR-103	39.1706347	-78.1611794	PU17	open Channel	Concrete	32	Yes	Sediment, Fecal Coliform	Town Run	No	2	03/16/22
104	TR-104	39.1702858	-78.1609267	PU17	Closed	PVC	6	Yes	Sediment, Fecal Coliform	Town Run	No	2	03/16/22
105	TR-105	39.1702825	-78.1608975	PU17	Closed	PVC	6	Yes	Sediment, Fecal Coliform	Town Run	No	2	03/16/22
106	TR-106	39.1700664	-78.160657	PU17				Yes	Sediment, Fecal Coliform	Town Run	No	2	05/11/20
107	TR-107	39.1701401	-78.160583	PU17				Yes	Sediment, Fecal Coliform	Town Run	No	2	05/18/23
108	TR-108	39.1699278	-78.160314	PU17				Yes	Sediment, Fecal Coliform	Town Run	No	2	05/18/23
109	TR-109	39.1697862	-78.1600969	PU17				Yes	Sediment, Fecal Coliform	Town Run	No	2	05/18/23
110	TR-110	39.169715	-78.1599186	PU17				Yes	Sediment, Fecal Coliform	Town Run	No	2	05/18/23
111	TR-111	39.1696131	-78.159786	PU17		·		Yes	Sediment, Fecal Coliform	Town Run	No	2	05/18/23
112	TR-112	39.169577	-78.1596947	PU17	Closed	Metal	12	Yes	Sediment, Fecal Coliform	Town Run	No	2	03/16/22
113	TR-113	39.1690027	-78.1586468	PU17	Open Channel	Concrete	24x146	Yes	Sediment, Fecal Coliform	Town Run	No	2	03/16/22
114	TR-114	39.1689997	-78.1586789	PU17				Yes	Sediment, Fecal Coliform	Town Run	No	2	05/11/20
All Landuse within MS4 is URBAN													

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APPENDIX 4: City Yards Stormwater Pollution Prevention Plan (SWPPP)

# Phase II MS4 General Permit Stormwater Pollution Prevention Plan

# City Yards

301 E. Cork St. Winchester, VA 22601 (540) 667-1815 ext. 1451



# **SWPPP Contact(s):**

Winchester Public Works Department 301 E. Cork St. Winchester, VA 22601 (540) 773-1340

David Parker, Deputy Public Works Administrator (540) 667-2152

Kelly Henshaw, City Engineer (540) 773-1340 Ext. 1186

Bill Cain, Stormwater Engineer (540) 773-1340 Ext. 1182

SWPPP Preparation Date: April 3, 2023



### Stormwater Pollution Prevention Plan (SWPPP) Overview

The Stormwater Pollution Prevention Plan (SWPPP) is a required document that is developed and implemented in accordance with Part I.E.6.c of City of Winchester Municipal Separate Storm Sewer System (MS4) Permit. SWPPPs have been developed for all applicable City of Winchester high-priority municipal facilities that have a potential for pollutant discharge.

This SWPPP should be kept on-site at all times and in an area that is readily accessible to the appropriate staff. SWPPPs are designed to be a living document. Throughout each year, tasks within this SWPPP (inspections, spills, site assessments) are required to be addressed and documented per the SWPPP requirements. Additionally, major site changes related to site activities, operations, and site layout also need to be documented and kept up to date in this SWPPP. The overall goal of the MS-4 permit, and ultimately the SWPPP, is to minimize or eradicate stormwater and non-stormwater pollutant discharges from a site and its corresponding activities.



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Appendix D – Routine Facility Inspection Form

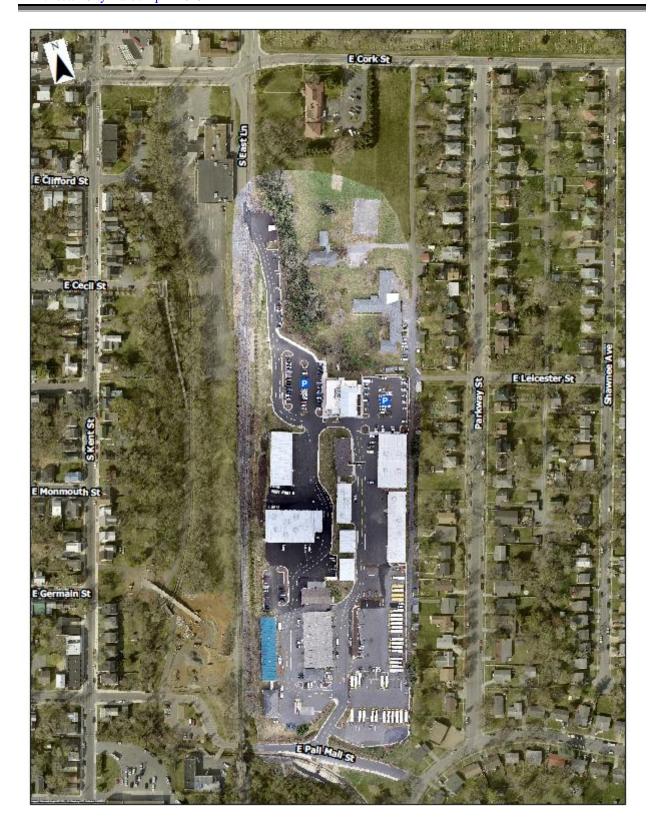
Appendix E – Annual Comprehensive Site Compliance Evaluation Checklist

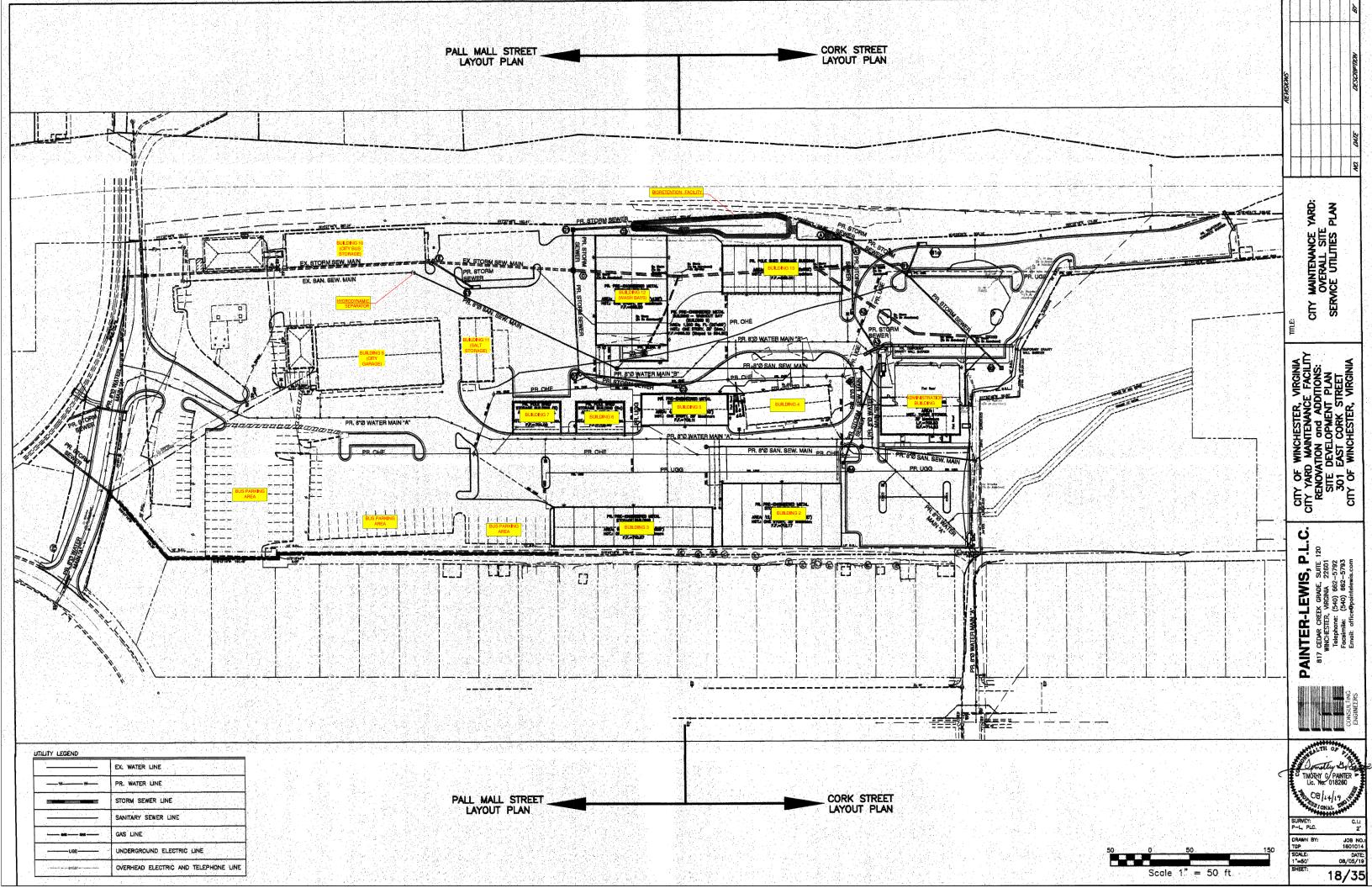
Appendix F – Site Specific Best Management Practices (BMP) and maintenance Schedule



Site Maps









# **Site Description**

#### **Facility Information**

Street Address: 301 E. Cork Street

City/County: Winchester State: Virginia ZIP Code: 22601

Latitude: 39.1779 ° N Longitude: 78.1624 ° W

#### **Discharge Information**

Receiving Water Body: Town Run (HUC12: 020700040902; VAHU6 PU17)

Impaired Water Body (Yes/No): No

<u>Site Information:</u> City Yards is a single parcel located off East Cork Street (State Route 657) between Pall Mall St. and East Cork Street. City Yard houses both the Public Services and Public Schools Administration Buildings, and is the main location for bus (school and public transportation) parking. The site is bordered by the CSX Railroad to the west, residential subdivision to the north and east, and Pall Mall Street and Town Run to the south. The northern portion of the site conveys to a bioretention facility which, along with the remainder of the site, drains to Town Run.

<u>Site Operations and Activities:</u> Main operations at City Yard include equipment and material handling and storage. All equipment and materials are housed in one of several warehouses or pole barns, with hazardous liquids stored in the appropriate containers within. The site includes two stationary site service generators and associated fuel cells.



Photo Log





1 – Pesticide Chemical Storage (Building #2)



2 - Flammable Stores (Building #2)



3 – Grounds Maintenance Equipment Storage (Building #2)





4 - Grounds Maintenance Specialty Equipment Storage (Building #2)

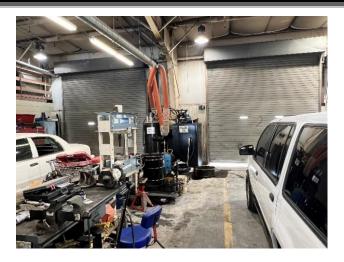


5 - Vehicle Storage (Building #4)



6 - Deck Drain (Building #4)





7 – Used Waste Oil and Antifreeze Storage (Vehicle Maintenance Building)



8 - Covered Trash Cans (Vehicle Maintenance Building)



9 - Street Sweeping Equipment (Building #6)





10 - Utility Maintenance Equipment (Building #7)

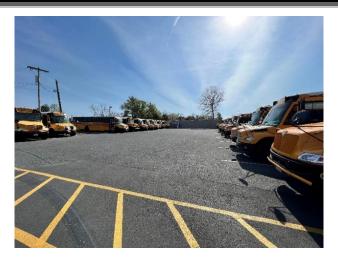


11 - Salt Storage Building (Building #11)



12 - Covered Dumpster (Building #11)





13 - Bus Parking (Parking Area #1)



14 - Fueling Canopy



15 - Fueling Canopy Spill Kit





16 – Hydrodynamic Separator (Proximate to Fueling Canopy)



17 - Site Service Generator #1



18 - Site Service Generator #2





19 – Utility Maintenance Equipment Storage (Pole Barn)



20 - Storm Outfall (To Bioretention Forebay)



21 - Bioretention Forebay





22 - Bioretention Outlet Structure



23 - Vehicle Wash Building



# Appendix A Inventory of Potential Pollutant/Pollutant Sources



Inspection Date	Potential Pollutant Source – Image	Potential Pollutant	Existing/Recommended Management Practice				
4.4.2023	Covered Trash Can(s) - 8	Trash	Replace any leaking/corroding trash can(s); Refer to City of Winchester SOP 4.1 – Standard Operating Procedures for Road, Street and Parking Lot Maintenance				
4.4.2023	Covered Dumpster - 12	Trash, Leachate, Chemical Wastes	Locate trash cans or dumpsters on a flat concrete surface that do not drain towards a storm drain or water body; Refer to City of Winchester SOP 4.1 – Standard Operating Procedures for Road, Street, and Parking Lot Maintenance				
4.4.2023	Salt Stores	Salt	Cover all materials and guard against exposure to the elements; Refer to City of Winchester SOP 4.2 – Roads, Streets, & Parking Lot Maintenance – Salt Deicing Application				
4.4.2023	Stationary Generator(s) – 17, 18	VOC's/Fuel	Replace/Repair any leaks form fuel cells and clean up any fuel spills immediately; Refer to City of Winchester SOP 5.3 – Vehicle/Equipment – Fueling Areas				
4.4.2023	Propane Tanks / Equipment Fueling - 14, 15	Fuel	Monitor for spills and clean up drippings or spills immediately; Refer to City of Winchester Annual Stormwater Training				
4.4.2023	Maintenance Building / Covered Equipment Storage - 3, 5, 6	Oil, grease, fuel from storing equipment	Isolate interior drainage and filter prior to discharge; Refer to City of Winchester SOP 5.3 – Vehicle/Equipment – Fueling Areas				
4.4.2023	Maintenance Building / Covered Equipment Storage - 4, 9, 19	Oil, grease, fuel from storing equipment	Clean equipment prior to placing in storage; Refer to City of Winchester SOP 5.1 – Vehicle/Equipment – Storage and Maintenance				
4.4.2023	Equipment Washing Area at Maintenance Building - 23	Detergents, oils, grease, heavy metals, sediment	Avoid detergents whenever possible. If detergents are necessary, a phosphate free, non-toxic, biodegradable soap is recommended; Refer to City of Winchester 5.2 – Vehicle/Equipment – Washing Areas				
4.4.2023	Bus Parking Area - 13	Oil, grease, fuel from parked vehicles	Monitor equipment and clean up any spills or leaking fluids immediately.  Refer to City of Winchester SOP 5.1 – Vehicle/Equipment – Storage and  Maintenance				

#### Stormwater Pollution Prevention Plan (SWPPP) Winchester City Yards April 2023



<u>Potential Pollutants</u>: Oil, Grease, Fuel, Coolant, Lubricant, Solvents, Detergent, Acid Wash, Paint, Sediment, Soil, Salt, Sand, Raw Materials, Aggregates, Cement, Pesticides,

Herbicides, Waste, Trash, Wastewater, Building Materials.

<u>Potential Pollutant Sources</u>: Uncovered Trash Cans, Open, Deteriorated, or Leaking Containers, Uncovered Outdoor Storage Facilities, Unmaintained Containers/Storage, Gas Pump, Material Loading/Unloading areas, On-site Waste Disposal Practices, Maintenance Areas, Wash Down Areas, Areas Exposed to Erodible Soils, Unprotected stockpile areas.



# Appendix B

Inventory of Potential Non-Stormwater Discharges



Inspectio n Date	Potential Non- stormwater Discharges	Discharge Present		ective A mmende en		Recommended BMPs / Pollution Prevention Measures (Reference SOP)
4.4.2023	Bus Parking	No	Yes	No	<u>N/A</u>	Monitor equipment and clean up any spills or leaking fluids immediately; see City of Winchester Stormwater Training
4.4.2023	Fueling Canopy	No	Yes	No	N/A	Maintain Spill Containment Kit and service downstream hydraulic separator regularly; see City of Winchester Stormwater Training
			Yes	No	N/A	
			Yes	No	N/A	
			Yes	No	N/A	
	Disabassa "	MOA that is not a source	Yes	No	N/A	

"Non-Storm Water Discharge" means any discharge to an MS4 that is not composed entirely of Stormwater.

Non-stormwater Discharges: Process Water, Wastewater, Vehicle Wash Water, Building or Pavement Wash Water, Cooling System Condensate, Non-Contact Cooling Water, Boiler Blowdown, Chlorinated Pool Water, Filter Backwash Water, Pumped Groundwater, Fire Suppression Test Water, Landscape Irrigation Water.



# Appendix C

Standard Operating Procedures (SOP) to Reduce/Prevent Pollutant Discharges



## **SOP Section 1 – Purpose and Scope**

Per the requirements of the General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4 Permit), the City of Winchester shall develop and implement daily good housekeeping procedures, in accordance with Sec. II(B)(6)(a) and Table 1, for all applicable municipal operations within 24 months of permit coverage.

The scope of work includes daily good housekeeping procedures development in accordance with the MS4 Permit requirements for inclusion in the City's MS4 Program Plan.

### SOP Section 2 – Background

Municipal operations such as vehicle/equipment storage and maintenance, grounds maintenance, and parking lot maintenance can be a source of stormwater pollution if good housekeeping practices are not implemented during active municipal operations. The Pollution Prevention/Good Housekeeping components of the MS4 Permit require municipalities to re-evaluate municipal operations and storm infrastructure management to develop written procedures that minimize or prevent pollutant discharge from their daily operations. The daily good housekeeping procedures assists the City of Winchester in meeting the MS4 Permit requirements and encourages City employees to use best management practices (BMPs) in their daily municipal operations.

Per Sec. I(E)(6)(a) of the MS4 Permit, the written procedures are designed to minimize or prevent pollutant discharge from (i)daily operations such as road, street, parking lot maintenance; (ii) equipment maintenance; and application, storage, transport, and disposal of pesticides, herbicides, and fertilizers. These written procedures, at a minimum, are designed to:

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

To address the MS4 Permit requirements, six general operations within the City were identified and good housekeeping procedures were written for activities under each operation. These operations include:



- 1. Municipal Facilities/Operations
- 2. Parking Lot Maintenance
- 3. Vehicle/Equipment Maintenance
- 4. Grounds Maintenance
- 5. Municipal Operations
- 6. Utility Maintenance

The six City operations and associated procedures are described in Section 3 through Section 8. Unless otherwise stated, the City's Engineering Division, led by the City Engineer, is responsible for ensuring good housekeeping practices are implemented for all municipal facilities and operations. At the beginning of each section pertinent City departments responsible for implementing the good housekeeping procedures are identified.

Each standard operating procedure by itself is not intended to meet every requirement per Sec. II(B)(6)(a)(1-8); but the document as a whole meets all requirements listed.



### **SOP Section 3 – Standard Operating Procedures - Municipal Facilities**

Municipal facilities have the potential to produce pollutants from their day-to-day operations. It is imperative to implement good housekeeping procedures on all municipal facilities.

Included in this section are general good housekeeping practices and general spill/leak cleanup procedures that are to be implemented on all municipal facilities by each facility supervisor. Facility inspections are to be completed and records maintained as specified in the following procedures for inclusion in the facility's Stormwater Pollution Prevention Plan (SWPPP) binder.

The City's Engineering Division will work in close coordination with each facility supervisor to ensure good housekeeping procedures are being applied and to ensure the City of Winchester remains compliant with the MS4 Permit requirements.



## **SOP 3.1 – Standard Operating Procedures – Municipal Facilities**

Municipal facilities have the potential to produce pollutants from their day-to-day operations. It is imperative to implement good housekeeping procedures on all municipal facilities.

Included in this section are general good housekeeping practices and general spill/leak cleanup procedures that are to be implemented on all municipal facilities by each facility supervisor. Facility inspections are to be completed and records maintained as specified in the following procedures for inclusion in the facility's Stormwater Pollution Prevention Plan (SWPPP) binder.

The City's Engineering Division will work in close coordination with each facility supervisor to ensure good housekeeping procedures are being applied and to ensure the City of Winchester remains compliant with the MS4 Permit requirements.

<u>Purpose:</u> To protect stormwater from pollutants by implementing general good housekeeping practices.

#### Practices:

- All operations and activities at the City yard facility are to be in accordance with the General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems General Permit number VAR040053.
- Do not dispose of leaves, grass clippings, tree trimmings, trash, oil, fuel, sediment, or any other pollutant into a storm drain or water body.
- Keep open, exposed areas clean and protected from precipitation.
- Keep equipment, stockpiles, chemicals, paints, etc. covered.
- Post signs and labels in problem areas and areas containing hazardous materials.
- Consider additional control measures in conjunction with coverings; including curbing, grading, or elevating materials to divert stormwater run-on and to contain stormwater run-off.
- Identify and label any storm drain inlets at or near the facility to notify employees and contractors not to dispose of any materials or waste.
- Do not wash down or hose down any outdoor work areas or trash/waste container storage areas except where wash water will only enter the sanitary sewer following treatment.
- Recycle waste, used oil, solvents, grease rags, wash water, and other spent liquids.
   Store materials to be recycled under cover with secondary containment.
- Install secondary containment devices where appropriate. Secondary controls include curbing, drip pans, basins, sumps, oil/water separators, catch basin inserts, oil pads/skimmers, and impervious work areas.
- Use oil/water separators, or other commercially available devices to minimize oil and grease discharge to stormwater runoff.
- Stabilize or cover exposed denuded areas to minimize erosion and sedimentation during rain events. This can be done by applying mulch or permanent vegetation that



will hold the soils in place.

- Install erosion and sediment controls in accordance with the Virginia Erosion and Sediment Control Handbook (VESCH) as needed during construction and utility maintenance activities.
- Do not use chemicals when cleaning outside of buildings. Filter building wash water before it enters the storm drain.
- If possible, dispose of building wash water at an approved location connected to sanitary sewer.

#### <u>Inspections/Maintenance/ Spill Response /Reporting:</u>

- Schedule routine inspections focusing on areas that have a greater potential to spill, leak, discharge into stormwater runoff.
- Monitor floor drains and storm inlets and/or catch basins, and inspect, remove/replace as appropriate.
- Inspect oil/water separators and floor drain systems periodically to determine maintenance needs.
- Inspect equipment and storage areas at regularly scheduled days/times for leaks and spills. If leaks or spills occur, clean up in accordance with SOP 3.2.
- Keep up-to-date records of site inspections including by whom, when, and where inspections were done, what was found, and any actions that were taken because of the inspections.



### SOP 3.2 - Standard Operating Procedures - Municipal Facilities

<u>Purpose</u>: To protect stormwater from spilled pollutants by implementing proper spill cleanup procedures and preventative measures.

#### **Practices:**

- Do not use water to clean up spills/leaks.
- Do not wash spills/leaks into storm drain, ditch, creek, stream, pond, wetland or any other water body.
- Do not leave spill/leak without cleaning it up.
- Stop the source of the spill/leak immediately, if safe to do so.
- Contain any spilled/leaked liquids, if safe to do so.
- Clean up spill/leak in accordance with spill kit directions.
- Inspect City vehicles/equipment before leaving City property yard.
- Sweep up granules and dispose of properly.
- Install control measures on nearby storm drains and water bodies if spill could potentially reach the stormwater systems.
- Position mats to contain leaks from vehicles and equipment until they can be repaired.
- Use secondary containment under or around petroleum and chemical storage containers.
- Notify supervisor of any spills greater than five (5) gallons or any spill that reaches the storm drain. If a supervisor is unavailable, call the stormwater hotline (540)-542-1346 or the Police Department's non- emergency line (540)-662-4131. Immediately call 911 if a spill presents a threat to health or safety or is considered an emergency.

#### Inspections/Maintenance/ Spill Response /Reporting:

- Develop and maintain a site-specific spill prevention/spill response plan.
- Maintain a spill kit in areas where petroleum or hazardous materials are stored.
- Maintain spill kits on all City owned equipment/vehicles that are used for municipal operations.
- Notify supervisor of any spills greater than five (5) gallons or any spill that reaches the storm drain. If a supervisor is unavailable, call the stormwater hotline (540)-542-1346 or the Police Department's non- emergency line (540)-662-4131. Immediately call 911 if a spill presents a threat to health or safety, or is considered an emergency.

#### Training:

 Train applicable employees in site specific spill response procedures and equipment. The City shall provide daily good housekeeping training for City owned/operated facilities for all applicable City employees in accordance with the City of Winchester Stormwater Training Plan.



# SOP Section 4 – Standard Operating Procedures – Road, Street, and Parking Lot Maintenance

Road, street, and parking lot maintenance activities have the potential to produce pollutants that may discharge into stormwater runoff if good housekeeping procedures are not implemented in and around municipal parking lots. Potential sources of these pollutants may include parked cars, dumpsters, trash cans, and material stockpiles.

Included in this section are good housekeeping practices for municipal road, street, and parking lot maintenance operations. The procedures are to be implemented on all City owned/operated roads, streets, and parking lots and all construction activities associated with these facilities.

The City's Department of Parks and Recreation (DPR) is responsible for ensuring that all applicable DPR employees comply with the following procedures for parking lots associated with City parks and recreation facilities. Likewise, the City's Department of Public Works (DPW) is responsible for ensuring that the Streets Division staff comply with these procedures for maintenance activities associated with roads and streets. If applicable, all inspections for municipally owned parks and recreation parking lots are to be completed and records maintained for inclusion in the facility's SWPPP binder.

The City's Engineering Division will work in close coordination with the DPR and DPW to ensure good housekeeping procedures are being applied to all municipally owned/operated roads, streets, and parking lots and during construction/maintenance operations to ensure that the City of Winchester remains compliant with the MS4 Permit requirements.



# SOP 4.1 – Standard Operating Procedures for Road, Street, and Parking Lot Maintenance.

<u>Purpose</u>: To protect stormwater from trash and debris by properly cleaning and maintaining roads, streets, and parking lots through general practices.

#### **Practice:**

- Sweep all City maintained roads and streets in accordance with the City's established street sweeping schedule.
- Dispose of street sweeping material properly and never store street sweeping material in areas where storm water could transport fines to the storm drain system or a waterbody.
- Locate trash cans and dumpsters in areas that are readily accessible to users.
- Do not hose down parking lots or sidewalks within parking lots.
- Do not sweep trash, sediment, or any other pollutants to or down a storm drain or water body.
- Do not place trash cans or dumpsters near a storm drain or water body.
- Do not place hazardous waste in a dumpster or trash can.
- Do not wash out dumpsters. Return to owner for cleaning at owner's facility. If municipally owned containers must be washed, do so in an approved location where wastewater is either recycled or treated before discharging to the sanitary sewer with approval.
- Locate trash cans or dumpsters on a flat concrete surface that does not drain towards a storm drain or water body.
- Ensure all trash cans and dumpsters within parking lots remain covered and have no leaks.
- Request/use dumpsters with properly plugged drain holes whenever possible.
- Pick up trash and debris and dispose of in covered trash can or dumpster.
- Empty trash cans and dumpsters scheduled days/times. Do not overfill trash cans or dumpsters.
- Provide properly labeled recycling bins in an area readily accessible to users to reduce the amount of garbage disposed.

# <u>Inspections/Maintenance/ Spill Response /Reporting:</u>

- Inspect parking lots for trash and debris at regularly scheduled days/times.
- Inspect trash cans and dumpsters at regularly scheduled days/times for leaks, corrosion, broken/missing lids or leaking drain valves.
- Maintain street sweeping equipment for maximum effectiveness.
- Immediately repair or replace any damaged trash cans or dumpsters.
- Regularly inspect parking lots for leaks and spills. If leaks or spills occur, clean up in accordance with SOP 3.2.
- Keep up-to-date records of site inspections including by whom, when, and where inspections were done, what was found, and any actions that were taken as a result of the inspections. Document all relevant inspection activities on the proper forms



provided in the SWPPP.

## Training:

• The City shall provide daily good housekeeping training for City owned/operated facilities for all applicable City employees in accordance with the City of Winchester Stormwater Training Plan.



# SOP 4.2 – Roads, Streets, & Parking Lot Maintenance – Salt/Deicing Application

<u>Purpose</u>: To protect stormwater from salt/deicers and sand by properly storing and applying the materials.

#### Practice:

- Do not store salt, sand, deicer, or snow near storm drain or water body.
- Do not dispose of salt, sand, deicer, or snow in a storm drain or water body.
- Do not use nitrogen or phosphorus as deicing agents.
- Apply appropriate amount of salt, sand, or deicer as needed to be effective.
- When loading salt, sand, or deicer, minimize salt spillage by not exceeding the capacity of equipment (i.e. front end loader, truck bed).
- When unloading salt, sand and deicer materials move excess materials that may have fallen outside of desired storage area to the desired storage area.
- Operate equipment at low speed for effective spreading.
- Control spread patterns to concentrate material where most effective.
- Consider the use of deicing alternatives such as calcium magnesium acetate, potassium acetate, sand, etc. in sensitive areas.
- If using sand, use coarse, clean (washed) sand, which is free of fine particles and dust and easier to clean in the spring.
- Locate salt, sand, or deicer stockpiles on flat, covered, impervious sites that are protected from runoff and divert run-on around stockpile. Store salt, sand, or deicer in accordance with SOP 5.1.
- Provide diversion where runoff leaves salt storage area to direct runoff to holding tank or stormwater treatment device.
- Where possible, remove snow manually without the use of salt/deicer.

### Inspections/Maintenance/ Spill Response /Reporting:

- Regularly inspect salt/deicer storage area to ensure the area remains dry and the materials remain within the designated storage area.
- During the winter months, regularly inspect spreader equipment and calibrate to manufacturer's specifications to maximize the effectiveness of the equipment.
- Maintain accurate logs of amount of salt/deicing material applied to each parking lot.
- Keep up-to-date records of inspections including by whom, when, and where
  inspections were done, what was found, and any actions that were taken as a result of
  the inspections. Document all relevant inspection activities on the proper forms
  provided in the SWPPP.

#### **Training:**

 The City shall provide daily good housekeeping training for City owned/operated facilities for all applicable City employees in accordance with the City of Winchester Stormwater Training Plan.



# SOP 4.4 – Roads, Streets, and Parking Lot Maintenance – Erosion and Sediment Control

<u>**Purpose**</u>: To protect stormwater from pollutants during construction or maintenance operations by implementing proper erosion and sediment control practices.

#### Practice:

- Do not stockpile materials near storm drains or water bodies.
- Do not remove erosion control measures before construction or maintenance operations are complete and stabilized.
- Do not dispose of sediment or other captured pollutants in a storm drain or a water body.
- Prior to moving control measures, inspect the site and ensure all accumulated debris or other pollutants are cleaned up and removed.
- Minimize the land disturbance and stabilize the disturbed area once construction or maintenance is complete.
- Divert clean water around construction or maintenance sites.
- Install erosion control devices in accordance with the VESCH.
  - Install inlet protection on all storm drain inlets near the construction or maintenance operations, per Chapter 3.07 of the VESCH, or approved equivalent.
  - Contain material stockpiles (salt, topsoil, gravel) to prevent pollutant runoff.
     Stockpiles should be temporary and removed once construction or maintenance is complete and stabilized.
  - If needed, install sediment traps and basins per Chapters 3.13 and 3.14 of the VESCH to protect downstream channels and water bodies from sediment runoff.
  - Cover bare soil with mulch or other approved cover to prevent sediment runoff.
  - Use an appropriately sized sediment dewatering device when dewatering construction or maintenance area. Dispose of captured sediment at a properly permitted location prior to removing storm drain protection.
- Regularly inspect and maintain erosion and sediment control devices.

#### Inspections/Maintenance/ Spill Response /Reporting:

- Inspect, maintain, and repair control measures in accordance with the VESCH and the Virginia Erosion and Sediment Control Regulations and the Virginia Erosion and Sediment Control Law.
- Keep up-to-date records of inspections including by whom, when, and where inspections were done, what was found, and any actions that were taken because of the inspections. Document all relevant inspection activities on the proper forms provided in the SWPPP.



## **Training:**

• The City shall provide daily good housekeeping training for City owned/operated facilities for all applicable City employees in accordance with the City of Winchester Stormwater Training Plan.



## **SOP 5 – Standard Operating Procedures – Vehicle/Equipment**

Vehicle and equipment maintenance operations include fueling, washing, repairing, maintaining, and storage for large and small vehicles (fire trucks, emergency vehicles, and utility vehicles) and large and small equipment (lawn mowers, weed-eaters, chemical spreaders). Both operations have the potential to produce pollutant discharge if good housekeeping procedures are not implemented.

Included in this section are good housekeeping practices for vehicle and equipment maintenance operations. The procedures are to be implemented on all City owned/operated facilities where vehicles and equipment are stored and maintained.

The DPR is responsible for ensuring all applicable DPR employees comply with the following procedures. Inspections are to be completed and records maintained as specified in the following procedures for inclusion in the facility's SWPPP binder. If applicable, all inspections for municipally owned parks and recreation parking lots are to be completed and records maintained for inclusion in the facility's SWPPP binder.

The City's Engineering Division will work in close coordination with the DPR to ensure good housekeeping procedures are being implemented where vehicles and equipment are being stored and maintained to ensure that the city remains compliant with the MS4 Permit requirements.



## **SOP 5.1 – Vehicle/Equipment – Storage and Maintenance**

**Purpose**: To protect stormwater from solvents, antifreeze, battery acid, motor oil, fuel, grease, brake fluid, metals, and sediment by properly storing and maintaining the vehicles and equipment.

#### Practice:

- Do not park vehicles or place equipment over, on, or near a storm drain or water body.
- Do not store vehicles or equipment near storm drains or water bodies.
- Do not dispose of fluids in storm drains or water bodies.
- Whenever possible, store vehicles and equipment inside to minimize the potential for pollutant discharge in stormwater runoff. Where indoor storage is not possible, store on paved areas and under a covered facility.
- If storing vehicles and equipment inside, ensure floor drains have been properly connected and do not outfall into storm drain system. If the drain does outfall to a storm drain system, floor drain should be sealed.
- Store drums, tanks, and containers in low-traffic areas and on pallets.
- Store cracked batteries in leak-proof secondary containers.
- Store drip pans and draining boards in designated and marked holding tubs for reuse.
- Store limited amounts of solvents, antifreeze, motor oil, fuel, grease, etc. to prevent surplus or expiration of fluids. Store in a dry controlled area.
- Store salt, sand, or deicer in limited amounts under cover. If stockpiled outdoors, cover with tarp to minimize stormwater runoff and install fabric barrier around to capture polluted runoff.
- Vehicle maintenance activities must be performed inside the fleet maintenance garages.
- Use drip pans and other containment devices to prevent spills when performing maintenance.
- Move leaking vehicles and equipment indoors or under cover as soon as possible and
  use a drip pan to contain any leaks as needed. If possible, drain the leaking fluid and
  tag the vehicle/equipment to alert others of the leak.
- Clean equipment prior to placing in storage. Equipment shall be washed in a controlled location in accordance with SOP 5.2.
- Clean trucks, equipment and tools in designated equipment wash facilities where
  wash water will not drain to a storm drain, ditch, creek, stream, pond, wetland or any
  other water body.
- Use non-hazardous cleaners when possible.
- Use steam cleaning, pressure washing, or aqueous washers instead of solvents.
- Drain all liquid filters before disposal or recycling and dispose of properly.
- Pour drip pan fluids in appropriate waste/recycle containers as the first step in clean up after repair work is completed.
- Dispose of or recycle all fluids properly.



## **Inspections/Maintenance/ Spill Response /Reporting:**

- Inspect parking areas for stains, leaks, and spills at regularly scheduled days/times.
- Inspect equipment, drums, tanks, and containers for leaks, condition, proper storage and proper labeling.
- Maintain vehicles and equipment on a regular basis to prevent leaks.
- Sweep maintenance areas at regularly scheduled days/times to remove dirt/debris.
- Pickup and dispose of waste materials and scrap equipment at regularly scheduled days/times.
- If leaks or spills occur, clean up in accordance with SOP 3.2.
- Keep up-to-date records of site inspections including; by whom, when, and where inspections were done, what was found, and any actions that were taken as a result of the inspections.

## **Training:**

 The City shall provide daily good housekeeping training for City owned/operated facilities for all applicable City employees in accordance with the City of Winchester Stormwater Training Plan.



## **SOP 5.2 – Vehicle/Equipment – Washing Areas**

<u>Purpose</u>: To protect stormwater from detergents, oils, grease, and heavy metals by properly washing vehicles and equipment.

#### **Practice:**

- All vehicles must be washed in the City Yards wash bay.
- Clean trucks, equipment and tools in designated equipment wash facilities where wash water will not drain to a storm drain, ditch, creek, stream, pond, wetland or any other water body.
- Do not release vehicle/equipment wash water into a storm drain or water body without prior authorization under a separate VPDES permit.
- If no wash facility is available, clean equipment over a layer of absorbent material spread on a paved surface and/or heavy plastic sheeting and install curbs, berms, or dikes around outdoor wash area to control and contain wastewater. Use wet/dry vacuum or vacuum truck to collect wash water and discharge to the sanitary sewer.
- Use drain guards (filter inserts) or approved equivalent on nearby storm drain inlets to catch sediments and other pollutants that might enter the storm drains as a result of vehicle washing.
- Avoid detergents whenever possible. If detergents are necessary, a phosphate-free, non-toxic, biodegradable soap is recommended.
- Minimize water use when washing and rinsing.

## Inspections/Maintenance/ Spill Response /Reporting:

- Inspect and maintain washing equipment such as hoses, wands, and nozzles at regularly scheduled days/times to ensure said devices are delivering proper rate of water and shutoff automatically when not in use.
- Where wash racks are used, inspect for leaks, overspray, or other signs of ineffective containment. Immediately correct any observed defects. Clean periodically to remove particulate matter and other pollutants.
- Inspect plumbing, recycling, and pretreatment systems at regularly scheduled days/times to ensure they are functioning properly.
- Keep up-to-date records of site inspections including; by whom, when, and where
  inspections were done, what was found, and any actions that were taken as a result of
  the inspections.

## Training:

The City shall provide daily good housekeeping training for City owned/operated facilities for all applicable City employees in accordance with the City of Winchester Stormwater Training Plan.



## SOP 5.3 - Vehicle/Equipment - Fueling Areas

<u>Purpose</u>: To protect stormwater from gasoline and diesel fuel by properly maintaining fueling areas and by properly fueling vehicles and equipment.

#### Practice:

- Do not fuel vehicle or equipment near storm drain or water body.
- Do not hose down or bury fuel spills.
- Do not "top off" fuel tanks. This will minimize the possibility of spills.
- Use a permitted off-site facility such as a fuel/gas station to refuel vehicles and equipment, whenever possible.
- If refueling onsite, use a designated fueling area. Designated fueling area should contain a spill kit, spill response practices, and a covered garbage can for proper cleanup and disposal of spilled fuel.
- Protect fuel storage tanks whenever possible to prevent polluting stormwater runoff.
- Cover nearby storm drains during loading/transfer of fuel storage tanks.
- Use overflow protection devices on tanks and enclose fuel tanks with secondary containment.
- When fueling small equipment from portable containers, fuel in a designated area away from storm drains and water bodies. Use a funnel to minimize spills.
- Fuel carefully to minimize drips to the ground.
- Use absorbent material under small equipment during fueling to collect any drips, overflow, or leaks.
- For new or remodeled facilities, the fuel-dispensing area should be covered and paved with an impervious surface. The surface should be sloped to prevent ponding and contain a grade break that allows for polluted runoff to drain inward to a contained area and the remaining runoff to be diverted away from the fueling, storage, and disposal area.

#### Inspections/Maintenance/ Spill Response /Reporting:

- Inspect fueling equipment at regularly scheduled days/times for corrosion and structural failure, cracks in foundations, and physical damage to container systems.
- Maintain clean fuel dispensing areas using dry cleanup methods.
- Maintain fuel storage tanks in accordance with local, state, and federal laws.
- Regular maintenance is required if oil/water separators are used.
- Inspect fuel storage area and tanks at regularly scheduled days/times for leaks, overfills due to operator error and spills during pumping from truck to storage facility or vice versa. If leaks or spills occur, clean up in accordance with SOP 3.2.
- Keep up-to-date records of site inspections including; by whom, when, and where
  inspections were done, what was found, and any actions that were taken as a result of
  the inspections. Document all relevant inspection activities on the proper forms
  provided in the SWPPP.



## **Training:**

- Train applicable employees and subcontractors on proper fueling methods and spill cleanup materials.
- The City shall provide daily good housekeeping training for City owned/operated facilities for all applicable City employees in accordance with the City of Winchester Stormwater Training Plan.



## **SOP 6 – Standard Operating Procedures – Grounds Maintenance**

Grounds maintenance activities such as mowing, tree trimming, irrigating, fertilizing, spraying pesticides, etc. have the potential to produce pollutant discharge if good housekeeping procedures are not implemented during grounds maintenance operations.

Included in this section are good housekeeping practices for grounds maintenance operations. The procedures are to be implemented on all City owned/operated facilities where vegetated areas are maintained and fertilizers, pesticides, and herbicides are applied, handled, and stored.

The DPR is responsible for ensuring all applicable DPR employees comply with the following procedures. If applicable, all inspections for municipally owned parks and recreation facilities are to be completed and records maintained for inclusion in the facility's SWPPP binder.

The City's Engineering Division will work in close coordination with the DPR to ensure good housekeeping procedures are being implemented during grounds maintenance operations to ensure that the City remains compliant with the MS4 Permit requirements.



# **SOP 6.1 – Grounds Maintenance – Storage and Disposal Pesticides, Herbicides, and Fertilizers**

<u>Purpose</u>: To protect stormwater from untreated chemicals by properly storing and disposing of pesticides, herbicides, and fertilizers.

#### **Practice:**

- Do not store pesticides, herbicides, and fertilizers near storm drains or water bodies.
- Do not dispose of pesticides, herbicides, and fertilizers near or in storm drains or water bodies.
- Store pesticides, herbicides, and fertilizers in accordance with manufacturer's specifications.
- Where possible, store pesticides, herbicides, and fertilizers in an enclosed, controlled area. (i.e. locked storage shed or cabinet)
- Use proper containers for storing chemicals and clearly label.
- Use and clearly label secondary containers.
- Store Material Safety Data Sheets (MSDS) near chemical storage areas.
- Order only the amount needed to prevent surplus or expired chemicals.
- Order chemicals just prior to usage to reduce storage time.
- Use entire order of chemicals to minimize disposal.
- If disposal is necessary dispose of fertilizers and pesticides in accordance with manufacturer's specifications and applicable regulations.
- Follow all applicable federal and state regulations for storing pesticides, herbicides, and fertilizers.
- Maintain dog park signs, enforce dog park rules as stated on signage and clean up after dogs as appropriate.
- Maintain "Do Not Feed Geese" signs and clean up after geese as appropriate.

### Inspections/Maintenance/ Spill Response /Reporting:

- Annually check expiration dates and dispose of expired products in accordance with the manufacturer's specifications.
- Keep an up-to-date inventory of all pesticides, herbicides and fertilizers stored. The list should include the name of the product, the manufacturer, the number of bags/containers and expiration date.
- Compile a binder of all Material Safety Data Sheets (MSDS) for pesticide, herbicides and fertilizers and have a general location to store it.
- Keep an up-to-date list of all Certified Pesticide Applicators.
- Keep an up-to-date list of pesticides, herbicides and fertilizers being applied. The list should include the name of the product, employee who applied the product, date of application, amount applied and location.
- Inspect storage areas at regularly scheduled days/times for leaks and spills. If leaks or spills occur, clean up in accordance with SOP 3.2.
- Keep up-to-date records of site inspections including; by whom, when, and where inspections were done, what was found, and any actions that were taken as a result of



the inspections.

#### **Training:**

- All applicable employees who handle or apply pesticides and herbicides shall be certified in accordance with the Virginia Pesticide Control Act through Virginia Department of Agriculture and Consumer Services (VDACS).
- The City shall provide daily good housekeeping training for City owned/operated facilities for all applicable City employees in accordance with the City of Winchester Stormwater Training Plan.



# **SOP 6.2 – Grounds Maintenance – Handling and Application of Pesticides, Herbicides, and Fertilizers**

**Purpose**: To protect stormwater from untreated chemicals by properly handling and applying pesticides, herbicides, and fertilizers.

#### Practice:

- Do not apply pesticides, herbicides, and fertilizers before a heavy rainfall.
- Do not dispose of pesticides, herbicides, and fertilizers in storm drains or water bodies.
- City employees who use or supervise the use of any pesticide on any area in the
  performance of their official duties must be certified as either commercial applicators
  not for hire or a registered technician.
- City employees who use or supervise the use of any fertilizer on any area in the performance of their official duties must be a certified fertilizer applicator.
- Use proper Personal Protection Equipment (PPE) when handling and applying pesticides, herbicides, and fertilizers.
- All employees handling, mixing, and applying pesticides, herbicides, and fertilizers should be knowledgeable of the corresponding MSDS for pesticides, herbicides, and fertilizers.
- Mix only enough chemical for immediate use.
- Follow manufacturer's recommendations for handling, mixing, and applying pesticides, herbicides, and fertilizers.
- Follow all federal and state regulations when handling, mixing, and applying pesticides, herbicides, and fertilizers.
- Mix pesticides, herbicides, and fertilizers in designated areas and away from storm drains or water bodies.
- Employees applying pesticides, herbicides, and fertilizers should read the MSDS for each product they use.
- Calibrate application equipment to ensure proper amount of product is applied.
- Use caution when broadcasting product near a waterway or storm drain structure.
- If fertilizer is broadcast or spilled on a sidewalk, street or driveway, sweep up the excess and dispose of in accordance with manufacturer's specifications.
- Promptly cleanup any spills or leakage. Use dry absorbent for liquids and sweep up solid product. Dispose of waste in accordance with manufacturer's specifications.
   Do not rinse with water.
- Use fertilizers with no phosphorous content.
- Pesticide application equipment should have an emergency shut-off switch.
- Use the least toxic product or method available to do the job.
- Use biodegradable products when available.
- Spot treat problem areas with pesticides rather than treating larger areas.
- Avoid broadcast spraying of pesticides or herbicides.
- Use the granular form of fertilizers, herbicides, and pesticides to minimize



- application losses. If using liquids, be aware of wind direction to avoid wind drift of chemicals.
- Wash equipment in accordance with SOP 5.2.
- Apply products when ground is thawed; if applicable, fertilizer in accordance with any pertinent Nutrient Management Plan (NMP), apply pesticides and herbicides only as needed.

#### Inspections/Maintenance/ Spill Response /Reporting:

- Annually check expiration dates and dispose of expired products in accordance with the manufacturer's specifications.
- Keep an up-to-date inventory of all pesticides, herbicides, and fertilizers stored. The list should include the name of the product, the manufacturer, the number of bags/containers and expiration date.
- Compile a binder of all MSDS for pesticides, herbicides, and fertilizers and have a general location to store it.
- Keep an up-to-date list of all Certified Pesticide Applicators.
- Keep an up-to-date list of pesticides, herbicides, and fertilizers being applied. The
  list should include the name of the product, employee who applied the product, date
  of application, amount applied and location.
- Regularly inspect storage areas for leaks and spills. If leaks or spills occur, clean up in accordance with SOP 3.2.
- Keep up-to-date records of site inspections including; by whom, when, and where
  inspections were done, what was found, and any actions that were taken as a result
  of the inspections.

#### Training:

- All applicable employees who handle or apply pesticides and herbicides shall be certified in accordance with the Virginia Pesticide Control Act through Virginia Department of Agriculture and Consumer Services (VDACS).
- The City shall provide daily good housekeeping training for City owned/operated facilities for all applicable City employees in accordance with the City of Winchester Stormwater Training Plan.



# Section 6.3 – Grounds Maintenance – Mowing, Irrigation, and Disposal of Landscape Waste

<u>Purpose</u>: To protect stormwater from organic matter, sediments, nutrients, and other pollutants by using proper mowing and irrigation techniques and by properly disposing of landscape waste.

#### **Practice:**

- Do not dispose of leaves, clippings, or compost in storm drain or water body.
- Do not pile leaves, clippings, and compost piles near a storm drain or water body.
- Do not dump gas from lawn mowing equipment, waste, or contaminated water in storm drain or water body.
- Do not refuel or change mower oil near storm drains.
- Mow only as low as needed for the area's intended use. Where possible, mow once
  or twice a year to allow for meadow growth.
- Use a bag to catch grass clippings and appropriately dispose of clippings.
- Water at appropriate times (no rain in forecast and cooler time of day) and do not overwater. Overwatering can result in excess runoff.
- If used for composting, use appropriate compost bin away from storm sewer or water body.
- If temporary stockpile is necessary, cover leaves, clippings, and compost piles with tarp or enclose with a barrier so that runoff does not enter storm drain system or water body.
- Do not pile tree trimmings. Dispose of properly at a yard waste facility, chip material and use as mulch, or burn in controlled area as regulated under City Ordinances.

### Inspections/Maintenance/ Spill Response /Reporting:

- Store and maintain lawn care equipment in controlled location per SOP 5.1.
- Wash lawn care equipment in controlled location per SOP 5.2.
- Fill gas tanks in a controlled location per SOP 5.3.
- Regularly inspect lawn care equipment and storage areas for leaks and spills. If leaks or spills occur, clean up in accordance with SOP 3.2.
- Keep up-to-date records of site inspections including by whom, when, and where
  inspections were done, what was found, and any actions that were taken as a result
  of the inspections.

#### Training:

 The City shall provide daily good housekeeping training for City owned/operated facilities for all applicable City employees in accordance with the City of Winchester Stormwater Training Plan.



## Section 6.4 - Grounds Maintenance - Portable Toilet Management

#### Purpose:

To protect stormwater from bacteria, organic matter, disinfectants, and suspended solids by properly placing and maintaining portable toilets.

#### **Practices:**

- Do not place toilets on top of storm drain inlets.
- Do not dispose of waste or pollutants in storm drains or water bodies.
- Portable toilets should be placed away from all storm drains and streets.
- Portable toilets should not be located adjacent to any stream or lake.
- Portable toilets shall be placed on a level ground surface that provides unobstructed access to users and servicing pump trucks.
- Portable toilets should, wherever possible, be located upon natural ground and not on or within 5 feet of a paved surface such as asphalt, concrete, or similar.
- If portable toilets must be placed on a paved surface exposed to rainwater or stormwater runoff, extra care must be taken during servicing to ensure any wastewater spilled onto the paved surface is rinsed and adequately collected so as not to leave any residue. A wet shop vacuum or similar would provide for adequate collection.
- To prevent spills, portable toilets should not be moved more often than is absolutely necessary.
- Portable toilets should be anchored down to prevent from tipping over.
- Owner identification and contact information must be effectively displayed in a prominent location on the exterior of each unit for reporting purposes.
- Collected portable toilet waste must be disposed of at a properly permitted wastewater disposal facility by a capable servicing company. Users of portable toilets should make all reasonable efforts to ensure that the waste hauler is disposing of waste at a permitted location.
- Damaged toilets must be repaired and/or replaced immediately.

### Inspections/Maintenance/ Spill Response /Reporting:

- Clean and remove waste from portable toilets each week. Additional cleaning may be necessary depending on the volume of use.
- Portable toilet rinsing (excluding the inside of portable toilet waste tank) may be completed on site when the following conditions are met:
  - Rinse water is controlled to prevent it from entering into a storm drain;
  - No more than one (1) gallon of rinse water is used per portable toilet (i.e. low volume high- pressure cleaners, or bucket and rag. No common household hoses.);
  - o Rinsing is completed away from a street or storm drain;
  - Where the portable toilet must be located on a paved surface, any rinse water that comes in contact with the paved surface must be adequately



#### collected;

- Where the portable toilet is located on a non-paved surface, rinsing should be completed at least 5 feet away from a paved surface and rinsing wastewater is drained to the ground at a rate that allows it to immediately soak into the ground;
- Rinse water generated during the cleaning of portable toilet waste tanks must not be discharged to the ground or to a storm drain and must be retained within the tank;
- Portable toilet wastewater (human waste/sewage) must never be disposed of on-site.



- Inspect portable toilets daily to ensure proper functionality and to detect leaks or spills. In the event of a toilet unit being tipped over, immediately lift the unit back to its original position and inspect for spills, leakage, or damage to the unit. If leaks or spills occur, clean up in accordance with SOP 3.2.
- Keep up-to-date records of site inspections including; by whom, when, and where inspections were done, what was found, and any actions that were taken as a result of the inspections. Document all relevant inspection activities on the proper forms provided in the SWPPP.

#### **Training:**

 The City shall provide daily good housekeeping training for City owned/operated facilities for all applicable City employees in accordance with the City of Winchester Stormwater Training Plan.



## **SOP 7 – Standard Operating Procedures – Municipal Operations**

Municipal operations such as paving, concrete replacement, refuse collection etc. have the potential to produce pollutant discharge if good housekeeping procedures are not implemented during municipal operations.

Included in this section are good housekeeping practices for municipal operations. The procedures are to be implemented during all City operations outside of City owned facilities.



## **SOP 7.1 – Municipal Operations – General**

<u>Purpose</u>: To protect stormwater from contaminates during municipal operations.

#### **Practice:**

- Concrete
  - Collect concrete slurry and dispose of waste and water or allow slurry to dry and sweep up direct waste
  - Require concrete trucks to wash out in a designated location where wash water will not drain to a storm drain, ditch, creek, stream, pond, wetland or any other water body.
- Paving and Pavement Repair
  - When milling, do not allow grindings to accumulate where they can wash into the storm drain, ditch, creek, stream, pond, wetland or any other water body.
  - o Mix only the amount of patching material necessary to complete the repair.
  - Locate stockpiles of asphalt patching material on a paved surface.
     Cover stockpiles to prevent contact with rain.
  - Use less harmful products rather than diesel for asphalt patching and cleanup activities.
  - Promptly sweep up absorbent material and dispose of in accordance with established procedures.
- Street Sweeping
  - o Keep street sweepers maintained and in operation.
  - Sweep as close to the curb as possible.
  - Maintain an effective speed.
  - Keep accurate logs of the lane miles swept and/or the amount of material collected.
- Leaf Collection
  - o Remove leaves from gutters, ditches and around inlets.
  - Dispose of leaves at City Yards composting area.
- Refuse Collection
  - Do not pick up hazardous material
  - Empty accumulated liquids from trash collection activities at a properly permitted landfill.

#### Inspections/Maintenance/ Spill Response /Reporting:

- Store and maintain municipal equipment in controlled location per SOP 5.1.
- Wash municipal equipment in controlled location per SOP 5.2.
- Fill gas tanks in a controlled location per SOP 5.3.
- Regularly inspect equipment used for municipal operations for leaks and spills.
   If leaks or spills occur, clean up in accordance with SOP 3.2.
- Keep up-to-date records of site inspections including; by whom, when, and where inspections were done, what was found, and any actions that were taken as a result of the inspections.



#### **Training:**

 The City shall provide daily good housekeeping training for City owned/operated facilities for all applicable City employees in accordance with the City of Winchester Stormwater Training Plan. Section 8 Standard Operating Procedures - Utility Maintenance



## Section 8 – Standard Operating Procedures – Utility Maintenance

Utility maintenance activities such as fire hydrant testing, waterline repair, and sanitary sewer repair have the potential to produce pollutant discharge if good housekeeping procedures are not implemented during the described activities.

The City's Engineering Division will work in close coordination with the Department of Public Utilities (DPU) to ensure good housekeeping procedures are being followed during utility maintenance operations to ensure that the City remains compliant with the MS4 Permit requirements.



## **SOP 8.1 – Standard Operating Procedures – Water System Maintenance**

<u>Purpose</u>: To protect stormwater from contaminates during water line maintenance operations.

#### **Practice:**

- Install inlet controls and filtering devices for planned and previously approved discharges into storm drain.
- Prior to discharge, inspect discharge flow path and clear/cleanup any debris or pollutants found (i.e., remove trash, leaves, sediment, and wipe up liquids, including oil spills).
- Stop unplanned discharges as quickly as possible.
- Notify DPU of unplanned discharge and discharge extent.
- Identify unplanned discharge location and repair as needed.
- Inspect unplanned discharge flow path and repair damaged areas as needed.

#### Inspections/Maintenance/ Spill Response /Reporting:

- Store and maintain equipment in controlled location per SOP 5.1.
- Wash municipal equipment in controlled location per SOP 5.2.
- Fill gas tanks in a controlled location per SOP 5.3.
- Regularly inspect equipment used for utility operations for leaks and spills. If leaks or spills occur, clean up in accordance with SOP 3.2.
- Keep up-to-date records of site inspections including by whom, when, and where inspections were done, what was found, and any actions that were taken because of the inspections.

#### **Training:**

 The City provides annual good housekeeping training for City owned/operated facilities for all applicable City employees in accordance with the City of Winchester Stormwater Training Plan.



# **SOP 8.2 – Standard Operating Procedures – Sewer System Maintenance**

<u>Purpose</u>: To protect stormwater from contaminates during sewer line maintenance operations.

#### **Practice:**

- Remove tree roots and other identified obstructions in sewer lines.
- Immediate clearing of blockage or repair is required where an overflow is currently occurring or for urgent problems that may cause an imminent overflow (e.g. pump station failures, sewer line ruptures, sewer line blockages).
- Clean sewer lines on a regular basis to remove grease, grit, and other debris that may lead to sewer backups.
- Review previous sewer maintenance records to help identify "hot spots" or areas with frequent maintenance problems and locations of potential system failure.
- Identify and track sanitary sewer discharges. Identify dry weather infiltration and inflow first. Wet weather overflow connections are very difficult to locate.
- Locate wet weather overflows and leaking sanitary sewers using conventional source identification techniques such as monitoring and field screening.
   Techniques used to identify other illicit connection sources can also be used for sewer system evaluation surveys.
- Implement community awareness programs for monitoring sanitary sewer wet weather overflows. A citizen's hotline for reporting observed overflow conditions should be established to supplement field screening efforts.
- When a spill, leak, and/or overflow occurs and when disinfecting a sewage contaminated area, take every effort to ensure that the sewage, disinfectant and/or sewage treated with the disinfectant is not discharged to the storm drain system or receiving waters.

### <u>Inspections/Maintenance/ Spill Response /Reporting:</u>

- Store and maintain equipment in controlled location per SOP 5.1.
- Wash equipment in controlled location per SOP 5.2.
- Regularly inspect equipment used for utility operations for leaks and spills. If leaks or spills occur, clean up in accordance with SOP 3.2.
- During routine maintenance and inspection note the condition of sanitary sewer structures and identify areas that need repair or maintenance.
- Establish routine maintenance program. Cleaning should be conducted at an established minimum frequency and more frequently for problem areas such as restaurants that are identified
- Keep up-to-date records of site inspections including; by whom, when, and where inspections were done, what was found, and any actions that were taken



as a result of the inspections.

## **Training:**

• The City provides annual good housekeeping training for City owned/operated facilities for all applicable City employees in accordance with the City of Winchester Stormwater Training Plan.



## **SOP 9 – City Yard – General Site Inspections**

For the <u>routine facility inspections</u> to be performed:

- The names of the person(s), or the positions of the person(s), responsible for inspection: Superintendent of Operations, City Engineer, and Engineer
- Schedule: 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.
- Specific areas of the facility to be inspected, including schedules for specific outfalls: Inspections must include all areas where industrial materials or activities are exposed to stormwater as identified in Sections 2.1 and 2.2 of this document. The following areas shall be included in all inspections:
  - ✓ Vehicle Storage Area
  - ✓ Material and Equipment Storage Area
  - √ Fueling Station
  - ✓ Maintenance Area
  - ✓ Salt and De-Icing Chemical Storage
- Scope: Ensure compliance with SWPPP in each area noted above.
- Non-Compliance: Any instances of non-compliance shall be brought into compliance within fourteen (14) days of the inspection. If the infraction cannot be brought into compliance within that time, the reason must be documented in the SWPPP and it must be brought into compliance as soon as possible.
- Illicit Discharges Any spills or other unintended discharges are to be reported to the Stormwater Engineer and recorded in the Illicit Discharge, Detection, and Elimination log below.

#### For the <u>comprehensive site inspections</u> to be performed:

- The names of the person(s), or the positions of the person(s), responsible for inspection: Superintendent of Operations, City Engineer, Engineer, Director of Public Works, Director of Public Services, Traffic Crew Supervisor, and Streets Crew Supervisor
- The schedules to be used for conducting inspections: Comprehensive site inspections shall be conducted at least once per year.
- Specific areas of the facility to be inspected, including schedules for specific outfalls: Inspections must include all areas where industrial materials or activities are exposed to stormwater as identified in Sections 2.1 and 2.2 of this document. The following areas shall be included in all inspections:
- The following items shall be inspected:
  - ✓ Vehicle Storage Area
  - ✓ Material and Equipment Storage Area
  - ✓ Fueling Station
  - ✓ Maintenance Area
  - ✓ Salt and De-Icing Chemical Storage



## IDDE Report Log

Date	Time of Event	Staff Contact	Phone Number	Description of Event	Remediation Action



## Appendix D

**Routine Daily Inspection Checklist** 



## **Routine Facility Inspection Form**

Date of Inspection		
		Time:
Inspectors :		
Vehicle Storage Areas Is area in full compliance with	_	If no, list instances of
SWPPP?	□Yes	non-compliance:
	□No	
Inspector		
Initials:		
Fueling Area		
Is area in full compliance with SWPPP?	□V00	If no, list instances of non-
2W777 ;	□Yes	compliance:
	□No	
Inspector		
Initials:		
Salt Barn		
Is area in full compliance with SWPPP?	□Yes	If no, list instances of non- compliance:
<b>5</b>	□No	
		_
Inspector		
Initials:		



Waste Oil / Antifreeze Tanks Is area in full compliance with SWPPP?	□Yes □No		If no, list instances of non-compliance:
Inspector Initials:			
Mulch / Waste Storage Area Is area in full compliance with SWPPP?	□Yes □No	If no, list insta compli	
Inspector Initials:	<u>-</u>		
Temporary Trash Storage Area Is area in full compliance with SWPPP?	□Yes □No	If no, list insta compli	
Inspector Initials:	-		
Hydrodynamic Separator Is area in full compliance with SWPPP?	□Yes □No	If no, list insta compli	
Inspector Initials:	-		

Project Name:



Note: Leave section blank, if item N/A.

BMP Inspection Form - Bioretention				
BMP #:	Tax Map #:	Date:	_/	_/ 20

Inspector: \_\_\_\_\_

BMP Elements	Problems	Recommended Solution*	Checked? (Y/N)	Maint. Req'd.?	Comments
	Inadequate vegetation	Supplement as necessary			
	There is excessive trash/debris	Remove as soon as possible			
Contributing	There is evidence of erosion and / or bare or exposed soil	Depending on severity, monitor or stabilize the area (reseed/revegetate)			
Drainage Area	There are excessive landscape waste or yard clippings	Remove as soon as possible, and recycle or compost			
	Oil, grease, or other unauthorized substances are entering the facility	Identify and control the source of this pollution. It may be necessary to erect fences, signs, etc.			
	There is inadequate access to the pre-treatment facility	Establish adequate access			
	Stormwater discharge is ponding at point of disconnection	Remove as soon as possible			
Pre-Treatment	There is evidence of clogging (standing water, noticeable odors, water stains, algae, floating aquatic vegetation, or oil/grease)	Identify and eliminate the source of the problem. If necessary, remove and clean, or replace the clogged material			
	There is evidence of erosion and / or bare or exposed soil	Depending on severity, monitor or stabilize the area (reseed/revegetate)			
	There is dead vegetation or exposed soil in the grass filter	Replace dead vegetation as necessary			



BMP Elements	Problems	Recommended Solution*	Checked? (Y/N)	Maint. Req'd.?	Comments
	Check for sediment build-up at curb cuts, gravel diaphragms, or pavement edges that prevent flow from getting in the bed, and check for bypassing	Remove sediment and correct any other problems that block inflow			
	There is excessive trash/debris/sediment	Remove as soon as possible			
Inlets	There is evidence of erosion and / or bare or exposed soil at or around inlet	Depending on severity, monitor or stabilize the area (reseed/revegetate)			
	Inflow is hindered by trees and/or shrubs	Remove woody vegetation from points of inflow and directly above underdrains (trees and shrubs may be located closer to the perimeter			
	There is evidence of rill or gully erosion or bare soil	Identify the source of erosion damage and prevent it from recurring. Depending on severity, monitor or stabilize the area (reseed/re-vegetate)			
Side Slopes	There is excessive sediment accumulation	Remove as soon as possible			
	Side slopes support nuisance animals	Animal burrows must be backfilled and compacted. Burrowing animals should be humanely removed from the area			
Vegetation	Plant composition is inconsistent with the approved plans	Determine if existing plant material is at least consistent with general bioretention design criteria and replace inconsistent species			



BMP Elements	Problems	Recommended Solution*	Checked? (Y/N)	Maint. Req'd.?	Comments
	There should be 75%-90% cover (mulch + vegetation) and the mulch cover should be 2"-3" deep	Supplement vegetation and mulch as needed			
	There is evidence of hydrocarbons or other deleterious materials, resulting in unsatisfactory plant growth or mortality	Replace contaminated mulch. If problem persists, test soils for hydrocarbons and other toxic substances. If excess levels are found, the soils, plants, and mulch may all need to be replaced in accordance with the approved construction plans			
Vegetation	Invasive species or weeds make up at least 10% of the facility's vegetation	Remove invasive species and excessive weeds as soon as possible and replace vegetation as needed			
	The grass is too high	Mow within a week. Grass species should be selected that have dense cover, are relatively slow growing, and require the least mowing and chemical inputs. Grass should be from 6"-10" high			
	Vegetation is diseased, dying, or dead	Remove and replace. Increase watering, but avoid using chemical fertilizers, unless absolutely necessary			
	Winter-killed or salt-killed vegetation is present	Replace with hardier species			



BMP Elements	Problems	Recommended Solution*	Checked? (Y/N)	Maint. Req'd.?	Comments
	The filter media is too low, too compacted, or the composition is inconsistent with design specifications	Raise the level, loosen and amend, or replace the media, as needed, to be consistent with the state design criteria for bioretention (85%-88% sand, 8%-12% soil fines, 3%-5% organic matter in form of leaf compost). Other remediation options are described in the maintenance section of the state design criteria for bioretention			
	The mulch is older than 3 years or is otherwise in poor condition	The mulch must be replaced every 2-3 years			
Filter Media	There is evidence that chemicals, fertilizers, and/or oil/grease are present	Remove undesirable chemicals from media and facility as soon as possible. Replace mulch or media as needed			
	There is excessive trash/debris/sediment accumulation	Remove trash and debris as soon as possible. Check plant health, and without damaging plants, manually remove the sediment, especially if the depth exceeds 20% of the facility's design depth			
	There is evidence of concentrated flows, erosion, or exposed soil	Identify the source of erosion damage and prevent it from recurring. Depending on severity, monitor or stabilize the area (reseed/re-vegetate)			
	The filter bed is clogged and/or filled inappropriately	Redistribute the soil substrate and remove sediment within 2 weeks			



BMP Elements	Problems	Recommended Solution*	Checked? (Y/N)	Maint. Req'd.?	Comments
	The topsoil is in poor condition (e.g. the pH level is not 6-7, the composition is inappropriate, etc.)	Ensure a 3-inch surface depth of topsoil consistent with the state design criteria for bioretention (loamy sand or sandy loam texture, with less than 5% clay content, and organic matter content of at least 2%). If pH is less than 6.5, spread lime			
	The perforated pipe is not conveying water as designed	Determine if the pipe is clogged with debris or if woody roots have pierced pipe. As necessary, clean out or replace pipe			
Underdrain / Proper Drainage	The underlying soil interface is clogged (there is evidence on the surface of soil crusting, standing water, the facility does not dewater between storms, or water ponds on the surface of basin for more than 48 hours after a rain event)	Measure the draw-down rate of the observation well for 3 days following a storm event in excess of 1/2 inch in depth. After 3 days, if there is standing water on top but not in the underdrain, this indicates a clogged soil layer that must be replaced. If standing water is both on the surface and in the underdrain, then the underdrain is probably clogged. This should be promptly investigated and remediated to restore proper filtration. Grading changes or underdrain repairs may be needed. The filter media may need to be raked, excavated, cleaned, or replaced to correct the problem			



BMP Elements	Problems	Recommended Solution*	Checked? (Y/N)	Maint. Req'd.?	Comments
Planters	The planter is unable to receive or detain stormwater prior to infiltration. Water does not drain from the reservoir within 3-4 hours after a rain event	Identify and correct sources of clogging. Topsoil and sand/peat layer may need to be amended with sand or replaced altogether			
Flamers	The planter has structural deficiencies including rot, cracks, or failure or the planter is unable to contain the filter media or vegetation	Make needed repairs as soon as possible			
	Outlets are obstructed or erosion and soil exposure is evident below the outlet	Remove obstructions and stabilize, as needed			
Outlet / Overflow Spillway	There is excessive trash/debris/sediment accumulation	Remove as soon as possible			
	Any grates present are in good condition	Repair or replace as necessary			
Observation Well	Is the observation well still capped?	Repair, as necessary			
	Access to the facility or its components is adequate	Establish adequate access. Remove woody vegetation and debris that may block access. Ensure that hardware can be opened and operated			
Overall	There is evidence of standing water	Fill in low spots and stabilize. Correct flow problems causing ponding			
	Complaints from local residents	Correct real problems			



BMP Elements	Problems	Recommended Solution*	Checked? (Y/N)	Maint. Req'd.?	Comments
	Mosquito proliferation	Eliminate stagnant pools if feasible, and treat for mosquitoes as needed. If sprays are considered, then a mosquito larvicide (such as Bacillus thurendensis or Altoside formulations) can be applied, only if absolutely necessary			
	Encroachment on the filter or easement by buildings or other structures	Inform involved property owners of BMPs status. Clearly mark the boundaries of the receiving pervious area, as needed			



## Appendix E

Annual Comprehensive Site Compliance Evaluation Checklist



## Annual Comprehensive Site Compliance Evaluation Checklist

The following site components shall be inspected annually:

- ✓ Vehicle Storage Areas
- ✓ Material and Equipment Storage Areas
- √ Fueling Station
- ✓ Maintenance Area
- ✓ Salt Storage Area

An Annual Comprehensive Site Compliance Evaluation assures that the Stormwater Pollution Prevention Plan (SWPPP) remains congruent with the duties and responsibilities of City Yards.

- Assessment of all known pollutant sources and evaluate their potential to contaminate stormwater.
- Assessment of all site pollution prevention measures to evaluate their adequacy and effectiveness, and if additional measures are necessary.
- Assessment of spill containment and/clean up equipment, and whether replacement or restocking is needed.

The following information shall be documented in the Annual Comprehensive Site Compliance Evaluation:

- Personnel who conducted the evaluation;
- Date of the evaluation;
- Results of the evaluation:
- SWPPP modifications required;
- SWPPP modification date; and,
- Event(s) of non-compliance and corrective action(s) taken.

Any revisions to the SWPPP required to address deficiencies noted in the Annual Comprehensive Site Compliance Evaluation shall be completed within 90 days. The Comprehensive Site Inspection Report / Checklist, Table E-1, is located in this Appendix (Appendix E) and shall be used to track the Annual Comprehensive Site Compliance Evaluations and document any SWPPP revisions.



## Table E-1 – Annual Comprehensive Site Compliance Evaluation Log

Date of	Assessor	SWPPP	Date of SWPPP
Assessment	(Name and	Revisions	Revisions
(mm/dd/yyyy)	`Position)	Required?	(Date or N/A)
( ),,,,,	,	(Ý/N)	,
		Select an Option	
		Select an Option	



## Appendix F

Site Specific Best Management Practices (BMP) and maintenance Schedule



## Site Specific BMPs and Inspection and Maintenance Schedule

### **Site Best Management Practices (BMPs)**

This section outlines the existing Stormwater (See Site Maps for Locations of BMPs) controls (both structural and nonstructural), which are currently in place in City Yard to prevent pollutants from entering the stormwater sewer system and adjacent Town Run.

#### **Existing Nonstructural BMPs**

**Good housekeeping:** The grounds are regularly inspected and checked for trash and litter by staff.

**Minimizing Exposure:** Hazardous materials are stored inside buildings as are all trash receptacles. There are no exterior dumpsters or trash receptacles on site. Any trash receptacles placed outside for collection are fitted with lids and all lids are to remain closed. Trash receptacles are not to be filled to the extent that the lid is prevented from closing.

### **Existing Structural BMPs**

**Stormwater Management Facilities:** There are 2 BMP currently in operation in City Yard. One (1) Bioretention Facility and one (1) Hydrodynamic Separator in the locations shown on the Site Maps and in the corresponding photolog. These BMPs provide water quality control for all stormwater leaving the City Yard facility via the stormwater system. Quantity control from City Yards is not required as all systems discharge to the floodplain of Town Run.

### **Maintenance of Stormwater Management Facilities**

The effectiveness of BMPs and Pollution Prevention measures depend on consistent inspection and routine maintenance. The General VPDES Permit for discharges of stormwater from Small Municipal Separate Storm Sewer Systems (MS4 Permit) states that an inspection and maintenance schedule for source controls BMPs shall be included in each SWPPP. As with the other sections of the SWPPP, the inspection and maintenance schedule should be evaluated and modified as necessary to accurately reflect the changing conditions on site. At a minimum, BMP inspections shall:

- Occur annually. All annual inspections are to be completed by the Stormwater Engineer;
- Include a visual inspection, and documentation of deficiencies, for all structural and nonstructural BMPs and Pollution Prevention measures;
- Address any follow up maintenance activities/corrective actions that may be needed;
- Include BMP specific comments that help define any reoccurring maintenance activities
  or routine maintenance issues (i.e. BMP is filled with trash and sediment, BMP has an
  oily sheen on surface, etc.)
- Include photo documentation that illustrates BMP locations, identified deficiencies, and SWPPP implementation progress;
- Be documented in an Inspection Report, located in this Appendix (Appendix E).
   Maintenance ensures that each specific BMP is functioning to its proper design standards. Maintenance should be addressed as a holistic task that encompasses preventative, routine, and irregular (non- routine) maintenance activities. BMP maintenance should adhere to the following parameters:



- All BMPs should follow their respective long-term maintenance plan and schedule, as applicable;
- If a long-term maintenance plan has not been developed, or is not available for a particular BMP, maintenance should be addressed on an "as needed" basis; and,
- All maintenance activities should be logged in the BMP Maintenance Log located in this Appendix (Appendix F).

Following the source control inspections and maintenance documentation, any revisions to the SWPPP, if needed, should be completed within 90 days. All inspection and maintenance revisions should be documented in the BMP Inventory Database located at: Z:\Engineering\Stormwater\BMPs\BMP Master Spreadsheet (DO NOT MOVE).xlsx.



## Table F-1 – BMP Inspection Log

Inspection Date	BMP/ P2 Measure	Deficiencies Noted	Type of Maintenance Required	Comments	Maintenance Addressed
6/23/2023	Bioretention Facility	None	None	Facility in good condition. Plants are established and mulch is stable	N/A



**APPENDIX 5: City BMP Maintenance Log** 

ID	Property Name	Project Address	PID	Тах Мар	Туре	Latitude	Longitude	Owner	Owners Address	HU Code ID	Receivin g Waters	Acres Treated	Impervio us Acres Treated	Const ructed ?	Online Date	BMP Agreeme nts	Who Maintains	Last Self- Inspectio n (Link)	Last City Inspectio n	Last 5 Yrs) In	Circuit Court Details	Site Plan	BMP Tracking	Notes
15	George Washington Autopark	131 North Kent Street	1991	173-1-P-4A-	Filterra	39.1854	-78.16334	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17		0.20		Yes	04/11/08	BMP Agreemen ts\North Cameron	Owners	04/12/17			Not Needed		BMP Tracking\ BMP Scans\SP-	
16	Castleman Subdivision	Mosby Street ROW	N/A	1-11-	Underground Detention	39.172	-78.176809	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17		6.39		Yes	11/27/07	N/A - City Owned	City, Donnie	04/12/17	05/17/23	Y	N/A - City Owned		BMP Tracking\ BMP Scans\SP-	
25	Cottages at Willow Lawn	1826 Tilghman Lane	8350	230-5-A-130-	Detention Basin (Dry Pond)	39.1698	-78.186442	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17		40.60		Yes		BMP Agreemen ts\Cottage s at	City, Justin + Willow HOA		05/17/23	N	Not Needed		BMP Tracking\ BMP Scans\SP-	
40	City of Winchester Regional BMP	100 West Tevis Street	9911	291-01 5E1-	Wet Extended Detention Level II	39.1536	-78.178672	City of Winchester	15 N. Cameron Street Winchester, VA 22601	16		78.90		Yes		N/A - City Owned	City, Justin		05/17/23	N	N/A - City Owned			
41	Friendship Fire Hall	627 North Pleasant Valley Road	9918	175-123B-	Detention Basin (Dry Pond)	39.1905	-78.149588	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17		50.50		Yes		N/A - City Owned	City, Parks		05/17/23	N	N/A - City Owned			
59	History and Tourism Center	1400 South Pleasant Valley Road	9996	234-114-	Rain Garden 1	39.1681	-78.161599	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17		1.63		Yes		N/A - City Owned	City, Parks		05/17/23	Y	N/A - City Owned		BMP Tracking\ BMP Scans\SP-	
60	History and Tourism Center	1400 South Pleasant Valley Road	9996	234-114-	Rain Garden 2A, 2B	39.1684	-78.161548	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17		1.77		Yes		N/A - City Owned	City, Parks		05/17/23	N	N/A - City Owned		BMP Tracking\ BMP Scans\SP-	
93	Morlyn Hills Subdivision	1511 Stone House court	8803	188-661-	Constructed Wetlands	39.1794	-78.19881	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17		0		Yes		N/A - City Owned	City, Justin		45063	Y	N/A - City Owned			Small trees growing on
100	Park Place	2024 Harvest Drive	8470	250-4-B-89-	Detention Basin (Dry Pond)	39.1656	-78.188443	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17		33.10		Yes		N/A - City Owned	City, Justin		05/17/23	Υ	N/A - City Owned			Remove trash from interior of basin.
107	Rolling Hills Park	702 Kennedy Drive	9798	289-71-	Detention Basin (Dry Pond)	39.1523	-78.188912	City of Winchester	15 N. Cameron Street Winchester, VA 22601	16		4.50		Yes		N/A - City Owned	City, Parks		05/17/23	Υ	N/A - City Owned			Remove trash from interior of basin
110	Selma Medical	330 Amherst Street	8578	172-1-F-15-C	Detention Basin (Dry Pond)	39.1882	-78.171073	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17		7.50		Yes		N/A - City Owned	City, Justin		05/17/23	Υ	Circuit Court Datafiles\ Selma		BMP Tracking\ BMP Scans\SP-	Cut and remove vegetatio n in
143	Westridge Section 1	2505 GOLDENFIELD LN	8923	269-4A-	Detention Basin (Dry Pond)	39.1605	-78.190464	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17		9.2		Yes		N/A - City Owned	City, Justin		05/17/23	N	Circuit Court Datafiles\ Westridge		Z:\Engine	Trash, Overgrow n, Cannot locate
144	Westridge Section 2	2653 WINDWOOD DR	8106	289-4-C-60-	Detention Basin (Dry Pond)	39.1573	-78.194134	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17		15.1		Yes		N/A - City Owned	City + owners, ???		05/17/23	N	Circuit Court Datafiles\ Westridge			3 Owners are responsibl e, but
146	Whittier Flood Gate	841 WHITTIER AVE	9797	171-6A-	Detention Basin (Dry Pond)	39.1894	-78.178424	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17		124.70		Yes		N/A - City Owned	City, Justin		05/17/23	Υ				
223	Spring Street	Spring Street ROW	N/A	1-12-	Filterra	39.1683	-78.164381	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17		0.05	0.05	Yes	09/30/15	N/A - City Owned	City, Justin (Public Works)		05/17/23	Y	Not Needed		BMP Tracking\ BMP Scans\SP-	

224	Spring Street	Spring Street ROW	N/A	1-12-	Filterra	39.1676	-78.164763	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.21	0.21	Yes	10/01/15	N/A - City Owned	City, Justin (Public Works)	05/17/23	Y	Not Needed	BMP Tracking\ BMP Scans\SP-
225	Spring Street	Spring Street ROW	N/A	1-12-	Filterra	39.1675	-78.164644	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.30	0.15	Yes	10/02/15	N/A - City Owned	City, Justin (Public Works)	05/17/23	Y	Not Needed	BMP Tracking\ BMP Scans\SP-
246	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1898	-78.191929	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.16	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05/17/23	Y	N/A - City Owned	BMP Remove Tracking\ trash and BMP replace Scans\Me mulch.
247	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1896	-78.192107	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.25	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05/17/23	Y	N/A - City Owned	BMP Remove Tracking\ trash and BMP replace Scans\Me mulch.
248	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1893	-78.191935	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.07	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05/17/23	Y	N/A - City Owned	BMP Remove Tracking\ trash and BMP replace Scans\Me mulch.
249	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1892	-78.191557	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.12	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05/17/23	Y	N/A - City Owned	BMP Remove Tracking\ trash and BMP replace Scans\Me mulch.
250	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1892	-78.191433	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.23	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05/17/23	Y	N/A - City Owned	BMP Remove Tracking\ trash and BMP replace Scans\Me mulch.
251	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1892	-78.191422	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.30	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05/17/23	Y	N/A - City Owned	BMP Remove Tracking\ trash and BMP replace Scans\Me mulch.
252	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1889	-78.19146	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.18	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05/17/23	Y	N/A - City Owned	BMP Remove Tracking\ trash and BMP replace Scans\Me mulch.
253	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1886	-78.190955	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.33	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05/17/23	Y	N/A - City Owned	BMP Remove Tracking\ trash and BMP replace Scans\Me mulch.
254	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1886	-78.190944	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.29	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05/17/23	Υ	N/A - City Owned	BMP Remove Tracking\ trash and BMP replace Scans\Me mulch.
255	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1887	-78.190779	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.20	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05/17/23	Y	N/A - City Owned	BMP Remove Tracking\ trash and BMP replace Scans\Me mulch.
256	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1887	-78.19076	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.16	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05/17/23	Υ	N/A - City Owned	BMP Remove Tracking\ trash and BMP replace Scans\Me mulch.
257	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1879	-78.190587	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.47	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05/17/23	Y	N/A - City Owned	BMP Remove Tracking\ trash and BMP replace Scans\Me mulch.
258	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1879	-78.190352	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.55	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05/17/23	Y	N/A - City Owned	BMP Remove Tracking\ trash and BMP replace Scans\Me mulch.
259	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1862	-78.191253	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.36	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05/17/23	Y	N/A - City Owned	BMP Remove Tracking\ trash and BMP replace Scans\Me mulch.

260	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1862	-78.19126	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.47	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05	5/17/23	Y	N/A - City Owned	BMP Tracking\ BMP Scans\Me	Remove trash and replace mulch.
261	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1861	-78.191018	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.20	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05	5/17/23	Y	N/A - City Owned	BMP Tracking\ BMP Scans\Me	Remove trash and replace mulch.
262	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1861	-78.191023	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.17	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05	5/17/23	Υ	N/A - City Owned	BMP Tracking\ BMP Scans\Me	Remove trash and replace mulch.
263	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1852	-78.191812	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.26	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05	5/17/23	Y	N/A - City Owned	BMP Tracking\ BMP Scans\Me	Remove trash and replace mulch.
264	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1852	-78.191824	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.20	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05	5/17/23	Y	N/A - City Owned	BMP Tracking\ BMP Scans\Me	Remove trash and replace mulch.
265	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1852	-78.191589	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.43	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05	5/17/23	Y	N/A - City Owned	BMP Tracking\ BMP Scans\Me	Remove trash and replace mulch.
266	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1851	-78.191596	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.34	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05	5/17/23	Y	N/A - City Owned	BMP Tracking\ BMP Scans\Me	Remove trash and replace mulch.
267	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1846	-78.191985	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.18	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05	5/17/23	Y	N/A - City Owned	BMP Tracking\ BMP Scans\Me	Remove trash and replace mulch.
268	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1846	-78.191993	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.22	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05	5/17/23	Y	N/A - City Owned	BMP Tracking\ BMP Scans\Me	Remove trash and replace mulch.
275	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1847	-78.191747	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.00	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05	5/17/23	Υ	N/A - City Owned	BMP Tracking\ BMP Scans\Me	Remove trash and replace mulch.
276	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1846	-78.191759	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.00	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05	5/17/23	Y	N/A - City Owned	BMP Tracking\ BMP Scans\Me	Remove trash and replace mulch.
277	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1832	-78.191659	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.00	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05	5/17/23	Υ	N/A - City Owned	BMP Tracking\ BMP Scans\Me	Remove trash and replace mulch.
278	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.183	-78.191822	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.00	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05	5/17/23	Υ	N/A - City Owned	BMP Tracking\ BMP Scans\Me	Remove
279	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1829	-78.191817	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.00	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05	5/17/23	Υ	N/A - City Owned	BMP Tracking\ BMP Scans\Me	Remove
281	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1828	-78.191576	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.00	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05	5/17/23	Y	N/A - City Owned	BMP Tracking\ BMP Scans\Me	Remove trash and replace
281	Meadow Branch Avenue ROW	Meadow Branch Avenue ROW	N/A	1-13-	Filterra	39.1828	-78.191576	City of Winchester	15 N. Cameron Street Winchester, VA 22601	17	0.00	0	Yes	07/01/17	N/A - City Owned	City, Justin (Public Works)	05	5/17/23	Y	N/A - City Owned	BMP Tracking\ BMP Scans\Me	Remove trash and replace

																				BMP	Remove
	02	Meadow Branch	Meadow Branch	NI/A		Filtorro	20 1001	70 101727	City of Minchaster	15 N. Cameron Street	17	0.00	0	Voc 0	N/A - City	City, Justin (Public	05/17/22	V	N/A - City	Tracking\	trash and
4	82	Meadow Branch Avenue ROW	Avenue ROW	N/A	1-13-	Fillerra	39.1691	-/8.191/3/	City of Winchester	15 N. Cameron Street Winchester, VA 22601	1/	0.00	U	res U	7/01/17 N/A - City Owned	Works)	05/17/23	T	Owned	ВМР	replace
																				Scans\Me	mulch.

APPENDIX 6: Pollution Prevention/Good Housekeeping for Municipal Operations: Standard Operating Procedures



## Section 1 - Purpose and Scope

Per the requirements of the General Permit for Discharges of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4 Permit), the City of Winchester shall develop and implement daily good housekeeping procedures, in accordance with Sec. II(B)(6)(a) and Table 1, for all applicable municipal operations within 24 months of permit coverage.

The scope of work includes daily good housekeeping procedures development in accordance with the MS4 Permit requirements for inclusion in the City's MS4 Program Plan.

## Section 2 - Background

Municipal operations such as vehicle/equipment storage and maintenance, grounds maintenance, and parking lot maintenance can be a source of stormwater pollution if good housekeeping practices are not implemented during active municipal operations. The Pollution Prevention/Good Housekeeping components of the MS4 Permit require municipalities to re-evaluate municipal operations and storm infrastructure management to develop written procedures that minimize or prevent pollutant discharge from their daily operations. The daily good housekeeping procedures assists the City of Winchester in meeting the MS4 Permit requirements and encourages City employees to use best management practices (BMPs) in their daily municipal operations.

Per Sec. I(E)(6)(a) of the MS4 Permit, the written procedures are designed to minimize or prevent pollutant discharge from (i)daily operations such as road, street, parking lot maintenance; (ii) equipment maintenance; and application, storage, transport, and disposal of pesticides, herbicides, and fertilizers. These written procedures, at a minimum, are designed to:

- 1. Prevent illicit discharges;
- 2. Ensure the proper disposal of waste materials, including landscape wastes;
- 3. Prevent the discharge of municipal vehicle wash water into the MS4 without authorization under a separate VPDES permit;
- 4. Prevent the discharge of wastewater into the MS4 without authorization under a separate VPDES permit:
- 5. Require implementation of best management practices when discharging water pumped from utility construction and maintenance activities;
- 6. Minimize the pollutants in stormwater runoff from bulk storage areas (e.g. salt storage, topsoil stockpiles) through the use of best management practices;
- 7. Prevent pollutant discharge into the MS4 from leaking municipal automobiles and equipment;
- 8. Ensure that the application of materials, including fertilizers and pesticides, is conducted in accordance with the manufacturer's recommendations.

To address the MS4 Permit requirements, six general operations within the City were identified and good housekeeping procedures were written for activities under each operation. These operations include:

- 1. Municipal Facilities/Operations
- 2. Parking Lot Maintenance
- 3. Vehicle/Equipment Maintenance
- 4. Grounds Maintenance
- 5. Municipal Operations
- 6. Utility Maintenance

The six City operations and associated procedures are described in Section 3 through Section 8. Unless otherwise stated, the City's Engineering Division, led by the City Engineer, is responsible for ensuring good housekeeping practices are implemented for all municipal facilities and operations. At the beginning of each section pertinent City departments responsible for implementing the good housekeeping procedures are

### Standard Operating Procedures (SOP) Winchester City Yards April 2023



identified.

Each standard operating procedure by itself is not intended to meet every requirement per Sec. II(B)(6)(a)(1-8); but the document as a whole meets all requirements listed.



## Section 3 - Standard Operating Procedures - Municipal Facilities

Municipal facilities have the potential to produce pollutants from their day-to-day operations. It is imperative to implement good housekeeping procedures on all municipal facilities.

Included in this section are general good housekeeping practices and general spill/leak cleanup procedures that are to be implemented on all municipal facilities by each facility supervisor. Facility inspections are to be completed and records maintained as specified in the following procedures for inclusion in the facility's Stormwater Pollution Prevention Plan (SWPPP) binder.

The City's Engineering Division will work in close coordination with each facility supervisor to ensure good housekeeping procedures are being applied and to ensure the City of Winchester remains compliant with the MS4 Permit requirements.



## **SOP 3.1 – Standard Operating Procedures - Municipal Facilities**

Municipal facilities have the potential to produce pollutants from their day-to-day operations. It is imperative to implement good housekeeping procedures on all municipal facilities.

Included in this section are general good housekeeping practices and general spill/leak cleanup procedures that are to be implemented on all municipal facilities by each facility supervisor. Facility inspections are to be completed and records maintained as specified in the following procedures for inclusion in the facility's Stormwater Pollution Prevention Plan (SWPPP) binder.

The City's Engineering Division will work in close coordination with each facility supervisor to ensure good housekeeping procedures are being applied and to ensure the City of Winchester remains compliant with the MS4 Permit requirements.

Purpose: To protect stormwater from pollutants by implementing general good housekeeping practices.

#### Practices:

- All operations and activities at the City yard facility are to be in accordance with the Stormwater Pollution Prevention Plan (SWPPP) developed under the VPDES General Permit for Discharges of Stormwater from Industrial Activities registration number VAR050822.
- Do not dispose of leaves, grass clippings, tree trimmings, trash, oil, fuel, sediment, or any other pollutant into a storm drain or water body.
- Keep open, exposed areas clean and protected from precipitation.
- Keep equipment, stockpiles, chemicals, paints, etc. covered.
- Post signs and labels in problem areas and areas containing hazardous materials.
- Consider additional control measures in conjunction with coverings; including curbing, grading, or elevating materials to divert stormwater run-on and to contain stormwater run-off.
- Identify and label any storm drain inlets at or near the facility to notify employees and contractors not to dispose of any materials or waste.
- Do not wash down or hose down any outdoor work areas or trash/waste container storage areas except where wash water will only enter the sanitary sewer following treatment.
- Recycle waste, used oil, solvents, grease rags, wash water, and other spent liquids. Store materials to be recycled under cover with secondary containment.
- Install secondary containment devices where appropriate. Secondary controls include curbing, drip pans, basins, sumps, oil/water separators, catch basin inserts, oil pads/skimmers, and impervious work areas.
- Use oil/water separators, or other commercially available devices to minimize oil and grease discharge to stormwater runoff.
- Stabilize or cover exposed denuded areas to minimize erosion and sedimentation during rain events. This can be done by applying mulch or permanent vegetation that will hold the soils in place.
- Install erosion and sediment controls in accordance with the *Virginia Erosion and Sediment Control Handbook* (VESCH) as needed during construction and utility maintenance activities.
- Do not use chemicals when cleaning outside of buildings. Filter building wash water before it enters the storm drain.
- If possible, dispose of building wash water at an approved location connected to sanitary sewer.

#### Inspections/Maintenance/ Spill Response /Reporting:

• Schedule routine inspections focusing on areas that have a greater potential to spill, leak, discharge into stormwater runoff.

#### Standard Operating Procedures (SOP) Winchester City Yards April 2023



- Monitor floor drains and storm inlets and/or catch basins, and inspect, remove/replace as appropriate.
- Inspect oil/water separators and floor drain systems periodically to determine maintenance needs.
- Inspect equipment and storage areas at regularly scheduled days/times for leaks and spills. If leaks or spills occur, clean up in accordance with SOP 3.2.
- Keep up-to-date records of site inspections including by whom, when, and where inspections were done, what was found, and any actions that were taken because of the inspections.



## SOP 3.2 - Standard Operating Procedures - Municipal Facilities

<u>Purpose</u>: To protect stormwater from spilled pollutants by implementing proper spill cleanup procedures and preventative measures.

#### Practices:

- Do not use water to clean up spills/leaks.
- Do not wash spills/leaks into storm drain, ditch, creek, stream, pond, wetland or any other water body.
- Do not leave spill/leak without cleaning it up.
- Stop the source of the spill/leak immediately, if safe to do so.
- Contain any spilled/leaked liquids, if safe to do so.
- Clean up spill/leak in accordance with spill kit directions.
- Inspect City vehicles/equipment before leaving City property yard.
- Sweep up granules and dispose of properly.
- Install control measures on nearby storm drains and water bodies if spill could potentially reach the stormwater systems.
- Position mats to contain leaks from vehicles and equipment until they can be repaired.
- Use secondary containment under or around petroleum and chemical storage containers.
- Notify supervisor of any spills greater than five (5) gallons or any spill that reaches the storm drain. If a supervisor is unavailable, call the stormwater hotline (540)-542-1346 or the Police Department's non-emergency line (540)-662-4131. Immediately call 911 if a spill presents a threat to health or safety or is considered an emergency.

#### <u>Inspections/Maintenance/ Spill Response / Reporting:</u>

- Develop and maintain a site-specific spill prevention/spill response plan.
- Maintain a spill kit in areas where petroleum or hazardous materials are stored.
- Maintain spill kits on all City owned equipment/vehicles that are used for municipal operations.
- Notify supervisor of any spills greater than five (5) gallons or any spill that reaches the storm drain. If a supervisor is unavailable, call the stormwater hotline (540)-542-1346 or the Police Department's non-emergency line (540)-662-4131. Immediately call 911 if a spill presents a threat to health or safety, or is considered an emergency.

#### Training:

• Train applicable employees in site specific spill response procedures and equipment.

The City shall provide daily good housekeeping training for City owned/operated facilities for all applicable City employees in accordance with the City of Winchester Stormwater Training Plan.



# Section 4 – Standard Operating Procedures – Road, Street, and Parking Lot Maintenance

Road, street, and parking lot maintenance activities have the potential to produce pollutants that may discharge into stormwater runoff if good housekeeping procedures are not implemented in and around municipal parking lots. Potential sources of these pollutants may include parked cars, dumpsters, trash cans, and material stockpiles.

Included in this section are good housekeeping practices for municipal road, street, and parking lot maintenance operations. The procedures are to be implemented on all City owned/operated roads, streets, and parking lots and all construction activities associated with these facilities.

The City's Department of Parks and Recreation (DPR) is responsible for ensuring that all applicable DPR employees comply with the following procedures for parking lots associated with City parks and recreation facilities. Likewise, the City's Department of Public Works (DPW) is responsible for ensuring that the Streets Division staff comply with these procedures for maintenance activities associated with roads and streets. If applicable, all inspections for municipally owned parks and recreation parking lots are to be completed and records maintained for inclusion in the facility's SWPPP binder.

The City's Engineering Division will work in close coordination with the DPR and DPW to ensure good housekeeping procedures are being applied to all municipally owned/operated roads, streets, and parking lots and during construction/maintenance operations to ensure that the City of Winchester remains compliant with the MS4 Permit requirements.



## Section 4.1 – Standard Operating Procedures for Road, Street, and Parking Lot Maintenance.

<u>Purpose</u>: To protect stormwater from trash and debris by properly cleaning and maintaining roads, streets, and parking lots through general practices.

#### Practice:

- Sweep all City maintained roads and streets in accordance with the City's established street sweeping schedule.
- Dispose of street sweeping material properly and never store street sweeping material in areas where storm water could transport fines to the storm drain system or a waterbody.
- Locate trash cans and dumpsters in areas that are readily accessible to users.
- Do not hose down parking lots or sidewalks within parking lots.
- Do not sweep trash, sediment, or any other pollutants to or down a storm drain or water body.
- Do not place trash cans or dumpsters near a storm drain or water body.
- Do not place hazardous waste in a dumpster or trash can.
- Do not wash out dumpsters. Return to owner for cleaning at owner's facility. If municipally owned containers
  must be washed, do so in an approved location where wastewater is either recycled or treated before
  discharging to the sanitary sewer with approval.
- Locate trash cans or dumpsters on a flat concrete surface that does not drain towards a storm drain or water body.
- Ensure all trash cans and dumpsters within parking lots remain covered and have no leaks.
- Request/use dumpsters with properly plugged drain holes whenever possible.
- Pick up trash and debris and dispose of in covered trash can or dumpster.
- Empty trash cans and dumpsters scheduled days/times. Do not overfill trash cans or dumpsters.
- Provide properly labeled recycling bins in an area readily accessible to users to reduce the amount of garbage disposed.

#### <u>Inspections/Maintenance/ Spill Response / Reporting:</u>

- Inspect parking lots for trash and debris at regularly scheduled days/times.
- Inspect trash cans and dumpsters at regularly scheduled days/times for leaks, corrosion, broken/missing lids or leaking drain valves.
- Maintain street sweeping equipment for maximum effectiveness.
- Immediately repair or replace any damaged trash cans or dumpsters.
- Regularly inspect parking lots for leaks and spills. If leaks or spills occur, clean up in accordance with SOP 3.2.
- Keep up-to-date records of site inspections including by whom, when, and where inspections were done, what
  was found, and any actions that were taken as a result of the inspections. Document all relevant inspection
  activities on the proper forms provided in the SWPPP.

#### Training:

• The City shall provide daily good housekeeping training for City owned/operated facilities for all applicable City employees in accordance with the City of Winchester Stormwater Training Plan.



## Section 4.2 – Roads, Streets, & Parking Lot Maintenance - Salt/Deicing Application

Purpose: To protect stormwater from salt/deicers and sand by properly storing and applying the materials.

#### Practice:

- Do not store salt, sand, deicer, or snow near storm drain or water body.
- Do not dispose of salt, sand, deicer, or snow in a storm drain or water body.
- Do not use nitrogen or phosphorus as deicing agents.
- Apply appropriate amount of salt, sand, or deicer as needed to be effective.
- When loading salt, sand, or deicer, minimize salt spillage by not exceeding the capacity of equipment (i.e. front end loader, truck bed).
- When unloading salt, sand and deicer materials move excess materials that may have fallen outside of desired storage area to the desired storage area.
- Operate equipment at low speed for effective spreading.
- Control spread patterns to concentrate material where most effective.
- Consider the use of deicing alternatives such as calcium magnesium acetate, potassium acetate, sand, etc. in sensitive areas.
- If using sand, use coarse, clean (washed) sand, which is free of fine particles and dust and easier to clean in the spring.
- Locate salt, sand, or deicer stockpiles on flat, covered, impervious sites that are protected from runoff and divert run-on around stockpile. Store salt, sand, or deicer in accordance with SOP 5.1.
- Provide diversion where runoff leaves salt storage area to direct runoff to holding tank or stormwater treatment device.
- Where possible, remove snow manually without the use of salt/deicer.

#### Inspections/Maintenance/ Spill Response /Reporting:

- Regularly inspect salt/deicer storage area to ensure the area remains dry and the materials remain within the designated storage area.
- During the winter months, regularly inspect spreader equipment and calibrate to manufacturer's specifications to maximize the effectiveness of the equipment.
- Maintain accurate logs of amount of salt/deicing material applied to each parking lot.
- Keep up-to-date records of inspections including by whom, when, and where inspections were done, what was found, and any actions that were taken as a result of the inspections. Document all relevant inspection activities on the proper forms provided in the SWPPP.

#### Training:

The City shall provide daily good housekeeping training for City owned/operated facilities for all applicable City employees in accordance with the City of Winchester Stormwater Training Plan.



## Section 4.4 – Roads, Streets, and Parking Lot Maintenance – Erosion and Sediment Control

<u>Purpose</u>: To protect stormwater from pollutants during construction or maintenance operations by implementing proper erosion and sediment control practices.

#### Practice:

- Do not stockpile materials near storm drains or water bodies.
- Do not remove erosion control measures before construction or maintenance operations are complete and stabilized.
- Do not dispose of sediment or other captured pollutants in a storm drain or a water body.
- Prior to moving control measures, inspect the site and ensure all accumulated debris or other pollutants are cleaned up and removed.
- Minimize the land disturbance and stabilize the disturbed area once construction or maintenance is complete.
- Divert clean water around construction or maintenance sites.
- Install erosion control devices in accordance with the VESCH.
  - o Install inlet protection on all storm drain inlets near the construction or maintenance operations, per Chapter 3.07 of the VESCH, or approved equivalent.
  - Contain material stockpiles (salt, topsoil, gravel) to prevent pollutant runoff. Stockpiles should be temporary and removed once construction or maintenance is complete and stabilized.
  - o If needed, install sediment traps and basins per Chapters 3.13 and 3.14 of the VESCH to protect downstream channels and water bodies from sediment runoff.
  - o Cover bare soil with mulch or other approved cover to prevent sediment runoff.
  - Use an appropriately sized sediment dewatering device when dewatering construction or maintenance area. Dispose of captured sediment at a properly permitted location prior to removing storm drain protection.
- Regularly inspect and maintain erosion and sediment control devices.

#### <u>Inspections/Maintenance/ Spill Response / Reporting:</u>

- Inspect, maintain, and repair control measures in accordance with the VESCH and the Virginia Erosion and Sediment Control Regulations and the Virginia Erosion and Sediment Control Law.
- Keep up-to-date records of inspections including by whom, when, and where inspections were done, what was found, and any actions that were taken because of the inspections. Document all relevant inspection activities on the proper forms provided in the SWPPP.

#### Training:

• The City shall provide daily good housekeeping training for City owned/operated facilities for all applicable City employees in accordance with the City of Winchester Stormwater Training Plan.



## Section 5 – Standard Operating Procedures – Vehicle / Equipment

Vehicle and equipment maintenance operations include fueling, washing, repairing, maintaining, and storage for large and small vehicles (fire trucks, emergency vehicles, and utility vehicles) and large and small equipment (lawn mowers, weed-eaters, chemical spreaders). Both operations have the potential to produce pollutant discharge if good housekeeping procedures are not implemented.

Included in this section are good housekeeping practices for vehicle and equipment maintenance operations. The procedures are to be implemented on all City owned/operated facilities where vehicles and equipment are stored and maintained.

The DPR is responsible for ensuring all applicable DPR employees comply with the following procedures. Inspections are to be completed and records maintained as specified in the following procedures for inclusion in the facility's SWPPP binder. If applicable, all inspections for municipally owned parks and recreation parking lots are to be completed and records maintained for inclusion in the facility's SWPPP binder.

The City's Engineering Division will work in close coordination with the DPR to ensure good housekeeping procedures are being implemented where vehicles and equipment are being stored and maintained to ensure that the city remains compliant with the MS4 Permit requirements.



### Section 5.1 - Vehicle / Equipment - Storage and Maintenance

<u>Purpose</u>: To protect stormwater from solvents, antifreeze, battery acid, motor oil, fuel, grease, brake fluid, metals, and sediment by properly storing and maintaining the vehicles and equipment.

#### Practice:

- Do not park vehicles or place equipment over, on, or near a storm drain or water body.
- Do not store vehicles or equipment near storm drains or water bodies.
- Do not dispose of fluids in storm drains or water bodies.
- Whenever possible, store vehicles and equipment inside to minimize the potential for pollutant discharge in stormwater runoff. Where indoor storage is not possible, store on paved areas and under a covered facility.
- If storing vehicles and equipment inside, ensure floor drains have been properly connected and do not outfall into storm drain system. If the drain does outfall to a storm drain system, floor drain should be sealed.
- Store drums, tanks, and containers in low-traffic areas and on pallets.
- Store cracked batteries in leak-proof secondary containers.
- Store drip pans and draining boards in designated and marked holding tubs for reuse.
- Store limited amounts of solvents, antifreeze, motor oil, fuel, grease, etc. to prevent surplus or expiration of fluids. Store in a dry controlled area.
- Store salt, sand, or deicer in limited amounts under cover. If stockpiled outdoors, cover with tarp to minimize stormwater runoff and install fabric barrier around to capture polluted runoff.
- Vehicle maintenance activities must be performed inside the fleet maintenance garages.
- Use drip pans and other containment devices to prevent spills when performing maintenance.
- Move leaking vehicles and equipment indoors or under cover as soon as possible and use a drip pan to contain any leaks as needed. If possible, drain the leaking fluid and tag the vehicle/equipment to alert others of the leak.
- Clean equipment prior to placing in storage. Equipment shall be washed in a controlled location in accordance with SOP 5.2.
- Clean trucks, equipment and tools in designated equipment wash facilities where wash water will not drain to a storm drain, ditch, creek, stream, pond, wetland or any other water body.
- Use non-hazardous cleaners when possible.
- Use steam cleaning, pressure washing, or aqueous washers instead of solvents.
- Drain all liquid filters before disposal or recycling and dispose of properly.
- Pour drip pan fluids in appropriate waste/recycle containers as the first step in clean up after repair work is completed.
- Dispose of or recycle all fluids properly.

#### <u>Inspections/Maintenance/ Spill Response / Reporting:</u>

- Inspect parking areas for stains, leaks, and spills at regularly scheduled days/times.
- Inspect equipment, drums, tanks, and containers for leaks, condition, proper storage and proper labeling.
- Maintain vehicles and equipment on a regular basis to prevent leaks.
- Sweep maintenance areas at regularly scheduled days/times to remove dirt/debris.
- Pickup and dispose of waste materials and scrap equipment at regularly scheduled days/times.
- If leaks or spills occur, clean up in accordance with SOP 3.2.
- Keep up-to-date records of site inspections including; by whom, when, and where inspections were done, what was found, and any actions that were taken as a result of the inspections.



### **Training:**

• The City shall provide daily good housekeeping training for City owned/operated facilities for all applicable City employees in accordance with the City of Winchester Stormwater Training Plan.



## Section 5.2 - Vehicle / Equipment - Washing Areas

<u>Purpose</u>: To protect stormwater from detergents, oils, grease, and heavy metals by properly washing vehicles and equipment.

#### Practice:

- All vehicles must be washed in the City Yards wash bay.
- Clean trucks, equipment and tools in designated equipment wash facilities where wash water will not drain to a storm drain, ditch, creek, stream, pond, wetland or any other water body.
- Do not release vehicle/equipment wash water into a storm drain or water body without prior authorization under a separate VPDES permit.
- If no wash facility is available, clean equipment over a layer of absorbent material spread on a paved surface and/or heavy plastic sheeting and install curbs, berms, or dikes around outdoor wash area to control and contain wastewater. Use wet/dry vacuum or vacuum truck to collect wash water and discharge to the sanitary sewer.
- Use drain guards (filter inserts) or approved equivalent on nearby storm drain inlets to catch sediments and other pollutants that might enter the storm drains as a result of vehicle washing.
- Avoid detergents whenever possible. If detergents are necessary, a phosphate-free, non-toxic, biodegradable soap is recommended.
- Minimize water use when washing and rinsing.

#### <u>Inspections/Maintenance/ Spill Response / Reporting:</u>

- Inspect and maintain washing equipment such as hoses, wands, and nozzles at regularly scheduled days/times to ensure said devices are delivering proper rate of water and shutoff automatically when not in use.
- Where wash racks are used, inspect for leaks, overspray, or other signs of ineffective containment. Immediately correct any observed defects. Clean periodically to remove particulate matter and other pollutants.
- Inspect plumbing, recycling, and pretreatment systems at regularly scheduled days/times to ensure they are functioning properly.
- Keep up-to-date records of site inspections including; by whom, when, and where inspections were done, what was found, and any actions that were taken as a result of the inspections.

#### Training:

The City shall provide daily good housekeeping training for City owned/operated facilities for all applicable City employees in accordance with the City of Winchester Stormwater Training Plan.



## Section 5.3 - Vehicle / Equipment - Fueling Areas

<u>Purpose</u>: To protect stormwater from gasoline and diesel fuel by properly maintaining fueling areas and by properly fueling vehicles and equipment.

#### Practice:

- Do not fuel vehicle or equipment near storm drain or water body.
- Do not hose down or bury fuel spills.
- Do not "top off" fuel tanks. This will minimize the possibility of spills.
- Use a permitted off-site facility such as a fuel/gas station to refuel vehicles and equipment, whenever possible.
- If refueling onsite, use a designated fueling area. Designated fueling area should contain a spill kit, spill response practices, and a covered garbage can for proper cleanup and disposal of spilled fuel.
- Protect fuel storage tanks whenever possible to prevent polluting stormwater runoff.
- Cover nearby storm drains during loading/transfer of fuel storage tanks.
- Use overflow protection devices on tanks and enclose fuel tanks with secondary containment.
- When fueling small equipment from portable containers, fuel in a designated area away from storm drains and water bodies. Use a funnel to minimize spills.
- Fuel carefully to minimize drips to the ground.
- Use absorbent material under small equipment during fueling to collect any drips, overflow, or leaks.
- For new or remodeled facilities, the fuel-dispensing area should be covered and paved with an impervious surface. The surface should be sloped to prevent ponding and contain a grade break that allows for polluted runoff to drain inward to a contained area and the remaining runoff to be diverted away from the fueling, storage, and disposal area.

#### Inspections/Maintenance/ Spill Response /Reporting:

- Inspect fueling equipment at regularly scheduled days/times for corrosion and structural failure, cracks in foundations, and physical damage to container systems.
- Maintain clean fuel dispensing areas using dry cleanup methods.
- Maintain fuel storage tanks in accordance with local, state, and federal laws.
- Regular maintenance is required if oil/water separators are used.
- Inspect fuel storage area and tanks at regularly scheduled days/times for leaks, overfills due to operator error and spills during pumping from truck to storage facility or vice versa. If leaks or spills occur, clean up in accordance with SOP 3.2.
- Keep up-to-date records of site inspections including; by whom, when, and where inspections were done, what was found, and any actions that were taken as a result of the inspections. Document all relevant inspection activities on the proper forms provided in the SWPPP.

#### **Training:**

• Train applicable employees and subcontractors on proper fueling methods and spill cleanup materials.

The City shall provide daily good housekeeping training for City owned/operated facilities for all applicable City employees in accordance with the City of Winchester Stormwater Training Plan.



## Section 6 – Standard Operating Procedures – Grounds Maintenance

Grounds maintenance activities such as mowing, tree trimming, irrigating, fertilizing, spraying pesticides, etc. have the potential to produce pollutant discharge if good housekeeping procedures are not implemented during grounds maintenance operations.

Included in this section are good housekeeping practices for grounds maintenance operations. The procedures are to be implemented on all City owned/operated facilities where vegetated areas are maintained and fertilizers, pesticides, and herbicides are applied, handled, and stored.

The DPR is responsible for ensuring all applicable DPR employees comply with the following procedures. If applicable, all inspections for municipally owned parks and recreation facilities are to be completed and records maintained for inclusion in the facility's SWPPP binder.

The City's Engineering Division will work in close coordination with the DPR to ensure good housekeeping procedures are being implemented during grounds maintenance operations to ensure that the City remains compliant with the MS4 Permit requirements.



# Section 6.1 – Grounds Maintenance – Storage and Disposal Pesticides, Herbicides, and Fertilizers

<u>Purpose</u>: To protect stormwater from untreated chemicals by properly storing and disposing of pesticides, herbicides, and fertilizers.

#### Practice:

- Do not store pesticides, herbicides, and fertilizers near storm drains or water bodies.
- Do not dispose of pesticides, herbicides, and fertilizers near or in storm drains or water bodies.
- Store pesticides, herbicides, and fertilizers in accordance with manufacturer's specifications.
- Where possible, store pesticides, herbicides, and fertilizers in an enclosed, controlled area. (i.e. locked storage shed or cabinet)
- Use proper containers for storing chemicals and clearly label.
- Use and clearly label secondary containers.
- Store Material Safety Data Sheets (MSDS) near chemical storage areas.
- Order only the amount needed to prevent surplus or expired chemicals.
- Order chemicals just prior to usage to reduce storage time.
- Use entire order of chemicals to minimize disposal.
- If disposal is necessary dispose of fertilizers and pesticides in accordance with manufacturer's specifications and applicable regulations.
- Follow all applicable federal and state regulations for storing pesticides, herbicides, and fertilizers.
- Maintain dog park signs, enforce dog park rules as stated on signage and clean up after dogs as appropriate.
- Maintain "Do Not Feed Geese" signs and clean up after geese as appropriate.

#### <u>Inspections/Maintenance/Spill Response / Reporting:</u>

- Annually check expiration dates and dispose of expired products in accordance with the manufacturer's specifications.
- Keep an up-to-date inventory of all pesticides, herbicides and fertilizers stored. The list should include the name of the product, the manufacturer, the number of bags/containers and expiration date.
- Compile a binder of all Material Safety Data Sheets (MSDS) for pesticide, herbicides and fertilizers and have a general location to store it.
- Keep an up-to-date list of all Certified Pesticide Applicators.
- Keep an up-to-date list of pesticides, herbicides and fertilizers being applied. The list should include the name of the product, employee who applied the product, date of application, amount applied and location.
- Inspect storage areas at regularly scheduled days/times for leaks and spills. If leaks or spills occur, clean up in accordance with SOP 3.2.
- Keep up-to-date records of site inspections including; by whom, when, and where inspections were done, what was found, and any actions that were taken as a result of the inspections.

#### **Training:**

• All applicable employees who handle or apply pesticides and herbicides shall be certified in accordance with the Virginia Pesticide Control Act through Virginia Department of Agriculture and Consumer Services (VDACS).

The City shall provide daily good housekeeping training for City owned/operated facilities for all applicable City employees in accordance with the City of Winchester Stormwater Training Plan.



# Section 6.2 – Grounds Maintenance – Handling and Application of Pesticides, Herbicides, and Fertilizers

<u>Purpose</u>: To protect stormwater from untreated chemicals by properly handling and applying pesticides, herbicides, and fertilizers.

#### Practice:

- Do not apply pesticides, herbicides, and fertilizers before a heavy rainfall.
- Do not dispose of pesticides, herbicides, and fertilizers in storm drains or water bodies.
- City employees who use or supervise the use of any pesticide on any area in the performance of their official duties must be certified as either commercial applicators not for hire or a registered technician.
- City employees who use or supervise the use of any fertilizer on any area in the performance of their official duties must be a certified fertilizer applicator.
- Use proper Personal Protection Equipment (PPE) when handling and applying pesticides, herbicides, and fertilizers.
- All employees handling, mixing, and applying pesticides, herbicides, and fertilizers should be knowledgeable of the corresponding MSDS for pesticides, herbicides, and fertilizers.
- Mix only enough chemical for immediate use.
- Follow manufacturer's recommendations for handling, mixing, and applying pesticides, herbicides, and fertilizers.
- Follow all federal and state regulations when handling, mixing, and applying pesticides, herbicides, and fertilizers.
- Mix pesticides, herbicides, and fertilizers in designated areas and away from storm drains or water bodies.
- Employees applying pesticides, herbicides, and fertilizers should read the MSDS for each product they use.
- Calibrate application equipment to ensure proper amount of product is applied.
- Use caution when broadcasting product near a waterway or storm drain structure.
- If fertilizer is broadcast or spilled on a sidewalk, street or driveway, sweep up the excess and dispose of in accordance with manufacturer's specifications.
- Promptly cleanup any spills or leakage. Use dry absorbent for liquids and sweep up solid product. Dispose of waste in accordance with manufacturer's specifications. Do not rinse with water.
- Use fertilizers with no phosphorous content.
- Pesticide application equipment should have an emergency shut-off switch.
- Use the least toxic product or method available to do the job.
- Use biodegradable products when available.
- Spot treat problem areas with pesticides rather than treating larger areas.
- Avoid broadcast spraying of pesticides or herbicides.
- Use the granular form of fertilizers, herbicides, and pesticides to minimize application losses. If using liquids, be aware of wind direction to avoid wind drift of chemicals.
- Wash equipment in accordance with SOP 5.2.
- Apply products when ground is thawed; if applicable, fertilizer in accordance with any pertinent Nutrient Management Plan (NMP), apply pesticides and herbicides only as needed.

#### <u>Inspections/Maintenance/Spill Response/Reporting:</u>

 Annually check expiration dates and dispose of expired products in accordance with the manufacturer's specifications.

## Standard Operating Procedures (SOP) Winchester City Yards April 2023



- Keep an up-to-date inventory of all pesticides, herbicides, and fertilizers stored. The list should include the name of the product, the manufacturer, the number of bags/containers and expiration date.
- Compile a binder of all MSDS for pesticides, herbicides, and fertilizers and have a general location to store it.
- Keep an up-to-date list of all Certified Pesticide Applicators.
- Keep an up-to-date list of pesticides, herbicides, and fertilizers being applied. The list should include the name of the product, employee who applied the product, date of application, amount applied and location.
- Regularly inspect storage areas for leaks and spills. If leaks or spills occur, clean up in accordance with SOP
   3.2.
- Keep up-to-date records of site inspections including; by whom, when, and where inspections were done, what was found, and any actions that were taken as a result of the inspections.

#### Training:

- All applicable employees who handle or apply pesticides and herbicides shall be certified in accordance with the Virginia Pesticide Control Act through Virginia Department of Agriculture and Consumer Services (VDACS).
- The City shall provide daily good housekeeping training for City owned/operated facilities for all applicable City employees in accordance with the City of Winchester Stormwater Training Plan.



# Section 6.3 – Grounds Maintenance – Mowing, Irrigation, and Disposal of Landscape Waste

<u>Purpose</u>: To protect stormwater from organic matter, sediments, nutrients, and other pollutants by using proper mowing and irrigation techniques and by properly disposing of landscape waste.

#### Practice:

- Do not dispose of leaves, clippings, or compost in storm drain or water body.
- Do not pile leaves, clippings, and compost piles near a storm drain or water body.
- Do not dump gas from lawn mowing equipment, waste, or contaminated water in storm drain or water body.
- Do not refuel or change mower oil near storm drains.
- Mow only as low as needed for the area's intended use. Where possible, mow once or twice a year to allow for meadow growth.
- Use a bag to catch grass clippings and appropriately dispose of clippings.
- Water at appropriate times (no rain in forecast and cooler time of day) and do not overwater. Overwatering can result in excess runoff.
- If used for composting, use appropriate compost bin away from storm sewer or water body.
- If temporary stockpile is necessary, cover leaves, clippings, and compost piles with tarp or enclose with a barrier so that runoff does not enter storm drain system or water body.
- Do not pile tree trimmings. Dispose of properly at a yard waste facility, chip material and use as mulch, or burn in controlled area as regulated under City Ordinances.

#### Inspections/Maintenance/ Spill Response /Reporting:

- Store and maintain lawn care equipment in controlled location per SOP 5.1.
- Wash lawn care equipment in controlled location per SOP 5.2.
- Fill gas tanks in a controlled location per SOP 5.3.
- Regularly inspect lawn care equipment and storage areas for leaks and spills. If leaks or spills occur, clean up in accordance with SOP 3.2.
- Keep up-to-date records of site inspections including; by whom, when, and where inspections were done, what was found, and any actions that were taken as a result of the inspections.

#### Training:

• The City shall provide daily good housekeeping training for City owned/operated facilities for all applicable City employees in accordance with the City of Winchester Stormwater Training Plan.



## Section 6.4 - Grounds Maintenance - Portable Toilet Management

#### Purpose:

To protect stormwater from bacteria, organic matter, disinfectants, and suspended solids by properly placing and maintaining portable toilets.

#### Practices:

- Do not place toilets on top of storm drain inlets.
- Do not dispose of waste or pollutants in storm drains or water bodies.
- Portable toilets should be placed away from all storm drains and streets.
- Portable toilets should not be located adjacent to any stream or lake.
- Portable toilets shall be placed on a level ground surface that provides unobstructed access to users and servicing pump trucks.
- Portable toilets should, wherever possible, be located upon natural ground and not on or within 5 feet of a paved surface such as asphalt, concrete, or similar.
- If portable toilets must be placed on a paved surface exposed to rainwater or stormwater runoff, extra care
  must be taken during servicing to ensure any wastewater spilled onto the paved surface is rinsed and
  adequately collected so as not to leave any residue. A wet shop vacuum or similar would provide for adequate
  collection.
- To prevent spills, portable toilets should not be moved more often than is absolutely necessary.
- Portable toilets should be anchored down to prevent from tipping over.
- Owner identification and contact information must be effectively displayed in a prominent location on the exterior of each unit for reporting purposes.
- Collected portable toilet waste must be disposed of at a properly permitted wastewater disposal facility by a
  capable servicing company. Users of portable toilets should make all reasonable efforts to ensure that the
  waste hauler is disposing of waste at a permitted location.
- Damaged toilets must be repaired and/or replaced immediately.

#### Inspections/Maintenance/ Spill Response /Reporting:

- Clean and remove waste from portable toilets each week. Additional cleaning may be necessary depending on the volume of use.
- Portable toilet rinsing (excluding the inside of portable toilet waste tank) may be completed on site when the following conditions are met:
  - o Rinse water is controlled to prevent it from entering into a storm drain;
  - No more than one (1) gallon of rinse water is used per portable toilet (i.e. low volume highpressure cleaners, or bucket and rag. No common household hoses.);
  - Rinsing is completed away from a street or storm drain;
  - Where the portable toilet must be located on a paved surface, any rinse water that comes in contact with the paved surface must be adequately collected;
  - Where the portable toilet is located on a non-paved surface, rinsing should be completed at least 5
    feet away from a paved surface and rinsing wastewater is drained to the ground at a rate that allows
    it to immediately soak into the ground;
  - Rinse water generated during the cleaning of portable toilet waste tanks must not be discharged to the ground or to a storm drain and must be retained within the tank;
  - o Portable toilet wastewater (human waste/sewage) must never be disposed of on-site.



- Inspect portable toilets daily to ensure proper functionality and to detect leaks or spills. In the event of a toilet unit being tipped over, immediately lift the unit back to its original position and inspect for spills, leakage, or damage to the unit. If leaks or spills occur, clean up in accordance with SOP 3.2.
- Keep up-to-date records of site inspections including; by whom, when, and where inspections were done, what was found, and any actions that were taken as a result of the inspections. Document all relevant inspection activities on the proper forms provided in the SWPPP.

#### **Training:**

• The City shall provide daily good housekeeping training for City owned/operated facilities for all applicable City employees in accordance with the City of Winchester Stormwater Training Plan.



## **Section 7 – Standard Operating Procedures – Municipal Operations**

Municipal operations such as paving, concrete replacement, refuse collection etc. have the potential to produce pollutant discharge if good housekeeping procedures are not implemented during municipal operations.

Included in this section are good housekeeping practices for municipal operations. The procedures are to be implemented during all City operations outside of City owned facilities.



## **Section 7.1 – Municipal Operations – General**

Purpose: To protect stormwater from contaminates during municipal operations.

#### Practice:

#### • Concrete

- Collect concrete slurry and dispose of waste and water or allow slurry to dry and sweep up direct waste
- Require concrete trucks to wash out in a designated location where wash water will not drain to a storm drain, ditch, creek, stream, pond, wetland or any other water body.

#### • Paving and Pavement Repair

- o When milling, do not allow grindings to accumulate where they can wash into the storm drain, ditch, creek, stream, pond, wetland or any other water body.
- o Mix only the amount of patching material necessary to complete the repair.
- Locate stockpiles of asphalt patching material on a paved surface. Cover stockpiles to prevent contact with rain.
- o Use less harmful products rather than diesel for asphalt patching and cleanup activities.
- o Promptly sweep up absorbent material and dispose of in accordance with established procedures.

#### Street Sweeping

- o Keep street sweepers maintained and in operation.
- Sweep as close to the curb as possible.
- Maintain an effective speed.
- o Keep accurate logs of the lane miles swept and/or the amount of material collected.

#### • Leaf Collection

- o Remove leaves from gutters, ditches and around inlets.
- o Dispose of leaves at City Yards composting area.

#### • Refuse Collection

- Do not pick up hazardous material
- o Empty accumulated liquids from trash collection activities at a properly permitted landfill.

#### Inspections/Maintenance/ Spill Response /Reporting:

- Store and maintain municipal equipment in controlled location per SOP 5.1.
- Wash municipal equipment in controlled location per SOP 5.2.
- Fill gas tanks in a controlled location per SOP 5.3.
- Regularly inspect equipment used for municipal operations for leaks and spills. If leaks or spills occur, clean up in accordance with SOP 3.2.
- Keep up-to-date records of site inspections including; by whom, when, and where inspections were done, what was found, and any actions that were taken as a result of the inspections.

## **Training:**

The City shall provide daily good housekeeping training for City owned/operated facilities for all
applicable City employees in accordance with the City of Winchester Stormwater Training Plan.
 Section 8 Standard Operating Procedures - Utility Maintenance



## Section 8 - Standard Operating Procedures - Utility Maintenance

Utility maintenance activities such as fire hydrant testing, waterline repair, and sanitary sewer repair have the potential to produce pollutant discharge if good housekeeping procedures are not implemented during the described activities.

The City's Engineering Division will work in close coordination with the Department of Public Utilities (DPU) to ensure good housekeeping procedures are being followed during utility maintenance operations to ensure that the City remains compliant with the MS4 Permit requirements.



## Section 8.1 Standard Operating Procedures - Water System Maintenance

Purpose: To protect stormwater from contaminates during water line maintenance operations.

## Practice:

- Install inlet controls and filtering devices for planned and previously approved discharges into storm drain.
- Prior to discharge, inspect discharge flow path and clear/cleanup any debris or pollutants found (i.e., remove trash, leaves, sediment, and wipe up liquids, including oil spills).
- Stop unplanned discharges as quickly as possible.
- Notify DPU of unplanned discharge and discharge extent.
- Identify unplanned discharge location and repair as needed.
- Inspect unplanned discharge flow path and repair damaged areas as needed.

### Inspections/Maintenance/ Spill Response /Reporting:

- Store and maintain equipment in controlled location per SOP 5.1.
- Wash municipal equipment in controlled location per SOP 5.2.
- Fill gas tanks in a controlled location per SOP 5.3.
- Regularly inspect equipment used for utility operations for leaks and spills. If leaks or spills occur, clean up in accordance with SOP 3.2.
- Keep up-to-date records of site inspections including by whom, when, and where inspections were done, what was found, and any actions that were taken because of the inspections.

#### **Training:**

• The City shall provide daily good housekeeping training for City owned/operated facilities for all applicable City employees in accordance with the City of Winchester Stormwater Training Plan.



## Section 8.2 - Standard Operating Procedures - Sewer System Maintenance

<u>Purpose</u>: To protect stormwater from contaminates during sewer line maintenance operations.

#### Practice:

- Remove tree roots and other identified obstructions in sewer lines.
- Immediate clearing of blockage or repair is required where an overflow is currently occurring or for urgent problems that may cause an imminent overflow (e.g. pump station failures, sewer line ruptures, sewer line blockages).
- Clean sewer lines on a regular basis to remove grease, grit, and other debris that may lead to sewer backups.
- Review previous sewer maintenance records to help identify "hot spots" or areas with frequent maintenance problems and locations of potential system failure.
- Identify and track sanitary sewer discharges. Identify dry weather infiltration and inflow first. Wet weather overflow connections are very difficult to locate.
- Locate wet weather overflows and leaking sanitary sewers using conventional source identification techniques such as monitoring and field screening. Techniques used to identify other illicit connection sources can also be used for sewer system evaluation surveys.
- Implement community awareness programs for monitoring sanitary sewer wet weather overflows. A citizen's hotline for reporting observed overflow conditions should be established to supplement field screening efforts.
- When a spill, leak, and/or overflow occurs and when disinfecting a sewage contaminated area, take every effort to ensure that the sewage, disinfectant and/or sewage treated with the disinfectant is not discharged to the storm drain system or receiving waters.

## Inspections/Maintenance/ Spill Response / Reporting:

- Store and maintain equipment in controlled location per SOP 5.1.
- Wash equipment in controlled location per SOP 5.2.
- Regularly inspect equipment used for utility operations for leaks and spills. If leaks or spills occur, clean up in accordance with SOP 3.2.
- During routine maintenance and inspection note the condition of sanitary sewer structures and identify areas that need repair or maintenance.
- Establish routine maintenance program. Cleaning should be conducted at an established minimum frequency and more frequently for problem areas such as restaurants that are identified
- Keep up-to-date records of site inspections including; by whom, when, and where inspections were done, what was found, and any actions that were taken as a result of the inspections.

## **Training:**

• The City shall provide daily good housekeeping training for City owned/operated facilities for all applicable City employees in accordance with the City of Winchester Stormwater Training Plan.

**APPENDIX 7: City Parks Maintenance Building SWPPP** 

## Stormwater Pollution Prevention Plan

## Winchester Parks and Recreation Maintenance Building

1001 East Cork Street Winchester, VA 22601

## **SWPPP Contacts:**

Justin Hall

540-667-1815

Kelly Henshaw

540-667-2387

## **SWPPP Preparation Date:**

July 1, 2019

THIS DOCUMENT SHALL BE KEPT ONSITE AND AVAILABLE FOR THE DURATION OF CONSTRUCTION

Stormwater Pollution Prevention Plan

# Winchester Parks and Recreation Maintenance Building

THIS SWPPP & EROSION CONTROL PLAN WILL CLOSELY FOLLOW THE CONTRACT DOCUMENTS AND STORM WATER POLLUTION PREVENTION PLAN

## **Project Description**

This project consists of reconstruction of the maintenance building that serves Jim Barnett Park located within the city limits of Winchester, Virginia. The pre-engineered metal building portion of the existing shop building shall remain; with the remainder to be demolished and removed from site. A new pre-engineered, pre-manufactured, metal building garage and shop addition with concrete masonry unit (CMU) link and foundation system shall be constructed in its place. The existing site that serves this facility will be re-graded with stone to promote positive drainage for continued use. A new equipment shed will be added to this site for use with potential expansion. Additionally, provisions have been made in this design to add a future wash bay to the southern portion of the new shop area. The construction shall include the construction of the maintenance building additions, the installation of curb and gutter, small handicap parking area, paved access to the yard, installation of topping stone to promote positive drainage, service utilities, site lighting and minor landscaping.

## **Adjacent Property Information**

The proposed site is approximately two acres (2 ac.) located in the southeastern corner of the existing Jim Barnett Park property which consists of 169.16 ac. The park is located at 1001 E Cork Street in Winchester, Virginia. The project site is currently fully developed with the existing Park Maintenance Building and storage yard. The yard area is partially paved with asphalt and gravel. The immediate facility site is completely fenced. The site area currently provides offices for the maintenance staff, shop and garage facilities for Park Maintenance. The yard is filled with a combination of stored equipment, cut trees, parts and stored materials. The entire project site is located within the city limits of the City of Winchester, VA. The construction site is bounded on the east by the Interstate-81 right-of-way.

## **Stormwater Pollution Prevention Plan (SWPPP)**

In compliance with:

## VSMP General Permit for Discharges of Stormwater from Construction Activities (VAR10)

Effective: July 1, 2019 Expiration Date: June 30, 2024

## **SWPPP Certification**

"I certify under penalty of law that I have read and understand this document and that this document and all attachments were prepared 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."

"Furthermore, I have read and understand this Stormwater Pollution Prevention Plan and the information in this document and its attachments is to the best of my knowledge true, accurate and complete. In addition, I certify that I will fully implement this Plan and will maintain its accuracy and maintain on site at all times."

Name:	
Title:	
Company:	
Company: Phone:	
Signature:	

## **Delegation of Authority**

The **Duly Authorized Representative** for this project will be:

The Operator may specify a Duly Authorized Representative to implement this Stormwater Pollution Prevention Plan (SWPPP). This individual must be in a position having responsibility for the overall operation of the regulated facility or activity. If the authorization is no longer accurate because a change in the individual or position with responsibility for the overall operation of the regulated facility or activity, a new authorization shall be submitted prior to or together with any reports or information to be signed by an authorized representative, such as this SWPPP and inspection reports, or other information requested by the VSMP Regulatory Authority or the DEQ.

Name:	Title:	
Company:		
Phone Number:	Email Address:	
Date:		
attachments were prepared properly gathered and eval who manage the system, o nformation submitted is, to	aw that I have read and understand this documed in accordance with a system designed to assiluated the information submitted. Based on myor those persons directly responsible for gather the best of my knowledge and belief, true, accordingly to the best of my knowledge and belief, true, accordingly to the best of submitting false information, includiviolations."	sure that qualified personnel y inquiry of the person or persons tring the information, the occurate, and complete. I am aware
his document and its attac	and understand this Stormwater Pollution Preschments is to the best of my knowledge true, a sement this Plan and will maintain its accuracy	accurate and complete. In addition,
Duly Authorized Represe	entative (Signature):	
Operator's Certification:		
project. The Operator is in	orized Representative named above is my dul a position to have overall responsibility in a m the Operator named above has the delegated is SWPPP."	nanner sufficient to implement the
Operator (Signature):		

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## I. Introduction

## A. Plan Purpose

This Stormwater Pollution Prevention Plan has been developed as a requirement of the Virginia Stormwater Management Program (VSMP) General Permit for Discharges of Stormwater from Construction Activities (VAR10), as defined in 9 VAC 25-880 et seg. The purpose of this Plan is to:

- 1. Identify and manage potential sources of pollution that may reasonably be expected to affect the quality of stormwater discharges from the construction site.
- 2. To describe and ensure the implementation of practices that will be used to reduce pollutants in stormwater discharges from the construction site and to ensure compliance with the conditions of the Permit.
- To describe and ensure implementation of permanent stormwater management practices used to reduce pollutants in stormwater discharges on project sites to maintain compliance with the conditions of the Permit.
- 4. Document activities through inspections and maintenance measures for VSMP program compliance.

Implementation of the components of this Plan is required as a condition of the Permit (Appendix B). The Department of Environmental Quality (DEQ) has delegated authority to the City of Winchester to administer the VSMP program, therefore overseeing the implementation of this Plan.

#### B. Public Notification

Upon commencement of land disturbing activities, the operator shall conspicuously post a copy of the Notice of Coverage letter at the location of construction activity. The operator shall maintain the posted information until termination of the General Permit coverage as specified in Part I.F of the General Permit.

## II. Plan Requirements

- A. General Construction Activity Information
  - 1. Site and Project Description

a. Project Name: Winchester Parks and Recreation Maintenance Building

b. Address: 1001 East Cork Street Winchester, VA

c. Latitude/Longitude 39.1691 N, -78.1540 W

d. Description of Construction Activity: This project consists of reconstruction of the maintenance building that serves Jim Barnett Park located within the city limits of Winchester, Virginia. The pre-engineered metal building portion of the existing shop building shall remain; with the remainder to be demolished and removed from site. A new pre-engineered, pre-manufactured, metal building garage and shop addition with concrete masonry unit (CMU) link and foundation system shall be constructed in its place. The existing site that serves this facility will be re-graded with stone to promote positive drainage for continued use. A new equipment shed will be added to this site for use with potential expansion. Additionally, provisions have been made in this design to add a future wash bay to the southern portion of the new shop area. The

construction shall include the construction of the maintenance building additions, the installation of curb and gutter, small handicap parking area, paved access to the yard, installation of topping stone to promote positive drainage, service utilities, site lighting and minor landscaping.

e.	Total Disturbed Acreage	0.72
r		

- f. Pre-Construction Impervious Area
- g. Post-Construction Impervious Area
- 2. Receiving Waters

Name of Body of Water	Туре	Impaired?
Abrams Creek		N

## 3. Support Activities Utilized

Activity	Offsite? (Y/N)
Equipment and Vehicle Washing	N
Storage Area (fuel, soaps, solvents, etc.)	N
Vehicle Fueling and Maintenance	N
Sanitary Waste Facilities	N
Construction Waste Storage	N

## 4. Plan Administration and Updates

- a. The Plan shall be certified in accordance with the Permit by the Authorized Representative. The Representative shall make the necessary revisions and additions to the Plan to conform to the construction methods and schedules prior to construction. Copies of the Plan and Permit shall be kept onsite and be made available to DEQ and the VSMP Regulatory Authority upon request. The Plan must also be available to all operators identified as having responsibilities to carry out provisions contained in the Plan.
- b. The Plan shall be amended by the Authorized Representative whenever there is a chance in design, construction, operation, or maintenance of the construction site that has a significant effect on the potential for the discharge of pollutants to surface waters. The Plan shall also be updated whenever it is found to be ineffective in meeting the requirements of the Permit. The Plan shall be updated to identify any new contractor that will implement a measure of the Plan (Appendix A Transfer of Ownership form).

## B. Contractor Certification

1. All contractors and/or subcontractors who have responsibility for implementing and maintaining the controls identified in this Plan must sign the certification statement contained in Appendix H. The person signing the certification must meet the signatory requirements as presented in Section III K of the Permit (Appendix B). The certifications must be maintained in this SWPPP as part of the Plan. Qualified personnel are responsible for implementing, maintaining, recordkeeping, submitting reports, conducting inspections, employee training, signing the required certifications, etc.

Name and Company	Responsibility

- 2. The persons listed about are authorized with delegated authority in accordance with Section III K of the Permit (Appendix B) to sign inspections reports or modify the SWPPP.
- 3. The Plan shall be prepared prior to the submittal of the Registration Statement and shall provide for compliance with the terms and schedule of the Permit, beginning with the initiation of construction activities. For ongoing construction activity involving a change of operator, the new operator shall accept and maintain the existing SWPPP or prepare and implement a new SWPPP prior to taking over operations at the site.

## C. Specific Requirements

1. Project Summary

General information regarding the site is listed in Part II.A of this SWPPP. The remaining items needed for operation and compliance of this SWPPP and Construction General Permit can be found in the project's Construction Documents, which are included in Appendix J of this Plan. An overall site map has been provided in Appendix C.

2. Erosion and Sediment Control Measures

The project provides implementation of various types of controls and measures to control pollutants in stormwater discharges from the project site. All controls utilized in this project were selected to meet or exceed State and Local requirements and detailed in the referenced design plans. The construction documents for this project contain detailed information regarding the various types of controls used in this project.

#### 3. Pollution Prevention Practices

- a. All control measures will be implemented and maintained in accordance with the minimum standards in the *Virginia Erosion and Sediment Control Handbook*. Control measures will be routinely inspected and reports maintained with this SWPPP.
- Areas will be designated on-site for delivery and storage of materials if possible near construction entrances and away from waterways. Transport near drainage paths will also be avoided.
- c. All materials stored onsite during construction in varying amounts for varying durations will be covered when not in use, unless specifically noted.
- d. No solid materials, including building materials, garbage, and debris shall be discharged to surface waters of the State, except as authorized by a permit. The Contractor will regularly inspect the construction area and remove trash and construction debris.
- e. Materials will be used only when and where needed to complete the construction activity. Manufacturer recommendations will be followed regarding use, protective equipment, and any chemical mixing.
- f. Chemical and petroleum products will be stored in tightly sealed containers which are clearly labeled. Chemicals used on-site are to be kept in small quantities and stored in closed containers undercover and kept out of direct contact with stormwater.
- g. Concrete trucks will not wash out or discharge surplus material onsite unless done so in specific areas as noted in this SWPPP. Direct concrete wash water to a leak-proof container or leak-proof settling basin. Concrete wastes shall be removed and disposed of in a manner consistent with handling of other construction wastes.
- h. Discharges related to dewatering will be filtered using a filter bag or sand filter or will be settled in basin prior to release to waterways.
- i. Spill kits will be included with all fueling sources and maintenance activities.
- j. Portable sanitary facilities will be provided on-site for use by construction personnel and will be located away from water bodies or storm water drains. The facilities will be serviced by an authorized contractor. Any spills will be cleaned up in accordance with applicable regulations.
- k. All vehicles and equipment will receive regular preventive maintenance to reduce the chance of leakage.

- I. All vehicles and construction equipment will be inspected for leaks by the Contractor's personnel. All leaks must be fixed prior to operating equipment.
- m. If equipment breaks down and/or leaks petroleum products or other pollutants onto the ground, the area will be cleaned of all contaminants.
- n. On-site vehicle refueling will be conducted in a dedicated location away from access to surface waters. Any on-site storage tanks will have a means of secondary containment. In the event of a spill, it will be cleaned up immediately and the material, including any contaminated soil, will be disposed of according to all Federal, State, and Local regulations.
- o. Vehicle and equipment washing will occur away from surface waters and stormwater inlets or conveyances. Direct wash water into sediment traps or basins or use a filtration device such as a filter bag or sand filter.
- p. Pesticides and fertilizers will be applied only in the minimum amounts recommenced by the manufacturer specifications. Pesticides and fertilizers will be stored in covered or sealed containers away from water bodies. Dry spills will be cleaned up promptly.
- q. Convenient and well-maintained portable sanitary facilities will be provided and located away from waterways, stormwater inlets, or conveyances.

## 4. Significant Material Pollution Prevention

The operator shall provide the necessary measures to minimize exposure, spills or release of non-stormwater related discharges as part of this Plan. Wastewater from activities such as concrete washout, paint or other construction equipment washing, fuels, oils, toxic or hazardous substances, soaps, detergents, or other similar materials as defined in Section I.D of the Permit shall not be discharged. Measures for minimizing exposure shall be provided as well as a plan for spill prevention and the associated downstream impacted outfall should a spill occur. All documents related to the material and the appropriate spill control measures and management plan should be included in this SWPPP as part of Appendix I – Significant Material Pollution Prevention Data.

## Spill Notice (reports of spills or exposure of significant material require notification to the appropriate agency listed below):

City of Winchester Public Works: 540-665-5340 or 540-678-0682

DEQ (Valley Regional Office) 540-574-7800 or 540-574-7844

- 5. Impaired Waters/Exceptional Waters Measures
  The receiving waters are not listed in DEQ's 2018 Impaired Waters List.
- 6. Maintenance

All control measures must be properly maintained in effective operating condition in accordance with good engineering practices or manufacturer specifications. Maintenance of the erosion and sediment controls and stormwater management facilities incorporated into this project must be maintained on a regular basis to assure their continued effectiveness. This includes repairs to all erosion and sediment controls and stormwater management facilities at their regular intervals. Those controls found to be ineffective during routine inspections shall be repaired before the next anticipated storm event or as soon as practicable.

## 7. Inspections

Qualified personnel, as allowed by DEQ, familiar with all aspects of the Plan and the employed control practices shall perform regular inspections of the construction site. Inspections shall include review of all disturbed areas, structural and non-structural control measures, material storage areas and vehicular access points. The operator is responsible for ensuring the qualified personnel conduct the inspection. Inspections shall be conducted as described in Section II.F.2 of the General Permit.

Inspections are intended to identify areas where the pollutant control measures at the site are ineffective and are allowing pollutants to enter surface waters. Receiving waters shall be inspected to ascertain whether control measures are effective in preventing significant impact. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking.

If, as a result of the inspection, the site condition and/or control measures are found to have changed, the Plan shall be updated within a period of 7 days. If control measures need to be modified to assure effectiveness or if additional measures are determined to be necessary, implementation shall be completed prior to the next storm event or as soon as practicable.

A report summarizing the inspections and the subsequent maintenance activities must be completed and maintained as part of the Plan. The inspection reports are to be included in Appendix E.

The reports are to include the following:

- Summary of the scope of the inspection
- Names and qualifications of the inspecting personnel.
- Major observations relating to the implementation of the Plan which should include:
  - Locations of discharges of sediment or other pollutants from the site, if applicable
  - 2. Locations of BMP's which require maintenance
  - 3. Locations of failed BMP's
  - 4. Locations where additional BMP's are needed
  - 5. Corrective action required including any changes to the SWPPP

The reports shall also include any incidents of non-compliance. If an inspection does not identify any incidents of non-compliance, then the report shall contain a certification that the facility is in compliance with the SWPPP and shall be signed in accordance with the Permit.

## 8. Corrective Measures

The operator shall address corrective measures per Section II.G of the General Permit. Corrective actions shall be implemented as soon as practicable, but no later than 7 days after discovery or a longer period as approved by the VSMP Authority.

## 9. Non-Stormwater Discharges

The Permit allows for non-stormwater discharges from specific operations as defined in Section I.E of the Permit and are listed in the table below. If the authorized representative determines other forms of allowable non-stormwater discharges are to be utilized as part of construction, the discharge must be identified, and use documented in the Plan. Appropriate measures must be taken to ensure that pollution prevention measures for the non-stormwater component of the discharge are implemented. Stormwater shall be defined to include all the following non-stormwater discharges provided pollution prevention controls for the non-stormwater component are provided through the designed E&S measures or added to the SWPPP.

- Discharges from fire hydrant flushing
- Potable water sources including water line flushing
- Fire system test water
- Irrigation drainage
- Lawn watering
- Routine building wash down which does not use detergents or other compounds
- Pavement wash water where contamination by toxic or hazardous materials have not occurred and where detergents are not used
- Water used to wash vehicles or equipment where soaps, solvents or detergents have not been used
- Air conditioning condensate
- Springs
- Uncontaminated groundwater
- Foundations of footing drains where flows are not contaminated with process materials

**APPENDIX 8: Annual Water Quality Transfer Form** 

### ATTACHMENT A

## Annual Water Quality Credit Transfer Form

Instructions: To be completed and executed by FWSA and delivered to the City of this Agreement on or before each June 1 immediately following the calendar year of credit generation by FWSA

By execution and delivery of this Annual Credit Transfer Form, FWSA transfers the following water quality credits in the amounts specified to the City in accordance with, and for the specific and limited purposes of, the Frederick-Winchester Service Authority Water Quality Credit Exchange Agreement.

Transferor: Frederick-Winch	Transferor: Frederick-Winchester Service Authority		
Transferee (MS4):	City of Winchester		
Calendar Year Credits Gene	erated:2023		
Date Credits Transfer:			

MS4	TN (lbs/yr)	TP (lbs/yr)	TSS (lbs/yr)
City of Winchester	1,353.06	192.82	167,311.60

Signed (for Transferor): Perkins

Name (Print): Candia Perkins

Title: Execusive Director - FWBA