# Final Stormwater Management Plan Town of Gamewell NCS000603

April 22, 2021



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#### PART 1: INTRODUCTION

The purpose of this Stormwater Management Plan (SWMP) is to establish and define the means by which the Town of Gamewell will comply with its National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Permit and the applicable provisions of the Clean Water Act to meet the federal standard of reducing pollutants in stormwater runoff to the maximum extent practicable.

This SWMP identifies the specific elements and minimum measures that the Town of Gamewell will develop, implement, enforce, evaluate and report to the North Carolina Department of Environmental Quality (NCDEQ) Division of Energy, Minerals and Land Resources (DEMLR) in order to comply with the MS4 Permit number NCS000603, as issued by NCDEQ. This permit covers activities associated with the discharge of stormwater from the MS4 as owned and operated by the Town of Gamewell and located within the corporate limits of the Town of Gamewell.

In preparing this SWMP, the Town of Gamewell has evaluated its MS4 and the permit requirements to develop a comprehensive 5-year SWMP that will meet the community's needs, address local water quality issues and provide the minimum measures necessary to comply with the permit. The SWMP will be evaluated and updated annually to ensure that the elements and minimum measures it contains continue to adequately provide for permit compliance and the community's needs.

Once the SWMP is approved by NCDEQ, all provisions contained and referenced in this SWMP, along with any approved modifications of the SWMP, are incorporated by reference into the permit and become enforceable parts of the permit. Any major changes to the approved SWMP will require resubmittal, review and approval by NCDEQ, and may require a new public comment period depending on the nature of the changes.

### **PART 2: CERTIFICATION**

By my signature below I hereby 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 fines and imprisonment for knowing violations.

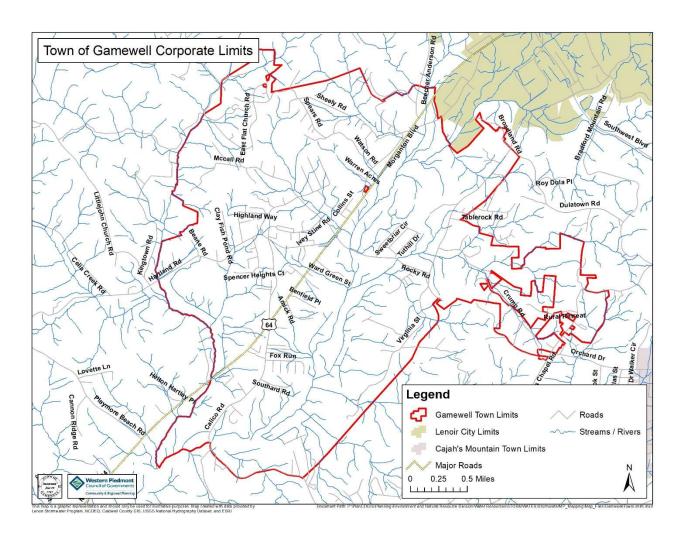
I am also aware that the contents of this document shall become an enforceable part of the NPDES MS4 Permit, and that both the Division and the Environmental Protection Agency have NPDES MS4 Permit compliance and enforcement authority.

☑ I am a principal executive officer or ranking elected official.				
	ly authorized representative and have attached the authorization made in writing by a principal e officer or ranking elected official which specifies me as:			
	A specific individual having overall responsibility for stormwater matters.			
	A specific position having overall responsibility for stormwater matters.			
Signature:				
Name:	Mary Carter			
Title:	Town Administrator			
Signed this	day of .			

### **PART 3: MS4 INFORMATION**

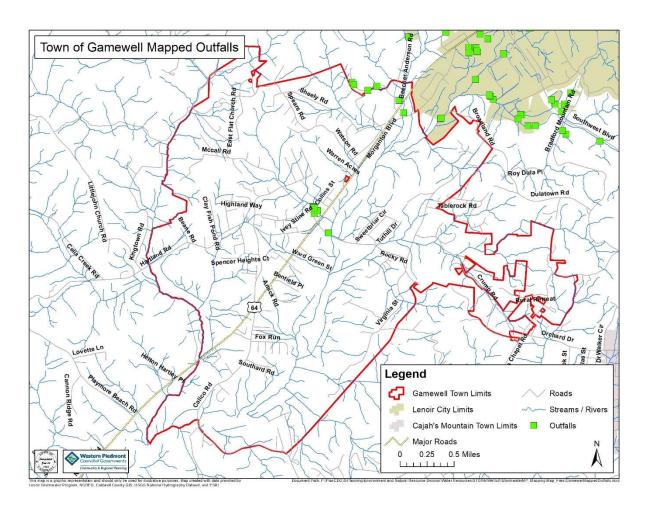
### 3.1 Permitted MS4 Area

This Stormwater Management Plan (SWMP) applies throughout the corporate limits of the Town of Gamewell, including all regulated activities associated with the discharge of stormwater from the MS4. The map below shows the corporate limits of Town of Gamewell as of the date of this document.



# 3.2 Existing MS4 Mapping

The current MS4 mapping includes outfalls located within the Town of Gamewell. In the future the Town will be adding the following elements to the map: pipe locations, flow direction, inverts, ditches, inlets, catch basins, manholes outfall, sizes and conditions (Reference BMP 19).



The Town of Gamewell has a historic count of 9 outfalls per the GIS layer created; however it is not certain that all of these are major per the definition provided below. The Town will be verifying all elements as mentioned above in the completion of BMP 19.

Table 1: Summary of MS4 Mapping

Percent of MS4 Area Mapped	10	%
No. of Major Outfalls* Mapped	9	total

\*An outfall is a point where the MS4 discharges from a pipe or other conveyance (e.g. a ditch) directly into surface waters. Major outfalls are required to be mapped to meet permit requirements. A major outfall is a 36-inch diameter pipe or discharge from a drainage area > 50-acres; and for industrial zoned areas a 12-inch diameter pipe or a drainage area > 2-acres.

## 3.3 Receiving Waters

The Town of Gamewell MS4 is located within the Catawba River Basin and discharges directly into receiving waters as listed in Table 2 below. Applicable water quality standards listed below are compiled from the following NCDEQ sources:

- o Waterbody Classification Map
- o Impaired Waters and TMDL Map
- o Most recent NCDEQ Final 303(d) List

Table 2: Summary of MS4 Receiving Waters

Receiving Water Name	Stream	Water	303(d) Listed Parameter(s)
-	Index / AU	Quality	of Interest
	Number	Classification	
Lower Creek	11-39 –	Critical WS-	Benthos
	(1.5) b and	IV	
	11-39 (6.5)		
	a		
Abingdon Creek	11-39-6	Critical	N/A
Husband Creek	11-39-7 (2)	WS-IV	N/A

#### 3.4 MS4 Interconnection

The Town of Gamewell MS4 is interconnected with another regulated MS4 and directly receives stormwater from the City of Lenoir MS4. The number of interconnections entering the Town of Gamewell MS4 from the City of Lenoir is unknown due to the storm sewer not being mapped. The Town of Gamewell will map the storm sewer and flow in the near future to help determine interconnectivity (Reference BMP 20).

Currently, a limited amount of data is available. Field staff will collect further data using a GIS mapping application to locate flow direction, inverts, ditches, inlets, catch basins, manholes outfall, sizes and conditions. Staff will develop a GIS mapping application off of field techniques, data recording, and pre-existing plans or blue prints from the Town of Gamewell.

The MS4 does interconnect with the statewide NCDOT MS4 and includes:

a. The interconnection is receiving stormwater from the NCDOT MS4. The number of interconnections is unknown.

- b. The interconnection is not discharging stormwater into the NCDOT MS4. The number of interconnections is unknown.
- c. The Town of Gamewell MS4 mapping does not identify interconnections with the NCDOT MS4.
- d. The Town of Gamewell MS4 mapping does include NCDOT MS4 outfalls.

# 3.5 Total Maximum Daily Loads (TMDLs)

The TMDL(s) listed in Table 3 below have been approved within the Town of Gamewell, as determined by the map and list provided on the NCDEQ Modeling & Assessment Unit web page. The table also indicates whether the approved TMDL has a specific stormwater Waste Load Allocation (WLA) for any watershed directly receiving discharges from the permitted MS4, and whether a Water Quality Recovery Program has been implemented to address the WLA. Outreach education and stream cleanup helps with the reduction of waste load allocation within approved TMDL municipalities.

Table 3: Summary of Approved TMDLs

Water Body Name	TMDL Pollutant(s)	Stormwater	Water Quality
		Waste	Recovery Program
		Load	(Y/N)
		Allocation	
		(Y/N)	
Lower Creek	Benthos	Y	Y

To address concerns with the increased benthos, the City of Lenoir, along with the Town of Gamewell, will re-instate the Lower Creek Advisory Group. The purpose of this group is to monitor and collect data for Lower Creek. Based on those findings stream clean-ups will be focused in those specific areas.

# 3.6 Endangered and Threatened Species and Critical Habitat

Significant populations of threatened or endangered species and/or critical habitat are identified within the regulated MS4 urbanized area. Based upon a review of the <a href="Endangered and Threatened Species and Species of Concern by County for North Carolina Map">Map</a> and <a href="Listed species believe to or known to occur in North Carolina map">Listed species believe to or known to occur in North Carolina map</a> as provided by the <a href="U.S. Fish and Wildlife Service">U.S. Fish and Wildlife Service</a>, the species listed in Table 4 have the potential to occur within the regulated MS4 urbanized area. Of those species listed, Table 4 summarizes the species that may be significantly impacted by the quality of surface waters within their habitat.

Table 4: Potential Federally Listed Species/Habitat Impacted by Surface Water Quality

Scientific Name	Common name	Species Group	Federal Listing Status
Glyptemys muhlenbergii	Bog Turtle	Vertebrate	T (S/A)
Glaucomys sabrinus coloratus	Carolina northern flying squirrel	Vertebrate	Е
Myotis septentrionalis	Northern long-eared bat	Vertebrate	T
Corynorhinus townsendii virginianus	Virginia big-eared bat	Vertebrate	Е
Alasmidonta varicosa	Brook floater	Invertebrate	ARS
Ophiogomphus edmundo	Edmons's Snaketail	Invertebrate	ARS
Macromia margarita	Margarita River skimmer	Invertebrate	ARS
Microhexura montivaga	Spruce-fir moss spider	Invertebrate	Е
Hexastylis naniflora	Dwarf-flowered heartleaf	Vascular Plant	Т
Liatris helleri	Heller's blazing star	Vascular Plant	T
Hedyotis purpurea var. montana	Roan Mountain Bluet	Vascular Plant	Е

## 3.7 Industrial Facility Discharges

The MS4name MS4 jurisdictional area includes the following industrial facilities which hold NPDES Industrial Stormwater Permits, as determined from the NCDEQ Maps & Permit Data web page.

Table 5: NPDES Stormwater Permitted Industrial Facilities

Permit Number	Facility Name
NCGNE0350	McCreary Modern

# 3.8 Non-Stormwater Discharges

The water quality impacts of non-stormwater discharges have been evaluated by the Town of Gamewell as summarized in Table 6 below. The unpermitted non-stormwater flows listed as incidental do not significantly impact water quality. The Town of Gamewell has evaluated residential and charity car washing and street washing for possible significant water quality impacts.

Street washing discharges are addressed under the Pavement Management Program in Part 10 of this SWMP. The Division has not required that other non-stormwater flows be specifically controlled by the Town of Gamewell.

Wash water associated with car washing that does not contain detergents or does not discharge directly into the MS4 is considered incidental. However, these types of non-stormwater discharges that do contain detergents have been evaluated by the Town of Gamewell to determine whether they may significantly impact water quality. The Town of Gamewell will address the possibility of the below mentioned water quality impacts through public education and good housekeeping, as outlined in Part 5, BMP 3-7, and Part 10 BMP 46-48, 50, 54, 55, 57, 58 and 62 with a focus on the training of good housekeeping practices.

Table 6: Non-Stormwater Discharges

Non-Stormwater Discharge	Water Quality Impacts
Water line and fire hydrant flushing	Incidental
Landscape irrigation	Incidental
Diverted stream flows	Incidental
Rising groundwater	Incidental
Uncontaminated groundwater infiltration	Incidental
Uncontaminated pumped groundwater	Incidental
Uncontaminated potable water sources	Incidental
Foundation drains	Incidental
Air conditioning condensate	Incidental
Irrigation waters	Incidental
Springs	Incidental
Water from crawl space pumps	Incidental
Footing drains	Incidental
Lawn watering	Incidental
Residential and charity car washing	Possible
Flows from riparian habitats and wetlands	Incidental
Dechlorinated swimming pool discharges	Incidental
Street wash water	Possible
Flows from firefighting activities	Incidental

# 3.9 Target Pollutants and Sources

In addition to those target pollutants identified above, the Town of Gamewell is aware of other significant water quality issues within the permitted MS4 area. The increase in benthos is most likely due to the Town of Gamewell being downstream from the City of Lenoir. The Lower Creek basin catches a majority of the stormwater runoff. Target pollutants as listed below are major contributors of the stream impairment. TMDL measures have been put in place to improve water quality.

Table 7 below summarizes the water quality pollutants identified throughout Part 3 of this SWMP, the likely activities/sources/targeted audiences attributed to each pollutant, and identifies the associated SWMP program(s) that address. In addition, the Town of Gamewell has evaluated schools, homeowners and businesses as target audiences that are likely to have significant stormwater impacts.

Within the table below the following target pollutants have been commonly found to be concerns within the community.

# Litter: Illegal dumping has occurred and been noted by code enforcement officers within the Town.

Cases of both illegal construction waste dumping and general residential or school dumping have been noted by code enforcement officers. This litter poses a threat to both our water bodies and the MS4 infrastructure, as the litter can create clogs and backups that damage the pipelines leading back to the stream. Some litter even poses a threat to groundwater if chemical leaching or breakdown of components into heavy metals occurs due to weathering of the litter. The dumping has been found typically road side but also in secluded urban areas.

#### Sediment: Previous installed erosion control measure have been removed or fallen

Sediment buildup is largely attributed to mismanaged construction sites with fallen or incorrectly installed sediment fences. It has been noticed in both reports from citizens and by code enforcement officers that there are several cases of construction sites not maintaining their erosion control fences during work. This has led to sediment buildup near storm drains, onto down slope private properties, and in some cases causing water to build up in nearby properties as the sediment is limiting the drains ability to remove runoff. In all cases code enforcement has responded and had the issue solved, but even being down for a short time can prove to have significant effects. Erosion control fences are required for sediment control permits during construction by the DEQ throughout the entire construction process.

### Gray Water: Straight piping washing machines out of the house

Residents have noted a few homes have had their washing machines straight-piped out of their homes by creating makeshift piping using water hoses exit at windows. Homes are to be connected to the appropriate sewer system. This proves to be a source of detergents/soaps entering our storm drains in residential neighborhoods. In addition: residential, charity, and municipal car washes allow for soaps or waxes to enter the storm drain when vehicles are not being cleaned in the correct areas (such as vegetated patches or in areas that do not have storm drains). This allows for toxic contaminants to enter our waterways via the storm drain system.

# Fats Oils and Grease: Health Department has noted several cases where restaurants do not empty or own/rent grease traps for appropriate removal.

The Health Department has reported several restaurants in Gamewell not maintaining, or even owning, grease traps. This has led to cases of the restaurants either illegally dumping the grease or allowing the grease to drip onto nearby impermeable surface – which would eventually lead to water quality issues. Overflow from a lack of maintenance or throwing out the grease with general waste contributes to this problem. This is a health violation since the grease poses a physical risk, but it also can impair water bodies with an influx of water insoluble grease going down the storm drain.

### Chemicals: Totes have been noted in industrial areas not properly labeled or stored

Town staff, along with some citizens have reported that containers of unknown/unmarked chemicals are unlabeled in select industrial sites, leading to potential soil and water contamination, and/or incorrect spill cleanup procedure. In addition to not labeling the containers correctly, the Town has noted that the containers are not being correctly stored in a way to minimize risk to the water bodies from seepage, damage to the containers, or spills.

### Animal Operations: A challenge to ensuring water quality for several factors.

Animal operations are agriculture operations that raise cows, pigs, chickens, or other livestock as a product, be it from meat or byproducts of the animal, the latter being more problematic as the excess nutrients will lead to eutrophication which can eventually causing hypoxia in the water body. In a similar vein, agricultural runoff often caries excess fertilizer which also will cause eutrophication in streams with its cascading effects. Within the Catawba River Basin roughly 46 streams are/were impacted by fecal coliform, with 10 being listed on the 303(d) list. As this is a non-point source pollutant it is hard to locate the exact source of this runoff, however in much of the watershed there is agricultural zoning that makes it likely for these types of impairments to occur. Roughly 20% of land use within the basin is agricultural.

# Underground storage tanks: Storage devices installed below ground that contain hazardous materials/waste.

These tanks can contain gasoline, fuels such as propane, industrial chemicals/oils, and most often human waste in areas not directly connected to the sanitary sewer. Any underground storage tank must be well maintained/monitored, and correctly installed due to the risk of them leaking. The leaks can cause whatever chemical the tank is storing to leak into the ground, harming the soil, groundwater/water table, and even surface waters as they are being fed from groundwater. If a fuel or industrial chemical tank is leaking, the chemical will leach into the soil – leading to toxic soil, contaminated groundwater, and possibly impairing a stream/water body. If a septic tank is leaking, it can overwhelm the natural processes of the soil (infiltration) leading to nutrient overload in streams fed by groundwater, or allowing pathogens to enter, increasing the risk of disease. The 10 303(d) fecal coliform impaired streams listed can have some attribution to septic tank leakage.

Illicit discharges: Originate from a variety of sources, with an equally varied number of effects dependent on the chemical that is released.

Typically, illicit discharges come from businesses, residents or municipal facilities who dump chemicals into storm drains either incidentally due to a lack of IDDE education or general carelessness. These chemicals can vary greatly, and can include grease, oils, chemicals, cleaning solutions, paints, metals, etc. This is a recognized problem as we have several 303(d) streams impaired from causes related to substances or attributions given to unclean discharges into the streams - in addition to reports generated by the municipality. Many of the 303(d) benthos impaired streams can be attributed to IDDE issues, but they are often from inexact/non-point sources that are attributed to illicit discharges

# Illegal dumping: When residents, businesses, or municipal employees dump waste randomly in non-permitted dumping areas.

This waste can widely vary, causing a variety of problems. For example, citizens dumping televisions on the side of the road to avoid dumping fees, which allows for the metals or chemicals inside the tv to leach out as stormwater passes it (mercury, lead, and other metals). It can be a case of businesses dumping waste in watershed areas where runoff passes through the waste, either carrying it, or residuals of the waste into water bodies. It can also be a case of graders dumping sediment into areas without the correct allowances/precautions. The debris and chemicals accumulate over time and lead to chemical impairments, pH issues, turbidity impairments, or debris entering the stream/MS4 system.

### Improper disposal of waste:

Improper disposal of waste is problematic because it allows chemicals, or difficult to manage waste, to enter the environment in ways that may be hard to track. For example; not giving a car battery to the correct waste management facility can allow for battery acid and lead to enter the soil which drains/collects in the groundwater. This problem has been noticed by municipal waste managers and is difficult to track as often the improper disposal waste is mixed in with the standard refuse. Other examples include grease going down sinks clogging MS4 systems, chemicals from batteries leaching into the groundwater, oil from oil changes not going to the correct facility, etc.

Table 7: Summary of Target Pollutants and Sources

Target Pollutant(s)	Likely Source(s)/Target Audience(s)	SWMP Program Addressing
		Target Pollutant(s)/Audience(s)
Litter	Residents, Businesses, Schools	Public Education & Outreach
		Public Participation
Sediment	Construction Activity	Public Education & Outreach,
		Construction Program
		Post-construction Program
Gray water	Residential	Illicit Discharge
		Public Education & Outreach
Fats, Oils and Grease	Businesses (Restaurants)	Illicit Discharge
		Public Education & Outreach
Chemicals	Industrial, Business and Residential	Illicit Discharge
		Public Education & Outreach
		Good Housekeeping
Animal Operations	Commercial/Bonifide Farms	Illicit Discharge
_		Public Education & Outreach

Underground Storage Tanks	Business and Residents	Illicit Discharge
		Public Education & Outreach
Illicit Discharges	General Public, Businesses,	Illicit Discharge
	Municipal Employees	Public Education & Outreach
		Good Housekeeping
Illegal Dumping and	General Public, Businesses,	Illicit Discharge
Improper Disposal of Waste	Municipal Employees	Public Education & Outreach
		Good Housekeeping

### PART 4: STORMWATER MANAGEMENT PROGRAM ADMINISTRATION

## 4.1 Organizational Structure

The Town of Gamewell has contracted Western Piedmont Council of Governments (WPCOG) to coordinate Stormwater Management Plan efforts, to ensure the Town is facilitating Best Management Practices to protect water quality. While WPCOG will be the primary operator of the program the Town of Gamewell staff (currently 1 employee – who handles all town responsibilities) will be training to handle internal procedures and report actions to WPCOG. The following organizational chart is broken down by the six elements associated with Stormwater Management. Each of the positions under the elements will report back to the primary manager and then on to the Stormwater Administrator.

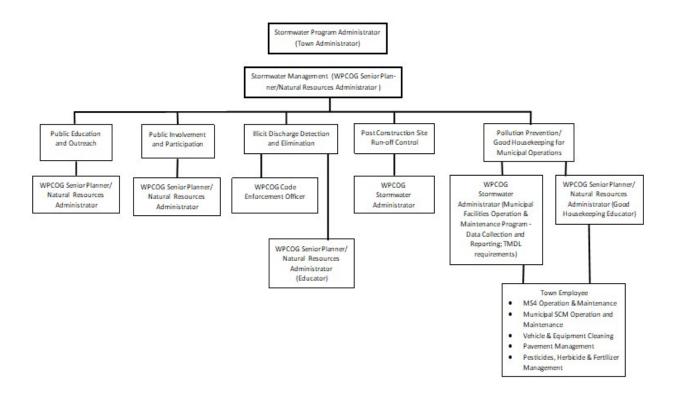


Table 8: Summary of Responsible Parties

SWMP Component	Responsible Position	Staff Name	Department
Stormwater Program Administration	Town Administrator	Mary Carter	Town of Gamewell
SWMP Management	WPCOG Senior Planner/Natural	Johnny Wear	WPCOG

	D		
	Resources		
	Administrator		
Public Education &	WPCOG Senior	Johnny Wear	WPCOG
Outreach	Planner/Natural		
Guireach	Resources		
	Administrator		
Public Involvement &	WPCOG Senior	Johnny Wear	WPCOG
	Planner/Natural		
Participation	Resources		
	Administrator		
	WPCOG Code	Todd Justice	WPCOG
Illicit Discharge	Enforcement Officer	1 odd 3 distrec	WICOG
Detection &	Linoreement officer		
Elimination			
	N/A	N/A	NCDEQ – Asheville
Construction Site	N/A	IN/A	
Runoff Control			Regional Office
	WDCOC Ct	I 1 C1:	WINCOC
Post-Construction	WPCOG Stormwater	Jack Cline	WPCOG
Stormwater	Administrator		
Management			
- Triumagement			
Pollution	WPCOG Senior	Johnny Wear	WPCOG
Prevention/Good	Planner/Natural		
Housekeeping for	Resources		
Municipal Operations	Administrator		
Wullicipal Operations			
Municipal Engilities	WPCOG Stormwater	Jack Cline	WPCOG
Municipal Facilities	Administrator		
Operation &			
Maintenance Program			
G :11 D D	Stormwater	Jack Cline; TBD	WPCOG,
Spill Response Program	Administrator and		Volunteer/Town Fire
	Volunteer Emergency		Departments, if
	Services		applicable
	Town of Gamewell	TBD	Town of Gamewell
MS4 Operation &	Town or Gamewen Town Employee	TBB	Town of Gamewen
Maintenance Program	Town Employee		
	Town of Gamewell	TBD; Jack Cline	Town of Gamewell and
Municipal SCM	Town of Gamewell Town Employee and	1 DD, Jack Cillic	WPCOG
Operation &	1 2		WPCOG
Maintenance Program	Stormwater		
	Administrator	TDD I 1 CT	T. CC 11 1
Pesticide, Herbicide &	Town of Gamewell	TBD; Jack Cline	Town of Gamewell and
Fertilizer Management	Town Employee and		WPCOG
Program	WPCOG Stormwater		
	Administrator		

Vehicle & Equipment Cleaning Program	Town of Gamewell Town Employee	TBD	Town of Gamewell
Pavement Management Program	Town of Gamewell Town Employee	TBD	Town of Gamewell

## 4.2 Program Funding and Budget

In accordance with the issued permit, the Town of Gamewell shall maintain adequate funding and staffing to implement and manage the provisions of the SWMP and comply with the requirements of the NPDES MS4 Permit. The budget includes the permit administering and compliance fee, which is billed by the Division annually. Due to the increase NPDES permit mandates, the first year of the permit cycle will be used to determine a base line for the stormwater program funding needs. The funding mechanism will be analyzed through the completion of a fiscal gap analysis to determine how the stormwater program will be implemented and funding obtained

The Town of Gamewell, has a two-year contract (which will need to be modified, adopted, and signed every two years) with Western Piedmont Council of Governments for the following services: Public Education and Outreach Program, Public Involvement and Participation Program, Illicit Discharge Detection and Elimination Program, Post-Construction Site Runoff Control Program, and Pollution Prevention and Good Housekeeping Programs. The current contract amount for the 2-year period (years 1 and 2 of the NPDES permit cycle) is \$22,212.00. The Town will be responsible for the cost of the annual NPDES permit renewal, which is to be paid to the state. Any fees charged to the development community for BMP Inspections, Plan Review, and other associated fees will help offset cost. The Town may determine that stormwater utility fees should be implemented; these fees would be collected by the Town through tax or utility bills. The goal would be for the funds collected to support the stormwater program through mapping outfalls, stream repairs, and other water quality efforts. Revenue versus funding will be reviewed each year to determine needed changes.

Should the Town of Gamewell choose not to renew the existing two-year contract, prior to the last month, a revision to the existing NPDES permit and Stormwater Management Plan would need to occur. The Town of Gamewell would be required to renew the two-year contract, in years 2021 and 2023, to fully carry out the 5 year NPDES permit cycle. The Town of Gamewell would be required to fully carry out the 5 year NPDES permit cycle.

# 4.3 Shared Responsibility

Beginning July 2019, the Town of Gamewell will share the responsibility, with WPCOG (referred to as entity), to implement the following minimum control measures, which are as stringent as the corresponding NPDES MS4 Permit requirement. The Town of Gamewell remains responsible for compliance if the other entity fails to perform the permit obligation and may be subject to enforcement action, if neither the Town of Gamewell, nor the other entity fully performs the permit obligation. Table 9 below summarizes individual responsibilities for each program.

Table 9: Shared Responsibilities

SWMP BMP or Permit Reference	Implementing Entity & Program Name	Legal Agreement (Y/N)
General Requirements	WPCOG	Y
Public Education and	WPCOG	Y
Outreach Program		
Public Involvement and	WPCOG	Y
Participation Program		
Illicit Discharge Detection	WPCOG	Y
and Elimination Program		
Construction Site Runoff	NCDEQ	N/A
Control Program		
Post-Construction Site	WPCOG	Y
Runoff Control Program		
Pollution Prevention and	WPCOG	Y
Good Housekeeping		
Programs		
Total Maximum Daily Load	WPCOG	Y
(TMDL)		

### 4.4 Co-Permittees

There are no other entities applying for co-permittee status under the NPDES MS4 permit number NCS000603 for the Town of Gamewell.

## 4.5 Measurable Goals for Program Administration

Referencing, MS4 Inspection Report for the Town of Gamewell - Program Implementation, Documentation & Assessment, Permit Citation - II.A.2. Stormwater Plan Implementation & Evaluation, II.A.3. Keeping the Stormwater Plan Up to Date, II.A.4. Availability of the Stormwater Plan, II.A.5. Stormwater Plan Modifications and II.A.7 Written Procedures; the Town has not evaluated the performance and effectiveness of the program and had not develop any procedures for doing so. In order to meet the State requirements for this section, a self-assessment and the effectiveness of the program components will be completed annually. Written procedures, otherwise known as, Stormwater Management Plan: SWMP, has been drafted, but not adopted at this time. The SWMP will be adopted during Permit Year One of the NPDES permit cycle following the acceptance of the SWMP and issuance of the NPDES permit.

MS4 Inspection Report for the Town of Gamewell - Program Implementation, Documentation & Assessment, Permit Citation - III.A. Program Documentation; The City of Lenoir on the Town's behalf maintained some documentation regarding illicit discharge complaints and enforcement actions; however, there was an overall lack of documentation relating to the Town's stormwater program (e.g., no documentation for inspections, maintenance activities, or educational programs).

MS4 Inspection Report for the Town of Gamewell - Program Implementation, Documentation & Assessment, Permit Citation - III.B. Annual Report Submittal: The latest MS4 annual report submitted was for the 2014-2015 reporting year. The report included a brief description of the six minimum control measures and initiative at the time. However, the report lacked detail regarding specific milestones for the measures, overall plan accountability, or what was accomplished during the reporting period. Instead, the report described plans for future MS4 program implementation, which largely had not yet been implemented. Further, the 2014-2015 report did not include a fiscal analysis (Permit Citation - IV.B).

The Town of Gamewell will manage and report the following Best Management Practices (BMPs) for the administration of the Stormwater Management Program

Table 11	1: Program Administration BMPs			
Permit Ref.	2.1.2 and Part 4: Annual Self-Ass Measures to evaluate the performan Results shall be used by the permitt of the Stormwater Program. The se	ce and effectiveness of the ee to modify the program	components as necessary	to accomplish the intent
ВМР	A	В	C	D
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
1.	Annual Self-Assessment		· <u>-</u>	

Table 1	1: Program Administration BMPs	S		
	Perform an annual evaluation of SWMP implementation, suitability of SWMP commitments and any proposed changes to the SWMP utilizing the NCDEQ Annual Self-Assessment Template.	1. Prepare, certify and submit the Annual Self-Assessment to NCDEQ prior to August 31 each year.	1. Annually Permit Years 1-5	1. Yes/No
Permit Ref.	<b>1.6: Permit Renewal Application</b> Measures to submit a permit renew NPDES MS4 permit.		180 days prior to the ex	xpiration date of the
BMP	A	В	C	D
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
2.	Permit Renewal Application			
	Audit stormwater program implementation for compliance with the permit and approved SWMP, and utilize the results to prepare and submit a permit renewal application package.	1. Participate in an NPDES MS4 Permit Compliance Audit, as scheduled and performed by EPA or NCDEQ.  2. Self-audit and document any stormwater program components not audited by EPA or NCDEQ utilizing the DEQ Audit Template. Submit Self-Audit to DEMLR (required component of permit renewal application package)	1. TBD – Typically Permit Year 4  2. Permit Year 5	1. Yes/No  2. Yes/No/Partial
		3. Certify and submit the stormwater permit renewal application (NOIPermit renewal application form, Self-Audit, and Draft SWMP for the next 5-year permit cycle) and submit to NC.DEQ at least 180 days prior to permit expiration.	3. Permit Year 5	3. Permit renewal application package received by DEQ at least 180 days prior to permit expiration.  Date of permit renewal application submittal

### PART 5: PUBLIC EDUCATION AND OUTREACH PROGRAM

The Town of Gamewell will implement a Public Education and Outreach Program to distribute educational materials to the community or conduct equivalent outreach activities about the impacts of storm water discharges on water bodies and steps the public can take to reduce pollutants in storm water runoff.

The Town of Gamewell will implement a Public Education and Outreach Program to distribute educational materials to the community or conduct equivalent outreach activities about the impacts of storm water discharges on water bodies and steps the public can take to reduce pollutants in storm water runoff.

In reference to MS4 Permit Self Audit Report - Public Education and Outreach, Permit Citation II.B.2.a Program Requirements, II.B.2.c. Target Audiences, and II.B.2.h. Public Education and Outreach Program: The Town of Gamewell had not defined goals & objectives for community wide issues. Stormwater impact target audiences and extend of exposure had not been recorded at public education and outreach events.

The target audiences and identified pollutants listed in Part 3.9 of this SWMP, which will be addressed by the Public Education and Outreach Program, are summarized in Table 12 below. In addition, the Town of Gamewell is required to inform businesses and the general public of the hazards associated with illicit discharges, illegal dumping and improper disposal of waste.

In reference to Permit Citation II.B.2.e. Informational website and II.B.2.g. Hotline/Help Line – The Town of Gamewell will establish means to address these citation in BMPs 10 and 12.

Table 12: Summary of Target Pollutants & Audiences

Target Pollutants/Sources	Target Audience(s)
Litter	General Public
Sediment	Construction Activity
Gray water	Residential
Fats, Oils and Grease	Businesses (Restaurants)
Animal operations	Commercial and/or Bonifide Farms
Underground Storage Tanks	Businesses and Residents
Chemicals	Industrial, Business and Residential
Illicit Discharges	General Public, Businesses, Municipal Employees
Illegal Dumping	General Public, Businesses, Municipal Employees
Improper Disposal of Waste	General Public, Businesses, Municipal Employees

The Town of Gamewell will manage, implement and report the following public education and outreach BMPs.

Table 13	3: Public Education and Outreach	BMPs		
Permit Ref.	3.2: Outreach to Targeted Audie Measures to identify the specific elesshare educational materials to the constormwater discharges on water book permittee shall document the extent implemented locally or through a constant.	ements and implementation ommunity or conduct equilies and how the public cate of exposure of each median	ivalent outreach activities in reduce pollutants in sto	s about the impacts of ormwater runoff. The
BMP	A	В	C	D
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
3.	Stormwater Fliers			
	Stormwater fliers will be distributed to Town residences, municipal employees, businesses, and industrial facilities through	1. Develop and distribute fliers at Town event to create stormwater awareness.	1. Permit Year 1	15. Number of flyers distributed at events.
	stormwater events. Five topics will be addressed over the term of the permit; general stormwater	2. Develop and distribute a fliers for illicit discharges.	2. Permit Year 2	
	awareness, illicit discharges, illegal dumping, chemicals and proper disposal of waste.	3. Develop and distribute a fliers for illegal dumping.	3. Permit Year 3	
		4. Develop and distribute fliers for chemical awareness.	4. Permit Year 4	
		5. Develop and distribute fliers at Town event to create stormwater awareness.	1. Permit Year 1	
4.	Public Event Outreach	1	1	

Table	13: Public Education and Outreach	BMPs		
	Provide stormwater educational information to the general public at community events.  COVID-19 has limited outreach opportunities at public events due to their cancelation in 2020/2021. As such, alternative ways for this type of outreach will be necessary. Alternatives, including but not limited to, booths at farmers markets or a booth inside	1. Staff will have a booth at community events to disperse stormwater outreach materials using interactive educational games and activities. At minimum, one event will be attended per permit year.	1. Annually Permit Years 1-5	1. Number of events held/attended;  Number of attendees educated at the booth;  Number of materials handed out.
	the library (if open) can provide these opportunities while still being safe for participants.	2. Staff will provide alternative outreach opportunities if all events are canceled, or as an additional outreach supplement. Such opportunities include but are not limited to: an outreach booth at local Libraries, and/or an outreach booth at farmers markets, fundraisers, or other events if they are still available at different times throughout the year.	2. Annually Permit Years 1-5	2. Number of attendees at alternative outreach booth  Event/location of alternative outreach booth
5.	Youth Community Outreach	jear.		
	Provide educational information, activities, and educational materials to students and youth community groups through classrooms, workshops, community presentations, and/or hands-on activities related to stormwater best practices. The targeted community groups can	1. WPCOG will provide instruction and stormwater educational activities to youth community groups, classrooms, workshops, community presentations,	1. Annually Permit Years 1-5	1. Number of activities/events provided;  Number of participants present at these events/activities.

Table 1	13: Public Education and Outreach	BMPs		
	include: boy scouts, girl scouts, 4-H clubs, school environmental programs, community environmental groups. Many of the individuals in these groups will hit the same target audiences as student outreach but can be more easily met with due to the	2. Utilize the WPCOG storm stencils during outreach events to educate community members on the impact of dumping into storm drains as well as add caution	2. Annually Permit Years 1-5	2. Number of storm drains stenciled
	nature of their organizations  COVID-19 has limited outreach opportunities at schools, teacher workshops, and other outreach opportunities due to school closures in 2020/2021. To supplement this, a PowerPoint presentation that can be shown digitally by staff and/or provided to teachers for classes will be created	signs to them  3. Staff will create a presentation covering stormwater topics to be presented in digital classrooms and/or provided to teachers. The PowerPoint will be presented by teachers and/or staff to students in a safe method such as an online classroom.	3. Annually Permit Years 1-5	3. Number of presentations provided by teachers or staff  Number of students present during the presentation
6.	Printed Materials  Staff will design and distribute new printed materials for target audiences to aid stormwater education.	1. Staff will create printed material for local government distribution addressing stormwater best practices.	1. Permit Year 1	1. Were new outreach materials created? Yes, No; Status.
		2. Staff will distribute printed materials at events, school presentations, and have them on display for public acquisition in Government buildings. The flyers will also be hosted on the WPCOG website to enable digital access to this resource.	2. See BMP 3	2. See BMP 3
7.	Annual Water Quality Conference	ee		

Table	13: Public Education and Outreach	-		
	Sponsor the Western Piedmont Council of Governments and Lenoir Rhyne University's Annual Water Quality Conference to provide outreach and public participation. Staff will conduct the annual regional conference for continued education targeting local government officials, municipal staff, local businesses, educators, and the general public	1. Provide one presentation about one of the six NPDES Minimum Control Measures at each annual conference. A different MCM will be presented on each year.	1. Annually Permit Years 1-5	1. Number of attendee at conference.
8.	<b>Evaluate Pollutants Sources and </b>	Audiences		
	Evaluate the target pollutants (litter, sediment, gray water, fats, oils, grease, animal operations, underground storage tanks, super fund sites, chemicals, illicit discharges, illegal dumping, improper disposal of waste), sources, and associated target audiences (residents, businesses, schools, construction activity, commercial, farms, industrial, development community, general public, and municipal employees) likely to have significant stormwater impacts and why they were selected. This evaluation is looking at target audiences that are creating pollution to allow the Town to correctly focus education efforts in those area.	1. Evaluate following target pollutants: litter, sediment, gray water, fats, oils, grease, animal operations, underground storage tanks, super fund sites, chemicals, illicit discharges, illegal dumping and improper disposal of waste.  2. Evaluate the following target audiences: residents, businesses, schools, construction activity, commercial, farms, industrial, development community, general public and municipal employees.	1. Annually Permit Years 1-5  2. Annually Permit Years 1-5	1 2. Number of target pollutant violations.  Were SWMP revisions needed to address target pollutants or audiences?
9.	Evaluate Public Education and O  Evaluate the successful components of outreach through interest and feedback.	1. See BMP 18	1. See BMP 18	1. See BMP 18

Permit Ref.	2.1.7 and 3.2.3: Web Site  Measures to provide a web site desi including ordinances, or other regul mechanisms, providing the legal au	latory mechanisms, or a lis	st identifying the ordinar	nces or other regulatory
BMP	A	В	C	D
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
10.	Website		•	
	Develop a new municipal website through the WPCOG, including a stormwater information web page. The Town webpage will convey the importance of water quality and a link to the WPCOG Stormwater webpage will be	1. Develop a new municipal website through the WPCOG which will include a webpage covering the stormwater program information.	1. Permit Year 1	1. Was the site developed? Yes, No; Status;  Date the website was developed.
	placed on the Town's website. The WPCOG Stormwater webpage will provide educational resource links, compliant procedures, stormwater regulations, stormwater permit information and good housekeeping information.	2. Maintain and update stormwater program information on the existing municipal website once established.  The municipal stormwater webpage will also have the current SWMP, stormwater ordinance, and annual assessment posted.	2. Annually Permit Years 2-5	2. Number of times website material is updated per year; what changes were made. Did the website need revisions? Yes, No; Status.
		3. WPCOG staff will maintain and update the WPCOG stormwater web page by: posting the MS4 Annual Self-Assessment, verifying all links and contact information are current/active, posting the current year fliers.	3. Annually Permit Years 1-5	3. Was annual self-assessment uploaded to website? Yes, No; Status;  Did links and/or contact information need to be updated? Yes, No; Status;  Were new/current fliers added to site? Yes, No; Status.

	3: Public Education and Outreach				
		4. Set a hit counter in order to monitor engagement.	4. Annually Permit Years 1-5	4. Report the number of hits.	
11.	Education Regarding Illicit Disch	arges			
	Provide educational information to municipal employees, businesses, citizens and schools about the hazards associated with illicit discharges, illegal	1. Train municipal employees in illicit discharge detection and elimination.	1. See BMP 50	1. See BMP 50	
	dumping, and improper disposal of waste.	2. Distribute material (generated from BMP 3) to target audiences (municipal employees, schools, businesses, and citizens).	2. See BMP 3	2. See BMP 3	
		3. Provide education during the enforcement process.	3. Continuously, Permit Years 1-5	3. Number of citizen interactions during enforcement.	
Permit Ref.					
IXEI.	Measures for a stormwater hotline/l	helpline for the purpose of	public education and our	treach.	
	Measures for a stormwater hotline/l	helpline for the purpose of  B	public education and ou	D D	
ВМР			C Schedule for		
BMP No.	A	В	С	D Annual Reporting	
BMP No.	A Description of BMP	В	C Schedule for	D Annual Reporting	

Table 1	3: Public Education and Outreach	BMPs		
		3. Record number and type of complaints, concerns and information related to each call.	3. Continuously.  Permit Years 1-5	3. Number of hotline phone calls received by type/purpose of call.
		Purpose of the call, 'type'/measure the call was about, date it occurred, and municipality of the caller will be recorded.		
		4. Train stormwater hotline staff in general stormwater awareness, complaint call protocols and appropriate contacts for referral and typical stormwater issues.	4. Annually, Permit Years 1-5	4. Did hotline staff receive training? Yes, No; Status.
		5. Publicize contact information on the Town and WPCOG Stormwater webpages as well as the town of Gamewell stormwater facebook page.	5. Continuously Permit Years 1-5	5. Number of hotline calls received overall.
Table 1	3: Public Education and Outreach	BMPs		
Permit Ref.	3.2.2 and 3.2.4: Outreach to Targ Measures to identify the specific elessare educational materials to the constormwater discharges on water body permittee shall provide educational table 12 above, and shall document elements implemented locally or the	ements and implementation ommunity or conduct equalies and how the public calcinformation to identified the extent of exposure of	ivalent outreach activities in reduce pollutants in sto- target audiences on pollut each media, event or activ	about the impacts of rmwater runoff. The ants/sources identified in
ВМР	A	В	С	D
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
13.	Litter Management			

Table 13: Public Education and Outreach BMPs					
Create an educational outreach flyer that focuses on the impacts of litter on water quality, runoff quality, and how it impacts the environment as a whole. These materials will be distributed at	1. Litter focused outreach materials will be created and distributed to government buildings and at outreach events	1. See BMP 3	1. See BMP 3		
Town Hall and handed out at public outreach events.  Educate participants during stream cleanups on the impacts of litter to stormwater runoff and overall water quality.	2. Stream cleanup activities will be utilized to educate participants on the impacts of litter on water bodies	2. See BMP 20	2. See BMP 20		

### PART 6: PUBLIC INVOLVEMENT AND PARTICIPATION PROGRAM

In reference to MS4 Permit Self Audit Report – Public Involvement and Participation, Permit Citation II.C.2.a. Volunteer Community Involvement Program: The Town plans to grow that effort in the future. With the establishment of the Lower Creek Water Advisory Committee there will be an active role in stream clean opportunities. The Town of Gamewell will establish a hotline, webpage reporting form and survey/s, along with the use of the existing WPCOG Water Resource Committee to gather public input. Stream clean-ups will be completed on an annual basis. All events, programs, and public forums will be announced through social media.

This SWMP identifies the minimum elements and implementation of a Public Involvement and Participation Program that complies with applicable State, Tribal and local public notice requirements. The Town of Gamewell will manage, implement and report the following public involvement and participation BMPs.

Table 14: Public Involvement and Participation BMPs					
Permit Ref.	3.3.1: Public Input Mechanisms for public involvement that provide for input on stormwater issues and the stormwater program.				
BMP	A	В	C	D	
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	
14.	Hotline for Public Input				
	Provide a mechanism for public input on stormwater issues and the stormwater program through utilizing the stormwater hotline (BMP 12).	1. Stormwater hotline (BMP 12) shall include a public input component and/or record public input comments/concerns.	1. See BMP 12	1. See BMP 12	
15.	Web based form reporting				
	Provide an online form for public input and stormwater reporting via the WPCOG website This will create an additional way for citizens to report issues and	1. Establish a web based complaint/ reporting/input form to be housed on the WPCOG website.	1. Permit Year 1	Was the online form established? Yes, No; Status;  Date of establishment.	

Table	14: Public Involvement and Particip			
	concerns, as well as have input on the stormwater program.	2. Use the form to record and track responses, inputs, issues, and concerns for metric reporting.	2. Continuously, Permit Years 2-5	2. Number of questions, reports, and comments submitted via the form.
		Purpose of each question, report, or comment will be documented to allow for evaluation.		
		3. Maintain the web based complaint/reporting/in put form on the WPCOG website.	3. Continuously, Permit Years 1-5	3. Were revisions to the web form needed? Yes, No; Status.
16.	Social Media Outreach – Event P	romotion	1	
	Develop a Town of Gamewell Stormwater Facebook page to promote stormwater events, projects, outreach/general stormwater awareness, and stormwater programs. This will be used as an outreach tool to provide exposure to a larger audience and encourage engagement from the general public	1. Develop a Town of Gamewell Stormwater Facebook page to promote public involvement and participation related to stormwater programs, events, and projects.  2. Utilize the social media presences to promote stormwater events, projects, and programs to engage	Permit Year 1      Continuous  Permit Years 1-5	1. Facebook page created – Yes or No, status;  Date Facebook page was created.  2. Total Number of posts on the Town of Gamewell Stormwater Facebook page.
17.	Water Resources Committee	public involvement.		
1/.	Provide a mechanism for public input and participation via regional meetings on stormwater issues and the stormwater program. Typically, this committee is hosted by the WPCOG once a quarter. This committee also encourages municipal interconnectivity regarding water quality within the region.	1. Participate in quarterly Water Resource Committee meetings, which are open to the public, for discussion of water quality issues within the region.  Topics discussed will be recorded for annual reporting.	1. Quarterly meetings Permit Years 1-5	1. Number of attendees at each meeting.

Table 1	4: Public Involvement and Particip	oation BMPs			
18.	Public Survey and Evaluation				
	Provide a mechanism for public input by creating a survey to engage the public and gauge public interest in stormwater issues and the stormwater program. The survey will be taking in responses/input on the program as a whole – covering each minimum measure and BMP that refers to this Survey.	1. Create and administer an annual survey to be housed on the WPCOG stormwater website once a year, open to feedback for a total of 4 weeks. The survey will also be linked on the Town of Gamewell's website.  Responses/results of the survey will be	1. Annually Permit Years 1-5	1. Number of surveys completed.	
		analyzed for reporting and evaluation.			
Permit Ref.	3.3.2: Volunteer Opportunities Measures to provide volunteer oppo		note ongoing citizen partic	cipation.	
ВМР	A	В	C	D	
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	
19.	Stream Cleanup				

Table 14: Public Involvement and Partic	ipation BMPs		
Provide volunteer opportunities for ongoing citizen participation through stream cleanup activities.  If a safely accessible stream with an excess of built up litter/debris cannot be located, or built up litte will not take enough time to clean, stream side educational activities will be provided as an educational supplement. These educational activities will focus on educating participants on wate quality and have the opportunity for hands on activities involving water bodies.	promoted by the Town and WPCOG, with a focus on civic groups.  For the Town of	1. Annually Permit Years 1-5	1. Number of stream cleanup events held;  Number of stream cleanup participants;  Number of trash bags filled.
	2. Provide all materials for stream cleanup activities (i.e. gloves, trash bags, and trash pickers) hosted by Town and WPCOG.	2. Annually Permit Years 1-5	2. Number of stream clean up materials distributed.
	3. The Town and WPCOG will publicize the event (hosted by WPCOG) to the public to gather volunteers for stream cleanup efforts to assist in public awareness and involvement. The event will be posted on the WPCOG website, The Towns stormwater Facebook page, and flyers will be distributed at Town Hall.	3. Annually Permit Years 1-5	3. Was the event publicized? Yes, No; Status;  Number of participants per event.

Table 14: Public Involvement and Participation BMPs				
	4. If streams do not have adequate litter	4. Annually	4. Number of supplemental activities	
	available for cleanup, supplement or replace	Permit Years 1-5	held;	
	stream clean-up time with outdoor educational activities		Number of participants in supplemental activities;	

### PART 7: ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM

MS4 Inspection Report for the Town of Gamewell – Illicit Discharge Detection and Elimination (IDDE), Permit Citation II.D.2.a. IDDE Program: The Town had not developed written procedures for implementing an IDDE Program. In response the Town will locate priority areas likely to have illicit discharges, conduct routine dry weather outfall inspections, identify illicit discharges and trace sources, eliminate the source(s) of an illicit discharge, and evaluate and assess the IDDE Program.

The Town will also, in response to, MS4 Inspection Report for the Town of Gamewell – Illicit Discharge Detection and Elimination (IDDE), Permit Citation II.D.2.b. Legal Authority, the Town will maintain and enforce the adopted stormwater ordinance and other regulatory mechanisms that provide the legal authority to prohibit illicit connections and discharges to the MS4.

The City of Lenoir, on behalf of the Town of Gamewell provided a map of the Town of Gamewell's outfalls and MSC locations during the MS4 Inspection; however the map was developed in 2013, the accuracy of the map is in question and the Town did not use the map to facilitate any MS4 activities (II.D.2.c. Storm Sewer System Map). In the future the Town will be mapping the complete MS4 within Permit Years 3 through 5 (Permit Ref: 3.4.1 BMP 20)

In the last permit cycle, the Town did not conduct dry weather screening or maintain written procedures for dry weather field activity (II.D.2.d. Dry Weather Flow Program). Within the Stormwater Management Plan a schedule is to be created to conduct dry weather screening quarterly. Data such as date screening occurred, location of inspected outfall, and photos of outfall will be recorded in GIS.

The City of Lenoir, on behalf of the Town of Gamewell, in the past has taken a reactive approach to Illicit Discharge investigations with no written procedures (II.D.2.e.). A list of violators were provided to DEQ dating back to 2011; however a majority of the cases did not have a documented resolution (II.D.2.f.). It is unclear if any of the violations were in the Town of Gamewell. Within the new permit cycle, as stated below, the Town will be adopting an IIDE Plan to establish written procedures. A proactive stance will be initiated with the use of a GIS application to track and document IDDE cases. This will allow the Town to identify priority areas based on historical data.

Further, the Town will train municipal staff and the general public to identify illicit discharge and illegal dumping through the use of educational outreach materials and training opportunities. Previously, no training had been administered (II.D.2.g. & h.). Educational material will be available to help educate public employees, businesses, and the general public about hazards associated with illicit discharges and the improper disposal of waste.

Public complaints of any kind could be submitted to the Town through a webpage portal or by phone; however the line of communication was not publicized (II.D.2.i). The stormwater hotline phone number, as mentioned in the public education and outreach and Illicit discharge areas of this plan, will be established on the WPCOG website. A link from the Town's website will lead to the WPCOG portal. A citizen can make a complaint via hotline number or through an email tool on the WPCOG webpage.

The Town of Gamewell will develop, manage, implement, document, report and enforce an Illicit Discharge Detection and Elimination Program which shall, at a minimum, include the following illicit discharge detection and elimination BMPs.

Permit Ref.	3.4.1: MS4 Map Measures to develop, update and m conveyances, flow direction, major			
BMP No.	A	В	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
20.	MS4 Map	ı	•	
	Develop, update, and maintain a municipal storm sewer system map including stormwater conveyances, flow direction, major outfalls, and the waters of the United States receiving stormwater discharges. The map will be placed onto an arc-online map to make it multi-use and easily accessible for stormwater or IDDE issues.  20% of MS4 mapping will be completed each year (miles of pipe, type of pipe, number of SCMs, number of outfalls, flow direction located, number of	1. Update existing map to include open channels and storm drain information and flow direction. This data will be collected through a mixture of preexisting map data (following its validation), as well as field work based off Public Works and the Planning Departments Recommendation and known information.	1. Continuously Permit Years 1-5	1. Was the map updated Yes, No; Status.  Was at least 20% of the MS4 area mapped?
	conveyances mapped, were receiving bodies located/marked).	2. Add new infrastructure to map as new construction occurs, updated on an annual basis.	2. Annually Permit Years 1-5	2. Was new infrastructure added to the map: Yes, No; Status
Permit Ref.	3.4.2: Regulatory Mechanism Measures to provide an IDDE ordin prohibit, detect, and eliminate illicit including enforcement procedures a	t connections and discharg		
ВМР	A	В	C	D
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric

BMP No.	Description of BMP	Measurable Goal(s)	<b>Implementation</b>	Annual Reporting Metric
BMP			Schedule for	A 1D 4*
DMD	A	В	C	D
	e) Evaluate and as	ssess the IDDE Program.		
	d) Eliminate the so	ource(s) of an illicit discha	arge, and	
	c) Identify illicit d	lischarges and trace source	es,	
	, , , , , , , , , , , , , , , , , , ,	e dry weather outfall insp		
		areas likely to have illicit		
Permit Ref.	3.4.3: IDDE Plan  Measures to maintain and implement dumping and any non-stormwater did The plan shall provide standard processors.	ischarges identified as sign	nificant contributors of po	
	discharges, illegal dumping and spills into the MS4, including enforcement procedures and actions. Update ordinance if required.			
	Review existing Ordinance (Section 7 of Town of Gamewell Phase II stormwater ordinance) in order to maintain the legal authority to prohibit, detect, and eliminate illicit connections and	1. Review the ordinance and update if revision is required. Revisions will require council reapproval.	1. Annually Permit Years 1-5	1. Were revisions to the ordinance needed? Yes, No; Status.

Table 1	5: Illicit Discharge Detection and E	Climination BMPs		
	Establish a written IDDE Plan to detect and address illicit discharges, illegal dumping and any non-stormwater discharges identified as significant contributors of pollutants to the MS4.	1. Develop written IDDE Plan to define the procedures of identifying, tracking and processing illicit discharges, illegal dumping and significant contributors of pollutants to the MS4. Submit IDDE Plan to DEQ for approval.	1. Permit Year 1	1. Was IDDE plan developed? Yes, No; status;  Date draft plan is submitted to DEQ for approval.
		2. Train staff on the processes defined in the IDDE Plan and what is required by the IDDE ordinance.	2. See BMP 50	2. See BMP 50
		3. Implement/Enforce the IDDE Plan and IDDE Ordinance.	3. See BMP 27	3. See BMP 27
23.	<b>Location of Priority Areas</b>	<u> </u>		
	Establish and maintain procedures for locating priority areas likely to have illicit discharges. A high priority area is an area that has a high chance of stormwater pollution potential: Areas with known dry weather outfall flows/violations, repeat offenders, business/commercial areas, industrial areas, and businesses with high pollution potential.	1. Use MS4 map to locate outfalls near high pollution risk areas. As BMP 19 is being completed, priority areas will be established. The priority areas will be re-evaluated on an annual basis to add additional high priority areas should they be found or new ones develop.	1. Annually, Permit Years 1-5	1. Were priority areas located? Yes, No; Status;  Number of Priority areas added upon revision

	15: Illicit Discharge Detection and F	Limination BNIPS		
24.	Dry Weather Outfall			
	Inspections  Perform regular dry weather (no rain in previous 72 hours) outfall inspections to proactively identify illicit discharges and illicit connections. The Town will be broken into 5 sections, with at	1. Establish a procedure to divide the Town and create a schedule for dry weather inspections for known outfalls.	1. Permit Year 1	1. Were procedures and the schedule established Yes, No; Status.
	least one section (20%) being inspected each permit year. The inspections will consist of the currently known outfalls and expanded with the progress of	2. Implement dry weather inspection procedures.	2. Annually, Permit Years 2-5	2. Number of dry weather inspections completed;
	BMP 19.	Date inspections occurred, location of inspected outfall, and photos of outfall will be documented.		Number of potential illicit discharges (from dry weather flow) identified.
25.	Illicit Discharges and Trace Sour	ces		
	Establish procedures to track and document Illicit Discharge investigations.	1. Establish procedures to track verified discharges and trace sources.	1. See BMP 27	1. See BMP 27
		2. Maintain illicit discharge tracking documentation.	2. See BMP 27	2. See BMP 27
26.	Maintain and Implement IDDE P	l Plan	<u></u>	
	Maintain and implement the IDDE Plan to detect and address illicit discharges, illegal dumping and any non-stormwater	1. Screen priority areas likely to have illicit discharges (BMP 23).	1. Annually, Permit Years 1-5	1. Number of illicit discharges found in priority areas.
	discharges identified as significant contributors of pollutants to the MS4.	2. Investigate and Enforce IDDE issues.	2. See BMP 27	2. See BMP 27

Table 1	5: Illicit Discharge Detection and E	Elimination BMPs		
		43. Evaluate and assess the IDDE plan/program – Identify where improvements can be made based on data collected.	3. Annually Permit Years 1-5	3. Were revisions to the IDDE plan needed? Yes, No; Status.
		Changes must be approved by DEQ from the previously approved IDDE Plan.		
Permit Ref.	3.4.4: IDDE Tracking Measures for tracking and document	nting the date(s) an illicit of	lischarge illicit connection	on or illegal dumning was
	observed, the results of the investig	ation, any follow-up of the	e investigation, the date t	he investigation was
		ation, any follow-up of the	e investigation, the date t	he investigation was
BMP No.	observed, the results of the investig closed, the issuance of enforcement	ation, any follow-up of the actions, and the ability to	e investigation, the date to identify chronic violator  C  Schedule for	he investigation was
ВМР	observed, the results of the investig closed, the issuance of enforcement  A	ation, any follow-up of the actions, and the ability to	e investigation, the date to identify chronic violator  C	he investigation was ss.  D  Annual Reporting

Table 15: Illicit Discharge Detection and E	Climination BMPs		
	2. Record illicit discharge/connection and illegal dumping reports/investigations on the IDDE tracking sheet.  Differentiate staff discovery from citizen reporting to allow for review of outreach program.	2. Continuously, Permit Years 1-5	2. Number of verified IDDE issues.
	3. Upon investigation, enforce Illicit Discharge/connection and Illegal Dumping violations to ensure the responsible party/violator remedies verified illicit discharges.	3. Continuously, Permit Years 1-5	3. Number of violations/enforcement actions issued;  Number of violations/enforcement actions resolved.
	4. Establish and maintain a list of chronic violators, as applicable. Updated on a Semi-annual basis.	4. Semi-Annually, Permit Years 1-5	4. Number of chronic violators identified.
	5. Evaluate and assess the IDDE tracking sheet – Identify where improvement can be made based on data collected, problems encountered and needs. Evaluation of the sheet will be done on an annual basis to find shortcomings with the IDDE program should they be determined.	5. Annually, Permit Years 2-5	5. Were revisions to the IDDE tracking sheet needed? Yes, No; Status

Table 15	5: Illicit Discharge Detection and E	Climination BMPs		
Permit Ref.	Measures to provide training for municipal staff and contractors who, as part of their normal job responsibilities, may come into contact with or otherwise observe an illicit discharge, illicit connection or illegal dumping. Training shall include identifying and reporting illicit discharges, illicit connections and illegal dumping. Each staff training event shall be documented, including the agenda/materials, date, and number of staff participating.			
BMP	A	В	C	D
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
28.	Staff Training			
	Train municipal staff and contractors to identify and report illicit discharges, illicit connections, illegal dumping and spills.	1. Identify staff members and/or contractors that are likely to observe an illicit discharge, illicit connection and illegal dumping.  2. Hold IDDE training events to educate staff and contractors in identifying and reporting illicit discharges, illicit connections, illegal dumping, and spills. Trainings will have a sign in sheet to track the names of trained individuals.	1. See BMP 11  2. See BMP 50	1. See BMP 11  2. See BMP 50
29.	IDDE Educator	marviduais.		
	Establish appropriate staff contacts for field inquiries regarding IDDE education, outreach and complaints. During IDDE enforcement, an outreach approach to raise awareness of why the violation is problematic will be taken (See BMP 12). The	Train hotline contacts in IDDE awareness, complaint call protocols, and appropriate contacts for referral.      Utilizing social media and the Town/	1. See BMP 12  2. See BMP 12	1. See BMP 12  2. See BMP 12
	hotline will also function as a mechanic for responding to IDDE questions from the public.	WPCOG webpages, publicize contact information for IDDE reporting.		

Table 15	5: Illicit Discharge Detection and E	Climination BMPs		
Permit Ref.	3.4.6: IDDE Reporting  Measures for the public and staff to report illicit discharges, illegal dumping and spills. The mechanism shall be publicized to facilitate reporting and shall be managed to provide rapid response by appropriately trained personnel.			
BMP	A	В	C	D
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
30.	IDDE Reporting Hotline			
	Provide a hotline for the public and municipal staff to report illicit discharges, illegal dumping and	1. Utilize the hotline (BMP 12) to receive IDDE reports.	1. See BMP 12	1. See BMP 12
	spills.	2. Train hotline staff to differentiate between illicit discharge complaints and stormwater/post-construction complaints. The staff will also be trained to keep adequate records of the calls for metrics.  3. Publicize Hotline by including the phone number on educational materials. Post the hotline number on the Town and WPCOG websites and shared via social media	2. See BMP 12  3. See BMP 12	2. See BMP 12  3. See BMP 12
31.	IDDE Reporting Web-based Repo	accounts.  orting Form		
	Staff will establish and maintain a web-based form where IDDE complaints/reports can be entered and sent to the appropriate reporting individual. Publicize the reporting tool in education outreach materials as well as on the Town of Gamewell Facebook page.	1. Use web based reporting form for IDDE reporting.	1. See BMP 15	1. See BMP 15

Table 1	5: Illicit Discharge Detection and E	Climination BMPs		
32.	IDDE Reporting Efficiency			
	Staff will provide a rapid response to all complaints received. Staff will record the response dates and summary of results to improve IDDE program and tracking sheet	1. Use the IDDE tracking sheet, once established (BMP 27), to track time of complaint, site visit, type of complaint and all enforcement/resolution measures.	1. See BMP 27	1. See BMP 27
		2. Evaluate response time. Work to minimize response time to reported issues and record what is causing those issues to be fixed in later iterations of the plan. Track the times elapsed between when an IDDE incident is reported, and when it is addressed.	2. Annually, Permit Years 1-5	2. Average response time.

## PART 8: CONSTRUCTION SITE RUNOFF CONTROL PROGRAM

In accordance with 15A NCAC 02H .0153, the MS4name relies upon the North Carolina Sedimentation Pollution Control Act (SPCA) of 1973 as a qualifying alternative program to meet a portion of the NPDES MS4 Permit requirements for construction site runoff control measures. The SPCA requirements include reducing pollutants in stormwater runoff from construction activities that result in land disturbance of greater than or equal to one acre, and includes any construction activity that is part of a larger common plan of development that would disturb one acre or more. The state SPCA Program is either delegated to a city/town, delegated to a county, or implemented by NCDEQ in non-delegated areas.

Table 16: Qualifying Alternative Program Components for Construction Site Runoff Control Program

Permit Reference	State or Local Program Name	Legal Authority	Implementing Entity	Meets Whole or Part of Requirement
3.5.1 - 3.5.4	State Implemented SPCA Program	15A NCAC Chapter 04	NCDEQ	Part

The Town of Gamewell also implements the following BMPs to meet NPDES MS4 Permit requirements.

Table 1'	Table 17: Construction Site Runoff Control BMPs			
Permit Ref.	3.5.6: Public Input Measures to provide and promote a means for the public to notify the appropriate authorities of observed erosion and sedimentation problems.			
BMP	A	В	C	D
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
33.	Municipal Staff Training			
	Train municipal staff who receive calls from the public on the protocols for referral and documentation of construction site runoff control complaints.	1. Train municipal staff on proper handling of construction site runoff control complaints.	1. See BMP 50	1. See BMP 50
		2. Maintain a list of trained municipal staff who have reported construction run-off issues.	2. Continuously, Permit Years 1-5	2. Number of construction run-off issues reported by municipal staff;
		155465.		Date trained staff reporting list was established.

34.	Means of Public Input	1. Use survey (BMP	1. See BMP 18	1. See BMP 18
	Utilize the survey, the hotline, and	18) to obtain feedback		
	the online form to give citizens	about public		
	methods of responding to how	perspective about		
	construction runoff is being	construction runoff in		
	managed. The survey will ask	the Town.		
	questions regarding: how they	2. Administer the	2. See BMP 18	2. See BMP 18
	view construction runoff in the	survey. The survey		
	Town, what they think should be	will be linked to on the		
	changed to improve upon said	WPCOG stormwater		
	problems, and where they believe	webpage and the Town		
	there should be more focus within	of Gamewell website.		
	the program.	3. Utilize reporting	3. See BMP 15	3. See BMP 15
		form (BMP 15) that		
		will allow citizens and		
		the development		
		community (separately		
		distinguished) to write		
		concerns and report		
		construction runoff		
		issues.		
		4. Publicize the ability	4. See BMP 15	4. See BMP 15
		to report concerns		
		about construction		
		runoff issues via the		
		online form on the		
		Town and WPCOG		
		websites and social		
		media.		
Permit Ref.	3.5.5: Waste Management Measures to require construction si truck washout, chemicals, litter, and water quality.			
ВМР	A	В	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
	•			
No.	Waste Management			
No.	Waste Management	1 Develop an	1 Permit Year 1	1 Ordinance
No.	Waste Management Require construction site	1. Develop an ordinance that	1. Permit Year 1	1. Ordinance
No.	Waste Management  Require construction site operators to control waste at the	ordinance that	1. Permit Year 1	developed: Yes or No
No. 35.	Waste Management Require construction site		1. Permit Year 1	

Table 17: Construction Site Runoff Control BMPs				
	2. Adopt developed ordinance through council approval.	2. Permit Year 1	2. Ordinance adopted; Yes, No; Status.	
	3. Train municipal staff on identifying and reporting construction waste violations.	3. See BMP 50	3. See BMP 50	
	4. Maintain adopted ordinance (if revisions are needed).	4. Annually Permit years 2-5	4. Were any revisions to the waste management ordinance made? Yes, No; Status.	
	5. Enforce ordinance using the tracking sheet to track and document construction site waste concerns and corrective actions.	5. See BMP 27	5. See BMP 27	

### PART 9: POST-CONSTRUCTION SITE RUNOFF CONTROL PROGRAM

MS4 Inspection Report for the Town of Gamewell – Post-construction Site Runoff Control Program Implementation Status, Permit Citation: II.F.2.a. Legal Authority, "At the time of inspection, the Town was utilizing a Caldwell County ordinance to implement the post-construction site runoff controls program. The Ordinance authorized Caldwell County, rather than the Town of Gamewell, to review plans, request information, and enter private property to conduct inspections of post-construction controls." Within Permit Year one of the NPDES Permit cycle, a Town ordinance was developed and adopted authorizing the Town, rather than the County to administer the aforementioned items. Within the ordinance established in Permit Year One enabling language granting the Town of Gamewell the ability to require deed restrictions and protective covenants (II.F.2.e.) will be included.

Contracting WPCOG, an inventory of projects will be established (BMP 36.B.1, 2, and 3) within the municipal limits, this is in response to Permit Citation II.F.2.d. of the latest audit (2018). Along with the inventory list proactive inspections will be administered by Staff semi-annually and certified by a private engineer annually to ensure SCM functionality (II.F.2.g.) Upon non-compliance, enforcement action will be taken, not a common practice in years past, but now the Town will have a GIS tracking mechanism to proactively enforce to obtain compliance (II.F.2.i.).

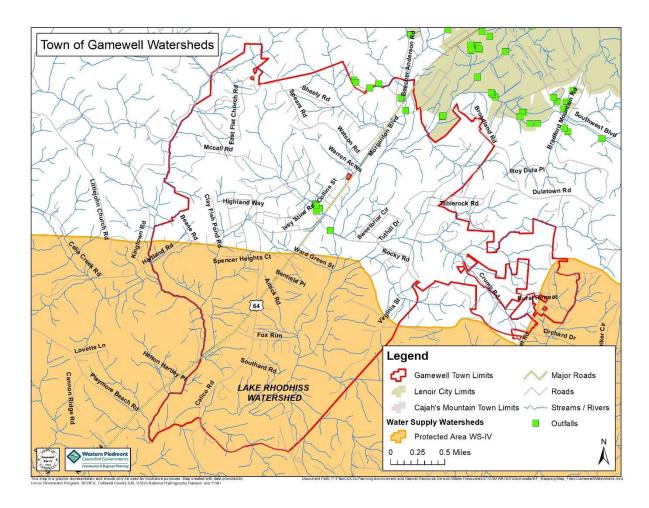
MS4 Inspection Report for the Town of Gamewell – Post-construction Site Runoff Control Program Implementation Status, Permit Citation: II.F.3.c. Nutrient Sensitive Waters: The City of Lenoir, on behalf of the Town of Gamewell had not designed or constructed any SCMs in the permitted area specifically to reduce nutrient loads. At this time it is unclear if the co-permitees with in the MS4 are receiving discharge into the nutrient sensitive waters.

This SWMP identifies the minimum elements to develop, implement and enforce a program to address stormwater runoff from new development and redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale, that are located within the Town of Gamewell and discharge into the MS4. These elements are designed to minimize water quality impacts utilizing a combination of structural Stormwater Control Measures (SCMs) and/or non-structural BMPs appropriate for the community, and ensure adequate long-term operation and maintenance of SCMs.

In accordance with 15A NCAC 02H .0153 and .1017, the Town of Gamewell implements the following State post-construction program requirements, which satisfy the NPDES Phase II MS4 post-construction site runoff control requirements as Qualifying Alternative Program(s) (QAPs) in the MS4 area(s) where they are implemented.

Table 18: Qualifying Alternative Program(s) for Post-Construction Site Runoff Control Program

State QAP Name	State Requirements	Local Ordinance / Regulatory Mechanism Reference
Water Supply Watershed (WS-IV)	15A NCAC 2B .06200624	WSIV Watershed Ordinance (See map)



The Town of Gamewell has existing requirements including the presents of a Qualifying Alternative Program(s) in a portion of the Town limits. The Qualified Alternative Program is the Lake Rhodhiss water supply watershed Protected Area WS-IV. To ensure compliance with the NPDES MS4 Phase II post-construction program requirements the Town of Gamewell applies the post-construction standards throughout the Town Limits, including the area located within the watershed. These requirements are to be adopted as local ordinance(s) per BMP 39.B.1. and implementation per BMP 39.B.3-4., and are summarized in Table 19 below.

Table 19: Summary of Existing Post-Construction Program Elements

Permit Requirements for	Municipal Ordinance/Code Reference(s)	Date Adopted
Plan Review and Approval	and/or Document Title(s)	_
3.6.2(a) Authority	Stormwater Ordinance Section 102	11/11/19
3.6.3(a) & 15A NCAC 02H.0153(c)	Stormwater Ordinance Section 105	11/11/19
Federal, State & Local Projects		
3.6.3(b) Plan Review	Stormwater Ordinance Section 202	11/11/19
3.6.3(c) O&M Agreement	Stormwater Ordinance Section 402	11/11/19
3.6.3(d) O&M Plan	Stormwater Ordinance Section 402	11/11/19
3.6.3(e) Deed	Stormwater Ordinance Section 302 and 303	11/11/19
Restrictions/Covenants		
3.6.3(f) Access Easements	Stormwater Ordinance Section 408	11/11/19
Permit Requirements for	Municipal Ordinance/Code Reference(s)	Date Adopted
Inspections and Enforcement	and/or Document Title(s)	
3.6.2(b) Documentation	Stormwater Ordinance Section 401	11/11/19
3.6.2(c) Right of Entry	Stormwater Ordinance Section 402	11/11/19
3.6.4(a) Pre-CO Inspections	Stormwater Ordinance Section 203	11/11/19
3.6.4(b) Compliance with Plans	Stormwater Ordinance Section 203	11/11/19
3.6.4(c) Annual SCM Inspections	Stormwater Ordinance Section 401	11/11/19
3.6.4(d) Low Density Inspections	Stormwater Ordinance Section 302	11/11/19
3.6.4(e) Qualified Professional	Stormwater Ordinance Section 401	11/11/19
Permit Requirements for	Municipal Ordinance/Code Reference(s)	Date Adopted
Fecal Coliform Reduction	and/or Document Title(s)	
3.6.6(a) Pet Waste	Stormwater Ordinance Section 308	11/11/19
3.6.6(b) On-Site Domestic	Stormwater Ordinance Section 308	11/11/19
Wastewater Treatment		

The annual reporting metrics for the post construction program are provided in Table 20: Post Construction Site Runoff Control BMPs below.

Table 20: Post Construction Site Runoff Control BMPs						
Permit Ref.	<b>4.1.3: Minimum Post-Construction Reporting Requirements</b> Measures to document activities over the course of the fiscal year (July 1 – June 30) including appropriate information to accurately describe progress, status, and results.					
BMP	A B C D					
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric		
36.	Standard Reporting					
ĺ	Implement standardized tracking,	1. Track number of	1. Continuously	1. Number of plan		
	documentation, inspections and	low density and high	Permit Years 1-5	reviews performed for		
	reporting mechanisms to compile	density plan reviews		low density and high		
	appropriate data for the annual	performed.		density.		

Table 20	): Post Construction Site Runoff C	Control BMPs		
	self-assessment process. Data shall be provided for each Post- Construction/ Qualifying Alternative Program being	2. Track number of low density and high density plans approved.	2. Continuously Permit Years 1-5	2. Number of plan approvals issued for low density and high density.
	implemented as listed in Tables 18 and 19.	3. Maintain a current inventory of low density projects and constructed SCMs including SCM type or low density acreage, location and last inspection date.	3. Continuously Permit Years 1-5	3. Summary of number and type of SCMs added to the inventory; and number and acreage of low density projects constructed.
		4. Track number of SCM inspections performed.	4. Continuously Permit Years 1-5	4. Number of SCM inspections.
		5. Track number of low density inspections performed.	5. Continuously Permit Years 1-5	5. Number of low density projects inspected
		6. Track number and type of enforcement actions taken.	6. Continuously Permit Years 1-5	6. Number of enforcement actions taken
Permit Ref.	<b>2.3 and 3.6: Qualifying Alternati</b> Measures to develop, implement an requirements.		s in order to comply with	the QAP state program
BMP	A	В	С	D
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
37.	Qualifying Alternative Program  The QAP requirements are applical construction Stormwater Ordinance			the Phase II Post-
	3.6.2: Legal Authority Measures to maintain adequate lega			
Ref.	designs and proposals for new development of the control measures will be installed, it plans, inspection reports, monitorin with the Post-Construction Stormwinspecting at reasonable times any fluscharges to determine whether the Program.	mplemented, and maintain g results, and other inform ater Management Program facilities, equipment, pract	ned, (b) request information tation deemed necessary to a, and (c) enter private pro- ices, or operations related	on such as stormwater of evaluate compliance perty for the purpose of to stormwater
MP	control measures will be installed, in plans, inspection reports, monitoring with the Post-Construction Stormwoninspecting at reasonable times any foliable discharges to determine whether the	mplemented, and maintain g results, and other inform ater Management Program facilities, equipment, pract	ned, (b) request information tation deemed necessary to a, and (c) enter private pro- ices, or operations related	on such as stormwater of evaluate compliance perty for the purpose of to stormwater

38.	Phase II Post-construction Stormwater Ordinance					
	The Town has adopted and will maintain in effect the Phase II Stormwater Ordinance, which gives the Town legal authority to review designs for new	1. Train staff (field and office) in Stormwater Ordinance procedures and enforcement actions.	1. See BMP 50	1. See BMP 50		
	review designs for new development and redevelopment, to ensure adequate stormwater controls, to request information, to perform inspections on private property, and to perform other compliance activities related to this measure.  The ordinance references the DEQ BMP Design Manual as the source of standards to be used in selecting, designing, evaluating, and maintaining structural BMPs.  enforcement actions.  2. Enforcement of the Phase II Post-construction Stormwater Ordinance to ensure compliance. Should the correct processes and order not be followed, a notice of violation will be issued to address the violation.					
Permit Ref.	Measures to maintain plan review and approval authority, standards and procedures to: (a) Require Federal State, and local government projects to comply with Post-Construction Program requirements throughout the entire MS4 permitted area, unless the entity is subject to its own NPDES MS4 permit or a qualifying alternative program, (b) Conduct site plan reviews of all new development and redeveloped sites that disturb greater the orientation or equal to one acre, and sites that disturb less than one acre that are part of a larger common plan of development or sale for compliance with 15A NCAC 02H .1017 and the qualifying alternative programs the apply within your jurisdiction, (c) Ensure that each project has an Operation and Maintenance Agreement to complies with 15A NCAC 02H .1050(12), (d) Ensure that each project has recorded deed restrictions a protective covenants, that require the project to be maintained consistent with approved plans, and (f) Ensure that each SCM and associated maintenance accesses be protected in a permanent recorded easement per 15					
	apply within your jurisdiction, (c) I complies with 15A NCAC 02H .10 that complies with 15A NCAC 02H protective covenants, that require that each SCM and associated main	Ensure that each project hat 50(12), (d) Ensure that each I.1050(13), (e) Ensure that he project to be maintained.	as an Operation and Maint ch project has an Operation at each project has recorded d consistent with approved	enance Agreement that n and Maintenance Plan d deed restrictions and I plans, and (f) Ensure		
BMP	apply within your jurisdiction, (c) I complies with 15A NCAC 02H .10 that complies with 15A NCAC 02F protective covenants, that require the	Ensure that each project hat 50(12), (d) Ensure that each I.1050(13), (e) Ensure that he project to be maintained.	as an Operation and Maint ch project has an Operation at each project has recorded d consistent with approved	enance Agreement that n and Maintenance Plan d deed restrictions and I plans, and (f) Ensure		
BMP No.	apply within your jurisdiction, (c) I complies with 15A NCAC 02H .10 that complies with 15A NCAC 02H protective covenants, that require that each SCM and associated main NCAC 02H 1050 (9) and (10).	Ensure that each project hat 50(12), (d) Ensure that each 1.1050(13), (e) Ensure that he project to be maintained attenance accesses be protected.	as an Operation and Maint ch project has an Operation at each project has recorded consistent with approved ted in a permanent record C  Schedule for	enance Agreement that n and Maintenance Plan d deed restrictions and I plans, and (f) Ensure ded easement per 15A		
	apply within your jurisdiction, (c) I complies with 15A NCAC 02H .10 that complies with 15A NCAC 02H protective covenants, that require that each SCM and associated main NCAC 02H 1050 (9) and (10).	Ensure that each project hat 50(12), (d) Ensure that each I.1050(13), (e) Ensure that he project to be maintained attenance accesses be protected.  B	as an Operation and Maint ch project has an Operation at each project has recorded consistent with approved the consistent with a permanent record the consistency with the consistency wit	enance Agreement that n and Maintenance Plan d deed restrictions and l plans, and (f) Ensure ded easement per 15A  D  Annual Reporting		

part of a larger common plan of	2. Review plans for all	2. See BMP 36	2. See BMP 36
development or sale).	new development and		
,	redevelopment sites		
All required submittals (as	that will disturb greater		
defined by the plan review	than or equal to one		
procedures) must be received by	acre. This is including		
the reviewer before the issuance	projects less than one		
of a Certificate of Occupancy (per	acre that are part of a		
development). Should the	larger common plan of		
procedures not be followed, a	development or sale.		
notice of violation and stop work	This requirement also		
order will be issued in accordance	applies to Federal, State		
with the Town's ordinance and	and Local Government		
SOP.	projects.		
	3. Maintain the existing	3. See BMP 36	3. See BMP 36
The Town of Gamewell requests	SCM Inventory sheet.		
that the County holds the	Said sheet tracks all		
Certificate of Occupancy on all	required submittals,		
developments that fall under	relevant information,		
stormwater regulations within the	and all projects within		
Town. The CO is not issued until	the Town that have		
all stormwater requirements	gone through (and/or		
(designs, submittals, and	are going through) the		
inspections) are satisfied and the	stormwater review		
Stormwater Administrator	procedure.		
approves the issuance.			
Operation and Maintenance Agre	eement and Plan		
The Operation and Maintenance	1. Ensure that each	1. Continuous	1. Number of
(O&M) agreement requires	project has an approved		permitted projects
owners of structural BMPs to	O&M Agreement and	Permit Years 1-5	with O&M plans th
perpetually maintain and operate	O&M Plan prior to CO,		received their CO.
BMPs according to the O&M	to be included in the		
plan submitted during the plan	project checklist and		
review process and require	required prior to CO.		
submission of annual inspection	Each O&M agreement		
reports written by a qualified	will include a		
professional. Each O&M	requirement for annual		
agreement shall include an	inspections.		
enforcement component defining			
the actions the Town can take if			
the O&M plan is not followed.			

Recordation			
The plan review process shall include verification that permanent legal mechanisms are in effect ensuring the project is built consistently with its approved plans. This will be verified through the submittal of an engineer's certification and providing an as-built. These must be received and accepted to approve the issuance of that	1. Ensure each project has recorded deed restrictions and protective covenants in effect to ensure development activities will be maintained consistent with the approved plans (low and high density projects).	1. See BMP 36	1. See BMP 36
projects CO.  A recorded deed restriction or protective covenant, along with an access easement is established through recordation. Recording both the access easement and deed restrictions are required for the issuance of a Certificate of Occupancy.	2. Ensure that each SCM and associated maintenance access areas are recorded in a permanent easement to guarantee access for inspection and maintenance of the SCM.	2. See BMP 36	2. See BMP 36

### Table 20: Post Construction Site Runoff Control BMPs

## Permit Ref.

# 3.6.4: Inspections and Enforcement

Measures to maintain inspection and enforcement authority, standards and procedures to: (a) Conduct post-construction inspections prior to issuing a Certificate of Occupancy or a Temporary Certificate of Occupancy. Alternatively, the project owner may provide a surety bond to guarantee compliance with the approved plan(s), (b) Ensure that the project has been constructed in accordance with the approved plan(s), (c) Ensure annual inspection of each permitted SCM to ensure compliance with the approved Operation and Maintenance Agreement, (d) Ensure inspection of low density projects at least once during the permit term, and (e) Require that inspections be conducted by a qualified professional.

BMP	A	В	C	D
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
42.	Inspection and Enforcement			
	After project completion, but prior to issuance of a certificate of occupancy, an inspection will be completed by a qualified professional to ensure the project has been constructed according to the plan/design. Following approval, annual inspections by a qualified professional will be completed. Low density projects will be inspected once in a permit term to monitor potential unpermitted expansion and apply	1. Prior to issuance of a CO, a qualified Town representative shall perform an inspection on all project SCMs to ensure compliance. If corrections are required, then follow up inspections will be performed until the SCM and project site is compliant prior to the issuance of CO.	1. Continuously Permit Years 1-5	Number of pre-CO inspections completed  Number of repeat inspections required.
	enforcement if violations are found.	2. Staff will perform inspections of all SCMs (both government and non-government) within the Town.	2. Annually, Permit Year 1-5	2. Number of SCM inspections completed; Number of failed SCM inspections.
		3. Owner shall have a Qualified Licensed Professional perform an SCM inspection in accordance with the O&M Agreement and DEQ SCM manuals once a year.	3. Annually Permit Year 1-5	3. Number of qualified licensed professional inspections completed with documentation received;  Number of SCMs under annual inspection enforcement.

	4. Conduct inspection	4. Annually	4. Number of low
	of 20% of low-density projects each year (See BMP 36 for inventory).	Permit Years 1-5	density inspections done; Number of low density violators found; Number of low density enforcement actions issued.
Maintain an inventory of post-constructions and enforcen	truction SCMs and low denent actions. Tracking sha	ensity projects, (b) Docum Il include the ability to id	nent, track and maintain lentify chronic violators,
A	В	C	D
Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
Documentation – Low Density		·	
Ensure tracking and records are maintained on low density projects to ensure that upon inspection, impervious overages can be determined, and corrective actions taken. Ensure informational materials are available on the WPCOG website to guarantee accessibility outside of office hours. Through tracking and inspections chronic violators	1. Maintain low density project list to include existing sites.	1. See BMP 36	1. See BMP 36
	2. Inspect the completed low-density projects to ensure the projects have not expanded into a high density classification thus needing a SCM.	2. See BMP 42	2. See BMP 42
density sites will be inspected per year	3. Provide educational material to the general public about low density developments: during the issuance of zoning permits, distributed through mailings, posted on social media, and handed out at events.	3. Continuously Permit Years 1-5	3. Number of low density educational materials distributed.
	Measures to maintain adequate doc Maintain an inventory of post-constrecords of inspections and enforced and (c) Make available to develope checklists, and/or other materials.  A  Description of BMP  Documentation – Low Density  Ensure tracking and records are maintained on low density projects to ensure that upon inspection, impervious overages can be determined, and corrective actions taken. Ensure informational materials are available on the WPCOG website to guarantee accessibility outside of office hours. Through tracking and inspections chronic violators will be identified. 20% of the low density sites will be inspected per	of 20% of low-density projects each year (See BMP 36 for inventory).  3.6.5: Documentation  Measures to maintain adequate documentation and standardiz Maintain an inventory of post-construction SCMs and low de records of inspections and enforcement actions. Tracking sha and (c) Make available to developers all relevant ordinances, checklists, and/or other materials.  A  B  Description of BMP  Documentation – Low Density  Ensure tracking and records are maintained on low density projects to ensure that upon inspection, impervious overages can be determined, and corrective actions taken. Ensure informational materials are available on the WPCOG website to guarantee accessibility outside of office hours. Through tracking and inspections chronic violators will be identified. 20% of the low density sites will be inspected per year  1. Maintain low density project list to include existing sites. 2. Inspect the completed low-density projects to ensure the projects have not expanded into a high density classification thus needing a SCM.  3. Provide educational material to the general public about low density developments: during the issuance of zoning permits, distributed through mailings, posted on social media, and	of 20% of low-density projects each year (See BMP 36 for inventory).  3.6.5: Documentation  Measures to maintain adequate documentation and standardized inspection and trackin Maintain an inventory of post-construction SCMs and low density projects, (b) Documercords of inspections and enforcement actions. Tracking shall include the ability to ic and (c) Make available to developers all relevant ordinances, post-construction require checklists, and/or other materials.  A B C  Description of BMP Measurable Goal(s)  Ensure tracking and records are maintained on low density projects to ensure that upon inspection, impervious overages can be determined, and corrective actions taken. Ensure informational materials are available on the WPCOG website to guarantee accessibility outside of office hours. Through tracking and inspections chronic violators will be identified. 20% of the low density sites will be inspected per year  3. Provide educational material to the general public about low density developments: during the issuance of zoning permits, distributed through mailings, posted on social media, and

<b>Documentation – High Density</b>			
Ensure tracking and records are maintained on projects to ensure that upon granting of final CO and follow-up inspection impervious overages can be determined and corrective actions taken. Ensure informational materials are available online to guarantee accessibility outside of office hours. Through tracking	1. Maintain an inventory of all developments and redevelopments (public and private) with SCMs. Update inventory as projects are reviewed, approved, and constructed.	1. See BMP 36	1. See BMP 36
and inspections chronic violators will be identified.	2. Provide educational material to developers	2. Continuously,	2. Number of high density information
	about high density development. At a minimum, hyperlinks will be maintained on the Towns web page directed to the Ordinance and to the BMP Design Manual. Printed materials will be distributed (but not limited to): during the issuance of zoning permits, distributed through mail, digitally posted on social media, and handed out at events.	Permit Years 1-5	materials distribu
	3. Establish links to all ordinances, manuals, policies, checklists, design standards,	3. Annually Permit Years 1-5	3. Items placed or webpage: Yes or Status;
	and/or other materials on the WPCOG website.		Were items replace with current versi if revisions were required? Yes, No Status

Table 20	0: Post Construction Site Runoff Co	ontrol BMPs					
Permit Ref.	Measures to control, to the maximum extent practicable, sources of fecal coliform per 15A NCAC 02H .1017(7). At a minimum, the program shall include: (a) A pet waste management component, which may be achieved by revising an existing litter ordinance, and (b) An on-site domestic wastewater treatment system component, if applicable, which may be coordinated with local county health department, to ensure proper operation and maintenance of such systems.						
BMP	A	В	C	D			
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric			
45.	Fecal Coliform Reduction						
	Protective measures have been established through the adoption of the pet waste component of the Phase II Stormwater Ordinance.	1. Maintain Pet Waste Ordinance to reduce the amount of pet waste.	1. Annually Permit Years 1-5	1. Did Pet Waste Ordinance require revisions? Yes, No; Status.			
	Most of the Town of Gamewell's wastewater is managed through septic tanks. As such the town participates in the WPCOG septic repair program which provides an opportunity to reduce wastewater pollution. An outreach approach will be taken to assist in reducing this pollutant and raise awareness.	2. Develop and supply septic tank awareness materials to the County and the WPCOG septic tank program. These flyers will be used to raise awareness of septic tank pollution and septic maintenance.	2. Continuously, Permit Years 1-5	2. Number of septic tank flyers distributed.			

## PART 10: POLLUTION PREVENTION AND GOOD HOUSEKEEPING PROGRAMS

This SWMP provides a comprehensive pollution prevention and good housekeeping strategy for the Town of Gamewell municipal facilities and operations. Pollution prevention and good housekeeping is accomplished through the implementation of seven required programs, which collectively address the ultimate goal of preventing or reducing pollutant runoff from municipal operations such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and municipal storm sewer system maintenance.

Pollution prevention and good housekeeping for municipal operations includes the following programs:

- 1. Municipal Facilities Operation and Maintenance Program
- 2. Spill Response Program
- 3. MS4 Operation and Maintenance Program
- 4. Municipal SCM Operation and Maintenance Program
- 5. Pesticide, Herbicide and Fertilizer Management Program
- 6. Vehicle and Equipment Cleaning Program
- 7. Pavement Management Program

The Town of Gamewell will manage, implement and report the pollution prevention and good housekeeping BMPs as specified in Table 21 below for each required program. In response to the inefficiencies identified in the MS4 Inspection Report, Permit Citations II.G.2.a., the Town had maintained an inventory of municipal facilities, but had not determined which facilities were at risk to generate polluted stormwater runoff. A list of these possible polluters will be established.

An O & M program for the facilities and SCMs has not be created to date (II.G.2.b. and II.G.2.e.). After the acceptance of the SWMP and in Permit Year One, an O & M program will be established. (BMP 45). Furthermore, the municipal facilities and SCMs were not being inspected annually, as required per DEQ (II.G.2.b. c. & g.). Municipal SCMs were not inventoried to date; but "it is believed that the Town of Gamewell does not have municipally owned structural stormwater controls" (II.G.2.f.) Incorporated in the O & M program, staff will be trained to determine appropriate operations and maintenance for facilities and SCMs. To date staff had no training in this area. The Town of Gamewell staff did not perform street maintenance, including cleaning of catch basins and stormwater conveyances (II.G.2.e).

II.G.2.d states that "The City of Lenoir did not evaluate BMPs based on their pollutant removal" in reference to streets, roads, and public parking lot maintenance. Several of the BMPs below address this issue by developing, adopting, and maintaining procedures that focus on pollutant removal in these impervious areas. Permit Reference: 3.7.7, BMP's 59-62 address this prior lack of evaluation and program implementation. BMP 59 focuses on setting schedules and requirements for street/parking lot sweeping. BMPs 60 and BMP 61 focuses on minimizing and collecting litter/debris, with BMP 60.B.2 working in part as a community outreach program. BMP 62 addresses procedures for cleaning the oils, fluids, and debris that can come from car accidents by utilizing the developed standard spill procedures as necessary according to II.G.2.c.

In the audit, II.G.2.e addresses the prior lack of maintenance of the Town's storm sewer system, Permit Reference, 3.7.3, BMP's 49-52 focus on the training, inspection, and maintenance of said system. BMP 49 develops the required O&M plan which defines procedures/schedules, BMP 50 trains maintainers on the correct procedure, BMP 51 focuses on inspection along with its documentation, and BMP 52 addresses the audit problem itself by performing the maintenance on the system with documentation.

Previously, the use of pesticides, herbicides, and fertilizers in municipal facilities was not well tracked or managed as stated in II.G.2.h. Permit Reference, 3.7.5, BMP 55 focuses to ensure all staff using pesticides, herbicides, and fertilizers are officially certified and following appropriate (minimal) usage. BMP 55 focuses on tracking contractor certification as well as the copies of permits of both municipal staff and contractors.

II.G.2.i addresses inconstant/lacking training for municipal employees in regards to good housekeeping and pollution practices. This is addressed in: 47.B.5, 48.B.4, 49.B.1, BMP 54.B.5, 55.B.1, 57.B.2, 58.b.3, 62.b.1, and 47.b.1. Each of these BMPs focusing on each of the 7 programs required by the permit.

II.G.2.J addresses a lack of measures regarding correct waste disposal and cleaning of municipal vehicles/equipment. BMP 57 focuses on the washing side of the problem, addressing training, protocol, requirements, and options for municipal vehicle operators. BMP 58 focuses on the other side of the issue, ensuring that vehicle maintenance facilities are correctly disposing of waste and that permitting is correctly followed to ensure MS4 compliance.

Table 2	1: Pollution Prevention and Good	Housekeeping BMPs		
Permit Ref.	3.7.1: Municipal Facilities Opera Measures to manage facilities that a generating polluted stormwater rund perform facility inspections and rou documentation; provide staff training and good housekeeping practices.	are owned and operated by off. The permittee shall mutine maintenance; establis	the permittee and have the the paintain a current inventory h specific frequencies, sel-	y of municipal facilities; nedules, and standard
BMP	A	В	C	D
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
46.	<b>Municipal Facilities Operation &amp;</b>	Maintenance (O & M) P	Plan	

Table 21: Pollution Prevention and Good I	Housekeeping BMPs		
At the time of writing this SWMP, the Town of Gamewell does not have a municipal facility that has potential for generating polluted stormwater runoff. Should a facility be developed (or modified) that could be a potential source of pollutants, an O&M plan shall be developed for the facility following this BMP.  An O & M Plan must be developed, implemented, and	1. Inspect all municipal facilities to determine which facilities require an O&M plan to be developed. All facilities will be inspected once per permit term.  Applicable facilities will be inspected annually (See BMP	1. See BMP 47	1. See BMP 47
maintained for each municipal facility with the potential to generate stormwater pollution.  These plans will define the expectations of the facility in regards to stormwater/MS4 regulations. Each municipal facility in which this is applicable will implement an O&M plan.  The implementation of a plan entails signing a legally binding document that defines the party charged with ensuring that the	2. Develop an O & M plan for each municipal facility with the potential to generate stormwater pollution. Each plan will define required procedures per applicable facility to inspect, maintain and evaluate the facilities risk of stormwater pollution.	2. Permit Year 1	2. Number of facility O&M plans developed.
facility is correctly maintained and documentation of the maintenance is adequate. The documents will also define the	3. Implement the written O & M Plan (per applicable facility).	3. Continuously Permit Years 2-5	3. Number of facility O&M plans implemented.
procedures in how the facility will be maintained to reduce the risk of stormwater pollution. The facilities requiring O&M plans will be inventoried through BMP 47. Should the facility maintain and/or store vehicles, washing procedures will be defined in the facilities O&M plan.	4. Enforce and inspect the facilities to ensure compliance with the O & M Plans.	4. See BMP 47	4. See BMP 47

Municipal Facilities			
The municipal facilities operation and maintenance program will ensure the facilities are being managed/maintained in a way that does not negatively impact water quality. The facilities will be maintained in a scheduled and well defined manner and shall be	1. Verify the existing list of facilities is correct by using tax records and Town data. Field visits may be needed if data is not clear. Make note of SPCC facilities	1. Permit Year 1	1. Is the facility list verification complet Yes or No, Status;  Date of completion.
enforced through performing routine inspections. If a facility is subject to SPCC requirements, then specific inspection procedures will be completed per the SPCC requirements.	2. Use tax data and facility visits to determine if the facility has a potential pollutant and/or spill risk (following SPCC requirements).	2. Permit Year 1	2. Number of facility with potential pollutants/spill risk;  Number of potential SPCC facilities.
At the time of writing this SWMP, no municipal facilities within the Town would fall under SPCC requirements. Should one be developed or re-evaluated, it will be managed as such.	3. Perform facility inspections to ensure the Town is following good housekeeping measures.	3. Annually Permit Years 1-5	3. Number of facilit inspected;  Number of SPCC permitted facilities inspected.
	4. Document and correct issues found during inspections. If a facility is subject to SPCC requirements, then ensure the correct documentation is in place for compliance with the regulation/requirement s.	4. Annually Permit Years 1-5	4. Number of corrective actions taken (SPCC permitted facilities and non-SPCC facilities).
	5. Train municipal facility staff on proper stormwater awareness and good housekeeping methods.	5. See BMP 50	5. See BMP 50

Permit Ref.	<b>3.7.2: Spill Response Program</b> Measures for facilities and operatio stormwater runoff if spilled. The p spill response procedures.			
BMP	A	В	C	D
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
48.	Spill Response			
	Spill response program for facilities and operations that store and/or use materials that pose a spill risk. The program will be designed in a way that tracks	1. Develop a written spill response procedure plan for each facility that requires one.	1. Permit Year 1	1. Were the procedures created for all facilities that require one Yes, No; Status Summary.
	potential polluting facilities as well as defining the procedures/materials required for	2. Implement the spill response procedures plan (per facility).	2. Permit Year 1	2. Number of spill response plans implemented.
	spill response in those facilities.  The definition of reportable spills will be written into each facility spill response plans following §143-215.85.	3. Maintain spill response procedures in response to problems that may arise from implementation of spill procedures.	3. Annually Permit Years 1-5	3. Number of spill response procedure plans that required revisions.
	At the time of developing this SWMP, the Town of Gamewell	4. Train facility staff on spill response procedures.	4. See BMP 50	4. See BMP 50
	does not have a municipal facility that would store potential pollutants or be a spill risk. Should one be revaluated as such, or developed, these procedures will be followed.	5. Respond to spills as they occur and manage the spill/s following established spill procedures.  Reportable spills (per §143-215.85) will be reported to DEQ.	5. Continuously, Permit Years 1-5	5. Number of non-reportable spills;  Number of spills reported to DEQ.

Permit Ref.	3.7.3: MS4 Operation and Maint Measures to minimize pollutants in and maintenance staff training on st maintain the collection system incluschedules, and standard documentary	the stormwater collection tormwater awareness and uding catch basins and con	pollution prevention, per	form MS4 inspections,
BMP	A	В	C Schedule for	D Annual Reporting
No.	Description of BMP	Measurable Goal(s)	Implementation	Metric
49.	An O & M Plan must be developed, implemented and maintained to follow the requirements of the MS4 NPDES Phase II Stormwater collection system permit. As a component of this plan, a capital improvement component will be included to assist in prioritizing parts of the MS4 as determined by the MS4 inspections (BMP 51) The O&M Plan must also be submitted to	1. Develop an O&M plan to define the required procedures to schedule inspections, perform maintenance and evaluations of the stormwater collection system. The plan shall cover inspection schedules, standard documentation, and staff responsibilities.	1. Permit Year 1	1. Was the MS4 O&M Plan developed: Yes or No, Status.
	DEQ for approval.	2. Submit the developed O&M Plan to DEQ for approval.	2. Permit Year 1	2. Was the O & M Plan approved by DEQ: Yes or No, Status; Date of submittal to DEQ.
		3. Implement the written O M Plan.	3. Permit Years 2-5	3. Was the O&M Plan implemented, Yes, No; Status.
		4. Administer the O&M Plan (See BMP 51 & 52)	4. Continuously, Permit Year 2-5	4. Number of MS4 inspections completed.

50.	MS4 Training			
	Provide MS4 training to municipal and contracted staff to minimize pollutants in the stormwater collection system, prevent unnecessary damage and wear on the system, increase awareness of stormwater issues, and show the procedures on how to deal with stormwater related issues.  These trainings will cover: illicit discharges, pollution prevention, outreach, how to respond to IDDE or post construction issues, spill prevention and response procedures, municipal facility requirements, construction runoff,	1. Hold MS4 training events to educate staff on MS4 topics listed in the referencing BMPs. Train all current municipal staff on permit year one, regardless of prior training to bring them up to current standards. This will reoccur at the beginning of each new permit cycle  The topics covered and number of participants will be recorded at	1. Permit Year 1	1. Number of trainings held;  Number of personnel trained.
	Post construction ordinance and procedures, pesticide and fertilizer management, IDDE Plan procedures and requirements, IDDE ordinance, and good housekeeping procedures.	each training.  2. Train any newly hired staff during permit years 2-5 or were not previously trained on stormwater best management	2. Permit Years 2-5	2. Number of trainings held; Number of personnel trained.
51.	MS4 Inspection	practices		
	Proactively perform MS4 inspections to ensure clogged lines, non-functioning SCMs, and drainage inadequacies are identified. The Town of Gamewell has the option to contract out inspection services for municipally owned drainage.	1. Inspect the municipally owned MS4 infrastructure (pipes, major outfalls, stormwater conveyances, and basins) to ensure functionality	1. Continuously Permit Years 1-5	1. Number of catch basins and conveyances inspected; Number of conveyance issues found/reported.
52.	MS4 Maintenance			

Table 21	1: Pollution Prevention and Good 1	Housekeeping BMPs		
	MS4 maintenance will be done to ensure clogged lines, non-functioning basins, and drainage inadequacies of Town owned systems are repaired. If the municipality cannot reasonably maintain issues with MS4 infrastructure found in a permit	1. Inspect all municipally owned catch basins and conveyances on an annual basis and/or upon report of maintenance being required.	1. See BMP 51	1. See BMP 51
	year, it can be contracted out to a qualified licensed professional if the Town so chooses to do so. The issue can be included in the Towns capital improvement project list, and appropriately prioritized depending on the nature of the repair.	2. Maintenance will be completed upon findings through inspection or receiving reports of MS4 infrastructure in poor condition.	2. Continuously, Permit Years 1-5	2. Number of MS4 cleanings/maintenance actions performed.
Permit	3.7.4: Municipal SCM Operation			
Ref.	Measures to manage municipally-ov (SCMs) that are installed for compl- maintain a current inventory of SCM frequencies, schedules, and docume	iance with the permittee's Ms, perform SCM inspecti	post-construction progra	am. The permittee shall
	(SCMs) that are installed for complemaintain a current inventory of SCM	iance with the permittee's Ms, perform SCM inspecti	post-construction progra	am. The permittee shall
BMP No.	(SCMs) that are installed for complemaintain a current inventory of SCM frequencies, schedules, and docume	iance with the permittee's Ms, perform SCM inspection inspection.	c post-construction progrations and maintenance, and C Schedule for	am. The permittee shall ad shall establish specific
ВМР	(SCMs) that are installed for complemaintain a current inventory of SCM frequencies, schedules, and docume	iance with the permittee's Ms, perform SCM inspection Intation.  B  Measurable Goal(s)	c post-construction progrations and maintenance, and C Schedule for Implementation	am. The permittee shall ad shall establish specific  D  Annual Reporting
BMP No.	(SCMs) that are installed for complemaintain a current inventory of SCM frequencies, schedules, and docume  A  Description of BMP	iance with the permittee's Ms, perform SCM inspection Intation.  B  Measurable Goal(s)	c post-construction progrations and maintenance, and C Schedule for Implementation	am. The permittee shall ad shall establish specific  D  Annual Reporting

Table	21: Pollution Prevention and Good	Housekeeping BMPs		
		3. Review/Update SCM inventory as necessitated by new Town development.	3. See BMP 54	3. See BMP 54
54.	Municipal SCMs			
	The municipal SCM/s operation and maintenance program will ensure the stormwater structures are being managed/maintained in a way that does not negatively impact water quality. The SCMs will be maintained in a scheduled and well-defined manner written in its O&M plan.  However, at the time of developing this SWMP the Town of Gamewell does not currently have a municipally owned SCM.	1. Verify the existing list of municipal SCMs is correct by visiting the sites to determine type and condition.  Use aerial photography in conjunction with Town records to determine SCM location/ ownership.  2. Maintain Inventory of municipally owned SCMs. Add all new SCMs as they are	Permit Year 1     Continuously     Permit Years 1-5	1. Is the SCM list complete: Yes or No, Status (Location and type to be documented).  Total number of municipal SCMs  2. Did the inventory require any municipal SCMs to be added Yes, No; Status.
	Should the Town need to install one following expansion, these procedures will be followed.	constructed.  3. Perform annual inspection and maintenance of municipally owned SCMs to ensure the operation and maintenance plan is being followed.	3. Annually Permit Years 1-5	3. Number of municipal SCMs inspections done.
		4. Document and correct issues found during inspections.	4. Annually Permit Years 1-5	4. Number of issues identified/recorded;  Number of corrective actions/repairs taken.

Table 21	1: Pollution Prevention and Good	Housekeeping BMPs		
		5. Should a municipal SCM be installed, Training on the maintenance of the SCM and its function shall be held.	5. See BMP 50	5. See BMP 50
Permit	3.7.5: Pesticide, Herbicide and Fe			
Ref.	Measures to minimize water quality			
	routine pollution prevention and che permits and applicator certifications		andling training, and shall	ensure compliance with
BMP	A	В	C	D
17111				
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
No. 55.	Pesticide, Herbicide and Fertilize	r Training to Staff	Implementation	Metric
	~	` /		

	1: Pollution Prevention and Good	1 Maintaining	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 Name 1 - 1 - 1 - 1 - 1 - 1 - 1
	Ensure compliance with permits and certifications for the	1. Maintaining copies of	1. Annually	1. Number of certified
	administering of pesticides,	licenses/certifications	Permit Years 1-5	municipal personnel/contractors.
	herbicides and fertilizer to ensure	of all staff and	1 Clinit 1 Cars 1-3	personner contractors.
	application of product is less	contractors who use		
	impactful to stormwater runoff.	landscaping chemicals.		
	Only certified landscapers/	ianasaaping enemieais.		
	sprayers are the ones applying			
	pesticides, herbicides, and			
	fertilizers.			
	3.7.6: Vehicle and Equipment Clo Measures to prevent and minimize and equipment maintenance and/or subject to NPDES industrial permit	contamination of stormwa cleaning. The permittee s ting comply with those pe	shall ensure that municiparmit requirements, provide	al industrial facilities de routine pollution
	Measures to prevent and minimize and equipment maintenance and/or	contamination of stormwa cleaning. The permittee s ting comply with those pe n routine inspections, and	shall ensure that municipal ermit requirements, providestablish specific frequen	al industrial facilities de routine pollution ncies, schedules, and
Permit Ref. BMP	Measures to prevent and minimize and equipment maintenance and/or subject to NPDES industrial permit prevention training to staff, perform	contamination of stormwa cleaning. The permittee s ting comply with those pe	shall ensure that municipal ermit requirements, provide establish specific frequence.	al industrial facilities de routine pollution ncies, schedules, and D
Ref. BMP	Measures to prevent and minimize and equipment maintenance and/or subject to NPDES industrial permit prevention training to staff, perform documentation.	contamination of stormwa cleaning. The permittee s ting comply with those pe n routine inspections, and	shall ensure that municipal ermit requirements, providestablish specific frequen	al industrial facilities de routine pollution ncies, schedules, and
BMP No.	Measures to prevent and minimize and equipment maintenance and/or subject to NPDES industrial permit prevention training to staff, perform documentation.	contamination of stormwa cleaning. The permittee string comply with those pen routine inspections, and  B  Measurable Goal(s)	shall ensure that municipal requirements, provide establish specific frequences  C  Schedule for	al industrial facilities de routine pollution ncies, schedules, and  D  Annual Reporting
BMP	Measures to prevent and minimize and equipment maintenance and/or subject to NPDES industrial permit prevention training to staff, perform documentation.  A  Description of BMP	contamination of stormwa cleaning. The permittee string comply with those pen routine inspections, and  B  Measurable Goal(s)	shall ensure that municipal requirements, provide establish specific frequences  C  Schedule for	al industrial facilities de routine pollution ncies, schedules, and  D  Annual Reporting
BMP No.	Measures to prevent and minimize and equipment maintenance and/or subject to NPDES industrial permit prevention training to staff, perform documentation.  A  Description of BMP  Vehicle and Equipment Cleaning	contamination of stormwa cleaning. The permittee string comply with those pen routine inspections, and  B  Measurable Goal(s)	chall ensure that municipal crimit requirements, provide establish specific frequences and the control of the c	al industrial facilities de routine pollution ncies, schedules, and  D  Annual Reporting Metric
BMP	Measures to prevent and minimize and equipment maintenance and/or subject to NPDES industrial permit prevention training to staff, perform documentation.  A  Description of BMP  Vehicle and Equipment Cleaning  Prevent or Minimize	contamination of stormwa cleaning. The permittee string comply with those pen routine inspections, and  B  Measurable Goal(s)  1. Establish Standard	chall ensure that municipal ermit requirements, provide establish specific frequences and the control of the co	al industrial facilities de routine pollution ncies, schedules, and  D  Annual Reporting Metric
BMP No.	Measures to prevent and minimize and equipment maintenance and/or subject to NPDES industrial permit prevention training to staff, perform documentation.  A  Description of BMP  Vehicle and Equipment Cleaning  Prevent or Minimize  Contamination of Stormwater  Runoff from all areas used for	contamination of stormwa cleaning. The permittee string comply with those pen routine inspections, and  B  Measurable Goal(s)  1. Establish Standard Operating Procedure	chall ensure that municipal ermit requirements, provide establish specific frequences and the control of the co	al industrial facilities de routine pollution ncies, schedules, and  D  Annual Reporting Metric
BMP No.	Measures to prevent and minimize and equipment maintenance and/or subject to NPDES industrial permit prevention training to staff, perform documentation.  A  Description of BMP  Vehicle and Equipment Cleaning  Prevent or Minimize  Contamination of Stormwater	contamination of stormwa cleaning. The permittee string comply with those pen routine inspections, and  B  Measurable Goal(s)  1. Establish Standard Operating Procedure for containing and	chall ensure that municipal ermit requirements, provide establish specific frequences and the control of the co	al industrial facilities de routine pollution ncies, schedules, and  D  Annual Reporting Metric
BMP No.	Measures to prevent and minimize and equipment maintenance and/or subject to NPDES industrial permit prevention training to staff, perform documentation.  A  Description of BMP  Vehicle and Equipment Cleaning  Prevent or Minimize  Contamination of Stormwater  Runoff from all areas used for Vehicle and Equipment Cleaning.	contamination of stormwa cleaning. The permittee string comply with those pen routine inspections, and  B  Measurable Goal(s)  1. Establish Standard Operating Procedure for containing and disposing of vehicle	chall ensure that municipal ermit requirements, provide establish specific frequences and the control of the co	al industrial facilities de routine pollution ncies, schedules, and  D  Annual Reporting Metric
BMP No.	Measures to prevent and minimize and equipment maintenance and/or subject to NPDES industrial permit prevention training to staff, perform documentation.  A  Description of BMP  Vehicle and Equipment Cleaning  Prevent or Minimize  Contamination of Stormwater  Runoff from all areas used for  Vehicle and Equipment Cleaning.  Wash water can be directed to the sanitary sewer or to vegetated areas. Where cleaning operations	B  Measurable Goal(s)  1. Establish Standard Operating Procedure for containing and disposing of vehicle and equipment wash water. The procedures will be defined	chall ensure that municipal ermit requirements, provide establish specific frequences and the control of the co	al industrial facilities de routine pollution ncies, schedules, and  D  Annual Reporting Metric
Ref. BMP No.	Measures to prevent and minimize and equipment maintenance and/or subject to NPDES industrial permit prevention training to staff, perform documentation.  A  Description of BMP  Vehicle and Equipment Cleaning  Prevent or Minimize  Contamination of Stormwater  Runoff from all areas used for Vehicle and Equipment Cleaning.  Wash water can be directed to the sanitary sewer or to vegetated areas. Where cleaning operations cannot be performed as described	B  Measurable Goal(s)  1. Establish Standard Operating Procedure for containing and disposing of vehicle and equipment wash water. The procedures	chall ensure that municipal ermit requirements, provide establish specific frequences and the control of the co	al industrial facilities de routine pollution ncies, schedules, and  D  Annual Reporting Metric
Ref. BMP No.	Measures to prevent and minimize and equipment maintenance and/or subject to NPDES industrial permit prevention training to staff, perform documentation.  A  Description of BMP  Vehicle and Equipment Cleaning  Prevent or Minimize  Contamination of Stormwater  Runoff from all areas used for  Vehicle and Equipment Cleaning.  Wash water can be directed to the sanitary sewer or to vegetated areas. Where cleaning operations cannot be performed as described above and when operations are	B  Measurable Goal(s)  1. Establish Standard Operating Procedure for containing and disposing of vehicle and equipment wash water. The procedures will be defined through the facilities O&M plan.	chall ensure that municipal ermit requirements, provide establish specific frequences and the specific frequences are considered by the specific frequences	al industrial facilities de routine pollution ncies, schedules, and  D  Annual Reporting Metric  1. See BMP 46
BMP No.	Measures to prevent and minimize and equipment maintenance and/or subject to NPDES industrial permit prevention training to staff, perform documentation.  A  Description of BMP  Vehicle and Equipment Cleaning  Prevent or Minimize  Contamination of Stormwater  Runoff from all areas used for  Vehicle and Equipment Cleaning.  Wash water can be directed to the sanitary sewer or to vegetated areas. Where cleaning operations cannot be performed as described above and when operations are performed in the vicinity of a	B  Measurable Goal(s)  1. Establish Standard Operating Procedure for containing and disposing of vehicle and equipment wash water. The procedures will be defined through the facilities O&M plan. 2. Provide routine	chall ensure that municipal ermit requirements, provide establish specific frequences and the control of the co	al industrial facilities de routine pollution ncies, schedules, and  D  Annual Reporting Metric
BMP	Measures to prevent and minimize and equipment maintenance and/or subject to NPDES industrial permit prevention training to staff, perform documentation.  A  Description of BMP  Vehicle and Equipment Cleaning  Prevent or Minimize  Contamination of Stormwater  Runoff from all areas used for  Vehicle and Equipment Cleaning.  Wash water can be directed to the sanitary sewer or to vegetated areas. Where cleaning operations cannot be performed as described above and when operations are performed in the vicinity of a storm drainage collection system,	B  Measurable Goal(s)  1. Establish Standard Operating Procedure for containing and disposing of vehicle and equipment wash water. The procedures will be defined through the facilities O&M plan. 2. Provide routine vehicle pollution	chall ensure that municipal ermit requirements, provide establish specific frequences and the specific frequences are considered by the specific frequences	al industrial facilities de routine pollution ncies, schedules, and  D  Annual Reporting Metric  1. See BMP 46
	Measures to prevent and minimize and equipment maintenance and/or subject to NPDES industrial permit prevention training to staff, perform documentation.  A  Description of BMP  Vehicle and Equipment Cleaning  Prevent or Minimize  Contamination of Stormwater  Runoff from all areas used for  Vehicle and Equipment Cleaning.  Wash water can be directed to the sanitary sewer or to vegetated areas. Where cleaning operations cannot be performed as described above and when operations are performed in the vicinity of a	B  Measurable Goal(s)  1. Establish Standard Operating Procedure for containing and disposing of vehicle and equipment wash water. The procedures will be defined through the facilities O&M plan. 2. Provide routine	chall ensure that municipal ermit requirements, provide establish specific frequences and the specific frequences are considered by the specific frequences	al industrial facilities de routine pollution ncies, schedules, and  D  Annual Reporting Metric  1. See BMP 46

Table 2	21: Pollution Prevention and Good	Housekeeping BMPs		
	cleaning activities. Any excess standing water shall be removed and properly handled prior to removing the drain cover. OR another acceptable method is installation of a SCM to capture and treat the wash water runoff.  At the time of writing this SWMP, the Town of Gamewell does not own or maintain any municipal vehicles. Should one be purchased, these cleaning procedures will be followed.	3. Wash all municipal light vehicles, Town emergency vehicles, and equipment using an established method listed under this BMP, or utilize a commercial carwash facility that contains and treats wash water where applicable.  4. Record washing procedures. Upon facility inspection (BMP 46) verify that	3. Continuously Permit Years 1-5  4. See BMP 47	3. Number of vehicle washings performed; Was vehicle washing completed per this BMP? Yes, No; Status; Provide quarterly invoices from commercial carwash if utilized. 4. See BMP 47
		documentation is being kept ensuring compliance and said documentation shows the facility is following the best management practices defined in their O&M plan.		
58.	Vehicle and Equipment Maintena	I A	I	
	Measures to ensure that the waste generated by vehicle maintained at municipal facilities (included, but not limited to, oils, any running fluids, batteries, belts and other non-fluid vehicle waste) is	1. Ensure the Town has obtained a NPDES industrial permit for all subject municipal facilities/operations that would require one.	1. Permit Years 1	1. Log of industrial permit/s and status.
	being disposed of properly.  At the time of writing this SWMP, the Town of Gamewell	2. Perform waste inspections during facility inspections (See BMP 47).	2. See BMP 47	2. See BMP 47.

Table 2	1: Pollution Prevention and Good	Housekeeping BMPs		
	does not own any municipal vehicles, maintain municipal vehicles, or have a facility in which pollution could be a risk. Should a vehicle be purchased, or a facility built, this BMP will be followed to minimize vehicle pollutant risk.	3. Provide routine pollution prevention and waste management training to staff.	3. See BMP 50	3. See BMP 50
Permit Ref.	3.7.7: Pavement Management Prometa Measures to reduce pollutants in storm within the permittee's corporate limparticulate and fluid pollutants asso documentation.	ormwater runoff from murnits. The permittee shall in	mplement measures to co	ontrol litter, leaves, debris,
BMP	A	В	С	
			C	D
No.	Description of BMP	Measurable Goal(s)	Schedule for	Annual Reporting
No. 59.	Description of BMP Street and Parking Lot Sweeping	Measurable Goal(s)		
	Street and Parking Lot Sweeping The Town of Gamewell does not have a regular street cleaning service due to having no municipal roads. To supplement this, an outreach approach will be taken to reduce pollutant buildup	1. The municipal parking lots will be swept annually to minimize pollutant build up. Litter/debris pickup is done	Schedule for	Annual Reporting
	Street and Parking Lot Sweeping The Town of Gamewell does not have a regular street cleaning service due to having no municipal roads. To supplement this, an outreach approach will be	1. The municipal parking lots will be swept annually to minimize pollutant build up. Litter/debris	Schedule for Implementation  1. Annually	Annual Reporting Metric  1. Were the municipal parking lots Swept?

annually to reduce pollutant	3. Inspect and report	3. See BMP 51	3. See BMP 51	
buildup.	the condition of right-			
	of-way conveyances			
As part of the MS4 O&M Plan	and infrastructure (as			
(BMP 48), the Town will inspect	part of the MS4 O&M			
right-of-way	Plan BMP 48 & 51) to			
conveyances/infrastructure and	reduce pollutant load			
will report findings to the	from non-municipal			
County/DOT to reduce the	roads.		1.77	
pollutant load generated by non-	4. Develop and	4. Annually	4. Number of street	
municipal roads.	distribute educational	D 1.77 1.5	pollution flyers	
	flyers regarding street	Permit Years 1-5	distributed.	
	runoff pollution to			
	help supplement street			
	cleanings by reducing pollutant load			
	generated by the			
	Towns			
	residents/businesses.			
Litter Management				
Collect litter in public areas and	1. The municipal	1. Continuous	1. Number of	
parking lots to reduce negative	parking lot is cleaned		employees and/or	
impacts on water quality.	on an as needed basis,	Permit Years 1-5	contractors	
	at minimum removing		responsible;	
	litter weekly. Public			
	waste receptacles are		Number of trash bags	
	serviced weekly.		used.	
	2. All other litter	2. Annually	2. Number of litter	
	collection is performed	D 1.77 1.5	pick up events;	
	utilizing available staff	Permit Years 1-5	W 1 4 C 1	
	or community		Weight of trash	
	volunteers.		collected/disposed of	
			for each event	
			(pounds);	
			Number of staff and/	
			volunteers.	

Table 2	1: Pollution Prevention and Good l	Housekeeping BMPs		
	The Town of Gamewell does not have a leaf pick up service, to supplement this an educational approach will be taken alongside including leaf management procedures in the MS4 O&M plan (BMP 48).	1. Leaves are disposed of by individual property owners. Leaves collected on town property will be bagged and properly disposed of.	1. Annually Permit Years 1-5	1. Number of bags Town disposed of.
	Should issues arise from this approach, further measures/revisions to the MS4 O&M plan shall be made to address said issues.	2. Educational materials will be developed and distributed at Town Hall to educate the residents/businesses on leaf litter and yard debris impacts on stormwater quality.	2. Annually Permit Years 1-5	2. Number of leaf litter/yard waste flyers distributed.
(2)	Waling Dalladard Managara	3. Review MS4 O&M Plan (BMP 49). If leaf/yard debris issues have arisen, revise plan to address shortcomings.	3. See BMP 49	3. See BMP 49
62.	Vehicle Pollutant Management  Measures to prevent and minimize contamination of stormwater runoff from vehicle pollutants following an accident.  The Town of Gamewell relies on Caldwell County for its	1. Train first responders for minimizing, collecting and disposing of fluids and other vehicular pollutants following an accident.	1. Annually Permit Years 1-5	1. Number of first responders (staff) trained and date of training.
	emergency services. As such, trainings will be held for first responders.	2. Continue equipping the first responder	2. Annually Permit Years 1-5	2. Amount of materials used/replaced in kits.
		3. Public Education to include information about vehicle leaks in distributed materials and other educational resources.	3. Annually Permit Years 1-5	3. Number of vehicle pollution educational materials handed out.

Table 21: Pollution Prevention and Good Housekeeping BMPs						
		4. Illicit Discharge enforcement for	4. Annually	4. Number of vehicle IDDE issues		
		significant vehicle leaks from parked cars.	Permit Years 1-5	documented; number of vehicle IDDE issues enforced/corrected.		