

Stormwater Management Plan
Town of Lewisville
NCS000494

August 1, 2023

Table of Contents

PART 1: INTRODUCTION.....	1
PART 2: CERTIFICATION.....	2
PART 3: MS4 INFORMATION.....	3
3.1 Permitted MS4 Area.....	3
3.2 Existing MS4 Mapping.....	4
3.3 Receiving Waters.....	5
3.4 MS4 Interconnection.....	5
3.5 Total Maximum Daily Loads (TMDLs).....	6
3.6 Endangered and Threatened Species and Critical Habitat.....	6
3.7 Industrial Facility Discharges.....	6
3.8 Non-Stormwater Discharges.....	7
3.9 Target Pollutants and Sources.....	8
PART 4: STORMWATER MANAGEMENT PROGRAM ADMINISTRATION.....	9
4.1 Organizational Structure.....	9
4.2 Program Funding and Budget.....	11
4.3 Shared Responsibility.....	12
4.4 Co-Permittees.....	13
4.5 Measurable Goals for Program Implementation.....	14
PART 5: PUBLIC EDUCATION AND OUTREACH PROGRAM.....	15
PART 6: PUBLIC INVOLVEMENT AND PARTICIPATION PROGRAM.....	18
PART 7: ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM.....	20
PART 8: CONSTRUCTION SITE RUNOFF CONTROL PROGRAM.....	23
PART 9: POST-CONSTRUCTION SITE RUNOFF CONTROL PROGRAM.....	25
PART 10: POLLUTION PREVENTION AND GOOD HOUSEKEEPING PROGRAMS.....	30

List of Tables

- Table 1: Summary of MS4 Mapping
- Table 2: Summary of MS4 Receiving Waters
- Table 3: Summary of Approved TMDLs
- Table 4: Summary of Federally Listed Species/Habitat Impacted by Surface Water Quality
- Table 5: NPDES Stormwater Permitted Industrial Facilities
- Table 6: Non-Stormwater Discharges
- Table 7: Summary of Target Pollutants and Sources
- Table 8: Summary of Responsible Parties
- Table 9: Shared Responsibilities
- Table 10: Co-Permittee Contact Information
- Table 11: Program Implementation BMPs
- Table 12: Summary of Target Pollutants & Audiences
- Table 13: Public Education and Outreach BMPs
- Table 14: Public Involvement and Participation BMPs
- Table 15: Illicit Discharge Detection and Elimination BMPs
- Table 16: Qualifying Alternative Program Components for Construction Site Runoff Control Program
- Table 17: Construction Site Runoff Control BMPs
- Table 18: Qualifying Alternative Program(s) for Post-Construction Site Runoff Control Program
- Table 19: Summary of Existing Post-Construction Program Elements
- Table 20: Post Construction Site Runoff Control BMPs
- Table 21: Pollution Prevention and Good Housekeeping BMPs

PART 1: INTRODUCTION

The purpose of this Stormwater Management Plan (SWMP) is to establish and define the means by which the Town of Lewisville 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 Lewisville 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 NCS000494, 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 Lewisville and located within the corporate limits of the Town of Lewisville.

In preparing this SWMP, the Town of Lewisville 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.

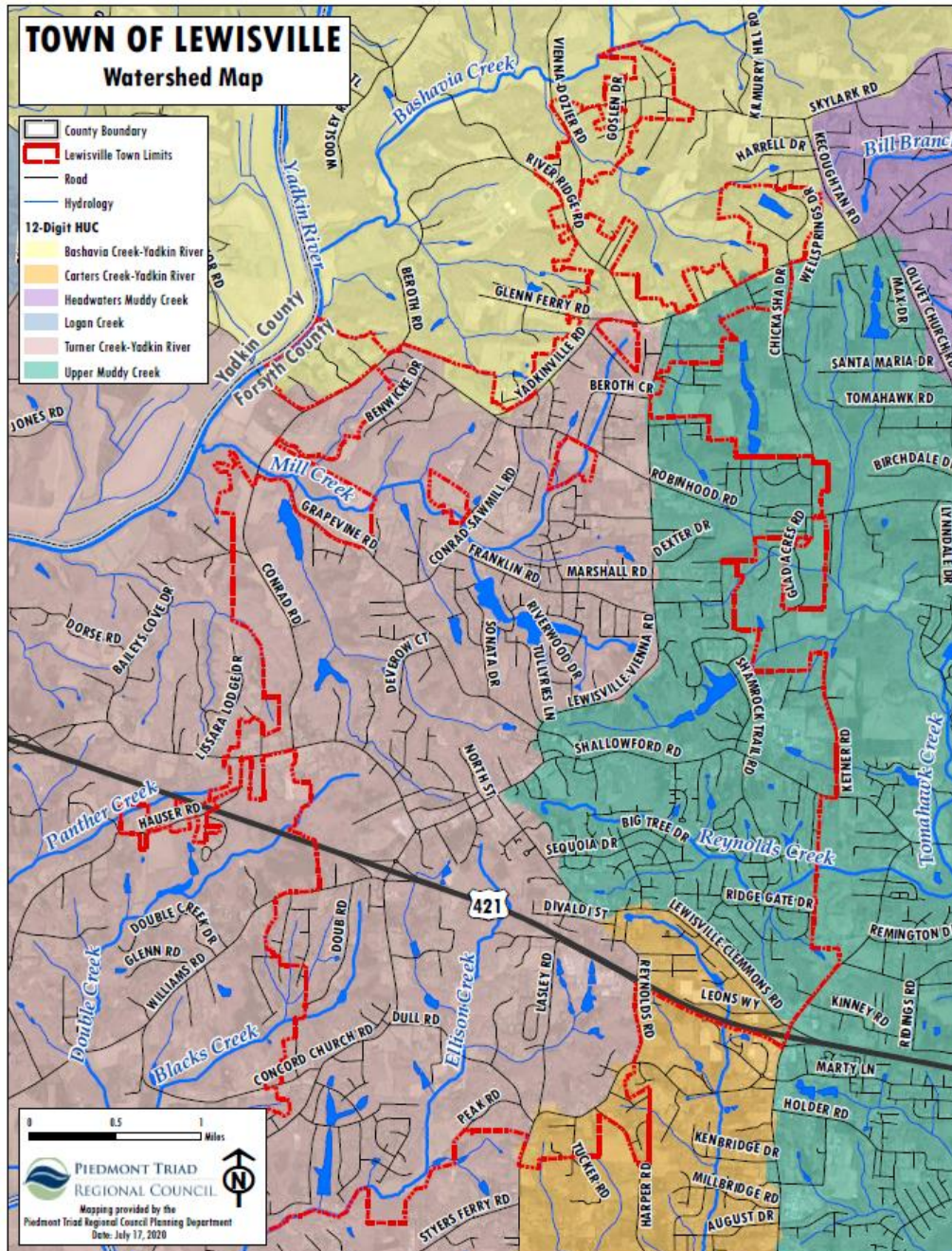
- I am a ranking elected official.
- I am a principal executive officer for the permitted MS4.
- I am a duly authorized representative for the permitted MS4 and have attached the authorization made in writing by a principal executive officer or ranking elected official which specifies me as (*check one*):
 - A specific individual having overall responsibility for stormwater matters.
 - A specific position having overall responsibility for stormwater matters.

<i>Signature:</i>	
<i>Print Name:</i>	
<i>Title:</i>	
Signed this day of 20 .	

PART 3: MS4 INFORMATION

3.1 Permitted MS4 Area

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



3.2 Existing MS4 Mapping

The current MS4 mapping includes stormwater inflows, stormwater manholes, stormwater junction boxes, culvert drain pipes, stormwater discharges, and settling basins. The MS4 area was mapped in 2012 and 2020 and is being updated in 2023-2024 to include previously unmapped areas. Stormwater inflows include information on material, diameter/box size, depth, and ground cover. Culvert drain pipes include information on diameter, box size, material, ground cover, and length. Stormwater discharges include information on material, diameter/box size, ground cover, and receiving stream. The stormwater discharges mapped include outfalls, but specific classification of major outfalls versus all other points of discharge has not occurred.

A link to the public MS4 GIS map can be found here:

<https://ptrc.maps.arcgis.com/apps/PublicInformation/index.html?appid=15ea83ba0e2d4157a819882c12dd7f45>

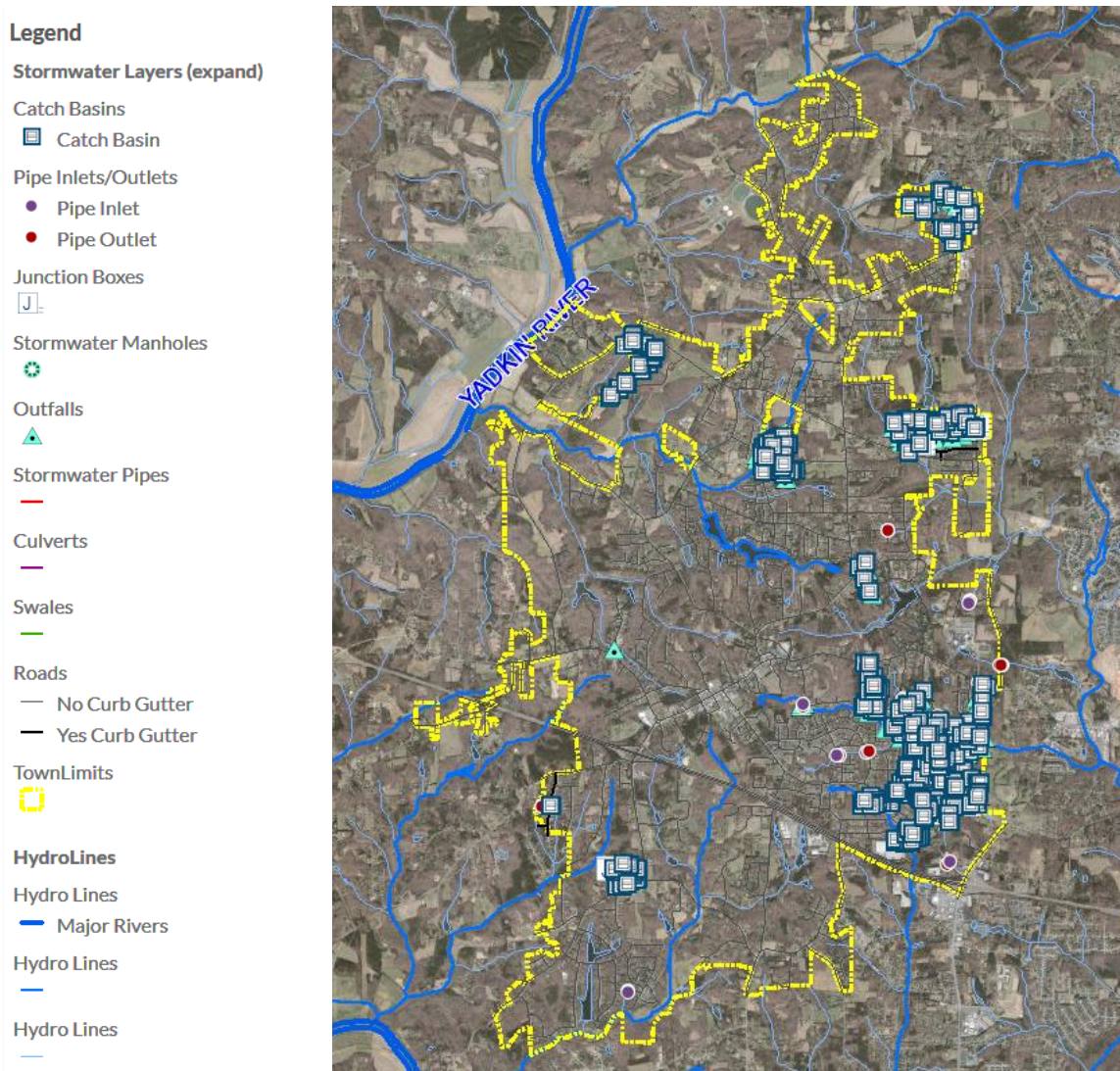


Table 1: Summary of Current MS4 Mapping

Percent of MS4 Area Mapped	60	%
No. of Major Outfalls* Mapped	13	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 Lewisville MS4 is located within the Yadkin-Pee Dee 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:

- [Waterbody Classification Map](#)
- [Impaired Waters and TMDL Map](#)
- Most recent NCDEQ Final [303\(d\) List](#)

Table 2: Summary of MS4 Receiving Waters

Receiving Water Name	Stream Index / AU Number	Water Quality Classification	303(d) Listed Parameter(s) of Interest
Yadkin River	12-(80.7)	WS-IV	Fecal Coliform (recreation)
Mill Creek	12-82	WS-IV	None listed
Shallow Ford Lakes	12-82-1	WS-IV	None listed
Panther Creek	12-87-(0.4)	C	None listed
Double Creek	12-87-1-(0.4)	C	None listed
Blacks Creek	12-87-1-1	WS-IV	None listed
Ellison Creek	12-88-(0.4)	C	None listed
Ellison Creek	12-88-(0.7)	WS-IV	None listed
Blanket Creek	12-90-(1)	C	None listed
Reynolds Creek	12-94-9	C	Ecological/biological integrity benthos

3.4 MS4 Interconnection

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

3.5 Total Maximum Daily Loads (TMDLs)

The TMDL(s) listed in Table 3 below have been approved within the MS4 area, 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.

Table 3: Summary of Approved TMDLs

Water Body Name	TMDL Pollutant(s) of Concern	Stormwater Waste Load Allocation (Y/N)	Water Quality Recovery Program (Y/N)
Yadkin River Basin: Muddy Creek and the Yadkin River	Turbidity	N	N

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 [Endangered and Threatened Species and Species of Concern by County for North Carolina Map](#) and [Listed species believe to or known to occur in North Carolina map](#) as provided by the [U.S. Fish and Wildlife Service, 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
<i>Haliaeetus leucocephalus</i>	Bald Eagle	<i>H. leucocephalus</i>	BGPA
<i>Glyptemys muhlenbergii</i>	Bog Turtle	<i>G. muhlenbergii</i>	T (S/A)
<i>Myotis septentrionalis</i>	Northern long-eared bat	<i>M. septentrionalis</i>	T
<i>Alasmidonta varicose</i>	Brook Floater	<i>A. varicose</i>	ARS

3.7 Industrial Facility Discharges

The Lewisville MS4 jurisdictional area does not include any industrial facilities which hold NPDES Industrial Stormwater Permits, as determined from the NCDEQ Maps & Permit Data web page. The Town of Lewisville has a No Exposure Certification for their Public Works facility.

Table 5: NPDES Stormwater Permitted Industrial Facilities

Permit Number	Facility Name
NCGNE1430	Public Works

3.8 Non-Stormwater Discharges

The water quality impacts of non-stormwater discharges have been evaluated by the Town of Lewisville as summarized in Table 6 below. The unpermitted non-stormwater flows listed as incidental do not significantly impact water quality. The Town of Lewisville 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 Lewisville.

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 Lewisville to determine whether they may significantly impact water quality.

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 Lewisville is not aware of other significant water quality issues within the permitted MS4 area. However, the Town has identified other pollutants it will address including litter, yard waste, pet waste, and sediment. These determinations have been made due to citizen complaints, employee investigations, citizen complaints, County inspections, and State water quality testing.

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 each. In addition, the Town of Lewisville has evaluated schools, homeowners and businesses as target audiences that are likely to have significant stormwater impacts.

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
Yard waste	Residential, Commercial	Public Education & Outreach, Public Participation, Pollution Prevention & Good Housekeeping
Pet waste	Residential, sewer, septic, wildlife, illicit discharge	Public Education & Outreach, Illicit Discharge Detection & Elimination
Sediment	Commercial, Construction	Public Education & Outreach, Construction site run-off control
Illicit Discharge	Residential, Commercial, municipal staff	Public Education & Outreach, Illicit Discharge Detection & Elimination, Pollution Prevention & Good Housekeeping

PART 4: STORMWATER MANAGEMENT PROGRAM ADMINISTRATION

4.1 Organizational Structure

The Town of Lewisville Public Works Department is responsible for Public Education & Outreach, Public Involvement & Participation, Illicit Discharge Detection & Elimination, Post-Construction Stormwater Management, and Pollution Prevention/Good Housekeeping for Municipal Operations. Construction Site Runoff Control is delegated to the Winston-Salem/Forsyth County Erosion, Sedimentation and Pollution Control Unit. The Public Works Director is the Stormwater Administrator.

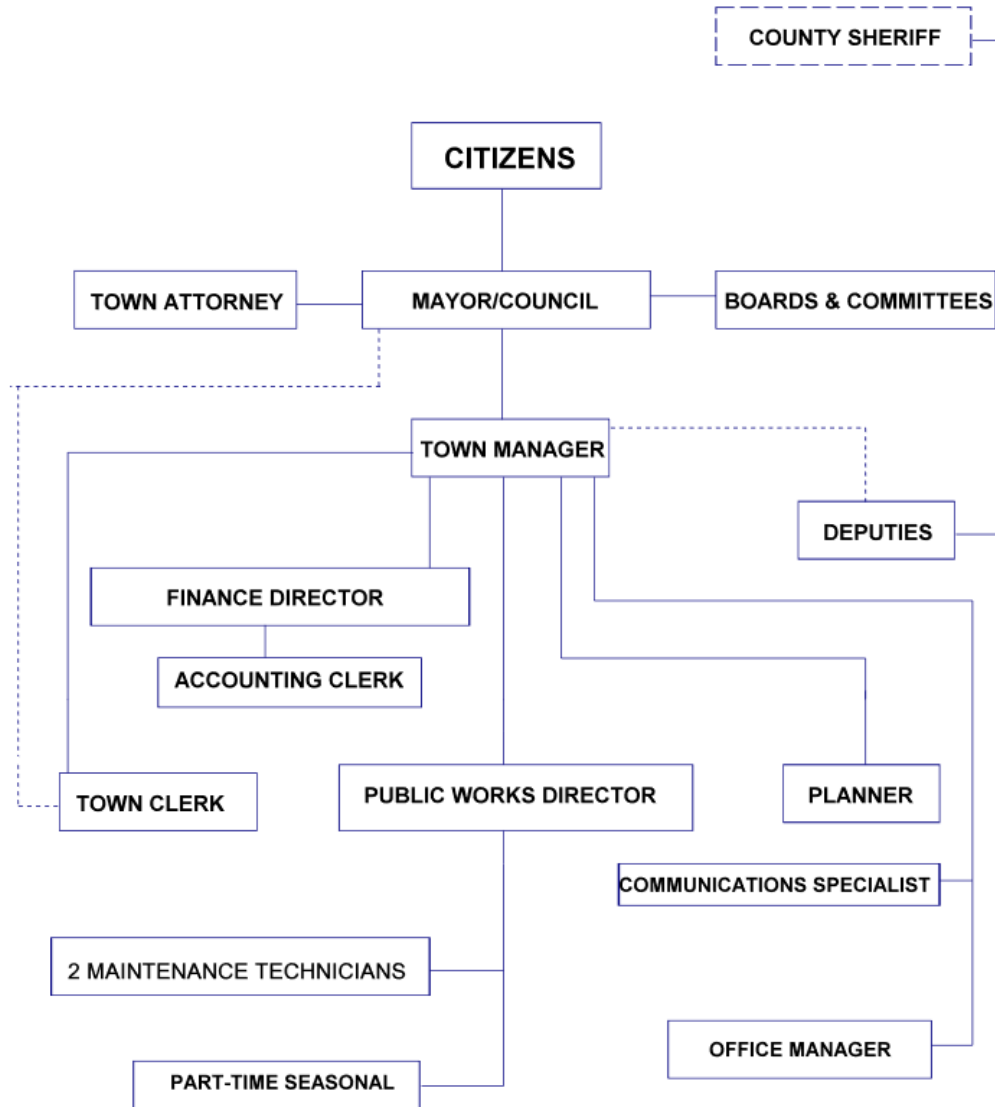


Table 8: Summary of Responsible Parties

SWMP Component	Responsible Position	Staff Name	Department
Stormwater Program Administration	Public Works Director	Jon Hanna	Public Works
SWMP Management	Public Works Director	Jon Hanna	Public Works
Public Education & Outreach	Public Works Director	Jon Hanna	Public Works
Public Involvement & Participation	Public Works Director	Jon Hanna	Public Works
Illicit Discharge Detection & Elimination	Public Works Director	Jon Hanna	Public Works
Construction Site Runoff Control	Winston-Salem/Forsyth County Erosion, Sedimentation and Pollution Control Unit	Matthew Osbourne	Winston-Salem/Forsyth County Erosion, Sedimentation and Pollution Control Unit
Post-Construction Stormwater Management	Public Works Director	Jon Hanna	Public Works
Pollution Prevention/Good Housekeeping for Municipal Operations	Public Works Director	Jon Hanna	Public Works
Municipal Facilities Operation & Maintenance Program	Public Works Director	Jon Hanna	Public Works
Spill Response Program	Public Works Director	Jon Hanna	Public Works
MS4 Operation & Maintenance Program	Public Works Director	Jon Hanna	Public Works
Municipal SCM Operation & Maintenance Program	Public Works Director	Jon Hanna	Public Works
Pesticide, Herbicide & Fertilizer Management Program	Public Works Director	Jon Hanna	Public Works
Vehicle & Equipment Cleaning Program	Public Works Director	Jon Hanna	Public Works
Pavement Management Program	Public Works Director	Jon Hanna	Public Works
Total Maximum Daily Load (TMDL) Requirements	Public Works Director	Jon Hanna	Public Works

4.2 Program Funding and Budget

In accordance with the issued permit, the Town of Lewisville 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.

Funding for the Stormwater Management Program comes predominantly from property taxes. The fiscal year budget below demonstrates the allocation to Stormwater activities for 2019-2020, although salaries for stormwater staff are funded through the Public Works department.

The fiscal analysis completed for 2017 showed a need to increase the stormwater funding which was approved for each year since 2017. This led from a budget of \$84,650 in 2017 to an increased budget of \$238,907 in 2020.

2023 Stormwater Budget

Description	Budget
EDUCATION/PROMOTIONAL	3,620.00
SUPPLIES	500.00
TRAVEL & TRAINING	4,000.00
PRINTING & BINDING	1,200.00
EQUIPMENT RENTAL/LEASE	1,500.00
DUES/SUBSCRIPTIONS	1,580.00
MISC	250.00
EQUIP-NON CAPITAL	1,500.00
CONTRACTED SERVICES	75,980.00
DRAINAGE SYSTEM REPAIRS	60,000.00
CONT.SERV-SWEEP/RESIDENTIAL	22,150.00
CONT SERV-SWEEP/DOWNTOWN	10,896.00
* PARTIAL LISTING SELECTED *	183,176.00

4.3 Shared Responsibility

The Town of Lewisville will share the responsibility to implement portions of the following minimum control measures, which are at least as stringent as the corresponding NPDES MS4 Permit requirement. The Town of Lewisville 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 Lewisville nor the other entity fully performs the permit obligation. Table 9 below summarizes who will be implementing the component, what the component program is called, the specific SWMP BMP or permit requirement that is being met by the shared responsibility, and whether or not a legal agreement to share responsibility is in place.

Table 9: Shared Responsibilities

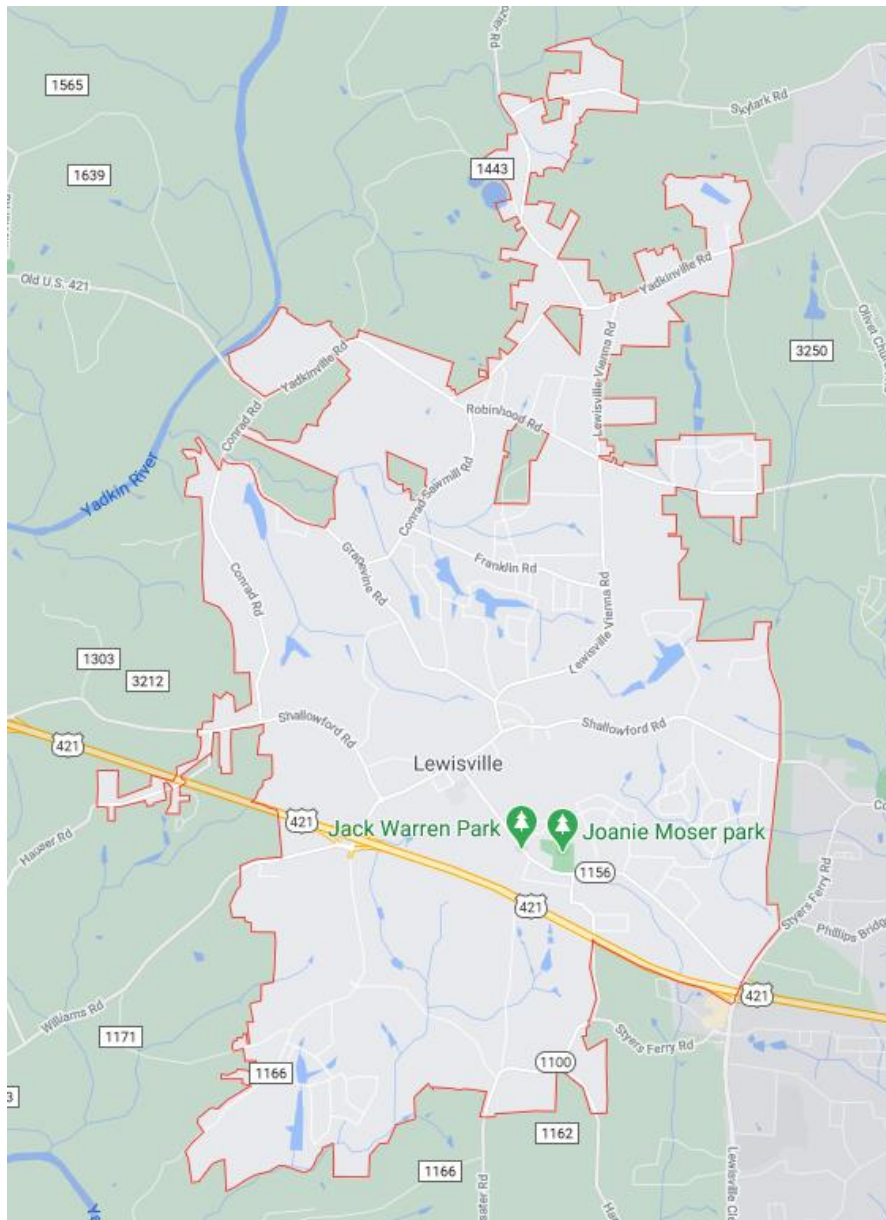
SWMP BMP or Permit Requirement	Implementing Entity & Program Name	Legal Agreement (Y/N)
Construction Site Runoff Control	Winston-Salem/Forsyth County Erosion, Sedimentation and Pollution Control Unit	Y

4.4 Co-Permittees

The are no other entities applying for co-permittee status under the NPDES MS4 permit number NCS000494 for the Town of Lewisville. Table 10 summarizes contact information for each co-permittee.

Table 10: Co-Permittee Contact Information

Co-Permittee MS4 Name	Contact Person	Phone & E-Mail	Interlocal Agreement (Y/N)
N/A			



4.5 Measurable Goals for Program Implementation

The Town of Lewisville will manage and report the following Best Management Practices (BMPs) for the implementation of the Stormwater Management Program.

Table 11: Program Implementation BMPs				
Permit Ref.	2.1.1: Adequate Funding and Staffing The permittee shall maintain adequate funding and staffing to implement and manage provisions of the SWMP and meet all requirements of the permit.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
1.	Adequate Funding			
	Perform a fiscal analysis to ensure adequate program funding and fully fund the stormwater program and meet all permit requirements.	1. Complete a fiscal gap analysis	1. Once, permit year 1	1. Adequate/Inadequate
Permit Ref.	2.1.2, 2.2.2, and Part 4: Annual Self-Assessment Measures to evaluate the performance and effectiveness of the SWMP program components at least annually. Results shall be used by the permittee to modify the program components as necessary to accomplish the intent of the Stormwater Program. The self-assessment reporting period is the fiscal year (July 1 – June 30).			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
2.	Annual Self-Assessment			
	Evaluate the performance and effectiveness of the program components at least annually. Results shall be used to modify the program components as necessary to accomplish the intent of the Stormwater Program.	1. Prepare, conduct and document an annual evaluation of the program components.	1. Annually Permit Years 1 – 5	1. Yes/No
3.	Written Procedures			
	Develop and maintain written procedures for implementing the six minimum measures. Documents include the MS4 O&M Program Plan, MS4 SCM O&M Program Plan, and Illicit Discharge Detection and Elimination Program Plan.	1. Develop all required written procedures.	1. Permit year 1	1. Yes/No
		2. Review written programs and update as needed	2. Permit years 2-5	2. Yes/No

Permit Ref.	1.6: Permit Renewal Application Measures to submit a permit renewal application prior to the expiration date of the NPDES MS4 permit.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
4.	Permit Renewal Application			
	Submit a permit renewal application and Draft SWMP no later than 180 prior to permit expiration.	1. Draft SWMP applicable to the proceeding 5 years following permit re-issuance.	1. Permit Year 5	1. Yes/No
		2. Certify the stormwater permit renewal application (Permit renewal application form and Draft SWMP for the next 5-year permit cycle) and submit to NCDEQ at least 180 days prior to permit expiration.	2. Permit Year 5	2. Date of permit renewal application submittal

PART 5: PUBLIC EDUCATION AND OUTREACH PROGRAM

The Town of Lewisville 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. This will be implemented both locally and/or through a cooperative agreement as deemed necessary.

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 Lewisville is required to inform businesses and the general public of the hazards associated with illicit discharges, illegal dumping and improper disposal of waste.

Table 12: Summary of Target Pollutants & Audiences

Target Pollutants/Sources	Target Audience(s)
Litter	General Public, residential and commercial property owners, school-aged children
Nitrogen, phosphorus and other nutrients and yard waste	Residents, HOA’s, landscaping companies, and commercial property owners
Pet waste	Residents, HOA’s, and the general public
Illicit discharges and connections	General public, businesses, municipal employees
Illegal dumping	General public, businesses, municipal employees
Excess sediment	Citizens of all ages, businesses, building contractors, municipal employees

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

Table 13: Public Education and Outreach BMPs				
Permit Ref.	3.2.2 and 3.2.4: Outreach to Targeted Audiences Measures to identify the specific elements and implementation of a Public Education and Outreach Program to share educational materials to the community or conduct equivalent outreach activities about the impacts of stormwater discharges on water bodies and how the public can reduce pollutants in stormwater runoff. The permittee shall provide educational information to identified target audiences on pollutants/sources identified in table 12 above, and shall document the extent of exposure of each media, event or activity, including those elements implemented locally or through a cooperative agreement.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
5.	Educational Materials			
	The Town will develop and distribute educational materials to target audiences about stormwater pollution, illegal dumping and discharge, litter and other target pollutants. Materials can be developed in-house or through a cooperative agreement.	1. Develop and review existing materials and revise if needed	1. Once, permit year 1	1. Yes/No/NA
6.	Local Events			
	The Town will distribute information about stormwater runoff and pollution to target audiences at local events	1. Distribute stormwater education materials at one public event annually.	1. Annually, permit years 1-5	1. Event date, number of hours event was held
7.	Social and Mass Media Campaigns			
	The town will promote stormwater education through social media, mass media, and newsletter campaigns. This can be completed in-house or through a cooperative agreement.	1. Post educational materials through the Town's Public, Educational, and Government (PEG) channel	1. Quarterly, permit years 1-5	1. Total reach (impressions, ads, clicks, and posts)
		2. Include stormwater education articles in the Town newsletter and distribute through residents' preferred method	2. Quarterly, permit years 1-5	2. Number of newsletters distributed
		3. Distribute information via social and mass media regarding target pollutants, including EPA target pollutants	3. Quarterly permit years 1-5	3. Number of times information was distributed

Table 13: Public Education and Outreach BMPs

Permit Ref.	2.1.7, 3.2.3 and 3.6.5(c): Web Site Measures to provide a web site designed to convey the program’s message(s) and provide online materials including ordinances, or other regulatory mechanisms, or a list identifying the ordinances or other regulatory mechanisms, providing the legal authority necessary to implement and enforce the requirements of the permit and SWMP. The web page shall also provide developers with all relevant post-construction requirements, design standards, checklists and/or other materials.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
8.	Stormwater Website			
	Maintain the Town website to provide stormwater education information including ordinances, construction & post-construction requirements, IDDE, program information and FAQs.	1. Maintain Town website	1. Permit years 1-5	1. Yes/No
Permit Ref.	3.2.5: Stormwater Hotline Measures for a stormwater hotline/helpline for the purpose of public education and outreach.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
9.	Stormwater Hotline			
	Maintain and promote the Stormwater Hotline so that citizens and businesses can call to report pollution concerns and violations and to request stormwater information such as educational events and litter sweeps. Calls can also be made directly to the Stormwater Department.	1. Maintain stormwater hotline	1. Permit years 1-5	1. Yes/No

PART 6: PUBLIC INVOLVEMENT AND PARTICIPATION PROGRAM

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 Lewisville 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 No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
10.	Stormwater Hotline			
	Maintain and promote the Stormwater Hotline so that citizens and businesses can call to report pollution concerns and violations and to request stormwater information such as educational events and litter sweeps. Calls can also be made directly to the Stormwater Department.	1. Maintain stormwater hotline	1. Permit years 1-5	1. Yes/No
11.	Stormwater Website			
	Maintain the Town website to provide stormwater education information including ordinances, construction & post-construction requirements, IDDE, program information and FAQs.	1. Maintain Town website	1. Permit years 1-5	1. Yes/No

Permit Ref.	3.3.2: Volunteer Opportunities Measures to provide volunteer opportunities designed to promote ongoing citizen participation.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
12.	Annual Litter Clean-up Events			
	Citizens and businesses will be encouraged to participate in community litter clean-up events. On-site education regarding how litter enters and pollutes local waterways will be provided.	1. Identify public areas that need clean-ups.	1. Annually, permit years 1-5	1. Number of areas identified
2. Coordinate clean-ups of public areas		2. Annually, permit years 2-5	2. Date and number of participants	
13.	Storm Drain Marking Program			
	Encourage volunteers to become involved by providing storm drain marking kits at no cost to volunteer groups.	1. Identify priority areas that need storm drain marking	1. Once, permit year 2	1. Number of areas identified
		2. Create storm drain marking kits and promote availability	2. Once, permit year 3	2. Yes/No/Status
3. Provide materials at no cost to volunteer groups		3. Continually, permit year 3-5	3. Number of kits provided; Number of storm drains marked	
14.	Forsyth Creek Week			
	The Town will participate in Forsyth Creek Week so that volunteer opportunities are available to residents, schools, and businesses within the Town's jurisdiction.	1. Participate in Forsyth Creek Week	1. Annually, permit years 1-5	1. Yes/No/Status
2. Provide volunteer activities through the Stormwater Department, Cooperative Extension or Stormwater SMART collaborative		2. Annually, permit years 2-5	2. Number of participants	

PART 7: ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM

The Town of Lewisville 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.

Table 15: Illicit Discharge Detection and Elimination BMPs				
Permit Ref.	3.4.1: MS4 Map Measures to develop, update and maintain a municipal storm sewer system map including stormwater conveyances, flow direction, major outfalls and waters of the United States receiving stormwater discharges.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
15.	MS4 Map for non-curb and gutter areas			
	Continue development of MS4 map utilizing in-house staff and equipment, professional stormwater mapping firm, or the Piedmont Triad Regional Council to develop a storm sewer map of the non-curb and gutter areas within the Town’s jurisdiction. Map will not include DOT stormwater conveyances and major outfalls.	1. Review existing map and determine additional areas that need mapping	1. Once, permit year 1	1. Yes/No
		2. Identify specific staff or partner to continue mapping throughout the Town’s jurisdiction	2. Once, permit year 1	2. Yes/No
		3. Update existing MS4 map with additional map points	3. Continually, permit years 2-4	3. Yes/No
4. Complete map for all areas within the Town’s jurisdiction		4. Once, permit year 5	4. Yes/No	
16.	Update MS4 Map			
	Continually update the existing MS4 map as new development occurs. Utilize drawings and plans submitted by engineers and developers to update the existing map.	1. Add new data points as new developments and neighborhoods are built	1. Continually, permit years 1-5	1. Yes/No

Table 15: Illicit Discharge Detection and Elimination BMPs

Permit Ref.	3.4.2: Regulatory Mechanism			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
17.	Maintain IDDE Ordinance			
	The IDDE Ordinance charges the Stormwater Administrator or designee with implementing the IDDE program. The ordinance provides the legal authority to prohibit, detect, and eliminate illicit connections and discharges, illegal dumping and spills into the MS4. Update ordinance if required	1. Review ordinances and update if revision is required to maintain legal authority	1. Once, permit year 1	1. Yes/No
Permit Ref.	3.4.3: IDDE Plan			
	Measures to maintain and implement 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. The plan shall provide standard procedures and documentation to: <ul style="list-style-type: none"> a) Locate priority areas likely to have illicit discharges, b) Conduct routine dry weather outfall inspections, c) Identify illicit discharges and trace sources, d) Eliminate the source(s) of an illicit discharge, and e) Evaluate and assess the IDDE Program. 			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
18.	IDDE Plan			
	Develop and implement a written IDDE Plan to detect and address illicit discharges, illegal dumping, and non-stormwater discharges.	1. Develop a written IDDE Plan	1. Once, permit year 1	1. Yes/No
		2. Locate priority areas likely to have illicit discharges	2. Once, permit year 1	2. Yes/No
		3. Conduct routine dry weather outfall inspections for 20% of the known outfalls	3. Annually, years 1-5	3. Yes/No
		4. Identify and eliminate illicit discharges	4. Annually, permit years 1-5	4. Number of reports received, number of investigations, and number of illicit discharges detected
		5. Evaluate IDDE plan and update as necessary	5. Annually, permit years 2-5	5. Yes/No

Table 15: Illicit Discharge Detection and Elimination 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 No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
19.	Staff Training			
	Develop an IDDE training program for staff and contractors or provide training through a cooperative agreement.	1. Identify or develop an IDDE Training program	1. Once, permit year 1	1. Yes/No
		2. Provide training to staff and contractors that may observe an illicit discharge	2. Annually, permit years 2-5	2. Number of attendees
20.	Stormwater Hotline			
	Maintain and promote the Stormwater Hotline so that citizens and businesses can call to report pollution concerns and violations and to request stormwater information such as educational events and litter sweeps. Calls can also be made directly to the Stormwater Department.	1. Maintain stormwater hotline	1. Permit years 1-5	1. Yes/No
21.	Stormwater Website			
	Maintain the Town website to provide stormwater education information including ordinances, construction & post-construction requirements, IDDE, program information and FAQs.	1. Maintain Town website	1. Permit years 1-5	1. Yes/No

PART 8: CONSTRUCTION SITE RUNOFF CONTROL PROGRAM

In accordance with 15A NCAC 02H .0153, the Town of Lewisville relies upon the North Carolina Sedimentation Pollution Control Act (SPCA) of 1973 as 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
3.5.1 - 3.5.4	Winston-Salem/Forsyth County Erosion, Sedimentation and Pollution Control Unit Delegated SPCA Program*	15A NCAC Chapter 04, NCDEQ Approved Delegation	Winston-Salem/Forsyth County Erosion, Sedimentation and Pollution Control Unit

* The local delegated SPCA Program ordinance(s)/regulatory mechanism(s) can be found at:

- <https://www.cityofws.org/733/Erosion-Control>
- https://library.municode.com/nc/lewisville/codes/unified_development_ordinance?nodeId=CH_CENOR_ARTIVERCO_4-18ERSECOPL
- https://library.municode.com/nc/forsyth_county/codes/code_of_ordinances?nodeId=CH19SO_WAREMAMA_ARTIINGE_S19-2ENRELAPESOWAREMAMA
- https://library.municode.com/nc/forsyth_county/codes/code_of_ordinances?nodeId=CH19SO_WAREMAMA

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

Table 17: Construction Site Runoff Control BMPs

BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
Permit Ref.	3.5.5: Waste Management Measures to require construction site operators to control waste such as discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impact to water quality.			
22.	Construction site waste management control is enforced by Forsyth County/Winston Salem through Ch 7, Article II, Sec 7.15-7.18; Chapter 19. Article I			
23.	Municipal Staff Training			
	Train municipal staff who receive calls from the public on the protocols for referral and tracking of construction site runoff control complaints.	1. Train municipal staff on proper handling of construction site runoff control complaints	1. Annually, permit years 1-5	1. Number of staff trained
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 No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
24.	Stormwater Hotline			
	Maintain and promote the Stormwater Hotline so that citizens and businesses can call to report pollution concerns and violations and to request stormwater information such as educational events and litter sweeps. Calls can also be made directly to the Stormwater Department.	1. Maintain stormwater hotline	1. Continually, permit years 1-5	1. Yes/No
25.	Stormwater Website			
	Maintain the Town website to provide stormwater education information including ordinances, construction & post-construction requirements, IDDE, program information and FAQs.	1. Maintain Town website	1. Permit years 1-5	1. Yes/No

PART 9: POST-CONSTRUCTION SITE RUNOFF CONTROL PROGRAM

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 Lewisville 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 Lewisville implements the following State post-construction program requirements, which satisfy the NPDES Phase II MS4 post-construction site runoff control requirements as Qualifying Alternative Programs (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 .0620 - .0624	Chapter C, Article III, 3-3.1

The Town of Lewisville has existing requirements other than Qualifying Alternative Program(s) for implementation of the NPDES Phase II MS4 post-construction program requirements. These existing requirements are codified in local ordinance(s), and implementation is further defined in guidance, manuals and/or standard operating procedure(s) as summarized in Table 19 below.

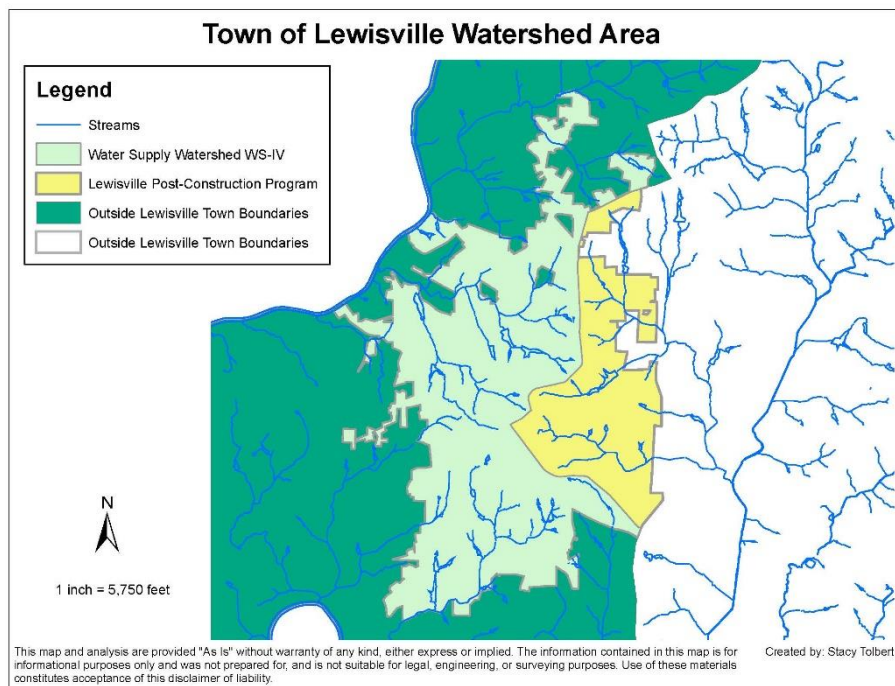


Table 19: Summary of Existing Post-Construction Program Elements

Permit Requirements for Plan Review and Approval	Municipal Ordinance/Code Reference(s) and/or Document Title(s)	Date Adopted
3.6.2(a) Authority	Chapter C, Article III, 3-1.4	6/11/09
3.6.3(a) & 15A NCAC 02H.0153(c) Federal, State & Local Projects	Chapter C, Article III, 3-3.1	6/11/09
3.6.3(b) Plan Review	Chapter C, Article III, 3-2.2	6/11/09
3.6.3(c) O&M Agreement	Chapter C, Article III, 3-9.2	6/11/09
3.6.3(d) O&M Plan	Chapter C, Article III, 3-5.1(B)	6/11/09
3.6.3(e) Deed Restrictions/Covenants	Chapter C, Article III, 3-9.5	6/11/09
3.6.3(f) Access Easements	Chapter C, Article III, 3-9.5	6/11/09
Permit Requirements for Inspections and Enforcement	Municipal Ordinance/Code Reference(s) and/or Document Title(s)	Date Adopted
3.6.2(b) Documentation	Chapter C, Article III, 3-9.3	6/11/09
3.6.2(c) Right of Entry	Chapter C, Article III, 3-9.3	6/11/09
3.6.4(a) Pre-CO Inspections	Chapter C, Article III, 3-2.2(A)(4)	6/11/09
3.6.4(b) Compliance with Plans	Chapter C, Article III, 3-9.1(A)	6/11/09
3.6.4(c) Annual SCM Inspections	Chapter C, Article III, 3-9.1(B)	6/11/09
3.6.4(d) Low Density Inspections		
3.6.4(e) Qualified Professional	Chapter C, Article III, 3-9.1(B)	6/11/09
Permit Requirements for Fecal Coliform Reduction	Municipal Ordinance/Code Reference(s) and/or Document Title(s)	Date Adopted
3.6.6(a) Pet Waste		
3.6.6(b) On-Site Domestic Wastewater Treatment	Chapter C, Article III, 3-5.2(I)	6/11/09

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.	3.6.5(a), 3.6.5(b), and 4.1.3: Minimum Post-Construction Reporting Requirements 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 No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
26.	Standard Reporting			
	Implement standardized tracking, documentation, inspections and reporting mechanisms to compile appropriate data for the annual self-assessment process. Data shall be provided for each Post-Construction/Qualifying Alternative Program being implemented as listed in Tables 18 and 19.	1. Track number of low density and high density plan reviews performed.	1. Continuously, permit years 1-5	1. Number of plan reviews performed for low density and high density
		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
		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. Number of projects
		4. Track number of SCM and low density inspections performed.	4. Continuously, permit years 1-5	4. Number inspections
		5. Track number and type of enforcement actions taken.	5. Continuously, permit years 1-5	5. Number of enforcement actions issued
Permit Ref.	2.3 and 3.6: Qualifying Alternative Program(s) Measures to develop, implement and enforce additional BMPs in order to comply with the QAP state program requirements.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
27.	This permit requirement is fully met by the existing post-construction program, see references provided in Table 18			
Permit Ref.	3.6.2: Legal Authority Measures to maintain adequate legal authorities through ordinance or other regulatory mechanism to: (a) review designs and proposals for new development and redevelopment to determine whether adequate stormwater control measures will be installed, implemented, and maintained, (b) request information such as stormwater plans, inspection reports, monitoring results, and other information deemed necessary to evaluate compliance with the Post-Construction Stormwater Management Program, and (c) enter private property for the purpose of inspecting at reasonable times any facilities, equipment, practices, or operations related to stormwater discharges to determine whether there is compliance with the Post-Construction Stormwater Management Program.			

Table 20: Post Construction Site Runoff Control BMPs

BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
28.	This permit requirement is fully met by the existing post-construction program, see references provided in Table 19			
Permit Ref.	<p>3.6.3: Plan Review and Approval 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 than 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 that apply within your jurisdiction, (c) Ensure that each project has an Operation and Maintenance Agreement that complies with 15A NCAC 02H .1050(12), (d) Ensure that each project has an Operation and Maintenance Plan that complies with 15A NCAC 02H .1050(13), (e) Ensure that each project has recorded deed restrictions and 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 15A NCAC 02H 1050 (9) and (10).</p>			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
29.	This permit requirement is fully met by the existing post-construction program, see references provided in Table 19			
Permit Ref.	<p>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.</p>			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
30.	This permit requirement is fully met by the existing post-construction program, see references provided in Table 19			

Permit Ref.	3.6.6: Fecal Coliform Reduction 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 No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
31.	Pet waste management			
	Develop a pet waste management ordinance to reduce sources of fecal coliform.	1. Develop a new pet waste management ordinance or revise an existing litter ordinance	1. Once, permit year 1	1. Yes/No/Status
		2. Display ordinance information on local Public, Educational, and Government (PEG) channel	2. Continually, permit years 2-5	2. Number of days ordinance information was posted;
		3. Print ordinance information in Town newsletters	3. Annually, permit years 2-5	3. Number of newsletters distributed with ordinance information
32.	On-site wastewater system			
	This permit requirement is fully met by 15A NCAC 18A.1934, NCG.S. 130A-335(e)			

PART 10: POLLUTION PREVENTION AND GOOD HOUSEKEEPING PROGRAMS

This SWMP provides a comprehensive pollution prevention and good housekeeping strategy for the Town of Lewisville 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 parks 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 Maintenance Program
7. Pavement Management Program

The Town of Lewisville will manage, implement, and report the pollution prevention and good housekeeping BMPs as specified in Table 21 below for each required program.

Table 21: Pollution Prevention and Good Housekeeping BMPs

BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
33.	Inventory of Municipal Facilities			
	Maintain an up-to-date inventory of municipal facilities with potential to generate polluted runoff.	1. Maintain a list of existing Town-owned facilities	1. Continually	1. Yes/No
		2. Verify which Town-owned facilities have the potential to generate polluted runoff	2. Once, permit year 1	2. Number that have the ability to generate runoff
		3. Verify which Town-owned facilities require a NPDES Industrial Permit and which can apply for a no exposure certification	3. Once, permit year 1	3. Yes/No
		4. Verify that no Town-owned facilities require a spill prevention, control, and countermeasure plan (SPCC)	4. Once, permit year 1	4. Yes/No
		5. Update inventory as needed when facilities are added or closed	5. Continually	5. Number of facilities added or removed
34.	Municipal Facilities Operation and Maintenance Program			
	Develop a municipal facilities O&M Program that includes how to perform facility inspections and routine maintenance; establish specific frequencies. The O&M Program shall include an inspection schedule, report documentation, and a tracking system.	1. Develop Municipal Facility O&M program	1. Permit year 2	1. Yes/No
		2. Develop Municipal Facility O&M standard documentation	2. Permit year 2	2. Yes/No
		3. Perform inspections of all facilities on the municipally owned inventory list that have the potential to generate polluted runoff, including those with a NPDES industrial permit and/or no exposure exemption	3. Annually, or per O&M specifications, permit years 2-5	3. Number of facilities inspected and number of corrective actions noted

Table 21: Pollution Prevention and Good Housekeeping BMPs

		4. Perform maintenance and repairs as determined in the O&M Program, and as determined based on corrective actions noted during inspections. Document as required in the O&M Program	4. Continually, years 2-5	4. Yes/No/Status
35.	Staff Training			
	Develop and implement a municipal facilities O&M training program for staff and contractors or provide training through a cooperative agreement.	1. Identify or develop a municipal facilities O&M training program	1. Once, permit year 2	1. Yes/No/Status
		2. Provide O&M training to staff and/or contractors	2. Annually, permit years 2-5	2. Number of people trained
Permit Ref.	3.7.2: Spill Response Program Measures for facilities and operations that store and/or use materials that have the potential to contaminate stormwater runoff if spilled. The permittee shall maintain written spill response procedures and train staff on spill response procedures.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
36.	Spill Response Plan			
	Maintain a Spill Response Program for all municipal facilities with potential to generate polluted runoff	1. Verify which Town-owned facilities have the potential to generate polluted runoff	1. Once, permit year 1	1. Yes/No
		2. Review Spill Response Program	2. Annually, permit years 2-5	2. Yes/No
37.	Staff Training			
	Develop and implement a spill response training program for staff and contractors or provide training through a cooperative agreement.	1. Identify or develop a spill response training program	1. Once, permit year 1	1. Yes/No
		2. Provide spill response training to staff and contractors	2. Annually, permit years 2-5	2. Number of people trained

Permit Ref.	3.7.3: MS4 Operation and Maintenance Program Measures to minimize pollutants in the stormwater collection system. The permittee shall provide operation and maintenance staff training on stormwater awareness and pollution prevention, perform MS4 inspections, maintain the collection system including catch basins and conveyances; and establish specific frequencies, schedules, and standard documentation.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
38.	MS4 Operation and Maintenance Program			
	Develop a MS4 O&M Program that includes how to perform MS4 inspections and how to maintain the collection system. The O&M Program shall include an inspection schedule, report documentation, and tracking system.	1. Develop MS4 O&M written program and standard documentation	1. Once, permit year 1	1. Yes/No
		2. Perform inspections of the stormwater collection system, with a goal of 25% each year	2. Annually, years 2-5	2. Percent inspected
		3. Develop a maintenance plan to complete needed repairs discovered during routine inspections	3. Annually, years 2-5	3. Yes/No
		4. Identify if there are hotspots/areas that need more frequent inspections and maintenance	4. Annually, years 2-5	4. Yes/No
39.	Staff Training			
	Develop and implement a MS4 O&M training program for staff and contractors or provide training through a cooperative agreement.	1. Identify or develop a MS4 O&M training program	1. Once, permit year 2	1. Yes/No/Status
		2. Provide O&M Training to staff and contractors	2. Annually, permit years 2-5	2. Number of people trained

Permit Ref.	3.7.4: Municipal SCM Operation and Maintenance Program Measures to manage municipally-owned, operated, and/or maintained structural stormwater control measures (SCMs) that are installed for compliance with the permittee’s post-construction program. The permittee shall maintain a current inventory of SCMs, perform SCM inspections and maintenance, and shall establish specific frequencies, schedules, and documentation.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
40.	Inventory of Municipal SCMs			
	Develop and maintain an inventory of all municipally owned SCMs	1. Develop an inventory of Town-owned SCMs	1. Once, permit year 1	1. Yes/No
2. Update the SCM inventory		2. Annually, permit years 2-5	2. Total number of SCMs	
41.	SCM O&M Program			
	Develop a SCM O&M Program that includes SCM inspection and maintenance instructions, inspection frequencies, schedules, and documentation.	1. Develop a O&M written program	1. Once, permit year 1	1. Yes/No
		2. Complete SCM inspections and maintenance according to the O&M Program	2. Annually, permit years 2-5	2. Number of inspections completed
3. Perform repairs and maintenance as identified during inspections		3. Annually, permit years 2-5	3. Yes/No/Partial	

Permit Ref.	3.7.5: Pesticide, Herbicide and Fertilizer Management Program Measures to minimize water quality impacts from the use of landscape chemicals. The permittee shall provide routine pollution prevention and chemical use, storage and handling training, and shall ensure compliance with permits and applicator certifications.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
42.	Pesticide, Herbicide, Fertilizer Management Program			
	Currently, the Town of Lewisville contracts this work out to 3 rd party licensed and certified contractors. If this changes, the Town will develop a Management Program for municipal staff that routinely use pesticides, herbicides, and/or fertilizer.	1. If the Town does not contract this work, develop a Management Plan, including pollution prevention and chemical use, storage and handling training, and permit and certification compliance	1. Beginning the 1 st year after the Town stops contracting this work to a 3 rd party	1. Contracted/Developed
43.	Pesticide, Herbicide, Fertilizer Applicator Training			
	Currently, the Town of Lewisville contracts this work out to 3 rd party licensed and certified contractors. If this changes, the Town will develop a training program for municipal staff that routinely use pesticides, herbicides, and/or fertilizer.	1. Develop or identify a training program, including pollution prevention and chemical use, storage and handling training, and permit and certification compliance	1. Beginning the 1 st year after the Town stops contracting this work to a 3 rd party	1. Contracted/Developed
		2. Provide routine staff training in pollution prevention and chemical use, storage and handling training	2. Annually, beginning the 2 nd year after the Town stops contracting this work to a 3 rd party	2. Date, and number of attendees

Permit Ref.	3.7.6: Vehicle and Equipment Maintenance Program Measures to prevent and minimize contamination of stormwater runoff from areas used for municipal vehicle and equipment maintenance and/or cleaning. The permittee shall ensure that municipal industrial facilities subject to NPDES industrial permitting comply with those permit requirements, provide routine pollution prevention training to staff, perform routine inspections, and establish specific frequencies, schedules, and documentation.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
44.	Vehicle and Equipment Maintenance Program			
	Currently, the Town of Lewisville contracts this work out to 3 rd party vendors. If this changes, the Town will develop a Maintenance Program for municipal vehicles and equipment maintenance	1. Develop or identify a maintenance program to prevent contaminated stormwater runoff from vehicle and equipment maintenance and cleaning areas. Include inspection schedules and documentation	1. Beginning the 1 st year after the Town stops contracting this work to a 3 rd party	1. Report if the Town still contracts this work to a 3 rd party, and if not, report if the training has been developed or not
		2. Provide routine staff training in pollution prevention that includes vehicle maintenance and cleaning areas	2. Annually, beginning the 2 nd year after the Town stops contracting this work to a 3 rd party	2. Report if the Town still contracts this work to a 3 rd party, and if not, report if the training has been provided, the date, and number of attendees
Permit Ref.	3.7.7: Pavement Management Program Measures to reduce pollutants in stormwater runoff from municipally-owned streets, roads, and parking lots within the permittee's corporate limits. The permittee shall implement measures to control litter, leaves, debris, particulate and fluid pollutants associated with vehicles, and establish specific frequencies, schedules, and documentation.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
45.	Leaf and Litter collection			
	Provide street sweeping to control litter leaves, debris, and particulate and dispose of material in an approved landfill	1. Perform monthly street sweeping of 4 miles of curb and gutter streets in the downtown area	1. Monthly, permit years 1-5	1. Number of miles swept
		2. Perform seasonal street sweeping of 28.5 miles of curb and gutter streets in residential areas	2. Annually, permit years 1-5	2. Number of miles swept
		3. Identify hotspots that need more frequent sweeping and increase sweeping as needed	3. Annually, permit years 1-5	3. Number of hotspots identified; Number of miles added to the street sweeping program
46.	Annual Litter Clean-up Events – Accomplished by Public Involvement			