



**VSMF GENERAL PERMIT REGISTRATION STATEMENT FOR STORMWATER DISCHARGES FROM SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS [VAR04]**

(Please Type or Print All Information)

(The applicable fee specified in Form DCR 199-145 must additionally be submitted to the address given in that form to obtain coverage)

**1. Regulated Small MS4**

Name: Town of Vinton VSMP # VAR040026

Type:  City  County  Incorporated Town  Unincorporated Town  College or University  
 Local School Board  Military Installation  Transport System  Federal or State Facility  Other

Location (County or City): Town of Vinton, Roanoke County, Virginia

**2. Regulated Small MS4 Operator**

Name: Town of Vinton

Address: 311 South Pollard Street

City: Vinton State: Virginia Zip: 24179-2531 Phone: (540) 983-0601

**3. Hydrologic Unit Code(s) as identified in the most recent version of Virginia's 6th Order National Watershed Boundary Dataset currently receiving discharges or that have potential to receive discharges from the regulated small MS4:**

HUCs: RU13 – Glade Creek and Tinker Creek and RU14 Wolf Creek and Roanoke River. Impaired Waters: Roanoke River (E-Coli and Sediment); Glade Creek (E-Coli), and Tinker Creek (E-Coli).

**4. Attach a description of the estimated drainage area, in acres, served by the regulated small MS4 discharging to any impaired receiving surface waters listed in the most recent Virginia 305(b)/303(d) Water Quality Assessment Integrated Report, and a description of the land use of each such drainage area.**

SEE ATTACHED MAP and DESCRIPTION. Glade Creek Area – 711 Acres; Tinker Creek Area – 489 Acres; Wolf Creek Area – 663 Acres; and Roanoke River Area – 148 Acres.

**5. Any TMDL waste loads allocated to the regulated small MS4 (this information may be found at <http://www.deq.state.va.us/tmdl/develop.html>): Tinker Creek Watershed (Carvin Creek, Glade Creek, Lick Run, Tinker Creek) Year Completed 2004, E-Coli WLA 4.29E+11 (colony forming units/yr); Roanoke River Watershed (Ore Branch, Roanoke River) Year Completed 2006, E-Coli WLA 3.32E+10 (colony forming units/yr); Roanoke River Watershed (Roanoke River) Year Completed 2006, Sediment WLA 128 (tons/yr).**

**6. The name(s) of any regulated physically interconnected MS4s to which the regulated small MS4 discharges. County of Roanoke, City of Roanoke, and Virginia Department of Transportation (VDOT). See attached copies of notification.**

**7. A copy of the MS4 Program Plan that includes: SEE ATTACHED.**

**a. A list of BMPs that the operator proposes to implement for each of the stormwater minimum control measures and their associated measurable goals pursuant to 4VAC50-60-1240, Section II B; that includes:**

**i. A list of the existing policies, ordinances, schedules, inspection forms, written procedures, and other documents necessary for BMP implementation; and**

**ii. The individual, department, division, or unit responsible for implementing the BMP;**

- b. The objective and expected results of each BMP in meeting the measurable goals of the stormwater minimum control measures;
- c. The implementation schedule including any interim milestones for the implementation of a proposed new BMP; and
- d. The method that will be utilized to determine the effectiveness of each BMP and the program as a whole.

8. List all existing 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.

SEE ATTACHED.

9. The name, address, telephone number and e-mail address of either the principal executive officer or ranking elected official as defined in 4VAC50-60-370.

Christopher S. Lawrence, Town Manager, 311 South Pollard Street, Vinton, VA 24179, (540) 983-0607, clawrence@vintonva.gov.

10. The name, position title, address, telephone number and e-mail address of any duly authorized representative as defined in 4VAC50-60-370.

Anita J. McMillan, Planning and Zoning Director, 311 South Pollard Street, Vinton, VA 24179, (540) 983-0601, amcmillan@vintonva.gov.

11. **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."

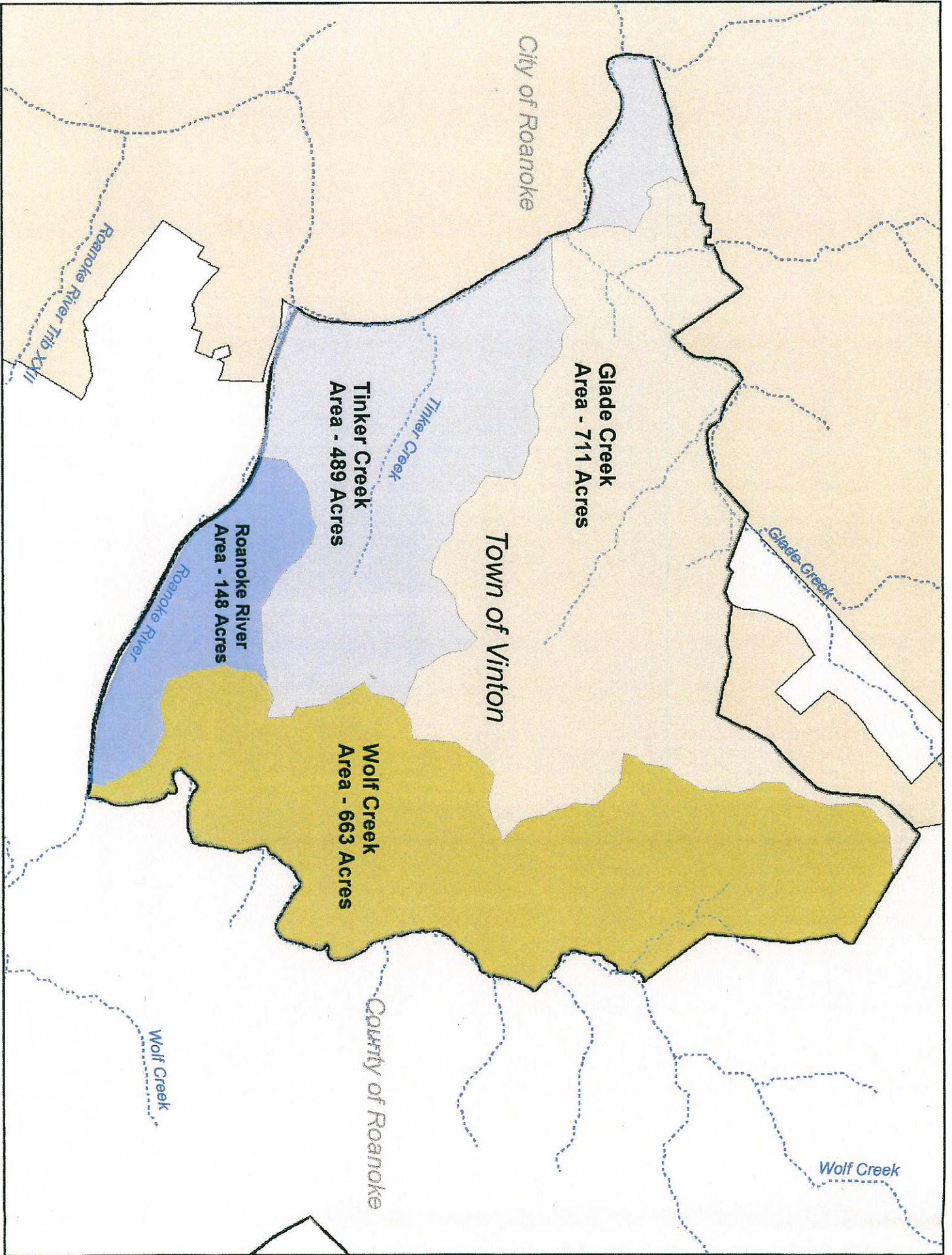
Print Name: Christopher S. Lawrence Title: Town Manager

Signature:  Date: 1/9/09

**For Department of Conservation and Recreation Use Only**

Accepted/Not Accepted by: \_\_\_\_\_ Date: \_\_\_\_\_

Basin \_\_\_\_\_ Stream Class \_\_\_\_\_ Section \_\_\_\_\_ Special Standards \_\_\_\_\_



**TOWN OF VINTON**  
**Virginia Pollutant Discharge Elimination**  
**System (VPDES) Phase II Report**

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**Town of Vinton, Virginia**

**VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM  
GENERAL PERMIT REGISTRATION STATEMENT  
FOR STORM WATER DISCHARGES  
FROM SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS**

**VPDES PERMIT NO. VARO40026**

**UPDATED MS4 PROGRAM PLAN**

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**JANUARY 2009**

## Executive Summary

The Town of Vinton finds that the uncontrolled and polluted stormwater runoff to the Town's storm sewer system has an adverse impact on the water quality of the receiving waters. When left uncontrolled, this water pollution can result in the destruction of fish, wildlife, and aquatic life habitat; a loss in aesthetic value; and it threatens public health by contaminating food, drinking water supplies, and recreational waterways.

The Town is committed to continuing the development, implementation, and enforcement of its Municipal Separate Storm Sewer System (MS4) Program that is designed to reduce the discharge of pollutants from the regulated MS4 and to addressing impaired waters that the MS4 discharges into to the maximum extent practicable (MEP). The main goal of this program is to protect water quality, and to improve waters into which the regulated small MS4 discharges. This program is also designed to meet the appropriate water quality requirements of the Clean Water Act (CWA), Virginia Stormwater Management Act, and associated regulations.

The Town's stormwater management program includes the six minimum control measures (MCMs) practices:

1. Public education and outreach on stormwater impacts;
2. Public participation and involvement;
3. Illicit discharge detection and elimination;
4. Construction site stormwater runoff control;
5. Post-construction stormwater management in new development and redevelopment; and
6. Pollution prevention and good housekeeping for municipal operations.

The Town's commitment to establish and sustain a comprehensive program that protects the Town's stormwater quality to the maximum extent practicable has been made. Strong regional cooperation has been pursued since the VPDES Phase II permit was in place in 2003 for the implementation of the minimum control measures practices. The Town intends to continue its participation in regional efforts to educate the general public and development communities. These efforts are in cooperation with Roanoke County and City of Roanoke, and other regional organizations such as the Clean Valley Council (CVC), Roanoke Valley Resource Authority (RVRA), Roanoke Valley Television (RVTV) Channel 3, Roanoke Valley Alleghany Regional Commission (RVARC), Upper Roanoke River Roundtable (URRR), Roanoke Valley Greenway Commission, Roanoke Valley Urban Forestry Council (RVUFC), and Western Virginia Land Trust. A strong regional cooperation is instrumental in minimizing pollutants in the Roanoke River, creeks and streams, and providing the Roanoke Valley citizens with clean water now and into the future.

## The Town of Vinton's Physically Interconnected MS4's to which It Discharges

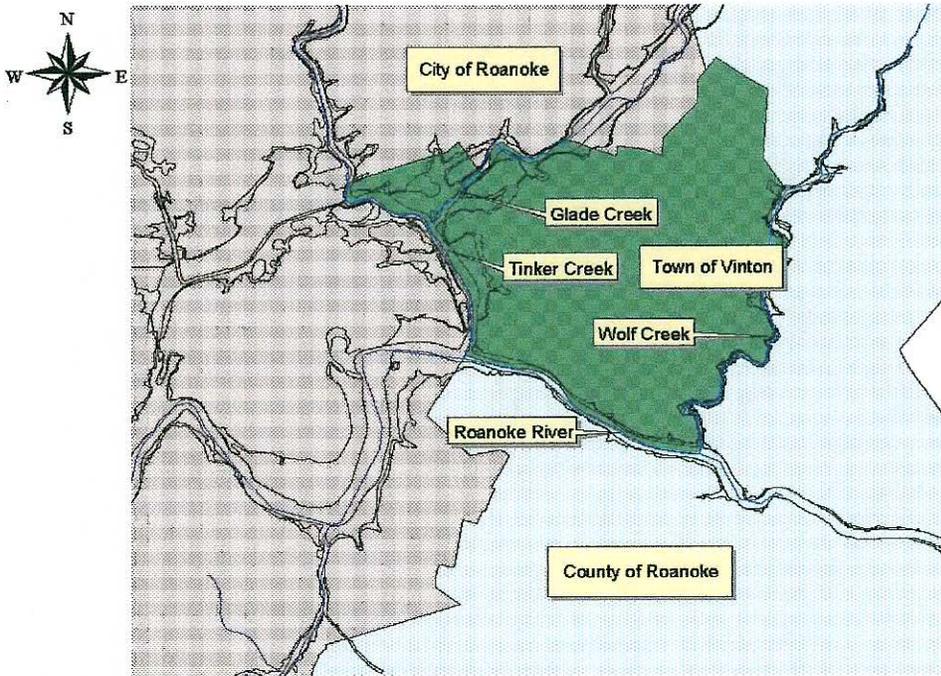


Figure 1: Receiving Waters for the Town of Vinton, Virginia

The Town is located in Roanoke County, bordered on its western and northern limits by the City of Roanoke. To the east lie Roanoke County and the Blue Ridge Parkway. The southern border lies along the Roanoke River. The northwest and west portions of the Town are bordered by Glade Creek and Tinker Creek. The eastern portion is bordered by Wolf Creek. The Town has a population of 7,782, contains 3.2 square miles in area, 90 miles of roadways and the stormwater outfalls discharging to the waters of the state: Glade Creek, Tinker Creek, Wolf Creek and Roanoke River, see Figure 1.

The Town owns and maintains its roadway systems, solid waste collection operation, and provides water and sewer system services to both Town and County residents. The Town pumps its sewage to the Roanoke Regional Wastewater Treatment Plant located in Roanoke City. The Town owns and operates its water system, which uses a series of thirteen wells drawing ground water from the Falling Creek Aquifer.

The Town transports its solid waste to Tinker Creek Transfer Station, owned and operated by the Roanoke Valley Resource Authority (RVRA) and funded by the City of Roanoke, County of Roanoke, and Town of Vinton.

### Watershed Summary

This section details a list of all known waters currently receiving discharges or that have potential to receive discharges from the regulated small MS4. The following Table 1 lists the waterways and the Hydrologic Unit Codes (HUC) as identified in the most recent version of the

Virginia's 6<sup>th</sup> Order National Watershed Boundary Dataset and the estimated drainage areas in, served by the regulated small MS4 discharging to these surface waters.

**Table 1: Town of Vinton Watersheds HUC's, Impaired Receiving Waters, and Drainage Areas inside Town of Vinton**

<u>Watershed</u>	<u>Hydrologic Unit</u>	<u>Impaired Receiving Waters</u>	<u>Drainage Area</u> (Estimated in Acres)
Glade Creek	RU13	Glade Creek	711
Roanoke River	RU14	Roanoke River	148
Tinker Creek	RU13	Tinker Creek	489
Wolf Creek	RU14	-	663

**Description of Land Use for Each Watershed Discharging to Impaired Receiving Water**

Glade Creek

The Glade Creek watershed is a 33 square mile drainage basin located in northeast Roanoke County and City of Roanoke, and northwest Town of Vinton, with the northern portion of the watershed located in Botetourt County. Glade Creek watershed originates in the Blue Ridge Mountains near Curry Gap and flows in a southwesterly direction to its confluence with Tinker Creek at the border of the City of Roanoke and the Town of Vinton.

The upstream reaches of Glade Creek are relatively undeveloped until the creek enters the Town. The land uses along the mainstream are mostly wooded and agricultural except within the Town where the land uses are residential, commercial, industrial and open space.

Tinker Creek

The Tinker Creek watershed is a 112 square mile drainage basin located in northeast Roanoke County and City of Roanoke, northwest Town of Vinton, and southeast Botetourt County. Tinker Creek watershed originates in the Tinker Mountain area near Mt. Union at an elevation of approximately 2400 feet above sea level and flows in a southerly direction until its confluence with the Roanoke River at the border between the City of Roanoke, Roanoke County and the Town. There are three significant streams that drain into the Tinker Creek watershed: Carvin Creek, Glade Creek, and Lick Run. Tinker Creek serves as the political boundary between the Town and City of Roanoke.

The Tinker Creek watershed within the Town consists of industrial, commercial, residential land uses and wooded areas along the Roanoke River.

Wolf Creek

The Wolf Creek watershed is a 4.9 square mile drainage basin located in eastern Roanoke County and eastern Town of Vinton. Wolf Creek watershed originates in the Blue Ridge Mountains at Stewart Knob at approximately 2435 feet above sea level and flows in a

southwesterly direction until its confluence with the Roanoke River in the Town. The main stem of Wolf Creek serves as the political boundary between the Town and Roanoke County for a portion of its length. The upstream reaches of Wolf Creek are mostly undeveloped consisting of wooded areas and pasture with single-family residential developments off the Blue Ridge Parkway. As the stream continues southwesterly, the level of residential development increases followed by commercial development along the stream.

The watershed within the Town consists of mostly residential land uses, open space and undeveloped areas.

**Table 2: Wasteload Allocations for the Town of Vinton Watershed with Completed TMDL's**

<b>TMDL Waterways and Impaired Tributaries</b>	<b>Year Completed</b>	<b>Parameter</b>	<b>WLA</b>
<i>Tinker Creek Watershed</i>	2004	E-Coli	4.29E+11 (colony forming units/yr)
Carvin Creek			
Glade Creek			
Lick Run			
Tinker Creek			
<i>Roanoke River Watershed</i>	2006	E-Coli	3.32E+10 (colony forming units/yr)
Ore Branch			
Roanoke River			
<i>Roanoke River Watershed</i>	2006	Sediment	128 (tons/yr)
Roanoke River			

Source: Department of Environmental Quality List of Approved TMDL Reports at <https://www.deq.virginia.gov/TMDLDataSearch/ReportSearch.aspx;jsessionid=6CB8AE0F4A8504C9063C68B49A3A639>

***MCM 1: PUBLIC EDUCATION AND OUTREACH ON STORMWATER IMPACTS***

The Town of Vinton, Roanoke County, and City of Roanoke entered into a contract agreement with Clean Valley Council (CVC), Inc., in August 2006 to help fulfill most of the Best Management Practices (BMPs) within the MCM 1 and MCM 2. The MCM 1 is intended to implement a public education program to distribute and make available educational materials to the community and conduct equivalent outreach activities about the impacts of stormwater discharges on water bodies and the steps that the public can take to reduce pollutants in stormwater runoff.

A mix of best management practices (BMPs) has been chosen to target school children through outreach programs in the Roanoke County School System. A work plan has been developed to address the fecal coliform, grease, oil, and pathogen pollutants. Homeowners, restaurateurs, industries and the general public will also be targeted through wastewater education, public forums, and Save Our Streams (SOS) field days.

The Town has developed a list of programs or BMPs to meet these educational, and outreach measures are as listed:

- BMP 1-1: Comprehensive Review and Inventory of Available Stormwater Educational Resources and Programs.
- BMP 1-2: Development and Distribution of Stormwater Educational Materials for Town Residents and Businesses.
- BMP 1-3: Development and Implementation of Stormwater Educational School Programs – Different Programs for Age Appropriate Grade Level.
- BMP 1-4: Stormwater Public Awareness Programs to Promote the Importance of Protecting Stormwater Quality.
- BMP 1-5: Town of Vinton Webpage where Citizens Can Obtain Information Concerning the Town’s Stormwater Management Program, Ordinances, Design Guidelines, Contact Information, Educational Programs, and Links to Other Organizations and Web Sites.

**BMP 1-1. Comprehensive Review and Inventory of Available Stormwater Educational Resources and Programs.**

**Goal:** To update and distribute a list of current publications, educational programs, websites, videos, maps, and training opportunities that directly address stormwater issues such as stormwater management, stormwater quality, impaired water bodies, floodplain management, pollution prevention, conservation practices, and riparian habitat protection.

**Responsible Party:** Department of Planning and Zoning in conjunction with Clean Valley Council (CVC), Inc.

**Schedule and Evaluation:** The Town of Vinton with the cooperation of Virginia’s Explore Park and Clean Valley Council (CVC) successfully implemented during the first permit cycle a review of publications and educational programs that address stormwater issues. The database was updated each year and posted on the Town’s Stormwater website.

The Town proposes to continue to maintain and update this stormwater program database through the contract agreement with CVC. The database will continue to document the educational program, brochures, pamphlets, videos, maps, and training opportunities related to stormwater management, stormwater quality, impaired water bodies, floodplain management, pollution prevention, conservation practices, and riparian habitat protection from various local, state, and federal agencies that address stormwater issues and will include new and developing programs and publications. When available, the website and phone number are listed with each resource. The database will be made accessible through the Town's website and will include instructions on accessing these educational materials.

At the end of each annual period, the Town will analyze website usage to determine the most effective format in which to distribute the list of programs. The Town will submit a copy of this database, documentation of the number of visits, and provide the website where the stormwater programs database can be found.

**Supporting Document:** None

**Measurable Goal:** Success of this BMP will be measured by tracking the website usage, and documentation of the numbers of program lists distributed.

**Items to be Reported in the Annual Report:** Evaluation and modifications to this BMP based on results of analysis of measurable goal.

**BMP 1-2. Development and Distribution of Stormwater Educational Materials for Town Residents and Businesses.**

**Goal:** To create stormwater educational materials on an annual basis, which will educate residents of the Town about local stormwater issues. The mailer will be designed as a regional document and will touch on the Town's Stormwater Program, general stormwater quality education, updates of local impaired water bodies, and TMDL's. It will be based on the unique issues and concerns for the Roanoke River Watershed. The existing Roanoke River Greenway has been identified as the most used greenway in Roanoke Valley, and the expansion of this greenway has been given the first priority by Valley citizens.

**Responsible Party:** Department of Planning and Zoning in conjunction with Clean Valley Council (CVC), Inc.

**Schedule and Evaluation:** During the first permit cycle, brochures entitled "What's Your Watershed Address" and "Give Water a Hand"; and a flyer "Stormwater ... Keep it Clean!!!, When it Rains, it Drains to the Nearest Creek or Stream", were created and distributed to educate the Town's residents on the Town's Stormwater Program and general stormwater quality education. The educational materials were included in Roanoke County's Parks and Recreation catalog for distribution to the entire County population including Town of Vinton, and in the Town's annual citizens' and customers' informational packet, which was delivered to each Town residence during the second week of December. The educational materials were also made

available during the Earth Day Celebration, Vinton Annual Dogwood Festival, Household Hazardous Waste Collection Days, and at Roanoke County Vinton Branch Library.

For this permit cycle, the Town proposes to continue to educate residents and businesses on the Town's Stormwater Program through educational materials. The Town will post a version of the material on the website for additional outreach.

At the end of each annual period, the Town will document the annual distribution totals.

**Supporting Documents:** None

**Measurable Goals:** Success for this BMP will be measured through the development of the educational materials and documentation of the numbers of materials being distributed.

**Items to be Reported in the Annual Report:** Evaluation and modification to the BMP based on the results of analysis of measurable goals.

**BMP 1-3. Development and Implementation of Stormwater Educational School Programs – Different Programs for Age Appropriate Grade Levels.**

**Goal:** Develop a stormwater educational program for school children. Clean Valley Council (CVC), Inc., educators under the direction of the Town will develop and provide programs addressing stormwater quality issues at the public and private schools. Different programs will target appropriate grade levels and will be SOL correlated.

**Responsible Party:** Department of Planning and Zoning in conjunction with Clean Valley Council (CVC), Inc.

**Schedule and Evaluation:** During the first permit cycle, the Town in conjunction with Virginia's Explore Park and CVC educators developed and provided Stormwater Education Program for school children in the public and private schools, which met certain SOL's for the school system. Programs offered by these educators targeted appropriate grade levels. In conjunction to these school programs, for the last four years, the CVC has held Earth Summit, in which select seniors and juniors from area high schools attended environmental workshops and lectures. The Town believes that this program was successful in teaching school children about stormwater issues and the benefits of healthy water bodies.

The Town proposes to continue this program for the new permit cycle. The Stormwater Education Programs for school children will be submitted in the Annual Report. CVC will document how many children have been educated on stormwater issues by tracking the number of programs provided and the number of children reached.

At the end of each annual period, the Town will analyze the data on how many programs were provided and how many children were reached to determine the most effective method.

**Supporting Document:** Clean Valley Council Educational Programs List

**Measurable Goal:** Success of this BMP will be measured by tracking the number of programs that were provided and the number of children who were reached.

**Items to be Reported in the Annual Report:** Program statistics for each education program. Evaluation and subsequent modifications to this BMP based on results of analysis of measurable goals.

**BMP 1-4. Stormwater Public Awareness Programs to Promote the Importance of Protecting Stormwater Quality.**

**Goal:** The Town in conjunction with CVC will develop Stormwater Public Awareness Program that includes the distribution of stormwater merchandise, public service announcements, and other high visibility educational media to utilize social mass marketing methods to bring stormwater quality issues to the attention of the Town's citizens.

**Responsible Party:** Department of Planning and Zoning in conjunction with Clean Valley Council (CVC), Inc.

**Schedule and Evaluation:** During the first permit cycle the Town, in conjunction with Virginia's Explore Park and CVC, developed and distributed posters, bumper stickers, flyers, fact sheets, pens, magnets, chip clips, and other items promoting the importance of the stormwater quality to the citizens. Public service announcement programs were also developed to bring stormwater issues into every home in the Town.

The Town proposes to combine the promotional merchandise BMP with the public service announcement BMP to create a Public Awareness Program that will incorporate the distribution of stormwater merchandise, the creation of public service announcements, work with local TV news networks to cover stormwater issues in the news media and other high visibility educational media to bring stormwater quality issues to the attention of citizens of the Town.

**Supporting Document:** None

**Measurable Goal:** Document the type of public awareness method that was utilized, including the size of the audience and any impact indicators that show what effect the method had on people's behavior.

**Items to be Reported in the Annual Report:**

- Numbers of promotional merchandise distributed.
- Number of public service announcement programs created and promoted.
- Conclusion on the effectiveness of the BMP and any modifications to this BMP.

**BMP 1-5. Town of Vinton Webpage where Citizens Can Obtain Information Concerning the Town's Stormwater Management Program, Ordinances, Design Guidelines, Contact Information, Educational Programs, and Links to Other Organizations and Web Sites.**

**Goal:** To maintain and monitor the Town's Stormwater webpage, where citizens and visitors can continue to get information concerning the Town's Stormwater Management Program, ordinances, design guidelines, general and contact information, pollution prevention information, educational programs, list of impaired water bodies, and links to other organizations and sites. The website will also inform the citizens of regional clean-up events, household hazardous waste and electronic collection events, and other local water quality educational programs.

**Responsible Party:** Department of Planning and Zoning

**Schedule and Evaluation:** During the first permit cycle, the Town developed a stormwater webpage where citizens are able to get information concerning the Town's Stormwater Management Program. The Town proposes to continue to expand and update the website and document the webpage usage.

**Supporting Document:** None

**Measurable Goal:** Webpage statistics.

**Items to be Reported in the Annual Report:**

- Page statistics and intended changes.
- Evaluation and resulting modification to this BMP based on results of analysis of measurable goals.

***MCM 2: PUBLIC PARTICIPATION AND INVOLVEMENT***

The Town of Vinton in conjunction with other Roanoke Valley governments and other agencies including Roanoke County, City of Roanoke, Botetourt County, Clean Valley Council (CVC), Inc., Roanoke Valley Resource Authority (RVRA), Upper Roanoke Roundtable Committee, and Roanoke Valley Greenway Commission will continue to have the community involved with clean-up projects along local streams and riparian corridors through the annual Spring Clean Valley Day and Fall Waterways Clean-up. The Town will also continue to hold its annual Special Spring Cleanup Week, where citizens are allowed to dispose of bulk items on the curb on their regular refuse collection day at no extra charge. Bulk items include unused/unwanted furniture, appliances, trees and lawn trimmings.

This control measure is intended to implement programs that help inform and educate Town citizens about the components of the stormwater management program. Support from citizens is crucial for the success of the stormwater management plan. To get the citizens' support, the Town has and will continue to coordinate several programs to engage its citizens' interest in stormwater quality as listed:

- BMP 2-1: A Stormwater Stenciling Program with Area Schools, Organizations, and Businesses to Engage Group Involvement and Educate People about the Consequences of Dumping Waste into the Storm Drain System.
- BMP 2-2: Clean-up and Environmental Events to Bring Attention to Current Stormwater Issues.
- BMP 2-3: Citizens' Stormwater Advisory Committee to Provide an Approachable Environment where Ideas and Concerns Regarding the Town's Stormwater Program may be Shared and Discussed on a Regional Level.
- BMP 2-4: Staff and Town-Appointed Citizens' Representatives Environmental Related Regional Organizations.
- BMP 2-5: Post Town's Stormwater Discharge Permit and Annual Report on the Town's website for Citizen Access.

**BMP 2-1. A Stormwater Stenciling Program with Area Schools, Organizations, and Businesses with the Goal of Stenciling Storm Drains throughout the Town.**

**Goal:** To coordinate a storm drain stenciling program with local schools, neighborhoods, businesses, and other organizations, to stencil messages on storm drains that educate people about the consequences of dumping waste into the storm drain system.

**Responsible Party:** Department of Planning and Zoning in conjunction with Clean Valley Council (CVC), Inc.

**Schedule and Evaluation:** During the first permit cycle, the Town worked with Virginia's Explore Park and CVC Educators to coordinate a Storm Drain Stenciling Program with local organization including schools and businesses.

The Town proposes to continue with the implementation of this BMP. The Town will continue to coordinate this program that will stencil at least 20 percent of the storm drains per year within the Town. The Town will document the stenciling of the storm drains.

**Supporting Document:** None

**Measurable Goal:** The Town will document the number of storm drains stenciled and the groups involved in the stenciling effort. Using the numbers as indicators, the Town will evaluate the effectiveness of this BMP and make adjustments to annually increase attendance and the number of storm drains stenciled.

**Items to be Reported in the Annual Report:**

- Number of storm drains stenciled.
- Number of groups participating.
- Evaluation and proposed modification of this BMP based on results of analysis of attendance record.

**BMP 2-2. Clean-up and Environmental Events to Bring Attention to Current Stormwater Issues.**

**Goal:** To coordinate and hold clean-up events and environmental events such as the annual Spring Clean Valley Day and Fall Waterways Clean-up Day; regional Household Hazardous Waste and Electronic Waste Collection events; public forum on environmental issues related to water quality and impaired water bodies; Town's Spring Clean-up Week; and Walk on the Greenways.

**Responsible Party:** Department of Planning and Zoning in conjunction with Clean Valley Council (CVC), Inc., Roanoke Valley localities, Roanoke Valley Resource Authority (RVRA), Roanoke Valley Greenway Commission, and other environmental organizations.

**Schedule and Evaluation:** During the first permit cycle, the Town coordinated with Virginia's Explore Park, CVC, Roanoke County, and City of Roanoke to conduct public forum meetings in conjunction of the Fall Waterways Clean-up Events, describing what the three localities (Town, City, and County) were doing concerning stormwater management issues. The meetings allowed for input and concerns to be received on stormwater issues. After evaluating the success, these three Valley governments believe that combining the forum with a stormwater and/or other environmental events would improve the effectiveness of the BMP by increasing public attendance.

The Town will continue to publicize its mandatory recycling program and continue to fund the recycling collection center at the Lake Drive Plaza Shopping Center, to increase awareness about the importance of recycling. The Town will continue its Spring Special Cleanup Week Program and will continue to participate in Annual Clean Valley Day, Fall Waterways Clean-up Day, and Earth Day. The Town has and will continue to contribute financially, by sponsoring, advertising, and providing staff for the Household Hazardous Waste (HHW) Collection and Household Electronics Waste Collection Events. Town staff and Town-appointed citizens are also board members of the RVRA, CVC, Roanoke Valley Greenway Commission, and Roanoke Valley Alleghany Regional Commission (RVARC), which enables special environmental events and projects to be done regionally to reduce costs and reach a wider audience.

The Town proposes to continue to implement this BMP to address stormwater issues including impairment to the water bodies and the Town's progress towards stormwater quality improvements. The Town will document the events, levels of participation, and attendance. Using attendance as an indicator, the Town will evaluate the effectiveness of this BMP.

**Supporting Document:** None

**Measurable Goal:** The Town will document the details of the events, levels of participation, and attendance. An increase in public attendance and participation in this BMP will indicate the success of this BMP.

**Items to be Reported in the Annual Report:**

- Environmental events and public forum itinerary.
- Number of citizens who participated in the events and forums.
- Adjustments that are proposed to be made for the next annual report period.

**BMP 2-3. Citizen’s Stormwater Advisory Committee to Provide an Approachable Environment where Ideas and Concerns Regarding the Town’s Stormwater Program may be Shared and Discussed on a Regional Level.**

**Goal:** To establish a group of citizens who meet with local stormwater management staff to review ordinances, TMDL’s issues, local projects, informational materials and educational components of the Stormwater Management Program. This group can provide an approachable environment where ideas and concerns regarding the Town’s stormwater program may be discussed and shared.

**Responsible Party:** During the first permit cycle, the Town Council appointed four citizens to serve on a Regional Stormwater Advisory Committee which met four times a year to be updated on the Stormwater Management Program, and to review ordinances, TMDL’s issues, local projects, informational materials and education components of the Stormwater Management Program. This program was successful during the first permit cycle.

The Town proposes to continue to implement this Citizens’ Stormwater Advisory Committee. The Committee will continue to meet four times a year to be updated on stormwater issues and to review educational and informational material components of the stormwater program.

**Supporting Document:** None

**Measurable Goal:** Success of this BMP will be measured by the attendance of the citizens advisory committee members at the meetings.

**Items to be Reported in the Annual Report:**

- Attendance at each meeting.
- Items and minutes of the meetings.
- Any modifications that will be made to the program.

**BMP 2-4. Staff and Town Representatives Environmental Related Regional Organizations.**

**Goal:** To continue to have staff and/or Town citizens serve on the regional organizations such as Clean Valley Council (CVC), Inc., Roanoke Valley Greenway Commission, Roanoke Valley Urban Forestry Council, Roanoke Valley Resource Authority (RVRA), and Western Virginia Water Authority (WVWA).

**Responsible Party:** Department of Planning and Zoning.

**Schedule and Evaluation:** During the first permit cycle, the Town was able to hold environmental events by participating and working regionally. The regional events allowed Town residents to participate in environmental events.

The Town will continue having staff and/or citizen representatives on these regional organizations to enable Town's participation in regional events and projects, and to increase wider involvement in environmental and stormwater quality issues. The Town will document the name of the organizations, regional events taking place and levels of participation.

**Supporting Document:** None

**Measurable Goal:** The Town will document the type of regional organizations, minutes of the meetings, attendance and involvement of Town's representatives in these organizations. An increase in public awareness and stormwater issues related events will indicate the success of this BMP.

**Items to be Reported in the Annual Report:**

- Names of Staff and/or Town's Citizens Representatives.
- List of regional stormwater related events and projects.
- Number of citizens who participated in the events and forums.
- Any modifications that will be made to the program.

**BMP 2-5. Post Town's Stormwater Discharge Permit and Annual Report on the Town's website for Citizens Access.**

**Goal:** To post the Town's Municipal Separate Storm Sewer Systems (MS4) Program on the Town's website which citizens may view and comment upon. This form of public viewing will allow Town citizens to become knowledgeable about the goals of the program and have information with which to comment on existing issues and influence changes in future programs. Each annual report as required will be posted on the website to keep citizens current on annual evaluations of the program's effectiveness and any proposed changes to the stormwater program.

**Responsible Party:** Department of Planning and Zoning.

**Schedule and Evaluation:** During the first permit cycle, the Town was able to post the MS4 permit application on the stormwater website.

The Town will continue to post the MS4 permit application and each subsequent annual report submitted to Department of Conservation and Recreation (DCR). The permit application will be posted no more than 30 days after the Town receives permit approval and coverage from DCR. Each annual report will be posted no more than 30 days after annual renewal date.

**Supporting Document:** None

**Measurable Goal:** The success of this BMP will be measured by the successful posting of the MS4 permit and annual reports within the 30 day period.

**Items to be Reported in the Annual Report:**

- Date of posting of Permit.
- Date of posting of Annual Reports.
- Any comments received by citizens regarding MS4 permit on the website.

**MCM 3: *ILLICIT DISCHARGE DETECTION AND ELIMINATION***

The goal of the illicit connection and discharge elimination plan is to inspect known stormwater outfalls to Tinker, Glade, and Wolf Creeks and the Roanoke River as identified through review of existing storm sewer maps; eliminating illicit discharges as they are identified through visual monitoring of known stormwater outfalls; and field observations to identify and verify additional stormwater outfalls that may not have been identified through review of existing storm sewer maps. The programs that have been put in place to complete this measure are:

- BMP 3-1: A Town-wide Storm Sewer System Map in the GIS Database.
- BMP 3-2: Illicit Discharge Ordinance to Detect, Identify, and Enforce Illicit Discharges.
- BMP 3-3: Illicit Discharge Program to Minimize Illicit Discharges as defined under VSMP General Permit 4VAC50-60-10, as amended.

**BMP 3-1. A Town-wide Storm Sewer System Map in the GIS Database.**

**Goal:** To establish a program to continue to develop a storm drain map which identifies all of the municipal separate storm sewers within the Town Limits which discharge to natural drainage ways.

**Responsible Party:** Department of Planning and Zoning in conjunction with Roanoke County Department of Community Development.

**Schedule and Evaluation:** During the first permit cycle the Town, with the assistance of Roanoke County Department of Community Development, completed a storm drain map that showed the location of all known storm drain structures and outfalls.

The Town proposes to continue this program by expanding and updating the storm sewer map of the Town. In addition to locating any storm sewer outfalls, the map will also update the existing map to show the current outfalls and their associated Hydrologic Unit Code (HUC) of the waters that are being discharged to, and the names and locations of all the impaired surface waters that receive discharges from these systems. The Town will also estimate the acreage within the regulated storm sewer system discharging to each outfall.

**Supporting Document:** None

**Measurable Goal:** The success of this BMP will be measured by meeting the goal for each reporting year. At the end of Year 1, 25% of the known storm sewer system will be expanded with the HUC, impaired water, and estimated acreage draining to the storm sewer outfall. At the end of Year 2, 50% will be updated, by Year 3, 75% will be updated and by Year 4, 100% of the outfalls will be updated.

**Items to be Reported in the Annual Report:**

- Number of new structures located.
- Percent of known storm sewer system outfalls updated with HUC, impaired water, and drainage acreage.
- Adjustment needed to be made to the program based on the analysis of the progress.

**BMP 3-2. Illicit Discharge Ordinance to Detect, Identify, and Enforce Illicit Discharges.**

**Goal:** To establish a program to detect and eliminate illicit discharges in the Town's storm sewer system by developing and adopting ordinances and regulations, and an enforcement program to minimize illicit discharges and prevent illegal discharges into the storm drain system.

**Responsible Party:** Department of Planning and Zoning in Conjunction with Roanoke County Department of Community Development.

**Schedule and Evaluation:** During the first permit cycle, the Town adopted the Storm Sewer System Illicit Discharge Ordinance to prevent and enforce illicit discharges into the storm sewer system.

In November 2007, the Town adopted the Stormwater Management Ordinance by referencing Chapter 23, Stormwater Management Ordinance, introduction and sections 23-1 et. Seq., of the Roanoke County Code. The ordinance includes language that regulates illicit discharges. The Stormwater Management Ordinance became effective on January 1, 2008.

The Town proposes to continue to work with Roanoke County staff to annually evaluate the stormwater management ordinance to keep it in compliance with any changes to regulations made at the state level.

**Supporting Document:** None - A copy of the Roanoke County Stormwater Management Ordinance has been submitted to Virginia Department of Conservation and Recreation (DCR).

**Measurable Goal:** The success of this BMP will be measured by the continued compliance of the Stormwater Management Ordinance with the rules and regulations of the Virginia DCR.

**Items to be Reported in the Annual Report:**

- Analysis of compliance of the Stormwater Management Ordinance.

- Any changes that are planned to the Ordinance to continue remain in compliance with Virginia regulations.

**BMP 3-3. Illicit Discharge Program to Minimize Illicit Discharges as defined under VSMP General Permit 4VAC50-60-10, as Amended.**

**Goal:** To develop, implement, and enforce a program to detect and eliminate illicit discharges in the Town’s storm sewer system. The Illicit Discharge Program will include the following components:

1. Procedures for locating priority areas likely to have illicit discharges.
2. Procedures for tracing source of an illicit discharge.
3. Procedures for removing the source of the discharge.
4. Procedures for program evaluation and assessment.
5. Procedures for reporting discharges into the Town’s storm sewer system.

**Responsible Party:** Vinton Department of Planning and Zoning and Department of Public Works in Conjunction with Roanoke County Department of Community Development.

**Schedule and Evaluation:** During the first permit cycle, the Town performed a pilot project for the detection of illicit discharge in western portion of the Town. This was performed by completing dry weather visual inspections of all storm drains 12-in and larger with suspicious dry weather flows. This project was a successful training technique, but no illicit connections were found.

The Town proposes to continue this effort by working with Roanoke County staff to develop procedures to detect, address, and report illicit discharges that enter the Town’s storm sewer system.

**Supporting Document:** None

**Measurable Goal:** The success of this BMP will be measured by the successful completion of the program components listed below:

Determination of Screening Factors	Year 1
Desktop Determination of Illicit Discharge Potential	Year 2
Begin Field Screening and Indicator Monitoring	Year 3
Continue Field Screening and Indicator Monitoring	Year 4

**Items to be Reported in the Annual Report:** The steps the Town has taken in the process of developing, implementing, enforcing a program to detect and minimize illicit discharges in the Annual Report.

#### **MCM 4: CONSTRUCTION SITE STORMWATER RUNOFF CONTROL**

**\* The implementation of this MCM and its associated BMPs will be the responsibility of Roanoke County Department of Community Development in conjunction with Vinton Department of Planning and Zoning.**

Since February 14, 1984, the County of Roanoke has been responsible for the Erosion and Sediment Control program for the entire County area, including the Town of Vinton. On April 3, 2007, the Vinton Town Council adopted Ordinance No. 847 to amend the Vinton Town Code by the adoption of Chapter 15.1 known as the "Erosion and Sediment Control and Steep Slope Development of the Town of Vinton", by referencing County of Roanoke Code, Chapter 8.1. Erosion and Sediment Control and Steep Development, as amended.

The Town and County recognize that construction sites can deposit significant amounts and silt and sediment in stormwater runoff due to large areas of land disturbances. The goal of this MCM is to implement and enforce a program that will reduce pollutant in stormwater runoff to the regulated municipal separate storm sewer system from construction sites and activities. The programs that have been established by the County and supported by the Town to meet this MCM measure are listed below:

- BMP 4-1: Erosion and Sediment Control (ESC) Ordinance to Require Erosion and Sediment Control Plan for any Land Disturbance Greater than 2,500 Square Feet or More.
- BMP 4-2: ESC Ordinance Includes Requirements of Construction Site Operators to Implement Appropriate ESC Best Management Practices (BMPs).
- BMP 4-3: Site Plan Review Procedures that Incorporate Consideration of Potential Water Quality Impacts, Consideration for Information Provided by the Public, and Site Inspection and Enforcement Procedures.

Town Staff continues to work cooperatively with Roanoke County in the implementation of this measure; including the review of the County's ESC ordinance, notification of any land disturbance without any permit, site and subdivision plans review process, and in the issuance of any land disturbance permit in the Town Limits.

Any proposed development, re-development, and/or addition meeting certain criteria will require site plans be submitted for review and approval as stated in the County's and Town's codes. The site plans must be submitted to the Planning and Zoning Department and be distributed to appropriate departments for comments and review.

The Planning and Zoning Director, who is also serves as the Town's Development Review Coordinator, is responsible in the review coordination including providing written comments pertaining site plans received from applicable departments and state agencies. The Town's engineering firm on retention is responsible for the review of the stormwater management requirements. **Section 23-5.3 Water Quality**, of the stormwater ordinance states the criterion that must be addressed for stormwater management at all land-disturbing activities.

The property owner/developer is also notified by the Development Review Coordinator in writing that the Department of Conservation and Recreation (DCR) requires that any land disturbance of one (1) acre or greater obtain a Virginia Stormwater Management Program (VSMP) permit through the DCR office. The VSMP permit must be applied for two (2) days prior to any land disturbance on the property. A copy of the application, the check, and the Stormwater Pollution Prevention Plan (SWPPP) must be submitted to the Town of Vinton Planning and Zoning Department.

**Supporting Documents:** None – Virginia Department of Conservation Recreation has been provided with the Town of Vinton Ordinance No. 847 and Roanoke County Erosion and Sediment Control and Steep Slope Development ordinance. Roanoke County’s Code **Section 8.1-2. Applicability of chapter in the Town of Vinton**, states that “The provision of this chapter shall be applicable within the corporate limits of the Town of Vinton. Administrative procedures and review fees may be established to accommodate the review of plans for development located within the Town.”

***MCM 5: POST-CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT***

The Town and Roanoke County recognize that addressing water quality in post construction runoff is an important way to prevent deposition of sediment and other pollutants into our streams and river. The programs that continue to be established to complete this measure are listed below:

- BMP 5-1: Adoption of a Stormwater Management Ordinance and Design Manual which Addresses Stormwater Runoff from New Development and Redevelopment.
- BMP 5-2: Stormwater Management Facility Inspection Program.
- BMP 5-3: Low Impact Development (LID) Principles, Techniques, and Strategies.

The Town will be working with Roanoke County and City of Roanoke in developing programs to address the post-construction runoff with structural and nonstructural BMPs on a regional level to address the stormwater quality and water bodies impairment on a regional level.

**BMP 5-1. Adoption of a Stormwater Management Ordinance and Design Manual which Addresses Stormwater Runoff from New Development and Redevelopment.**

**Goal:** To adopt and enforce a stormwater management ordinance and design manual that requires stormwater runoff to be addressed. The ordinance and design manual ensure that controls are in place that would prevent or minimize water quality and quantity impacts due to new developments and redevelopments.

**Responsible Party:** Department of Planning and Zoning in Conjunction with Roanoke County Department of Community Development.

**Schedule and Evaluation:** During the first permit cycle, the Town adopted the Stormwater Management Ordinance and Design Manual by referencing the Roanoke County Ordinance and Design Manual which were both adopted and became effective on January 1, 2008. Town Staff was involved throughout the development of the ordinance and design manual. The Town felt it is important to be consistent with Roanoke County since the County is responsible for the administration of the Town's Erosion and Sediment Control Plan.

The Stormwater Management Ordinance and Design Manual provide the regulations needed to require development projects to address stormwater quantity and quality. Both documents are in compliance with the Virginia Stormwater Management Act and attendant regulations and both encourage the use of low impact development (LID).

The Ordinance regulates new development and redevelopment projects of 5,000 square feet and larger. The Design Manual details structural and non-structural best management practices (BMPs) that are appropriate for this region. The Ordinance requires the designation of a responsible party who is legally bound to inspect and maintain the BMPs. Town Staff will continue to work with Roanoke County to evaluate the Ordinance and Design Manual annually to ensure continual compliance with Federal and State Regulations.

**Supporting Document:** None - A copy of the Roanoke County Stormwater Management Ordinance has been submitted to Virginia Department of Conservation and Recreation (DCR) and the Design Manual can be accessed on Roanoke County's website ([www.roanokecountyva.gov](http://www.roanokecountyva.gov)).

**Measurable Goal:** The success of this BMP will be measured by the continued compliance of the Stormwater Management Ordinance with the rules and regulations of the Virginia DCR.

**Items to be Reported in the Annual Report:** Analysis of compliance of the Roanoke County Stormwater Management Ordinance and Design Manual and any changes that are planned for the Ordinance to continue to remain in compliance with Federal and State Regulations.

#### **BMP 5-2. Stormwater Management Facility Inspection Program.**

**Goal:** To enforce procedures for the Stormwater Management Facility Inspection Program.

**Responsible Party:** Department of Planning and Zoning in Conjunction with Roanoke County Department of Community Development.

**Schedule and Evaluation:** During the first permit cycle the Town, with the assistance of Roanoke County Department of Community Development, conducted an inventory of structural runoff controls and developed procedures for the Stormwater Management Facility Inspection Program.

The Town proposes to continue this program by expanding and updating the inventory of the stormwater management facility.

**Supporting Documents:** Inspection Program Procedures, Stormwater Facility Maintenance Agreement, and Roanoke County Land Development Regulations.

**Measurable Goal:** The success of this BMP will be the completed inspection of the stormwater management facilities on schedule with the Inspection Program Procedures.

**Items to be Reported in the Annual Report:**

- Number of known stormwater management facilities in the inventory.
- Number of inspections performed.
- Evaluation of the program and any modifications to the program to improve effectiveness.

**BMP 5-3: *Low Impact Development (LID) Principles, Techniques, and Strategies.***

**Goal:** To identify and encourage development projects that utilize Low Impact Development (LID) principles, techniques, and strategies.

**Responsible Party:** Department of Planning and Zoning in Conjunction with Roanoke County Department of Community Development.

**Schedule and Evaluation:** The Town proposes to document and track the number of development projects and total acreage that have been developed using LID principles in each HUC.

**Supporting Documents:** None

**Measurable Goal:** The success of this BMP will be measured by the continual increase in the development projects that are developed using LID principles.

**Items to be Reported in the Annual Report:**

- Number and size of LID projects.
- The associated HUC for each development project.
- Any Town of Vinton and/or Roanoke County projects in the Town Limits that utilized LID principles.

**MCM 6: *POLLUTION PREVENTION/GOOD HOUSEKEEPING***

The main goal of the pollution prevention and good housekeeping program is to reduce pollutant runoff from the Town's operations. The Town needs to continue to evaluate its facilities and also provide education and training programs that will educate Town employees about pollution prevention and hazardous waste. The programs that continue to be established to meet this measure are listed below.

**BMP 6-1: Develop Spill Prevention and Control Plans for the Town Facilities.**

- BMP 6-2: Continue to Develop a Program for the Maintenance of Storm Sewer Systems.
- BMP 6-3: Continue to Maintain and Enhance Public Street Sweeping Program
- BMP 6-4: Continue to Develop and Provide Pollution Prevention and Hazardous Waste Training.

**BMP 6-1. Develop Spill Prevention and Control Plans for the Town Facilities.**

**Goal:** To develop and update Spill Prevention and Control Plans for all of the Town’s municipal facilities. Each facility will be evaluated for the potential of illicit discharges from storage yards, outdoor storage areas, waste transfer stations, fleet or maintenance shops and other municipal facilities. The disposal method for waste materials will be evaluated. Soluble or erodible materials will be analyzed and protected from exposure to precipitation. The application of fertilizers and pesticides will be examined to meet manufacturer’s recommendations. Any operation that has potential to discharge material into the separate storm sewer system will be examined for potential unwanted discharge. These plans will be updated and annual training will be completed.

**Responsible Party:** Department of Planning and Zoning in Conjunction with Department of Public Works.

**Schedule and Evaluation:** During the first permit cycle, the Town’s facilities were identified. The Town has completed spill prevention and pollution control plans.

The plans for an accidental spill at any of these sites would include a normal response by the Vinton Fire Department for containment, and then it will be turned over to a private hazardous material contractor either LCM or WEL for clean-up. Notification will be sent to VDEM, DEQ, and DCR.

The Town proposes to update these spill prevention plans and create and new plans for any new facilities. Training for associated facilities will be performed for the Town employees affected by the spill prevention plan.

- Year 1:** Evaluate existing Spill Prevention Plans and determine areas that need additional information.
- Year 2:** Complete Prevention Plans for any new Town facilities.
- Year 3:** Update Spill Prevention Plans for all Town facilities.
- Year 4:** Re-evaluate all Spill Prevention Plans for areas needing additional training or information.

**Supporting Documents:** None

**Measurable Goal:** The success of this BMP will be measured by the completion of the goal specified for each year and the achievement of Spill Prevention and Pollution Control Plans for all Town facilities.

**Items to be Reported in the Annual Report:**

- Summary of evaluation of Spill Prevention and Pollution Control Plans.
- List of new facilities in need of Spill Prevention Plans.
- List of Completed Spill Prevention Plans.
- Evaluation of Spill Prevention Plans.

**BMP 6-2. Continue to Develop a Program for the Maintenance of Storm Sewer Systems.**

**Goal:** To actively maintain the Town's storm sewer system. Keeping the storm sewer system properly maintained is very important for the Town because it keeps the regulated storm sewer working as designed, minimizing the potential for flows to surcharge or surpass the capacity of the regulated storm sewer system. The maintenance crews also have the potential of discovering illicit connections and additional areas where hazardous waste may be entering the system.

**Responsible Party:** Department of Planning and Zoning in Conjunction with Department of Public Works.

**Schedule and Evaluation:** During the first permit cycle, the Town successfully maintained a program for the maintenance of the storm sewer system. The Vinton Public Works Department significantly enhanced its stormwater system maintenance program to target correction of critical deficiencies within the existing system. Using the infrastructure inventory and condition assessment information collected during the first permit cycle, repairs were performed within their available funds budgeted for storm drain facilities. Labor hours and costs expended on stormwater maintenance and repair, and equipment costs were recorded by Public Works personnel and are available for review when needed.

The Town is committed to continuing this program. The number of large stormwater projects will be documented. In addition, documentation of the number of emergency projects and small scale projects by the maintenance crews will be completed each year.

**Supporting Documents:** None

**Measurable Goal:** The success of this BMP will be measured by the continuation of this program and the increase in total value of improvements that have been completed to maintain the storm sewer system.

**Items to be Reported in the Annual Report:**

- Log of storm sewer system inspected, repaired, and maintained.
- Number of large, small, and emergency projects completed.
- Total value of improvements completed.

### **BMP 6-3. Continue to Maintain and Enhance Public Street Sweeping Program**

**Goal:** To refine and enhance its street sweeping program to target weekly sweeping of all primary streets that will return the greatest benefit of collecting and thus preventing roadway contaminants, sediment and debris, from entering the stormwater collection system. Keeping the storm sewer system properly maintained is very important for the Town because it keeps the regulated storm sewer working as designed, minimizing the potential for flows to surcharge or surpass the capacity of the regulated storm sewer system.

**Responsible Party:** Department of Public Works.

**Schedule and Evaluation:** During the first permit cycle, the Town successfully maintained the Public Street Sweeping Program.

The Town proposes to continue with this program and evaluate the frequency of the sweeping program for different category of streets. This targeted strategy will result for highest risk streets being swept on a weekly basis and has optimized both the use and effectiveness of the Town single street sweeper but at the same time achieving the desired results.

**Supporting Documents:** None

**Measurable Goal:** The success of this BMP will be measured by the mileage of streets swept.

**Items to be Reported in the Annual Report:**

- Log of public streets swept
- Evaluation of the program and any modifications to the program to improve effectiveness.

### ***BMP. 6-4. Develop and Maintain Pollution Prevention and Hazardous Waste Training Programs for Town Employees***

**Goal:** To develop and maintain pollution prevention and hazardous waste training programs for Town employees, grounds maintenance workers, and landscaping crews.

**Responsible Party:** Department of Planning and Zoning and Human Resources Manager.

**Schedule and Evaluation:** During the first permit cycle, the Town successfully maintained a training program. Vinton Public Works employees completed a computer-based training session entitled "Municipal Stormwater Pollution Prevention, Best Management Practices". This training covers the following topics: good housekeeping and spill prevention; vehicle and equipment washing; vehicle and equipment maintenance; spill reporting and response; street maintenance; outdoor storage of materials and waste; and landscaping and lawn care.

The Town fire and rescue employees attended the basic hazardous waste training available through Roanoke County. The County's Environmental Assessment Team (EAT) is a team

responsible for establishing and maintaining the environmental management and ensures its conformance with state laws.

The Town considers this BMP to be successful and proposes to continue with this program. The Town will update the pollution prevention and hazardous waste training for Town employees. The total number of new employees to receive training will be documented in addition to the total number of employees trained to date.

**Supporting Documents:** None

**Measurable Goal:** The success of this BMP will be measured by the number of Town employees who receive this training.

**Items to be Reported in the Annual Report:**

- Number of new Town employees who received this training.
- Total number of Town employees who have received this training.