

Stormwater Management Plan
The City of Gastonia
NCS000429

05/07/2024

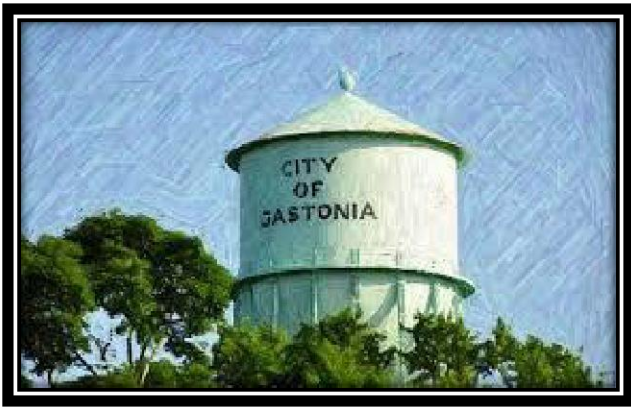


Table of Contents

PART 1: INTRODUCTION	1
PART 2: CERTIFICATION.....	2
PART 3: MS4 INFORMATION	3
3.1 Permitted MS4 Area.....	3
3.2 Existing MS4 Mapping	3
3.3 Receiving Waters	4
3.4 MS4 Interconnection	4
3.5 Total Maximum Daily Loads (TMDLs).....	5
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.....	10
4.1 Organizational Structure.....	10
4.2 Program Funding and Budget.....	12
4.3 Shared Responsibility	12
4.4 Co-Permittees	13
4.5 Measurable Goals for Program Administration	13
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.....	24
PART 9: POST-CONSTRUCTION SITE RUNOFF CONTROL PROGRAM.....	26
PART 10: POLLUTION PREVENTION AND GOOD HOUSEKEEPING PROGRAMS.....	31

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 Administration 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 City of Gastonia 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 City of Gastonia 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 NCS000429, as issued by NCDEQ. This permit covers activities associated with the discharge of stormwater from the MS4 as owned and operated by The City of Gastonia and located within the corporate limits of The City of Gastonia.

In preparing this SWMP, The City of Gastonia 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.

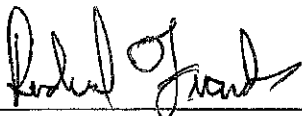
PART 2: CERTIFICATION

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.

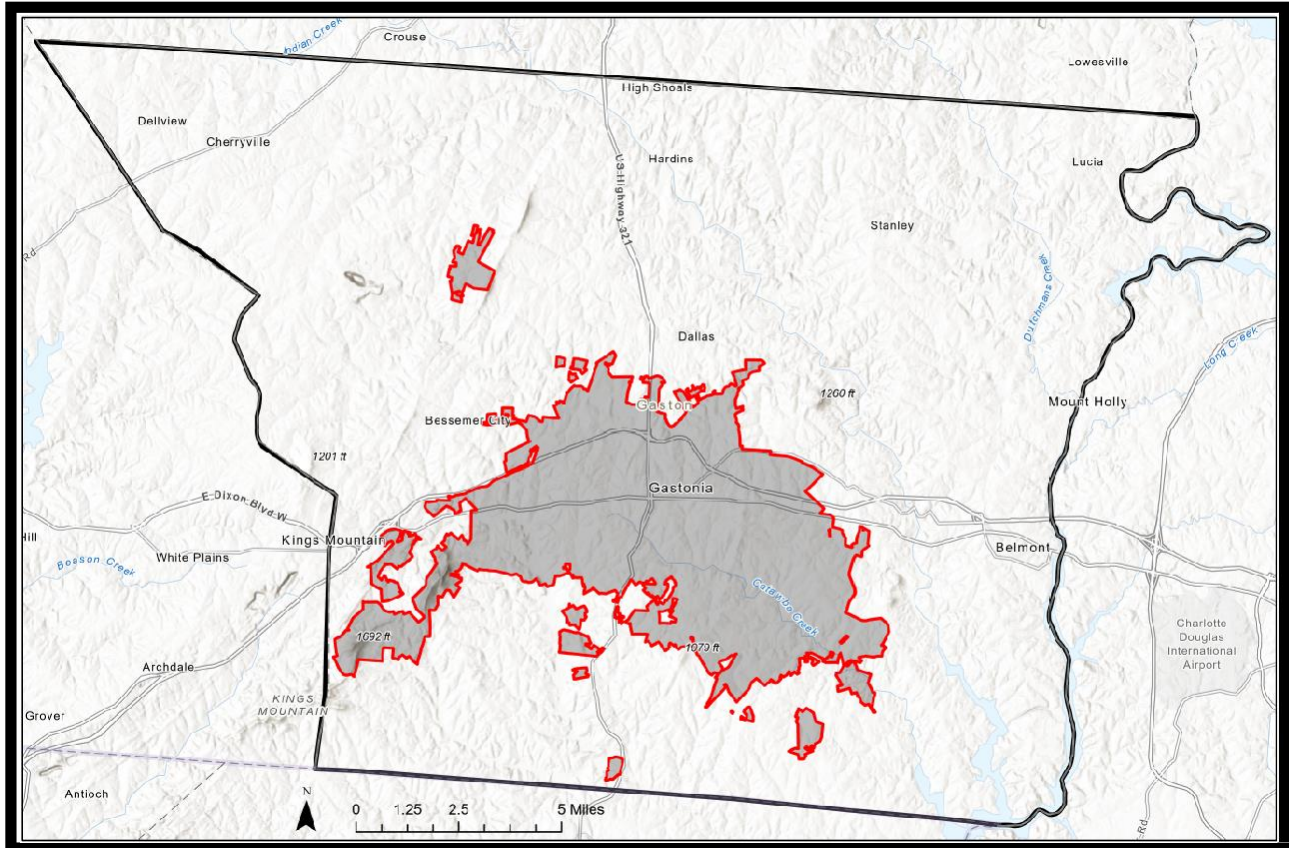
- I am a ranking elected official.
- I am a principal executive officer for the permitted MS4.
- I am a duly authorized representative for the permitted MS4 and have attached the authorization made in writing by a principal executive officer or ranking elected official which specifies me as (check one):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

Signature:	
Print Name:	Richard Franks
Title:	Mayor
Signed this 7 th day of May, 2024	

PART 3: MS4 INFORMATION

3.1 Permitted MS4 Area

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



3.2 Existing MS4 Mapping

The Current MS4 mapping includes inlet locations, outlet locations, manhole location, pipe locations and sizing based on as built designs that are available. Note that due to the age of infrastructure, advancement in mapping and changing landscape within The City of Gastonia, the map may not have up to date records of the aforementioned infrastructure. That said, the map is ever changing and evolving based on field observations and plan updates.

Table 1: Summary of Current MS4 Mapping

Percent of MS4 Area Mapped [estimated]	100	%
No. of Major Outfalls* Mapped	530	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 City of Gastonia 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:

- [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
Anthony Creek	11-130-2-1	Class B	
Blackwood Creek	11-135-7	Class C	
Catawba Creek	11-130	Class C	303(d) – Entire Branch
Crowders Creek	11-135	Class C	303(d) – From SR1108 tp NC 321
Duharts Creek	11-139-19	Class WS-V	
Kaglor Branch	11-129-16-5	Class C	
Jule Allen Branch	11-129-16-6	Class C	
Long Creek	11-129-16-4	Class C	303(d) – Entire Branch
Shoal Branch	11-30-4	Class C	

3.4 MS4 Interconnection

The City of Gastonia MS4 is not interconnected with another regulated MS4 and directly discharges to the receiving waters as listed in Table 2 above.

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 discharging stormwater into the NCDOT MS4. The number of interconnections unknown.
- c. To date, The City of Gastonia MS4 mapping does not specifically identify interconnections with the NCDOT MS4.
- d. To date, The City of Gastonia MS4 mapping does not specifically 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)
Catawba Creek	Nutrients	N	N
Crowders Creek	Nutrients	N	N
Crowders Creek	Fecal Coliform	N	N

While no WLA exists for the City of Gastonia, TMDL pollutants are the subject of education and outreach to the public as a means of highlighting the deleterious impacts that they have on water quality. In addition, the City of Gastonia participates in an off right-of-way program that financially assists citizens who are contributing to sedimentation in waterways which is the primary transport method of the TMDLs identified in Table 3. This helps enhance not only education, but also provides a practical solution for mitigating TMDLs in our community.

3.6 Endangered and Threatened Species and Critical Habitat

There are no significant populations of threatened or endangered species and/or critical habitat identified within the regulated MS4 urbanized area. This conclusion is 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. However, the species listed is not likely to be significantly impacted due to the quality of surface waters within their habitat.

Table 4: Potential Federally Listed Species (Habitat NOT Impacted by Surface Water Quality)

Scientific Name	Common name	Species Group	Federal Listing Status
<i>Helianthus schweinitzii</i>	Schwenitz's Sunflower	Flowering Plant	Endangered

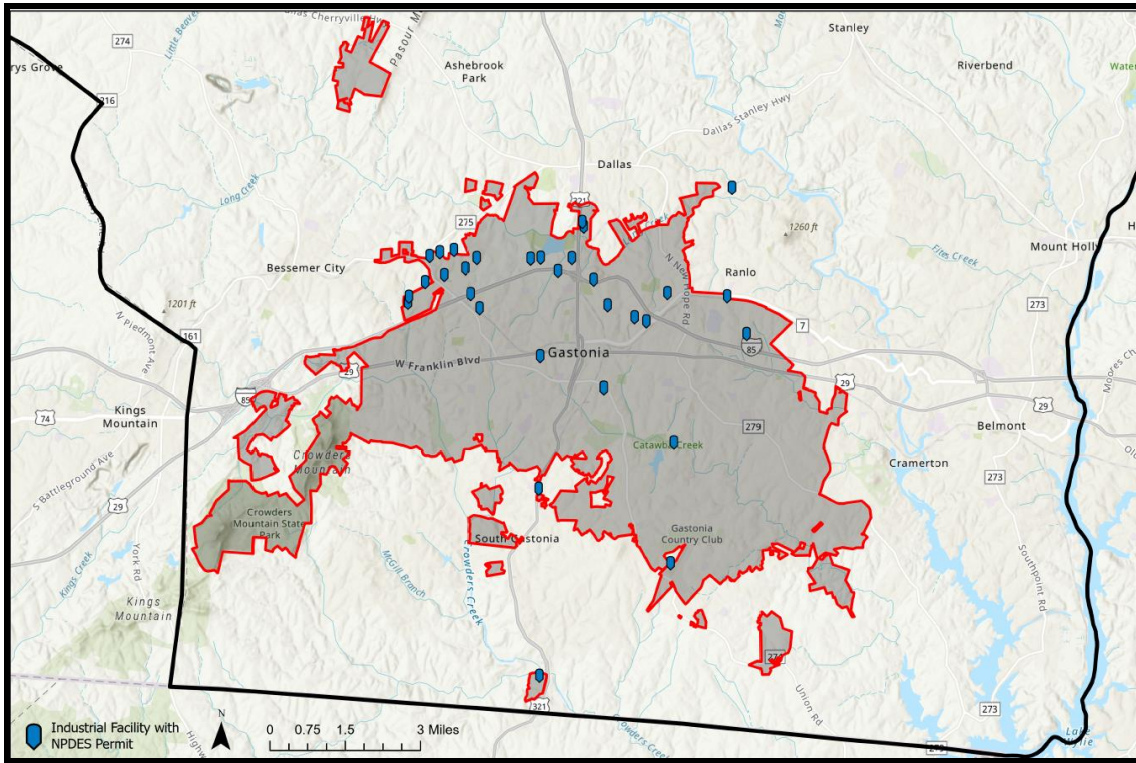
3.7 Industrial Facility Discharges

The City of Gastonia MS4 jurisdictional area includes the following industrial facilities which hold NPDES Industrial Stormwater Permits, as determined from the [NCDEQ Maps & Permit Data web page](#).

Permit Number	Facility Name
NCGNE0389	North Carolina National Guard
	Gaston County Fleet Services
NCG110056	Waste Water Treatment Plant – Long Creek
NCG110055	Waste Water Treatment Plant – Crowder's Creek
NCG150032	The City of Gastonia – Municipal Airport
NCG080701	The City of Gastonia – Fleet Services
NCG020866	John E Jenkins Inc
NCG020506	JEJ Borrow Pit
NCG030130	Diamler Trucks Na
NCG050403	Lanxess Corp
NCG030492	Stabilus
NCG030412	Mann+Hummel Filtration Technology
NCG060351	Mann+Hummel Filtration Technology
NCG030483	CMC Rebar Carolinas
NCG050435	Red Valve Company

NCG050436	Red Valve Company
NCG030718	Atlas Copco Rental LLC – DBA Powerhouse Boiler Equipment
NCG080180	United Parcel Service
NCG080406	Waste Management of Carolinas Inc
NCG080680	Petroliance LLC – Apex DBA Petrochoice
NCG140051	Concrete Supply Co – LLC
NCG140133	Concrete Supply Co – LLC
NCG130063	Sonoco Recycling Gastonia
NCG170415	Firestone Fibers & Textiles LLC
NCG170067	American & Efird Inc.
NCG170129	Beal Manufacturing Inc.
NCG170312	American & Efird Inc.
NCG170362	American & Efird Inc.
NCG170399	Faist Chemtec Inc
NCG170408	Meridian Specialty Yarn Group Inc
NCG170424	Owens Corning

Table 5: NPDES Stormwater Permitted Industrial Facilities



3.8 Non-Stormwater Discharges

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

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 City of Gastonia 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	Possible
<small>*Appropriate Methods of discharging provided by staff</small>	
Street wash water	Incidental
Flows from firefighting activities	Incidental

3.9 Target Pollutants and Sources

In addition to those target pollutants identified above, The City of Gastonia is aware of other significant water quality issues within the permitted MS4 area. These include sediment, illicit discharges (eg..sanitary overflows), litter, and yard waste.

Littering is not isolated to one area or neighborhood, The City of Gastonia has become aware of the fact that it is often more prevalent in locations where there is heavy foot traffic and public gathering spaces. Areas such as municipal greenways and parks are particularly susceptible to this form of pollution.

Another, more deleterious form of pollution is sedimentation. The lion share of this method of pollution is from rapid development of the land. The City of Gastonia’s primary soil type is a Cecil Urban Complex and Helena Urban Complex. Both soil types have been classified as Highly Erodible Land (HEL) as determined by the USDA-NRCS. Consequently, the land is prone to contribute to sedimentation and is a target pollutant that has gained great attention in this area.

Yard Waste is also a pollution source which is heightened during both spring and fall as the change of season brings yard debris/waste to street inlets. As a result, higher concentrations of ambient elements, such as Nitrogen and Phosphorous can discharge into the MS4.

Sanitary sewer overflows can also be problematic during heavy rain events and improper disposal of chemicals from citizens can occur on occasion.

Incidents of both pollution and sedimentation have been reported by the public and overtime The City of Gastonia has taken several steps toward reducing the number of incidents within the MS4 area.

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 City of Gastonia 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	Citizens and visitors	Public Education and outreach
Litter	Citizens and visitors	Keep Gastonia Beautiful – Litter Collection
Litter	Citizens and visitors	Trinity Hands – Litter Collection
Litter	Citizens and visitors	Proprietary/Passive Collection Devices
Sedimentation	Construction and Real Estate Community	Gaston County Natural Resources Dept – Sedimentation Division
Grease and Waste Oil	Local Restaurants and Food Trucks	Public Education and Outreach
Yard Waste	Citizens (Home/Business owners)	Public Education and Outreach
Illicit Discharges	Sanitary Sewer Utility / Citizens	Monitoring / Public Education

PART 4: STORMWATER MANAGEMENT PROGRAM ADMINISTRATION

4.1 Organizational Structure

The Stormwater Program for The City of Gastonia is operated through the Public Works Department and reports directly to the Assistant Public Works Director. For a complete visualization of The Stormwater Division in The City of Gastonia’s structure, please see the flow chart below.

The City of Gastonia currently participates in an inter-local agreement with Gaston County and the Gaston Natural Resources Department to help facilitate the Construction Site Runoff Control aspect of the SWMP. The Construction Site Runoff Control is the only component of the SWMP that Gaston County is involved with and is there for not included in the organizational flow chart below.

Organizational Flow Chart [City of Gastonia – Stormwater Division]

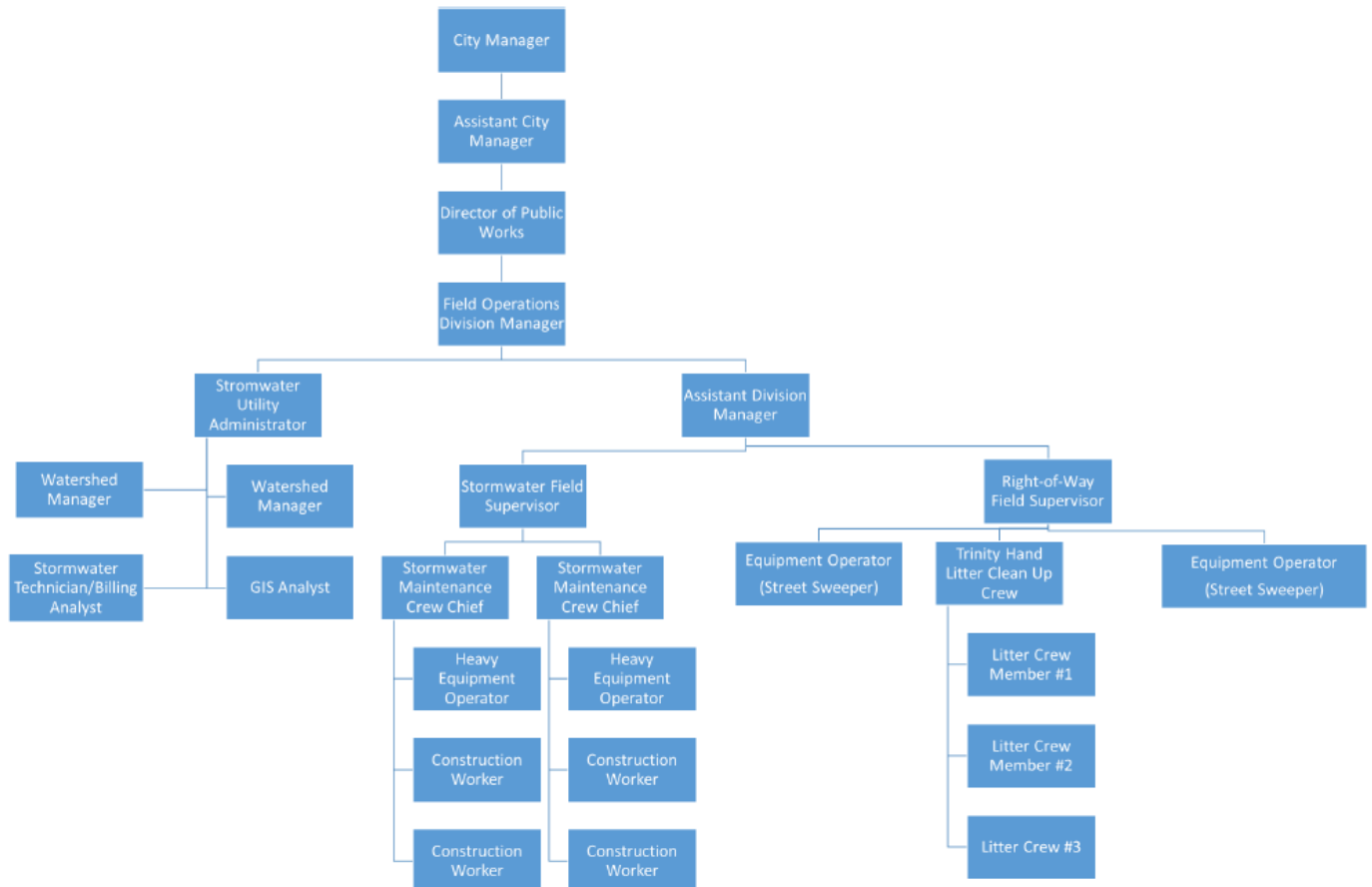


Table 8: Summary of Responsible Parties

SWMP Component	Responsible Position	Staff Name	Department
Stormwater Program Administration	Stormwater Utility Administrator	Danon Lawson	Public Works
SWMP Management	Stormwater Utility Administrator	Danon Lawson	Public Works
Public Education & Outreach	Stormwater Utility Administrator	Danon Lawson	Public Works
Public Involvement & Participation	Stormwater Utility Administrator	Danon Lawson	Public Works
Illicit Discharge Detection & Elimination	Stormwater Utility Administrator	Danon Lawson	Public Works
Construction Site Runoff Control	Gaston County Stormwater Administrator	Joseph Alm	Gaston Natural Resources Department
Post-Construction Stormwater Management	Stormwater Utility Administrator	Danon Lawson	Public Works
Pollution Prevention/Good Housekeeping for Municipal Operations	Stormwater Utility Administrator	Danon Lawson	Public Works
Municipal Facilities Operation & Maintenance Program	Stormwater Utility Administrator	Danon Lawson	Public Works
Spill Response Program	Stormwater Utility Administrator	Danon Lawson	Public Works
MS4 Operation & Maintenance Program	Stormwater Utility Administrator	Danon Lawson	Public Works
Municipal SCM Operation & Maintenance Program	Stormwater Utility Administrator	Danon Lawson	Public Works
Pesticide, Herbicide & Fertilizer Management Program	Assistant Director of Parks and Recreation	Harold Lewis White	Parks and Recreation

Vehicle & Equipment Cleaning Program	Division Manager of Equipment Services	Steve Huss	Public Works
Pavement Management Program	Stormwater Utility Administrator	Danon Lawson	Public Works
Total Maximum Daily Load (TMDL) Requirements	N/A	N/A	N/A

4.2 Program Funding and Budget

In accordance with the issued permit, The City of Gastonia 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.

Based on the current utility fee and ERU's being billed, the annual revenue generated from stormwater is \$4,244,417

4.3 Shared Responsibility

The City of Gastonia will share the responsibility to implement the following minimum control measures, which are at least as stringent as the corresponding NPDES MS4 Permit requirement. The City of Gastonia remains responsible for compliance if the other entity fails to perform the permit obligation, and may be subject to enforcement action if neither The City of Gastonia 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)
Permit Section E	Gaston County Sediment and Erosion Control Program	Y

4.4 Co-Permittees

The are no other entities applying for co-permittee status under the NPDES MS4 permit number NCS000429 for The City of Gastonia. 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	N/A	N/A	N/A

4.5 Measurable Goals for Program Administration

The City of Gastonia will manage and report the following Best Management Practices (BMPs) for the administration of the Stormwater Management Program.

Table 11: Program Administration BMPs				
Permit Ref.	2.1.2 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
#.1	Annual Self-Assessment			
	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, analyze and submit the Annual Self-Assessment to NCDEQ prior to August 31 each year.	1. Annually Permit Years 1 – 4	1. . Yes/No
#.2	Minimum Control Measures (Permit Ref.2.2.2)			
	Written programs will be created to assure compliance with part 2.2.2 of the MS4 Permit. Written programs shall be reviewed on an annual basis and modified if needed to best outline the program and needs of the municipality.	1. Develop and maintain permit goals for all control measures 2. Review written programs and update as needed	1. Permit year 1 2. Annually	1. Yes/No 2. Yes/No

#3	Funding and Staff (Permit Ref 2.1.1)			
	The funding and staffing status of the program will be evaluated by appropriate City/Town staff to confirm that the program is meeting permit requirements.	1. Review and analyze the current funding and staffing of the program	1. Annually	1. Adequate/Inadequate
Permit Ref.	1.6: Permit Renewal Application Measures to submit a permit renewal application no later than 180 days prior to the expiration date of the NPDES MS4 permit.			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric

Table 11: Program Administration BMPs				
	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
#.4	Permit Renewal Application			

PART 5: PUBLIC EDUCATION AND OUTREACH PROGRAM

The City of Gastonia 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 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 City of Gastonia 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
Illicit Discharges	General Public, Businesses, Municipal Employees
Illegal Dumping	General Public, Businesses, Municipal Employees
Improper Disposal of Yard Waste	General Public, Businesses, Municipal Employees
Improper Disposal of FOG	Restaurants, General Public
Sedimentation/Erosion	General Public, Businesses, Municipal Employees, Developers, Engineers

The City of Gastonia 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 Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.5	Mailing/Billing Inserts			
	Bi-annual mailers that are sent to each resident or business who receives measured utilities. The subject of each mailer is related to some aspect of stormwater. (Eg. Pollution prevention, value of buffers, leaf removal from gutters, etc)	1. Bi Annual Mailer	1. Spring and Fall	1. Number of Inserts Mailed

Table 13: Public Education and Outreach BMPs				
#.6	Regional Stormwater Partnership of the Carolinas (contract review)			
	The Regional Stormwater Partnership of the Carolinas acts as a facilitator for idea sharing, and regional interest group to help MS4s set goals, share resources and experience in an effort to grow and enhance the effectiveness of the public outreach and education component of the NPDES issued permit.	1. Review the contract including any updates to ensure that goals/objectives continue to align with permit requirements	1. Annually	1. Yes/No
#.7	Technical Talks and Public Interaction			
	Working with Regional Stormwater Partnership of the Carolinas. The City of Gastonia participates in the providing presentations and opportunities in partnership with the RSPC.	1. RSPC will conduct quarterly outreach for engineers, developers and the general public in the region	1. Quarterly	1. Date and attendance (number)
#.8	Public School Outreach			
	Working with Gaston County’s public schools within the MS4, the stormwater department has participated in a number of presentations and outreach opportunities within the School System. We answer questions and educate the student population on what stormwater is and why water quality is important	1. Conduct School Outreach at a minimum of 4 schools per year	1. Annually	1. number of outreach events (contact hours)
#.9	Target Pollution Sources Modify outreach materials and topics based on identified potential sources of pollution that can have long term impacts. (eg. Food trucks, schools, restaurants, auto repair and hospitals)	1. Evaluate and Identify potential pollution sources. Modify outreach program accordingly	1. Annually	1. Yes/No
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
#.10	Municipal Website outreach			

Table 13: Public Education and Outreach BMPs

	Provide a website that helps connect the public with the Stormwater Program. Items such as mission/purpose, helpful links, hotline number, and contact information.	1. Review website content and links (updating as needed)	1. Annually	1. Yes/No
#.11	Social Media Outreach			
	<p>City of Gastonia’s social media platforms are managed by the by the city’s Communication and Marketing Department.</p> <p>Social Media is also utilized via Keep Gastonia Beautiful, a partner in ensuring public awareness of upcoming events (eg. Stream Cleanups) is highlighted.</p>	1. Create a minimum of 12 outreach posts to social media	1. Annually	1. Total number of Posts
Permit Ref.	3.2.5: Stormwater Hotline Measures for a stormwater hotline/helpline for the purpose of public education and outreach.			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.12	Stormwater Hotline			
	Provide a resource for citizens to call in and communicate in a non-automated capacity. This line is the forefront of the Stormwater Department as it allows citizens to speak to staff.	1. Maintain and confirm operation	1. Annually	1. Yes/No
#.13	City Works Interactive (See-Click-Fix) Municipal Self Service option for work orders	1. Maintain and Confirm operation	1 Annually	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 City of Gastonia 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
#.14	Stormwater Commission			
	City Council appointed stormwater commission conducts public meetings where the stormwater commissioner and public interact on an array of stormwater topics where the general public has a voice in decision making in some aspects of Stormwater.	1. Conduct Stormwater Commission Meetings with allowable public involvement	1. 6 meeting conducted annually (typically in odd months)	1. Number of meeting attended by the commissioner and the public

Table 14: Public Involvement and Participation BMPs

Permit Ref.	3.3.2: Volunteer Opportunities Measures to provide volunteer opportunities designed to promote ongoing citizen participation.			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#15	Stream Clean-up			
	Targeting local stream that adjoin neighborhoods and parks community wide to perform an annual clean-up of the community stream	1. Facilitate a public stream clean up	1. Annually	1. Number of Participants and weight of removal
#16	Evaluate Alternatives			
	Evaluate possible additional public involvement efforts	1. Evaluate possible additional public involvement efforts	1. Permit year 1	1. possible involvement events
		2. Revise SWMP with additional Public involvement identified	3. Permit year 2	2. Yes/No

PART 7: ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM

The City of Gastonia 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
#.17	MS4 Map			
	Create and maintain maps that will have the conveyance type, flow direction, outfalls and receiving waters	1. Maintain MS4 Map	1. Continuous	1. Yes/No
Permit Ref.	3.4.2: Regulatory Mechanism Measures to provide an IDDE ordinance or other regulatory mechanism that provides legal authority to prohibit, detect, and eliminate illicit connections and discharges, illegal dumping and spills into the MS4, including enforcement procedures and actions.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.18	Sec. 14-733 (B) (4) – City of Gastonia Code of Ordinances			
	The goal of IDDE is to prevent illicit discharges to the MS4 system. This will be done through inspection, documentation and enforcement as detailed and directed in the adopted IDDE program plan. Code of ordinances Sec 14-733 (B) (4) provides the legal precedence to utilize the guidance in the program plan.	1. Review ordinance and update as needed	1. Permit Year 1	1. Yes/No

Table 15: Illicit Discharge Detection and Elimination BMPs

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
#.19	Dry inspections of outfalls			
	Perform site inspections on the City of Gastonia outfalls during dry ambient conditions to identify, record and verify the sources of potential illicit discharges and/or leaks from a variety of sources	1. 50%	1. Annually	1. Verified %
#.20	Regular Communication with Two Rivers Utility – (Sanitary Sewer Overflows)			
	Open and regular communication with Two Rivers Utility to ensure Sanitary Sewer Overflows are recorded and addressed immediately following any events	1. Document SSOs based on address or specific location of location as identified on form CS-SSO	1. continuous	1. Yes/No

Table 15: Illicit Discharge Detection and Elimination BMPs

Table 15: Illicit Discharge Detection and Elimination BMPs				
Permit Ref.	3.4.4: IDDE Tracking Measures for tracking and documenting the date(s) an illicit discharge, illicit connection or illegal dumping was observed, the results of the investigation, any follow-up of the investigation, the date the investigation was closed, the issuance of enforcement actions, and the ability to identify chronic violators.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.21	Tracking IDDE/Documentation as identified			
	Tracking of IDDEs will occur using Arc GIS (with digital reporting) to identify the location, occurrence and remediation of the event	1. Documentation of all IDDEs	1. Continuously	1. Number of IDDE complaints and Number of investigations
		2. Documentation of all IDDEs	2. Continuously	2. Number of NOV's issued and Number of closed
		3. Documentation of all IDDEs	3. Continuously	3. Number of Warning Letters
		4. Documentation of all IDDEs	4. Continuously	4. Number of fines
		5. Documentation of all IDDEs	5. Continuously	5. Repeat Offender
Permit Ref.	3.4.5: Staff IDDE Training Measures to provide training for municipal staff and contractors who, as part of their normal job responsibilities, may observe an illicit discharge, illicit connection, illegal dumping or spills. Training shall include how to identify and report illicit discharges, illicit connections, illegal dumping and spills. Each staff training event shall be documented, including the agenda/materials, date, and number of staff participating.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.22	Staff IDDE Training done on an annual basis			
	Training is done for each facility and with municipal staff who would contact with stormwater and provide immediate response to potential IDDE hazards	1. In person meeting discussing stormwater IDDE hazards	1. Annually (Training dates vary based on employee staff development)	1. Attendance registry (Quantity)
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
Table 15: Illicit Discharge Detection and Elimination BMP				
#.23	Stormwater Hotline			
	Provide a resource for citizens to call in and communicate in a non-automated capacity. This line is the forefront of the Stormwater Department as it allows citizens to speak to staff.	1. Provide and Maintain hotline 2. Confirm the hotline has been publicized on website/outreach material	1. Ongoing 2. Annually	1. Service Record in Hansen (Quantity) 2. Yes/No

PART 8: CONSTRUCTION SITE RUNOFF CONTROL PROGRAM

In accordance with 15A NCAC 02H .0153, The City of Gastonia 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
3.5.1 - 3.5.4	Gaston County – Natural Resources Department	15A NCAC Chapter 04, NCDEQ Approved Delegation, Interlocal Agreement/Joint Resolution, Local Ordinance	Gaston County

* The local delegated SPCA Program ordinance(s)/regulatory mechanism(s) can be found at: https://www.gastongov.com/government/departments/natural_resources/stormwater_control.php

The City of Gastonia also implements the following BMPs to meet NPDES MS4 Permit requirements.

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 No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.24	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

Table 17: Construction Site Runoff Control BMPs				
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.			
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.25	City partners the County for this BMP			
	Gaston County, Per Inter-local Agreement, informs City of Gastonia of any illicit Site Runoff /Waste Management activities during construction falls under their jurisdiction (Compliance and Enforcement measures handled by the City)	1. Reduce and prevent poor waste management practices that are outside the range of permit standards	1. Conditional/as Identified	1. Quarterly Updates from Gaston County

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 City of Gastonia 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 City of Gastonia 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
None	N/A	N/A

The City of Gastonia 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	Gastonia Code of Ordinances Sec 14-731 (a)	03-03-2015
3.6.3(a) & 15A NCAC 02H.0153(c) Federal, State & Local Projects	Gastonia Code of Ordinances Sec 14-711 / developing	05-15-2001
3.6.3(b) Plan Review	Gastonia Code of Ordinances Sec 14-734 (d)(e)	03-03-2015
3.6.3(c) O&M Agreement	Gastonia Code of Ordinances Sec 14-741	12-18-2007
3.6.3(d) O&M Plan	Gastonia Code of Ordinances Sec 14-741	12-18-2007
3.6.3(e) Deed Restrictions/Covenants	Gastonia Code of Ordinances Sec 14-743	12-18-2007
3.6.3(f) Access Easements	Gastonia Code of Ordinances Sec 14-740 (c)	12-18-2007

Permit Requirements for Inspections and Enforcement	Municipal Ordinance/Code Reference(s) and/or Document Title(s)	Date Adopted
3.6.2(b) Documentation	Gastonia Code of Ordinances Sec 14-740 (b)	12-18-2007
3.6.2(c) Right of Entry	Gastonia Code of Ordinances Sec 14-741 (b) (4)	12-18-2007
3.6.4(a) Pre-CO Inspections	Gastonia Code of Ordinances Sec 14-736 (b)	12-18-2007
3.6.4(b) Compliance with Plans	Gastonia Code of Ordinances Sec 14-740 (a)	12-18-2007
3.6.4(c) Annual SCM Inspections	Gastonia Code of Ordinances Sec 14-740 (b)	12-18-2007
3.6.4(d) Low Density Inspections	Gastonia Code of Ordinances Sec 14-738 (b)(2) & (d)	03-03-2015
3.6.4(e) Qualified Professional	Gastonia Code of Ordinances Sec 14-740 (b)	12-18-2007
Permit Requirements for Fecal Coliform Reduction	Municipal Ordinance/Code Reference(s) and/or Document Title(s)	Date Adopted
3.6.6(a) Pet Waste	Gastonia Code of Ordinances Sec 14-571	06-27-1989
3.6.6(b) On-Site Domestic Wastewater Treatment	Gastonia Code of Ordinances Sec 14-739	12-18-2007

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 [to be implemented]			
	Implement standardized tracking, documentation, inspections and reporting mechanisms to compile appropriate data for the annual self-	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.

Table 20: Post Construction Site Runoff Control BMPs				
	assessment process. Data shall be provided for each Post-Construction/Qualifying Alternative Program being implemented as listed in Table 19.	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. 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 issued.
		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.	
BMP No.	A	B	C	D
	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
#.27	Gastonia, North Carolina – Code of Ordinances Chapter 14/Article VI – Stormwater Utility			
	Code of Ordinances Chapter 14/Article VI/ Division 4 Sec.14-731 spells out the legal authority that the stormwater administrator has regarding plan review, inspection, monitoring and maintenance review of new and pre-existing construction. (See Table 19 for further reference)	1. review ordinance and modify as needed to meet permit requirements	1. Permit year 2	1. Yes/No

Table 20: Post Construction Site Runoff Control BMPs				
Permit Ref.	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)			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.28	This is satisfied by Code of Ordinances Chapter 14/Article VI/ Division 4 Sec.14-733			
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 No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#. 29	This is satisfied by Code of Ordinances Chapter 14/Article VI/ Division 4 Sec.14-740 and 14-747			
		1. See Table 19	1. See Table 19	1. See Table 19

Table 20: Post Construction Site Runoff Control BMPs				
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
#.30	This is satisfied by Code of Ordinances Chapter 14/Article V/ Division 1 Sec.14-571 and 14-747			
		1. See Table 19	1. See Table 19	1. See Table 19
#.31	Pet Waste Stations Provided on Municipal property			
	Gastonia’s Downtown area, municipal Parks and existing greenways all have pet waste collection stations.	1. Collection of Pet waste in Designated Stations	1. Ongoing	1. Yes/No

PART 10: POLLUTION PREVENTION AND GOOD HOUSEKEEPING PROGRAMS

This SWMP provides a comprehensive pollution prevention and good housekeeping strategy for The City of Gastonia 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 City of Gastonia 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				
Permit Ref.	3.7.1: Municipal Facilities Operation and Maintenance Program Measures to manage facilities that are owned and operated by the permittee and have the potential for generating polluted stormwater runoff. The permittee shall maintain a current inventory of municipal facilities; perform facility inspections and routine maintenance; establish specific frequencies, schedules, and standard documentation; provide staff training on general stormwater awareness and implementing pollution prevention and good housekeeping practices			
BMP No.	A Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.32	City of Gastonia Stormwater Pollution Prevention Plan (SPPP)			
	Pollution Prevention and Good Housekeeping Manuals are kept on site. Each folder contains scheduled stormwater PP/GH trainings (dates/attendees), site inspection reports and inventories of potential stormwater/surface-water hazards.	1. Create and maintain inventory of all municipal facilities with the potential to generate polluted stormwater runoff (Currently there are 19 locations)	1. Permit Year 1	1. Yes/No
		2. Perform facility inspections to ensure that practices are adhered to (using up to date inspection forms)	2. Annually	2. Number of inspections

Table 21: Pollution Prevention and Good Housekeeping BMPs				
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 Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.33	City of Gastonia Stormwater Pollution Prevention Plan (SPPP)			
	A plan with a Spill Response and Spill Prevention Response section is located on each municipal location where a stormwater permit is issued. This section identifies methods to prevent spills as contacts and steps to take should a spill occur.	1. Signs and Spill Kits located at stormwater facilities that are permitted	1. Semi Annual Inspection of Signs and Spill Kits	1. Document and report new spill kits or signs in SPPP as the need arises
		2. Provide spill response training for applicable staff	2. Annually	2. Number of staff 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 Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.34	Employee Training of Stormwater SCMs, Pollution Prevention and general Stormwater Awareness			

Training of employees primarily thorough Media presentations to educate and provide a general awareness of the stormwater permit and pollution prevention on the City Campus and throughout the MS4.	1. All staff where equipment is housed or subject to impair the MS4	1. Ongoing	1. Annual Training for staff
	2. Create and MS4 Operation Maintenance Program that accomplishes permit reference 3.7.3	2. Permit year 1	2. Yes/No

Table 21: Pollution Prevention and Good Housekeeping BMPs

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 Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.35	Inventory Map			
	Staff maintained GIS map showing all of the SCMs that are installed, managed and maintained by the City of Gastonia	1. All SCMs owned and operated by the City of Gastonia	1. Ongoing	1. Maintenance Inspections (Annual)
		2. Creating Inventory	2. Permit year 1	2. Yes/No
		3. Inspecting Inventory	3. Annually	3. Number of Inspections
		4. Confirming or creating an O&M for each SCM	4. Permit Year 1	4. Yes/No
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 Description of BMP	B Measurable Goal(s)	C Schedule for Implementation	D Annual Reporting Metric
#.36	Parks and Recreation Dept - Stormwater Pollution Prevention Manual			
	This BMP is tied directly to the Parks and Recreation Department for The City of Gastonia. This department houses the chemicals and fertilizers directly related to landscaping and land management within the City of Gastonia	1. SPPP Manual for Parks and Recreation (and landscaping throughout the city)	1. Ongoing	1. Yes/No
		2. Confirm License of applicators (number)	2. Annually	2. Number of License applicators

Table 21: Pollution Prevention and Good Housekeeping BMPs

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
#.37	City Garage - Stormwater Pollution Prevention Manual			
	This BMP is tied directly to the City Garage for The City of Gastonia. This department is directly responsible for municipal vehicle, and equipment maintenance. It also operates a car wash on site.	1. Annual inspection of the site BMPs and staff training	1. Annually	1. Yes/No
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
#.38	Leaf and Yard Waste pick up – Scheduled Vehicle Fluid Management – Occasionally			
	Pavement Management for leaf and yard waste disposal and removal is managed by the solid waste department with scheduled pick ups Vehicle Fluid Management and yard waste are additionally managed through billing inserts (semi-annually) as educational outreach	1. Yard Waste Pick up Based on Solid Waste Schedule	1. Ongoing throughout the city	1. Quantity (tons/year)
		1. Street Sweeping program	2. Annually	2. Quantity (Ton/Year)
#.39	Litter Pickup Program – Independent Contractor			
	Litter Management from an independent contractor (Currently Trinity Hands – FY2122)	1. review and maintain the contract	1. annually	1. Quantity (Tons /Year)