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

Permit Year 2 Annual Report Reporting Period: July 1, 2009-June 30, 2010



Submitted October 1, 2010

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

CERTIFICATION

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

Jim O'Conner	City Manager
Name	Title
Signature	_
Date	_

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Appendices

Appendix A	MS4 Program	revised	January	5,	2010
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- Appendix B Public Outreach Material
- Appendix C Educational Opportunities Letter
- Appendix D Storm Sewer Map
- Appendix E Stormwater Management Facilities Database, Inspection and Maintenance Summary
- Appendix F City Yards Stormwater Pollution Prevention Plan
- Appendix G Training Materials

A CD with the stormwater management facilities database is included at the end of Appendix E.

1.0 Introduction

This annual report was prepared by the Public Services Department, City of Winchester, Virginia, in accordance with Section II E of the General Permit (VAR04) for Discharges of Stormwater From Small Municipal Separate Storm Sewer Systems (MS4), effective July 9, 2008. As required under the new permit, the City of Winchester reviewed its existing MS4 Program and revised the Program on January 8, 2009, to meet the conditions in the new General Permit. This Program Plan was later revised on January 5, 2010, by the City to continue to meet the following goals:

- Reduce the discharge of pollutants to the "maximum extent practicable";
- Protect water quality; and
- Satisfy the appropriate water quality requirements of the Clean Water Act.

The Program addresses the six minimum control measures identified in the General Permit to reduce pollutants. For each of the minimum control measures listed below, the City identified Best Management Practices (BMPs), measurable goals, schedules, and responsible parties:

- Public Outreach and Education
- Public Participation and Involvement
- Illegal Discharge Detection and Elimination
- Construction Site Runoff Control
- Post-Construction Stormwater Management in New Development and Redevelopment
- Pollution Prevention and Good Housekeeping

This Program is the basis for the information presented in this annual report. A copy of the Program is included in Appendix A.

This annual report covers the period from July 1, 2009 through June 30, 2010.

The requirements for the annual report, as outlined in Section II E of the General Permit, are as follows:

- a) Background Information: Name and permit number of the program submitting the annual report, annual report permit year, modifications to any operator's department's roles and responsibilities, number of new MS4 outfalls and associated acreage by Hydrologic Unit Code (HUC) added during the permit year, and signed certification;
- b) Status of compliance with permit conditions, an assessment of the appropriateness of the identified BMPs and progress towards achieving the identified measurable goals for each of the minimum control measures;
- c) Results of information collected and analyzed, including monitoring data, if any during the reporting period;
- d) A summary of the stormwater activities the operator plans to undertake during the next reporting cycle;

- e) A change in the identified BMPs or measurable goals for any of the minimum control measures including steps to be taken to address any deficiencies;
- f) Notice that the operator is relying on another government entity to satisfy some of the permit obligations (if applicable);
- g) The approval status of any program pursuant to Section II C (if appropriate), or the progress towards achieving full approval of these programs;
- h) Information required pursuant to Section I B 9;
- i) The number of illicit discharges identified and the narrative on how they were controlled or eliminated pursuant to Section II B 3(f);
- j) Regulated land-disturbing activities data tracked under Section II 4 (c);
- k) All known permanent stormwater management facility data tracked under Section II B5(b)(6) submitted in a database format as shown in the June 29, 2009, letter from Virginia Department of Conservation and Recreation (DCR) to the City of Winchester:
- A list of any new or terminated signed agreements between the operator and any applicable third parties where the operator has entered into an agreement in order to implement minimum control measures or portions of minimum control measures; and
- m) Copies of any written comments received during a public comment period regarding the MS4 Program Plan or any modifications.

1.1 Background Information

This report is submitted by the Public Services Department, City of Winchester, Virginia, in accordance with General Permit Number VAR040053, for Permit Year 2. There have been no changes to the City's roles and responsibilities since the Program was revised on January 5, 2010. In that update, the following changes in the Responsible Party Role for BMPs were reported:

- BMP 3.1 Continue hazardous spill response program and household hazardous waste collection. Responsible Party: Changed from City Engineer to City Refuse and Recycling Coordinator.
- BMP 6.2 Continue use of salt storage building and vehicle washing facility at City Yards. Responsible Party: Changed from City Engineer to Public Works Operations Superintendant.
- BMP 6.4 Continue street sweeping program and track amount of litter and debris removed. Responsible Party: Changed from City Engineer to Public Works Operations Superintendant.

No new MS4 outfalls were added in the City during this reporting year.

Each of the remaining reporting requirements is addressed in the following sections.

2.0 Status of Compliance with Year 2 Permit Conditions (July 1, 2009-June 30, 2010)

As part of the City's Program, BMPs, implementation schedules, and measurements of the effectiveness towards the goal in reducing pollutants were identified. This section of the annual report contains information for ongoing and completed activities within this reporting period for each of the minimum control measures identified in the General Permit and the measures adopted by the City in their Program. Table 1 provides a summary of the BMPs that are conducted on an annual basis during this permit cycle, and those that were initiated and/or completed within this reporting period. In the following sections, detailed information on the goals of each minimum control measure and progress made towards achieving the designated goals can be found.

Table 1- Permit Year 2 BMPs

Minimum Control Measure	ВМР
Public Education and Outreach	BMP 1.1: Continue broadcasting programs focused on stormwater
Public Education and Outreach	BMP 1.2: Continue disseminating stormwater information to the general public
Public Education and Outreach	BMP 1.3: Continue administering stormwater complaint hotline
Public Education and Outreach	BMP 1.4: Update and maintain stormwater information posted on City's website
Public Education and Outreach	BMP 1.5: Initiate formal program for presentations at elementary and high schools
Public Involvement/Participation	BMP 2.1: Continue encouraging participation in Adopt-A-Stream Program
Public Involvement/Participation	BMP 2.2: Post MS4 Permit and subsequent revisions to the City's website
Illicit Discharge Detection and Elimination	BMP 3.1: Continue hazardous spill response program and household hazardous waste collection
Illicit Discharge Detection and Elimination	BMP 3.2: Implement inspections of storm sewers within the City's five sub-watersheds; Town Creek for Permit Year 2
Illicit Discharge Detection and Elimination	BMP 3.3: Continue enforcement of illicit connections, as needed, according to the City's Water Protection Ordinance
Illicit Discharge Detection and Elimination	BMP 3.4: Continue administering stormwater complaint hotline to identify illicit connections

Minimum Control Measure	ВМР
Illicit Discharge Detection	BMP 3.5: Implement measurement of household waste reduction
and Elimination	through tracking of tonnage of garbage and recycling materials
	collected
Illicit Discharge Detection	BMP 3.6: Implement program to replace or slipline sanitary
and Elimination	sewers and manholes
Construction Site	BMP 4.1: Continue program to require construction site
Stormwater Runoff Control	operators to control waste
Construction Site	BMP 4.2: Continue maintaining DCR Erosion and Sediment
Stormwater Runoff Control	Control plan review, inspection, and administration certification
	for a minimum of two City employees
Construction Site	BMP 4.3: Continue enforcement of erosion and sediment control
Stormwater Runoff Control	as well as stormwater management and water quality
Construction Site	BMP 4.4: Continue administering stormwater complaint hotline
Stormwater Runoff Control	to identify problems at construction sites
Construction Site	BMP 4.5: Continue tracking regulated land disturbing activities
Stormwater Runoff Control	
Post-construction	BMP 5.1: Continue enforcement of erosion and sediment control
Stormwater Management in	as well as stormwater management and water quality
New Development and	
Redevelopment	
Post-construction	BMP 5.2: Continue requiring BMP maintenance agreements for
Stormwater Management in	all privately owned water quality and quantity BMPs
New Development and	
Redevelopment	
Pollution Prevention/Good	BMP 6.1: Continue implementing City Yards Storm Water
Housekeeping for	Pollution Prevention Plan (SWP3) and update every 3 years
Municipal Operators	DMD 62 G
Pollution Prevention/Good	BMP 6.2: Continue use of salt storage building and vehicle
Housekeeping for	washing facility at City Yards
Municipal Operators	DMD 62 C di di GCi 1
Pollution Prevention/Good	BMP 6.3: Continue training of City employees on
Housekeeping for	Environmental Management Systems (EMS)
Municipal Operators	DMD (A. Cantinga street array)
Pollution Prevention/Good	BMP 6.4: Continue street sweeping program and track amount
Housekeeping for	of litter and debris removed
Municipal Operators	

2.1 Public Education and Outreach on Stormwater Impacts

The public education and outreach component was developed and incorporated into the City's Program to meet the programmatic component requirements of the General Permit. Table 2

describes the tasks, measurable goals, and status of the Public Education and Outreach on Stormwater Impacts BMPs. The objective of this component is to address the following goals:

- Distribute educational materials;
- Conduct outreach activities to the community to teach them about the impacts of stormwater discharges on waterbodies; and
- Explain how to reduce pollutants in stormwater runoff.

Table 2- Public Education and Outreach on Stormwater Impacts BMPs

BMP	BMP Description	Measurable Goal	Status
1.1	Continue to provide access to programs focused on stormwater	The City will provide access to the public announcement "After the Storm" on the City's stormwater website. In addition, the City will initiate web access to programs focused on stormwater in early 2010	Access to "After the Storm" through the website was completed for Permit Year 2; the City will post links to other stormwater videos in Permit Year 3
1.2	Continue disseminating information to general public	Estimate number of brochures distributed at the Wellness Festival and Earth Day Activities	Completed for Permit Year 2; ongoing activity
1.3	Continue administering stormwater complaint hotline	Number of calls received and the number of resolved and unresolved complaints	Completed for Permit Year 2; ongoing activity
1.4	Update and maintain stormwater information posted on City's website	Number of responses to the posting including calls to the stormwater complaint hotline, participation in the Adopt-A-Stream Program, and hits to the City's website	Completed for Permit Year 2; ongoing activity
1.5	Initiate formal program for presentations at elementary and high schools	Number of responses to letters sent to targeted schools and number of schools that participate in the program	Completed for Permit Year 2; ongoing activity

2.1.1 BMP 1.1: In 2010, the City incorporated access to the public announcement, "After the Storm." the City's website for stormwater on www.winchesterva.gov/engineering/stormwater.php. The show highlights three case studies where polluted runoff threatens watersheds highly valued for recreation, commercial fisheries and navigation, and drinking water. Insight is provided into the problems as well as solutions to today's water quality challenges. "After the Storm" also explains simple things people can do to protect their local watershed. The change from broadcasting the program from the public access television station to the City's website was necessary because the public access channel was eliminated by City Council. The website provides free information to the City's individuals, households, public employees, and businesses. Changing the media for this information from a limited broadcast schedule of four times per year to the City's website provides more accessibility to the information.

The City's stormwater website recorded 335 hits during this permit period. During this permit period, no calls were received on the stormwater complaint hotline; therefore no information was obtained from this source regarding the awareness of citizens of the video information available on the website.

2.1.2 BMP 1.2: The City participated in two community events, the Wellness Festival on February 27, 2010, and the Community Health Fair on April 24, 2010. Approximately 250 informational brochures were distributed at these events. The informational brochures relayed information about the City's stormwater complaint hotline and the City's Adopt-A-Stream Program, as well as other stormwater pollution information. The City did not participate in the Earth Day activities during Permit Year 2; however, the City will reevaluate participation in this event in Permit Year 3. Outreach material to promote the stormwater complaint hotline and the Adopt-A-Stream Program is included in Appendix B.

2.1.3 BMP 1.3: The City has established a stormwater complaint hotline. The hotline is public posted City's promoted the being on the website www.winchesterva.gov/engineering/stormwater.php. During this reporting period, no calls were received on the hotline. An evaluation of the need to distribute another utility bill insert advertising the stormwater complaint hotline was conducted by the City during this permit year. A decision was made that an additional mailing was not warranted at this time and the option for an additional mailer will be made next fiscal year. The City will continue to support the hotline because it provides a way to address any stormwater issues from the public. In addition, in Permit Year 3, the City will post the stormwater complaint hotline information on the City of Winchester's Facebook page. By using this popular social media, the City will be able to provide a large number of people with this information. Outreach material to promote the stormwater complaint hotline is included in Appendix B.

- **2.1.4** BMP 1.4: The City has posted stormwater information on their website at http://www.winchesterva.gov/engineering/stormwater.php. Although no calls were received to the stormwater complaint hotline, two organizations participated in the Adopt-A-Stream Program during the reporting period and there have been 335 hits to the stormwater website.
- **2.1.5 BMP 1.5:** The City Engineer contacted several schools and introduced the Watershed and Stormwater Educational Opportunities Program that is available to them as part of the City's formal program for stormwater presentations at schools. The letter offered educational talks on stormwater and related issues, including water pollution, water conservation, the water cycle and watersheds. The schools contacted were:
 - Frederick Douglass Elementary
 - John Kerr Elementary
 - Virginia Avenue-Charlotte DeHart Elementary
 - Quarles Elementary

There were no responses from the schools within the reporting period. The City will continue to pursue opportunities with the schools to promote stormwater management and related issues. A copy of the letter sent to the schools is included in Appendix C.

2.2 Public Involvement/Participation

The objective of this control measure is to promote the availability of the MS4 Program to the public for review and comment, provide access to the annual stormwater report, and to promote participation in activities that will increase public participation, reduce stormwater pollutants, and improve water quality.

The City continues to encourage public involvement/participation in stormwater management activities through its formal Adopt-A-Stream Program. Over 100 flyers on this program were distributed at workshops and events throughout the permit year. Two organizations participated in this program during this permit year.

A pet waste flyer was also distributed by the City of Winchester. This tri-fold brochure described the impacts pet waste can have on waterbodies, the city code pertaining to pet waste, and how pet owners can lessen pet waste impacts. The citizens can also contact the City staff regarding stormwater concerns or complaints through the City's stormwater complaint hotline. Copies of the Adopt-A-Stream Program flyer, pet waste brochure, and stormwater complaint hotline flyer are included in Appendix B. Table 3 describes the task, measurable goal, and status of the Public Involvement/Participation BMPs.

Table 3- Public Involvement/Participation BMPs

BMP	BMP Description	Measurable Goal	Status
	Continue encouraging participation in	Adoption of five or	Completed for
2.1	Adopt-A-Stream Program	more stream segments	Permit Year 2;
2.1		in the five year permit	ongoing
		cycle	program
	Post the MS4 Permit and Subsequent	Post the MS4 Permit	Ongoing; The
	Revisions to the MS4 Program on the	and the current	current MS4
	City's Website	Program Plan on the	Program Plan,
		website	dated January
2.2			2010 is posted.
			The MS4
			Permit will be
			posted in
			Permit Year 3

2.2.1 BMP 2.1: The City has posted information about the Adopt-A-Stream Program on their website at http://www.winchesterva.gov/engineering/adoptastream.php. Included on this website is an invitation to join the Program and a flyer detailing the steps to join the Program. During the reporting period for Permit Year 2, two organizations participated in the Adopt-A-Stream Program as noted in Table 4. Two segments of Abrams Creek were adopted, with cleanups occurring during this permit year.

Table 4- Summary of Adopt-A-Stream Participation

Participant	Stream Segment	Date of Clean Up	Bags of Debris Collected
Spiritual Life at Shenandoah	Abrams Creek	August 22, 2009	
University	between I-81 and		24
	Millwood Avenue		
Virginia Department of Health	Abrams Creek	June 2, 2010	
(Environmental Unit)	between Meadow		4
	Branch and Jubal		4
	Early Drive		

2.2.2 *BMP* **2.2:** The current MS4 Program Plan for the City is posted on the City's website at www.winchesterva.gov/engineering/stormwater.php. The General Permit will be posted in Permit Year 3. Posting the information on the website provides an opportunity for the information to be reviewed and commented on by all interested parties. The posting complies with all applicable freedom of information regulations for both the MS4 Program Plan and the annual reports.

2.3 Illicit Discharge Detection and Elimination

The goal of this minimum control measure is to develop, implement, and enforce a program to detect and eliminate illicit discharges into regulated small MS4s. To meet this goal, operators of a regulated small MS4 must develop and maintain an updated storm sewer map, develop and implement procedures to detect illicit discharges and to monitor outfalls, and notify any downstream regulated MS4 of physical interconnections. The tasks, measurable goals, and status of the Illicit Discharge Detection and Elimination BMPs are described in Table 5.

The City updates the storm sewer map on a continuous basis with the receipt of "as-built" plans. A copy of the most recent storm sewer map is included in Appendix D.

Table 5- Illicit Discharge Detection and Elimination BMPs

BMP	BMP Description	Measurable Goal	Status
3.1	Continue hazardous spill response program and two household hazardous waste collection days per month	Participation in the program and amount of waste collected during events	Completed for Permit Year 2; ongoing program
3.2	Implement inspections of storm sewers within the City's Town Run sub-watershed	Inspect Town Run and present findings, including information on any illicit connections identified and follow-up actions completed or planned	Completed for Permit Year 2; ongoing program
3.3	Continue enforcement of illicit connections, as needed, according to the City's Water Protection Ordinance	Track the number of calls to the stormwater complaint hotline (and/or emergency number) that address illicit connections. Track the number of illicit connections investigated and follow-up actions completed or planned	Completed for Permit Year 2; ongoing program
3.4	Continue administering stormwater complaint hotline to identify illicit connections	Track the response to the stormwater complaint hotline, including number of calls received, number of illicit connections identified and follow- up actions	Completed for Permit Year 2; ongoing program
3.5	Implement measurement of household waste reduction through tracking of tonnage of garbage and recycling materials collected	Measure the tonnage of garbage and recycling materials collected on annual basis. Track number of recycling bins distributed to residents	Completed for Permit Year 2; ongoing program

BMP	BMP Description	Measurable Goal	Status
3.6	Implement inflow and infiltration	Track linear footage of	Completed for
	program to replace or slipline	sanitary sewer replacement and	Permit Year 2;
	sanitary sewers to prevent illicit	repairs, and manhole	ongoing program
	discharge	replacement	

2.3.1 *BMP 3.1:* The City collaborates with Frederick County on a joint hazardous spill response program and a household hazardous waste collection program. Household hazardous waste such as insecticides, pesticides, pool chemicals, antifreeze, transmission fluid, car batteries, fluorescent and compact light tubes, paints, thinners, solvents and household cleaners are collected from residents for proper disposal. Several of the items collected are sent off for recycling. These collections are held on the first and third Wednesdays of each month from noon to 6 p.m. during the months of April through October at the landfill's citizens' convenience center.

In addition, citizens can drop-off household refuse and recyclables at 11 citizens' convenience sites located throughout Frederick County. These centers offer these services to Frederick County and Winchester residents at no charge. Citizens' convenience sites are located throughout the County.

These sites include:

- Albin: Located on Indian Hollow Road (Route 679) just off North Frederick Pike
- Greenwood: Located at the intersection of Greenwood and Senseny Roads behind the fire hall
- Clearbrook: Located on Martinsburg Pike at Clearbrook Park
- Gainesboro: Located on Gainesboro Road (Route 684) off North Frederick Pike
- Shawneeland: Located on Bowman's Lane (Route 613)
- Round Hill: Located just off McFarland Road (Route 817) along Northwestern Pike
- Middletown: Located on Valley Pike at the Middletown truck scales
- Double Toll Gate: Located on Front Royal Pike, just south of the Route 340 intersection
- Regional Landfill: Located on Landfill Road off Sulphur Spring Road (Route 655); 2.2 miles from the intersection of Millwood Pike and Sulphur Spring Road
- Gore: Located just off Back Creek Road (Route 704)
- Stare Tannery: Located on Brill Road (Route 6030

Although the pounds of material collected during this reporting period had not been calculated by Frederick County at the time of this report, this is a popular program among residents. The City of Winchester will continue to support the County with this effort.

More information on household hazardous waste disposal is available on Frederick County's website at:

http://www.co.frederick.va.us/public_works/recycling_landfill/solid_waste.aspx

- **2.3.2** *BMP 3.2:* The City conducted dry weather inspections of Town Run between June 3 and June 17, 2010. The inspection found 67 outfalls, 30 stream crossings, and 5 utility crossings. No illicit discharges were found. In addition, areas of excessive trash and debris found during the inspection of Abrams Creek in Permit Year 1 were cleaned up by the City in the Fall 2009.
- **2.3.3 BMP 3.3:** There were no illicit connection related calls to the stormwater complaint hotline, or by other means during this reporting cycle. Therefore, no illicit connections were investigated and there are no follow-up actions completed or planned.
- **2.3.4** BMP 3.4: The stormwater complaint hotline was established for citizens to report problems with stormwater issues (such as flooding and erosion or water pollution), maintenance issues (such as clogged inlets or problems at stormwater ponds), and/or erosion and sediment control (such as failing silt fences at construction sites). It was also developed for people to call in suspected stormwater abuses, such as the illegal dumping of materials. There were no illicit connection related calls to the stormwater complaint hotline during this reporting cycle. Therefore, no illicit connections were investigated and there are no follow-up actions completed or planned.
- **2.3.5** *BMP 3.5:* The City has an established schedule for household trash and recycling pickup service for residents. This is a weekly service free to all residents with the City providing recycling bins for residents. By providing the recycling service, the City reduces the amount of material that would be placed in a landfill or disposed of improperly. In addition the City provides weekly pickup of yard waste from March through January. This service also reduces the amount of material that would go to a landfill.

In this permit year, approximately 6,536 tons of household waste, 2,010 tons of recycled materials, and 896 tons of yard waste were collected. 881 recycling bins were distributed to residents and businesses, not including the downtown recycling bins or those that are distributed for special events.

2.3.6 *BMP* **3.6:** The City has an established inflow and infiltration abatement program to replace or slipline sanitary sewers and manholes, thus preventing illicit discharge into the groundwater and streams. The City has implemented this BMP on an ongoing basis and will replace and slipline an average of 5,000 linear feet of sanitary sewer per year. During Permit Year 2, the City replaced approximately 2,200 linear feet of sanitary sewer main, 90 sanitary sewer manholes, and lined approximately 17,445 linear feet of sanitary sewer pipe.

2.4 Construction Site Stormwater Runoff Control

The goal of this minimum control measure is to develop, implement, and enforce procedures to reduce pollutants in any stormwater runoff from construction activities that result in a land disturbance of greater than or equal to one acre. Table 6 describes the tasks, measurable goals, and status of the Construction Site Stormwater Runoff Control BMPs.

Table 6- Construction Site Stormwater Runoff Control BMPs

BMP	BMP Description	Measurable Goal	Status
4.1	Continue program to require	Percentage and number of	Completed
	construction site operators to control	construction sites that meet	for Permit
	waste	compliance requirements with	Year 2;
		first and follow-up, as needed,	ongoing
		site inspections	program
4.2	Continue maintaining DCR Erosion	The City will maintain two	Completed
	and Sediment Control plan review,	employees who are certified or	for Permit
	inspection, and administration	describe action taken if the	Year 2;
	certification for a minimum of two City	number drops below two.	ongoing
	employees		program
4.3	Continue enforcement of erosion and	Number of plans reviewed,	Completed
	sediment control as well as stormwater	number approved, and number	for Permit
	management and water quality	requiring a Virginia Pollutant	Year 2;
		Discharge Elimination System	ongoing
		(VPDES) permit	program
4.4	Continue administering stormwater	Track the number of	Completed
	complaint hotline to identify problems	complaints received from the	for Permit
	at construction sites	stormwater complaint hotline	Year 2;
		that are associated with	ongoing
		construction site problems	program
4.5	Continue tracking regulated land	Track the total number of	Completed
	disturbing activities	regulated disturbing activities	for Permit
		and total disturbed acreage for	Year 2;
		the reporting period	ongoing
			program

2.4.1 BMP 4.1: The City's Water Protection Ordinance provides requirements for construction site operators to control waste. This task was measured by the percentage and number of construction sites that met compliance requirements with first and follow-up, as needed, site inspections. For this reporting cycle, 62% of construction sites inspected met the City's requirement for controlling waste upon their first inspection. 60% of construction sites inspected met the City's requirement for controlling waste upon their second inspection.

- **2.4.2 BMP 4.2:** The City currently has one program administrator, two combined administrators, and one inspector on staff, all who maintain Virginia DCR Erosion and Sediment Control plan review, inspection, and administration certification, respectively.
- **2.4.3 BMP 4.3:** The City monitors all construction activities occurring within the City limits and relies on its erosion and sediment control program as regulated under the Virginia Erosion and Sediment Control Law and attendant regulations, and on its stormwater management program as regulated under the Stormwater Management Act.

Within this reporting cycle:

- 22 construction plans were reviewed and 17 construction plans were approved by the City; and
- 6 of these plans required a VPDES permit.

During this reporting period, the City maintained an affirmative status of "consistent" from DCR. This status is posted on DCR's website at http://www.dcr.virginia.gov/soil and water/eslpr.shtml.

- **2.4.4** BMP **4.4:** During this reporting cycle, no complaints were received from the stormwater complaint hotline associated with construction site problems.
- **2.4.5** *BMP 4.5:* The land disturbing activities were tracked as plans and notifications were received. During this reporting period:
 - 29 land disturbing activities were reported; and
 - 23.08 acres were disturbed.

2.5 Post-construction Stormwater Management in New Development and Redevelopment

The goal of this minimum control measure is to develop and implement procedures for the inspection and maintenance of permanent structural and non-structural BMPs for both Citymaintained and privately-maintained facilities. The tasks, measurable goals, and status of the Post-Construction Stormwater Management BMPs are described in Table 7.

 Table 7- Post-Construction Stormwater Management BMPs

BMP	BMP Description	Measurable Goal	Status
5.1	Continue enforcement of erosion and sediment control as well as stormwater management and water quality	Track the type and number of BMPs installed, HUC of the BMPs, waterbody the BMP discharges to, number of acres treated to the nearest tenth of an acre, and inspection and maintenance schedules	Completed for Permit Year 2; ongoing program

BMP	BMP Description	Measurable Goal	Status
5.2	Continue requiring BMP	The number of BMPs inspected, the	Ongoing
	maintenance agreements	number in compliance with operation and	program
	for all privately owned	maintenance requirements, and the	
	water quality and	number taking action to correct	
	quantity BMPs	deficiencies	

2.5.1 BMP 5.1: All site plans are reviewed for water quality calculations and must show compliance with the State stormwater management regulations regarding the phosphorus reductions required for development and redevelopment projects.

Appendix E contains an inventory of the known structural BMPs that discharge to the regulated small MS4 that have been brought online this permit year. This information includes the project name, the applicant, whether the applicant is public or private, the tax map number, the ID number, date received, date signed by engineer, date signed by city attorney, date recorded, instrument number, BMP type, HUC, water body, acres treated, status, whether it is maintained and inspected, last inspection date, and maintenance schedule.

2.5.2 BMP 5.2: BMP maintenance agreements are required for all privately owned water quality and water quantity BMPs. The City maintains a log of executed maintenance agreements. During this reporting period, the City finalized an implementation program to notify all property owners of inspections required on an annual basis and stipulated that inspections be completed by July 31, 2010. A copy of the letter and BMP inspection form is included in Appendix E along with the log of executed maintenance agreements.

During this reporting period, 59 private BMPs on 41 sites were inspected by the City. Thirty of those BMPs were found to be in compliance with operations and maintenance requirements, and copies of the inspection reports outlining the corrective actions required on the remaining 29 BMPs were copied to the owners. The City will be performing follow-up inspections on these BMPs over the next six months.

2.6 Pollution Prevention/Good Housekeeping for Municipal Operations

The goal of this minimum control measure is to develop, implement, evaluate, and modify an operation, maintenance, and training program for municipal operations. This goal includes updating SWP3s for City facilities, training City staff, and developing storm water pollution prevention protocols for City contractors. The tasks, measurable goals, and status of the Pollution Prevention/Good Housekeeping BMPs are described in Table 8.

Table 8- Pollution Prevention/Good Housekeeping BMPs

BMP	BMP Description	Measurable Goal	Status
6.1	Continue implementing City Yards SWP3 and update every 3 years	Quarterly visual monitoring, annual facility inspection, and updated SWP3	Completed for Permit Year 2; ongoing program
6.2	Continue use of salt storage building and vehicle washing facility at City Yards	Monthly City Yards inspection to observe that salt and vehicle washing are contained with the respective facilities and corrective measures taken if needed	Completed for Permit Year 2; ongoing program
6.3	Continue training of City employees on EMS	Train all employees	Completed for Permit Year 2; ongoing program
6.4	Continue street sweeping program and track amount of litter and debris removed	Track miles of streets swept annually during the reporting period	Completed for Permit Year 2; ongoing program

2.6.1 BMP 6.1: The City Yards, the storage and maintenance facility for heavy equipment and materials for the Public Works Department, has a SWP3 in place. The plan outlines planned improvements that will eliminate potential sources of pollution and provides recommendations to improve the water quality of runoff from the site. Standard Operating Procedures are included as part of the SWP3. The SWP3 is reviewed and updated every three years. The SWPP was modified in 2010 to include corrective measures needed as a result of site inspections. A copy of the SWP3 is included in Appendix F.

As required in VPDES Permit No. VAR050822 issued for this facility, quarterly visual monitoring was conducted on December 2, 2009, January 27, 2010, and April 28, 2010. The annual facility inspection has not been conducted yet as of the date of this report.

As a result of the inspection, corrective measures were undertaken. One outfall point (outfall #2) was removed from the plan and one non-stormwater discharge, the street sweeper water filling station, was added to the SWP3.

- **2.6.2** BMP 6.2: The City operates and maintains salt storage and vehicle washing facility. The facility is in use as planned and designed. Inspections of the City Yard occurred on December 2, 2009, January 27 and April 28, 2010.
- **2.6.3 BMP 6.3:** The City requires all employees to attend a short training session on EMS to raise the awareness among employees of environmental impacts around them. During this reporting period, 53 employees participated in EMS training. A copy of the presentation given to employees is contained in Appendix G.
- **2.6.4 BMP 6.4:** City streets are swept on a regular basis to remove pollutants and improve appearance. During this reporting period, 5,997.75 lane miles of streets were swept.

3.0 Results of Information Collected and Analyzed

There are no requirements for monitoring or data analysis as part of this Program.

4.0 Summary of New Stormwater Activities Planned for Permit Year 3

Table 9 outlines the BMPs planned for each of the minimum control measures for Permit Year 3 and their status.

Table 9- New MS4 Stormwater Activities for Permit Year 3

Minimum Control Measure	ВМР	Planned Activity	Comment
Illicit Discharge	BMP 3.1 Inspections of storm	Inspection of Buffalo	Will be
Detection and	sewers within City's five	Run	conducted in
Elimination	watersheds		Permit Year 3
			as planned.

In addition, the City will continue with the following activities initiated in Permit Years 1 and 2:

- BMP 1.1: Broadcasting programs focused on stormwater;
- BMP 1.2: Disseminating information to the general public;
- BMP 1.3: Administering the stormwater complaint hotline;
- BMP 1.4: Updating and maintaining stormwater information posted on City's website;
- BMP 1.5: Initiating the formal program for presentations at elementary and high schools;
- BMP 2.1: Encouraging participation in Adopt-A-Stream Program;
- BMP 2.2: Posting the MS4 Permit and Subsequent Revisions to the City's Website;
- BMP 3.1: Conducting hazardous spill response program and two household hazardous waste collection days per month;

- BMP 3.2: Implementing inspections of storm sewers within the City's subwatersheds;
- BMP 3.3: Enforcing the prohibition of illicit connections, as needed, according to the City's Water Protection Ordinance;
- BMP 3.4: Administering stormwater complaint hotline to identify illicit connections;
- BMP 3.5: Providing household trash and recycling services to residents;
- BMP 3.6: Conducting inflow and infiltration abatement program to replace or slipline sanitary sewer system;
- BMP 4.1: Conducting program to require construction site operators to control waste;
- BMP 4.2: Maintaining DCR Erosion and Sediment Control Plan review, inspection, and administration certification for a minimum of two City employees;
- BMP 4.3: Enforcing erosion and sediment control as well as stormwater management and water quality;
- BMP 4.4: Administering stormwater complaint hotline to identify problems at construction sites;
- BMP 4.5: Tracking regulated land disturbing activities;
- BMP 5.1: Enforcing erosion and sediment control as well as stormwater management and water quality;
- BMP 5.2: Requiring BMP maintenance agreements for all privately owned water quality and quantity BMPs;
- BMP 6.1: Conducting monitoring and annual inspections of the City Yards;
- BMP 6.2: Using salt storage building and vehicle washing facility at City Yards as designed;
- BMP 6.3: Training of City employees on EMS; and
- BMP 6.4: Street sweeping program and track amount of litter and debris removed.

5.0 Changes in Identified BMPs or Measurable Goals

- BMP 1.1, "Continue Airing TV Programs focused on Stormwater", on the public access channel was discontinued. The City now makes this material available to citizens through a link on the City's website to the web video of "After the Storm" where citizens may view it. The City will post links to other stormwater videos in Permit Year 3.
- BMP 1.3, "Continue Administering Stormwater Complaint Hotline", will be supplemented by posting the posting the stormwater complaint hotline information on the City of Winchester's Facebook page. By using this popular social media, the City will be able to provide a large number of people with this information. The City will initiate this activity in Permit Year 3.
- BMP 3.5, "<u>Household Waste Reduction</u>", is a new BMP added to the Program Plan in January 2010. This BMP will track the tonnage of trash and recyclables collected in the City's residential trash pickup service.

BMP 3.6, "<u>Illicit Discharge Elimination</u>", is a new BMP added to the Program Plan in January 2010. This BMP is part of the City's inflow and infiltration abatement program to prevent illicit discharges from sanitary sewers from reaching streams or groundwater. This BMP will measure the linear feet of sanitary sewer replaced or lined, and sanitary manholes replaced.

6.0 Reliance on Other Government Entities

The City of Winchester does not rely on other government entities to meet the requirements of the VSMP General Permit.

7.0 Approval Status of Qualifying Local Programs

The Virginia Soil and Water Conservation Board evaluated the City's Erosion and Sediment Control Program in accordance with requirements of §10.1-561(E) of the Virginia Erosion and Sediment Control Law and 4VAC50-30-90(B) of Virginia Erosion and Sediment Control Regulations, and found the program to be consistent with the laws and regulations on September 20, 2007.

8.0 Total Maximum Daily Loads (TMDLs) with Waste Load Allocations (WLAs)

A TMDL, as defined by the Environmental Protection Agency, is a calculation of the maximum amount of a pollutant that a waterbody can receive and still meet water quality standards, and an allocation of that load among the various sources of that pollutant. Pollutant sources are characterized as either point sources that receive a WLA, or nonpoint sources that receive a load allocation. Each state is responsible for developing TMDLs for all impaired waters within their jurisdiction.

Currently, implementation plans are being developed within the State of Virginia to address the TMDLs developed for the drainage area of the Chesapeake Bay. This will include the MS4 Permit area for the City of Winchester. The City acknowledges that when these plans are finalized, the City will modify their Program Plan, as needed, to meet any new requirements. Also, the City will participate in the development of the implementation plans for these TMDLs.

8.1 WLAs

Within the City of Winchester, TMDLs and WLAs were developed and approved by the Virginia Soil and Water Conservation Board. The contributing drainage area for these loads extends beyond the City's designated MS4 permit area. The TMDL WLAs for the City, as stated in the Virginia Stormwater Management Program (VSMP) Permit Registration Statement, dated January 5, 2010, are:

- 443 ton/year of sediment to Abrams Creek;
- 269.2 ton/year of sediment to the Lower Opequon Creek; and
- 19.4 x 10¹² cfu/year of bacteria to Abrams Creek.

A map showing the drainage areas to impaired streams for the City is included in Appendix A.

In January 2009, the City adopted an ordinance that included language on migratory and nonmigratory waterfowl. The purpose of the ordinance is to control the feeding and baiting of migratory and nonmigratory waterfowl in order to protect the public health and property and the water quality of lakes, ponds, rivers and streams in Winchester. The intent of the ordinance is to reduce the amount of fecal matter from waterfowl deposited in the water and on the adjacent shoreline and waterfront property caused in part by the feeding and baiting of these fowl by the public. This ordinance remains in effect and is enforced by the City.

The City continues to maintain several BMPs that address the identified WLAs in the TMDLs as required under the General Permit. Detailed information on the evaluation techniques and the measurements of success can be found in Section 2.0 of this report. Table 10 describes the activities, waterbody/reach, and pollutant of concern to address the identified WLAs in the TMDLs.

Table 10- BMPs to Address Pollutants

BMPs/Activities	Water Body/Reach	Pollutant(s) of Concern
Maintain stormwater complaint hotline to receive reports of bacterial contamination	Abrams Creek	Fecal Coliform
Sweep city streets on a regular basis to remove sediment and debris	Abrams Creek Lower Opequon Creek	Sediment
Continue program to require construction site operators to control waste	Abrams Creek Lower Opequon Creek	Sediment
Review all site plans for water quality calculations and show compliance with the State stormwater management regulations regarding the phosphorus reductions required for development and redevelopment projects	Abrams Creek Lower Opequon Creek	Sediment
Continue program to replace or slipline sanitary sewers and manholes	Abrams Creek	Fecal coliform
Continue program to provide household trash and recycling pickup service for residents	Abrams Creek	Fecal coliform
Continue to review stormwater management BMPs that improve water quality and inspect these as part of the City's annual inspection program.	Abrams Creek Lower Opequon Creek	Fecal Coliform Sediment

8.2 Stormwater Discharges and Pollutant Loadings

Section I B(9)(b) of the General Permit calls for an estimate of the volume of stormwater discharged and quantity of WLA pollutant.

The quantity of WLA pollutants was computed for Abrams Creek and Redbud Run, a tributary to the Lower Opequon Creek, within the City. The quantities were computed by pro-rating the total allocated WLA for sediment and bacteria for Abrams Creek and the Lower Opequon Creek by the length of impaired stream within the City's MS4 area to the total length of impaired stream. This results in the following quantities:

- 129.7 tons/year of sediment for Abrams Creek
- 12 tons/year of sediment for Redbud Run
- 2,528 x 10¹² cfu/year of bacteria for Abrams Creek

This methodology does not account for land use or for any BMPs that are in-place within the City's MS4 area. In Permit Year 3, the City will examine the methodology used to determine the WLAs and may propose revised WLAs for the Winchester MS4 area.

The annual volume of stormwater was derived using the Simple Method approach for the five watersheds for which the City contributes as shown in Table 11. The volume of runoff represented in the table below uses readily available Geographic Information System data to derive the percent impervious cover and does not subtract portions of the City that are permitted under separate National Pollution Discharge Elimination Systems permits (e.g. Virginia Department of Transportation MS4 Permit). These volumes are subject to revision as additional information is made available and processed.

Table 11- Annual Stormwater Volume

Description	Discharge to Impaired Waters?	Area (acres)	Impervious (%)	Runoff Coefficient	Runoff Volume (ft ³)
MS4 to Redbud					
Run	Yes	167	42	0.428	10,041,020
MS4 to Town Run MS4 to Abrams Creek (excluding Town Run)	Yes Yes	2,068 2,450	33	0.347	100,808,604
MS4 to Buffalo					
Lick Run	No	789	33	0.347	38,461,310
MS4 to Hoge Run	No	422	29	0.311	18,437,007
Total		5,896			311,958,711

9.0 Identification of Illicit Discharges

In accordance with Section II B(3)(f), Illicit Discharge Detection and Elimination, the City is required to track the number of illicit discharges identified and how they were controlled or eliminated. The City identifies illicit discharges through its stormwater complaint hotline. During this reporting period, no illicit discharges were reported and therefore no follow up activity was needed.

10.0 Land Disturbing Activities

In accordance with Section II B(4)(c), Construction Site Stormwater Runoff Control, of the General Permit, the City must track regulated land-disturbing activities for the reporting period. During this reporting period, a total of 29 land-disturbing activities were recorded for a total disturbance of 23.08 acres.

11.0 Stormwater Management Facilities

In accordance with Section II B(5)(b)(6), Post-construction Stormwater Management in New Development and Redevelopment, the City must track all known permanent stormwater management facilities that discharge to the regulated MS4. Table 12 contains the required information for all as-built facilities and Table 13 provides information on stormwater facilities that are under construction.

Table 12- As-Built Stormwater Management Facilities

Facility	Type	HUC	Impaired receiving	Acres
			waters	Treated
			Opequon Creek –	
Aiken Strip Mall	SWM Pond	PU16	Buffalo Lick Run	6.0
All Points			Opequon Creek – Hoge	
Warehouse	SWM Pond	PU16	Run	8.8
			Opequon Creek –	
Allston Mews	SWM Pond	PU16	Buffalo Lick Run	1.5
American			Opequon Creek-Hoge	
Woodmark	SWM Pond	PU16	Run	2.6
	Pervious Pavement, Grass			
804 Amherst Street	Swales	PU17	Abrams Creek	0.12
	S Wales			
Amherst St. CVS	SWM Pond	PU17	Abrams Creek	43.5
Bank of Clarke	Downstream			
County	Defender	PU17	Abrams Creek	1.12
			Opequon Creek -	
Battle Park Estates	SWM Pond	PU16	Sulphur Spring Run	35.6

Facility	Туре	HUC	Impaired receiving	Acres
•			waters	Treated
Berryville Ave.	Underground			
CVS	Detention	PU17	Abrams Creek	1.1
Burke Center	SWM Pond	PU17	Abrams Creek	7.1
Byrd Office			Opequon Creek-	
Building	SWM Pond	PU16	Buffalo Lick Run	2.06
Cameron Street				
Parking Garage	Filterra Unit	PU17	Abrams Creek	0.2
Castleman	Underground			
Subdivision	Detention	PU17	Abrams Creek	6.39
Cedar Creek Grade				
(a)	Filterra Units	PU17	Abrams Creek	2.7
Cedar Creek Grade				
(b)	Filterra Units	PU17	Abrams Creek	2.7
Centre at				
Winchester	SWM Pond	PU17	Abrams Creek	8.5
Chastain Cleaners	SWM Pond	PU17	Abrams Creek	0.146
Chick-Fil-A	SWM Pond	PU17	Abrams Creek	11.6
Cottages at Willow				
Lawn	SWM Pond	PU17	Abrams Creek	40.6
Dermatology				
Associates	SWM Pond	PU17	Abrams Creek	5.2
	Underground			
Drissi Plaza	Detention	PU17	Abrams Creek	2.1
	Rain garden,			
	Infiltration			
FCPS Admin Plaza	Swale	PU17	Abrams Creek	0.2
Fern Adams	Underground			
Building	Detention	PU17	Abrams Creek	0.47
Frederick Douglas			Opequon Creek -	
School	SWM Pond	PU16	Sulphur Spring Run	78.9
Friendship Fire				
Hall	SWM Pond	PU17	Abrams Creek	50.5
Ft. Collier Rd. Food				
Lion	SWM Pond	PU17	Abrams Creek	20.2
Habitat Kent				
St/Freemont St Lois	Grass Swale	PU17	Abrams Creek	0.63
			Opequon Creek –	
Henkel-Harris	SWM Pond	PU16	Buffalo Lick	30.1
High End	SWM Pond,		Opequon Creek-Hoge	
Automotive	Rain Garden	PU16	Run	0.5
	Underground			
Hilton Garden Inn	Detention	PU17	Abrams Creek	5.5

Facility	Type	HUC	Impaired receiving	Acres
			waters	Treated
Hirschberg Office				
Building	Infiltration	PU17	Abrams Creek	1.1
History and				
Tourism Center	Rain Garden	PU17	Abrams Creek	3.4
	SWM Pond,			
HN Funkhouser	Grass Swale	PU17	Abrams Creek	1.9
Hope Drive				
Subdivision	SWM Pond	PU17	Abrams Creek	66.0
Islamic Society of	Pervious			
Winchester	Pavement	PU17	Abrams Creek	
John Handley High	Underground			
School	Detention	PU17	Abrams Creek	8.2
Jubal Early Plaza				
Lot I-Lot 2	Detention Plaza	PU17	Abrams Creek	4.22
Jubal Early Plaza				
II-Lot 9	Detention Plaza	PU17	Abrams Creek	4.22
KSR LLC	Sand Filter	PU17	Abrams Creek	0.17
Landing at Park				
Heights	Planter Wall	PU17	Abrams Creek	1.96
Limestone Court	SWM Pond	PU17	Abrams Creek	18.3
Linden Medical				
Center	Detention Pond	PU17	Abrams Creek	4.4
Lowes	SWM Pond	PU17	Abrams Creek	11.6
201165	Rain Garden,	1017	Tierums ereek	11.0
	Underground			
Madison Center	Storage	PU17	Abrams Creek	2.6
Widdison Center	Storage	1017	Opequon Creek-	2.0
Madison Place I	Detention Pond	PU16	Buffalo Lick Run	5.53
McDonald's-	Underground	1010	Buildio Elek Ruii	3.33
Berryville Ave	Detention	PU17	Abrams Creek	0.6
McKinley Office	Betention	1017	7 torums creek	0.0
Building	SWM Pond	PU17	Abrams Creek	3.2
Morlyn Hills	Wetlands,	1017	Autams Cicer	3.2
Subdivision	Retention Pond	PU17	Abrams Creek	
Subdivision	Infiltration	101/	Autams Cleek	
Northside Station	Gallery	PU18	Redbud Run	1.6
TYOTHISIUC Station	Gallery	1010		1.0
Onohand Tarrasa	CWM Dand	DITIO	Opequon Creek -	6.1
Orchard Terrace	SWM Pond	PU18	Redbud Run	6.4
O II1/1 D1 II	Porous	DI 117	A 1	0.00
Our Health-Phase II	Pavement	PU17	Abrams Creek	0.08

Facility	Type	HUC	Impaired receiving	Acres
			waters	Treated
	Filterra Units &			
	Water Quality		Opequon Creek –	
Panera	Basins	PU16	Buffalo Lick Run	1.5
Park Place	SWM Pond	PU17	Abrams Creek	33.1
Patriot Collision			Opequon Creek-Hoge	
Center	SWM Pond	PU16	Creek	1.2
Pine-Burke	Underground			
Apartments Phase I	Detention	PU17	Abrams Creek	0.47
	Underground		Opequon Creek-	
Popeye's	Detention	PU17	Buffalo Lick Run	0.93
Robinson School	SWM Pond	PU17	Abrams Creek	25.2
			Opequon Creek –	
Rolling Hills Park	SWM Pond	PU16	Buffalo Lick Run	4.5
Rolling Hills			Opequon Creek-	
Subdivision	Detention Pond	PU16	Buffalo Lick Run	54.7
Rubbermaid Pallet	Grass Filter		Opequon Creek-Hoge	
Storage	Strip	PU16	Run	3.2
Saturn of			Opequon Creek-Hoge	
Winchester	SWM Pond	PU16	Run	3.8
Selma Medical	SWM Pond	PU17	Abrams Creek	7.5
Shawnee Fire				
Department	SWM Pond	PU17	Abrams Creek	20.3
Shenandoah				
University TV	Grass Swale			
Station	Detention	PU17	Abrams Creek	0.92
			Opequon Creek –	
Sorrel Court	SWM Pond	PU16	Buffalo Lick Run	4.8
Spencer Square	Detention Pond	PU16	Abrams Creek	1.5
•			Opequon Creek-	
Stonecrest Village	SWM Pond	PU16	Buffalo Lick Run	87.0
Stutzman Body	Infiltration		Opequon Creek-	
Shop	Gallery	PU16	Buffalo Lick Run	1.1
Summerfield				
Apartments	SWM Pond	PU17	Abrams Creek	5.4
SU Student Center	Pervious			
Addendum	Pavement	PU17	Abrams Creek	0.4
	Underground			
Sun Trust Bank	Detention	PU17	Abrams Creek	1.0
Sun Trust Bank	SWM Pond	PU17	Abrams Creek	11.6

Facility	Туре	HUC	Impaired receiving	Acres
			waters	Treated
	Downstream			
	Defenders &			
TGI Friday's &	Infiltration		Opequon Creek –	
Glaize PVR	Ponds	PU16	Buffalo Lick Run	2.9
The Corners I and	Infiltration			
II	Gallery	PU17	Abrams Creek	3.1
Timberlake Office				
Building	Filterra Units	PU17	Abrams Creek	0.5
Trinity Express				
Lube	SWM Pond	PU17	Abrams Creek	0.81
Valley Ave. Food				
Lion	SWM Pond	PU17	Abrams Creek	20.7
			Opequon Creek-	~~ ~
Valley Mortgage	SWM Pond	PU16	Buffalo Lick Run	58.0
Valor Drive Site				
Plan	SWM Pond	PU17	Abrams Creek	3.44
Wal-Mart	SWM Pond	PU17	Abrams Creek	19.4
Walnut Street				
Extension		D1115		1.04
Subdivision	Grass Swale	PU17	Opequon Creek	1.24
War Memorial	D : G 1	DILLE		0.5
Building	Rain Garden	PU17	Abrams Creek	0.5
Westridge Section	CHAIL I	DILLE		0.2
I a c	SWM Pond	PU17	Abrams Creek	9.2
Westridge Section	CHAIL I	DILLE		15.1
2	SWM Pond	PU17	Abrams Creek	15.1
Whittier Ponding	CWAAD	DILLIA		1247
Basin	SWM Pond	PU17	Abrams Creek	124.7
Winchester Medical	CWAAD	DILLIA		171
Center	SWM Pond	PU17	Abrams Creek	171

Table 13- Stormwater Management Facilities Under Construction

Facility	Туре	HUC	Impaired receiving waters	Acres Treated
BSW Investments	Rain garden	PU17	Abrams Creek	0.16
Commercial Street	Underground			
Used Cars	Detention	PU17	Abrams Creek	0.7
Craun Property	Filterra	PU17	Abrams Creek	NA
East Tevis Street				
Extension	WQ Ponds	PU17	Abrams Creek	76.0

Facility	Туре	HUC	Impaired receiving	Acres Treated
			waters	Treated
	Pervious			
Elite Settlements	Pavement	PU17	Abrams Creek	0.1
Featherbed Lane-	Filterra, Rain			
Lot 3	Garden	PU17	Abrams Creek	1.14
G&M Music	Rain Garden	PU17	Abrams Creek	0.15
Glaize Pleasant				
Valley Commercial	Filterra Units	NA	NA	NA
	Filterra Units &			
Harvest Drive	Infiltration			
Medical	Pavers	PU17	Abrams Creek	7.1
Hope Drive Site			Opequon Creek-	
Plan	SWM Pond	PU16	Buffalo Lick Run	2.69
			Opequon Creek-Hoge	
Jenkins-Cooper	Detention Pond	PU16	Run	0.66
Linden Drive				
Office Park	Detention Pond	PU 17	Abrams Creek	2.13
Linden Heights				
Animal Hospital	Rain Garden	PU 17	Abrams Creek	1.34
Meddent Center	Rain Garden	PU17	Abrams Creek	0.4
Shawnee Drive	Tuni Gurden	1017	Tiorums Creek	0.1
Business Park	SWM Pond	NA	NA	NA
Dusiness Fun	S VVIVI I ONG	1111	Opequon Creek -	1111
South Valley Plaza	Filterra Units	PU16	Sulphur Spring Run	3.1
St. James Place	Rain Garden	PU17	Abrams Creek	0.4
St. Julios I lucc	Underground	1017	Tiorum Crock	0.1
Valor View	Detention, Rain			
Shopping Center	Garden	PU17	Abrams Creek	1.48
Whitacre Property	Filterra Unit	PU17	Abrams Creek	NA

12.0 Reliance on Any Applicable Third Parties

The City of Winchester does not rely on third parties to meet the requirements of the VSMP General Permit.

13.0 Public Comment Period for MS4 Program

A formal Public Comment Period for the Program was not initiated by the City. The Program is available on the City's website and comments are welcome at any time from the public. To date, no written comments have been received.

The City of Winchester is of the opinion that the BMPs set forth in the current MS4 Program Plan are effective and fulfill the requirements of the MS4 Permit for the City.