Draft Stormwater Management Plan Town of China Grove NCS000515

XXX XX, 20XX



An original town.



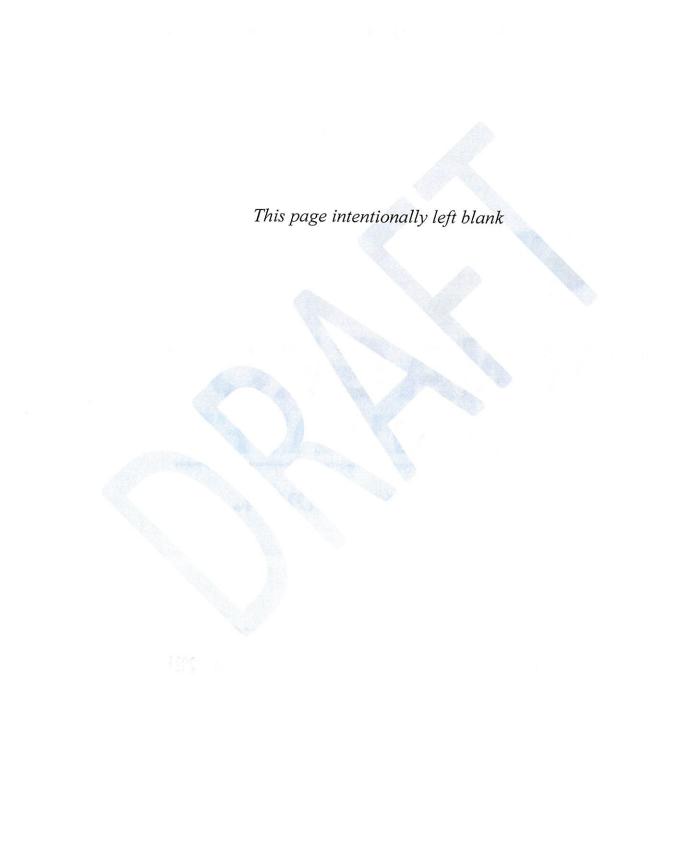


Table of Contents

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	. 5
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	6
3.9	Target Pollutants and Sources	7
PART 4:	STORMWATER MANAGEMENT PROGRAM ADMINISTRATION	
4.1	Organizational Structure	9
4.2	Program Funding and Budget	11
4.3	Shared Responsibility	11
4.4	Co-Permittees	12
4.5	Measurable Goals for Program Administration	12
PART 5:	PUBLIC EDUCATION AND OUTREACH PROGRAM	4
PART 6:	PUBLIC INVOLVEMENT AND PARTICIPATION PROGRAM 1	.8
PART 7:	ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM 2	20
PART 8:	CONSTRUCTION SITE RUNOFF CONTROL PROGRAM2	25
PART 9:	POST-CONSTRUCTION SITE RUNOFF CONTROL PROGRAM2	27
PART 10	POLLUTION PREVENTION AND GOOD HOUSEKEEPING PROGRAMS	4

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 Town of China Grove 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 China Grove 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 NCS000515, 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 China Grove and located within the corporate limits of the Town of China Grove.

In preparing this SWMP, the Town of China Grove 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.

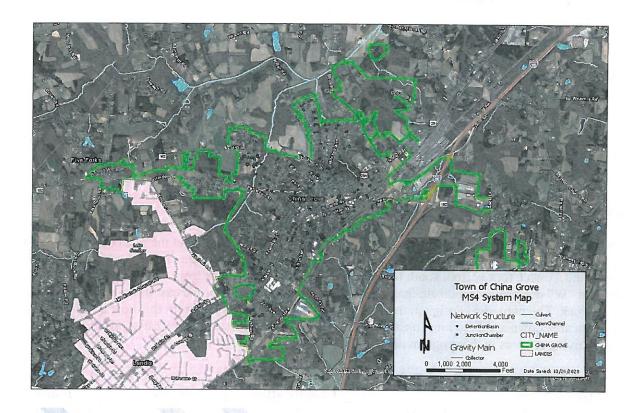
I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

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 (<i>check one</i>)
☐ A specific individual having overall responsibility for stormwater matters.
☐ A specific position having overall responsibility for stormwater matters.
Signature: Ken Deal
Print Name: Ken Deal
Title: Town Manager
Signed this day of 20 21 .

PART 3: MS4 INFORMATION

3.1 Permitted MS4 Area

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



3.2 Existing MS4 Mapping

Storm drainage within the Town of China Grove consists of a network of pipes, ditches and open channels, which were installed at different times by many different entities. The flow of storm water travels through both public and privately maintained areas, and the level of improvements installed are the option of the property owner. The overall drainage area is relatively small and is served by three major creeks and numerous tributary streams. Therefore, the typical drainage path from overland flow to the outfall is short.

The Town recently inventoried the conveyance system and prepared detailed maps of the entire system within the Town's municipal boundary limits.

Existing stormwater piping: +24,000 feet of 8" to 48" diameter piping Stormwater inlets: +276 inlets Outfalls or discharge points: +60 (size from 12" to 60" diameter)

Figure 3 of Appendix A is a location map of all inventoried outfalls within the Town's municipal boundaries. Appendix M includes detailed system maps showing the location of all inlets, piping and outfalls.

Table 1: Summary of Current MS4 Mapping

Percent of MS4 Area Mapped	100	%
No. of Major Outfalls* Mapped	Unknown**	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 \geq 50-acres; and for industrial zoned areas a 12-inch diameter pipe or a drainage area \geq 2-acres.

3.3 Receiving Waters

The tributary streams are listed in the order in which they occur beginning at the most downstream point of the named Creek within the program area and proceeding upstream. The direction of flow of Grants Creek and Town Creek is from south to north. Cold Water Creek flows from the north to the south. The "E" and "W" designations indicate that the tributary is located to either the east or the west side of the main creek. The numerical designation indicates the order of occurrence from the most far point in the program area downstream to most upstream point in the program area. Figure 2 in Appendix A illustrates the receiving streams in the program area.

Major Receiving Stream Name	Stream Index	Water Quality Classification	Use Support Rating	Water Quality Issues
Grants Creek	12-110	С	0	Fecal Coliform, Turbidity, Sediment
Town Creek	12-112-3	С	0	DO, Turbidity
Cold Water Creek	13-17-9-4(.05)	WS-IV	0	Fecal Coliform

Cold Water Creek — Beginning north of intersection SR 1243 and 1-85 and ending north of NC 152 and south of intersection of 1-85 and 29/601.

- Unnamed Tributary W-1 Cold Water Creek
- Unnamed Tributary W-2 Cold Water Creek
- Unnamed Tributary W-3 Cold Water Creek at SR 1232
- Unnamed Tributary E-1 Cold Water Creek at SR 1339
- Unnamed Tributary W-4 Cold Water Creek Unnamed Tributary W-5 Cold Water Creek at SR 1337
- Unnamed Tributary E-2 Cold Water Creek at SR 1337
- Unnamed Tributary E-3 Cold Water Creek at NC 152

^{**}Outfalls have been mapped but the classification of the specific outfalls as major outfalls has not occurred, therefore the number of major outfalls is unknown at this time (See BMP No. 16).

Grants Creek — Beginning southwest of SR1505 and ending at SR1211

- Unnamed Tributary E-1 to Grants Creek
 - o Unnamed Tributary E-1A
- Unnamed Tributary E-2 to Grants Creek
 - o Unnamed Tributary E-2A
- Unnamed Tributary E-3 to Grants Creek
- Unnamed Tributary W-1 to Grants Creek
 - o Unnamed Tributary W-1A
- Unnamed Tributary W-2 to Grants Creek
- Unnamed Tributary W-3 to Grants Creek
- Unnamed Tributary E-4 to Grants Creek at SR 1225
- Unnamed Tributary W-4 to Grants Creek
- Unnamed Tributary E-5 to Grants Creek
- Unnamed Tributary W-5 to Grants Creek
- Unnamed Tributary E-6 to Grants Creek

Town Creek — Beginning at headwaters east of SR 2553 and ending at intersection SR 1505 and 1-85. No tributary streams are included in the program area.

3.4 MS4 Interconnection

The Town of China Grove MS4 is not interconnected with another regulated MS4 and directly discharges to the receiving waters as listed in Table 2 above. The MS4 does not interconnect with the statewide NCDOT TS4 and includes:

- a. The interconnection is not receiving stormwater from the NCDOT TS4. The number of interconnections is unknown. Quantity: N/A
- b. The interconnection is not discharging stormwater into the NCDOT TS4. The number of interconnections is unknown. Quantity: N/A
- c. The Town of China Grove MS4 mapping does/does not identify interconnections with the NCDOT TS4.
- d. The Town of China Grove MS4 mapping does not include NCDOT TS4 outfalls.

3.5 Total Maximum Daily Loads (TMDLs)

The USEPA developed an approach called total maximum daily loads (TMDL) for determining the total waste (pollutant) loading from point and nonpoint sources that a stream or other water body can assimilate and maintain its designated uses. With the TMDL approach streams, which do not meet water quality standards, are identified and the State establishes priorities for actions needed to meet water quality goals. 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.

Water Body Name	TMDL Pollutant(s)	Stormwater Waste Load Allocation (Y/N)	Water Quality Recovery Program (Y/N)
Statewide	Mercury	N	N
Grants Creek	Fecal Coliform, Turbidity		

The Statewide TMDL for mercury does not require any actions by the NPDES stormwater permittees because most mercury in stormwater comes from atmospheric deposition.

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
Haliaeetus leucocephalus	Bald Eagle	Vertebrate	BGPA*
Myotis septentrionalis	Northern long-eared bat	Vertebrate	Threatened
Helianthus schweinitzii	Schweinitz's sunflower	Vascular Plant	Endangered

^{*}BGPA- Bald Eagle Protection Act

3.7 Industrial Facility Discharges

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

Table 5: NPDES Stormwater Permitted Industrial Facilities

Hitachi Metals North Carolina
R&L Carriers

3.8 Non-Stormwater Discharges

The water quality impacts of non-stormwater discharges have been evaluated by the Town of China Grove as summarized in Table 6 below. The unpermitted non-stormwater flows listed as incidental do

not significantly impact water quality. The Town of China Grove 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 China Grove. 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 China Grove 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	N/A
Flows from firefighting activities	Incidental

3.9 Target Pollutants and Sources

In addition to those target pollutants identified above, the Town of China Grove is not aware of other significant water quality issues within the permitted 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 Town of China Grove 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 Pollutants/Sources	Target Audience(s)	Education Programs
General Non-point source pollution	General Public, Businesses, Municipal Employees	Website, Mailed Information, Social Media, Posters
Used Motor Oil	General Public, Businesses, Municipal Employees	Website, Mailed Information
Kitchen Fats, Oils, and Grease, Dumpster leaks	Restaurants, Grocery Stores, Commercial Businesses, Municipal Employees, General Pubic	Website, Mailed Information, Posters, Inspections
Yard Waste and Fertilizer	General Public, Businesses, Municipal Employees	Website, Mailed Information, Posters, Inspections
Illicit Discharges	General Public, Businesses, Municipal Employees	Website, Mailed Information, Posters, Inspections
Illegal Dumping	General Public, Businesses, Municipal Employees	Website, Mailed Information, Posters, Inspections
Improper Disposal of Waste, Litter	General Public, Businesses, Municipal Employees	Website, Mailed Information, Posters, Inspections
Sediment	Construction Sector	Construction Site Run-off Control
Mercury/Statewide TMDL	Atmospheric Disposition	Public Education and Outreach (fish consumption advisory)
Nutrients, Fecal Coliform	Sewer overflows, failing septic systems, urbanization	Public Education & Outreach, Illicit Discharge Detection & Elimination, Construction Site Runoff Control, Post Construction Site Runoff Control, Pollution Prevention & Good Housekeeping

PART 4: STORMWATER MANAGEMENT PROGRAM ADMINISTRATION

4.1 Organizational Structure

The Assistant Town Manager is responsible for the administration of the Stormwater Management Program.

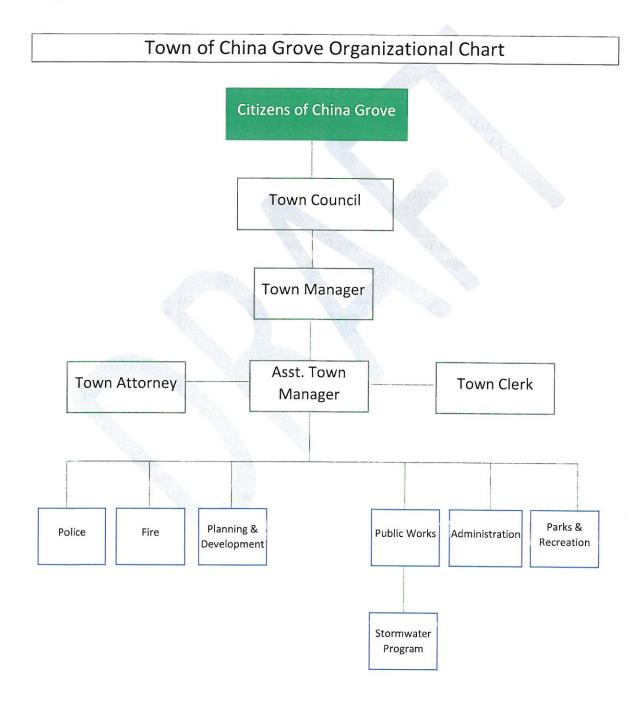


Table 8: Summary of Responsible Parties

SWMP Component	Responsible Position	Staff Name	Department
Stormwater Program Administration	Assistant Town Manager	Franklin Gover	Administration
SWMP Management	Assistant Town Manager	Franklin Gover	Administration
Public Education & Outreach	Assistant Town Manager	Franklin Gover	Administration
Public Involvement & Participation	Assistant Town Manager	Franklin Gover	Administration
Illicit Discharge Detection & Elimination	Assistant Town Manager	Franklin Gover	Administration
Construction Site Runoff Control	Rowan County Sediment and Erosion Control	Joshua Canup	Rowan County Planning and Development
Post-Construction Stormwater Management	Assistant Town Manager	Franklin Gover	Administration
Pollution Prevention/Good Housekeeping for Municipal Operations	Assistant Town Manager, Public Works Director	Franklin Gover, David Ketner	Administration, Public Works
Municipal Facilities Operation & Maintenance Program	Assistant Town Manager	Franklin Gover	Administration
Spill Response Program	Assistant Town Manager	Franklin Gover	Administration
MS4 Operation & Maintenance Program	Assistant Town Manager	Franklin Gover	Administration
Municipal SCM Operation & Maintenance Program	Assistant Town Manager	Franklin Gover	Administration
Pesticide, Herbicide & Fertilizer Management Program	Public Works Director	David Ketner	Public Works

Vehicle & Equipment Cleaning Program	Assistant Town Manager	Franklin Gover	Administration
Pavement Management Program	Public Works Director	David Ketner	Public Works
Total Maximum Daily Load (TMDL) Requirements	N/A		d

4.2 Program Funding and Budget

In accordance with the issued permit, the Town of China Grove 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. The stormwater program currently receives funding of approximately \$5,000 per year; this is funded through general funds. The Assistant Town Manager position is funded through the general fund. The program is currently under-funded to conduct all the proactive elements of the permit. Further fiscal analysis and investigation of funding options (such as additional general fund allocation or a stormwater fee) will be conducted as indicated in BMP No. 3 in order to fully fund the program by Permit year three.

4.3 Shared Responsibility

The Town of China Grove 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 Town of China Grove 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 China Grove 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.

SWMP BMP or Permit Requirement	Implementing Entity & Program Name	Legal Agreement (Y/N)
Public Outreach	Regional Stormwater Partnership of the Carolinas	Y
Construction Runoff	Rowan County Sediment and Erosion Control	Y
Post Construction Runoff Plan Review	McGill and Associates	Y

4.4 Co-Permittees

There are no other entities applying for co-permittee status under the NPDES MS4 permits number NCS000515 for the Town of China Grove. 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	

4.5 Measurable Goals for Program Administration

China Grove will manage and report the following Best Management Practices (BMPs) for the administration of the Stormwater Management Program.

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	A constant	В	C	D		
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric		
1.	Annual Self-Assessment			TYROUTE		
	Perform an annual evaluation of SWMP implementation, suitability of SWMP commitments and any proposed changes to the SWMP utilizing the NCDEQ Annual Self-Assessment Template.	1. Prepare, certify and submit the Annual Self-Assessment to NCDEQ prior to August 31 each year.	1. Annually for permit years 1-4	1. Yes/No		
Permit Ref.	1.6: Permit Renewal Application Measures to submit a permit renewal NPDES MS4 permit.		n 180 days prior to the ex	piration date of the		
ВМР	A	В	C	D		
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric		

	Audit stormwater program	1. Participate in an	1 Permit Year 5	1. Yes/No
	implementation for compliance with	NPDES MS4 Permit		1. 105/110
	the permit and approved SWMP, and	Compliance Audit, as		
	utilize the results to prepare and	scheduled and performed		
	submit a permit renewal application package.	by EPA or NCDEQ.		
	package.	2. Self-audit and	2.Permit Year 5	2. Yes/No/Partial
		document any		
		stormwater program		
		components not audited		
		by EPA or NCDEQ utilizing the DEQ Audit		
		Template. Submit Self-		
		Audit to DEMLR		
		(required component of		
		permit renewal		
		application package).		
		3. Certify the stormwater	3. Permit Year 5	3. Date of permit renewa
		permit renewal application (Permit		application submittal
		renewal application		
		form, Self-Audit, and		
		Draft SWMP for the next		
	10	5-year permit cycle) and		
	1.00	submit to NCDEQ at		
	1	least 180 days prior to		1
	= =		1 1 11 30	
Permit	2.1.1: Adequate Funding and State	permit expiration.		
	2.1.1: Adequate Funding and Stat The permittee shall maintain adequate	permit expiration.	ement and manage the prov	visions of the SWMP and
Ref.	The permittee shall maintain adequate meet all requirements of this permit.	permit expiration. ffing funding and staffing to imple		
Ref. BMP	The permittee shall maintain adequate	permit expiration.	C	D
Ref. BMP No.	The permittee shall maintain adequate meet all requirements of this permit.	permit expiration. ffing funding and staffing to imple		
Permit Ref. BMP No.	The permittee shall maintain adequate meet all requirements of this permit. A	permit expiration. Ifing funding and staffing to imple B	C Schedule for	D Annual Reporting
Ref. BMP No.	The permittee shall maintain adequate meet all requirements of this permit. A Description of BMP	permit expiration. Ifing funding and staffing to imple B	C Schedule for	D Annual Reporting Metric
Ref. BMP No.	The permittee shall maintain adequate meet all requirements of this permit. A Description of BMP Adequate Funding Perform a fiscal analysis and explore options to obtain adequate program	permit expiration. Ffing funding and staffing to imple B Measurable Goal(s) 1. Complete a fiscal gap analysis	C Schedule for Implementation 1. Permit Year 1	Annual Reporting Metric 1. Yes/No/Partial, Reporting monetary value gap
Ref. BMP No.	The permittee shall maintain adequate meet all requirements of this permit. A Description of BMP Adequate Funding Perform a fiscal analysis and explore options to obtain adequate program funding to fully fund the stormwater	permit expiration. Ffing Funding and staffing to imple B Measurable Goal(s) 1. Complete a fiscal gap analysis 2. Determine available	C Schedule for Implementation	Annual Reporting Metric 1. Yes/No/Partial, Repor
Ref. BMP No.	The permittee shall maintain adequate meet all requirements of this permit. A Description of BMP Adequate Funding Perform a fiscal analysis and explore options to obtain adequate program funding to fully fund the stormwater program and meet all requirements of	permit expiration. Ifing funding and staffing to imple B Measurable Goal(s) 1. Complete a fiscal gap analysis 2. Determine available funding mechanisms and	C Schedule for Implementation 1. Permit Year 1	Annual Reporting Metric 1. Yes/No/Partial, Reporting monetary value gap
Ref. BMP No.	The permittee shall maintain adequate meet all requirements of this permit. A Description of BMP Adequate Funding Perform a fiscal analysis and explore options to obtain adequate program funding to fully fund the stormwater program and meet all requirements of the permit. Select and implement a	permit expiration. ffing funding and staffing to imple B Measurable Goal(s) 1. Complete a fiscal gap analysis 2. Determine available funding mechanisms and evaluate options	Schedule for Implementation 1. Permit Year 1 2. Permit Year 1	Annual Reporting Metric 1. Yes/No/Partial, Reporting monetary value gap 2. Yes/No/Partial
Ref. BMP No.	The permittee shall maintain adequate meet all requirements of this permit. A Description of BMP Adequate Funding Perform a fiscal analysis and explore options to obtain adequate program funding to fully fund the stormwater program and meet all requirements of the permit. Select and implement a funding strategy for the Phase II	permit expiration. ffing funding and staffing to imple B Measurable Goal(s) 1. Complete a fiscal gap analysis 2. Determine available funding mechanisms and evaluate options 3. Sect a funding	C Schedule for Implementation 1. Permit Year 1	Annual Reporting Metric 1. Yes/No/Partial, Reporting monetary value gap 2.Yes/No/Partial 3. Yes/No/Partial, Reporting
Ref. BMP No.	The permittee shall maintain adequate meet all requirements of this permit. A Description of BMP Adequate Funding Perform a fiscal analysis and explore options to obtain adequate program funding to fully fund the stormwater program and meet all requirements of the permit. Select and implement a	permit expiration. ffing funding and staffing to imple B Measurable Goal(s) 1. Complete a fiscal gap analysis 2. Determine available funding mechanisms and evaluate options	Schedule for Implementation 1. Permit Year 1 2. Permit Year 1	Annual Reporting Metric 1. Yes/No/Partial, Reporting monetary value gap

PART 5: PUBLIC EDUCATION AND OUTREACH PROGRAM

The Town of China Grove implements 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, China Grove 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)
Household Chemicals	General Public, Businesses, Municipal Employees
Used Motor Oil	General Public, Businesses, Municipal Employees
Litter	Restaurants, Grocery Stores, Commercial Businesses, Municipal Employees, General Public
Kitchen Fats, Oils, and Grease	Restaurants, Grocery Stores, Commercial Businesses, Municipal Employees, General Public
Dumpster leaks	Restaurants, Grocery Stores, Commercial Businesses, Municipal Employees, General Public
Yard Waste and Fertilizer	General Public, Businesses, Municipal Employees
Illicit Discharges	General Public, Businesses, Municipal Employees
Illegal Dumping	General Public, Businesses, Municipal Employees
Improper Disposal of Waste	General Public, Businesses, Municipal Employees
Sediment and Waste Management	Construction Sector

The Town of China Grove will manage, implement and report the following 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 agreen	each media, event or actinent.	vity, including those	
	crements impremented rocarry of				
ВМР	A	В	C	D	

No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
BMP	A	В	С	D
Permit Ref.	2.1.7, 3.2.3 and 3.6.5(c): Web Site Measures to provide a web site design including ordinances, or other regular mechanisms, providing the legal aut and SWMP. The web page shall also design standards, checklists and/or or	gned to convey the progra atory mechanisms, or a list hority necessary to implest o provide developers with	et identifying the ordinance ment and enforce the requ	es or other regulatory irements of the permit
		town events. 7. Evaluate educational materials	7. Annually Permit Years 2-5	items are given out 7. Yes/No/Partial Materials updated?
	ingth or other transfer or oth	6. Provide handouts, coloring books, activity books, and prizes at all	6. Continuously Permit Years 2-5	6. Yes/No/Partial; Report how many promotional/educational
		awareness at Town Hall kiosk 5. Attend all town events with booth and SW truck	5. Continuously Permit Years 2-5	5. Yes/No/Partial; Report how many events?
	411 1 2 3 TE	brochure. 4. Display flyers for illicit discharge, illegal dumping, and general	4. Continuously Permit Years 2-5	4. Yes/No/Partial; Report number of materials distributed
		target audiences, a minimum of one specific audience each year. Distribute the general stormwater awareness	Years 2-5	number of educational items distributed
		stormwater awareness brochure for all audiences. 3. Distribute brochures to	3. Continuously Permit	3. Yes/No/Partial; report
		handouts, and flyers for residential, and industry specific uses identified as target audiences in Table 12 and one general	Z. Fermit Fear 1	2. res/no/Partial
		significant stormwater impacts and why they were selected. 2. Develop brochures,	2. Permit Year 1	2. Yes/No/Partial
	may also use Public Education & Outreach materials supplied by the state when available.	stressors and likely sources. Maintain a description of the target audiences likely to have		
	materials to appropriate target groups which include hotline contact information to report pollution. We	Table 12 maintaining a description of the target pollutants and/or	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1. Fourton artist
	Distribute stormwater educational	1. Review and update	1. Permit Year 1	1. Yes/No/Partial

Table 1	13: Public Education and Outreac			
	The China Grove web page will provide information on the town's stormwater program, including the	1. Establish and maintain Town Stormwater web page with up to date	1. Permit Year 1	1. Yes/No/Partial
	permit, SWMP, applicable ordinances, and annual reports. The web page will also include a	information 2.Include information on program	2. Permit Year 1	2. Yes/No/Partial
	stormwater issue reporting mechanism, educational materials	3. Include information for developers	3. Permit Year 1	3. Yes/No/Partial
	developed by the town, and links to additional stormwater educational resources. The web page will also serve to advertise the stormwater hotline, and opportunities for involvement.	4. Monitor website traffic	4. Annually beginning Permit Year 1	4. How many visits?
	mvorvement.	5. Evaluate website	5. Annually beginning Permit Year 1	5. Yes/No/Partial;
Ref.	Management for a stamper star leading			
ВМР	A	helpline for the purpose of B	f public education and out	treach.
		1	C Schedule for	D Annual Reporting
No.	A	В	C	D
No.	A Description of BMP Stormwater Hotline Establish a stormwater hotline line for the purpose of public outreach	B Measurable Goal(s) 1. Establish Hotline and email for public use	C Schedule for Implementation 1. Permit Year 1	D Annual Reporting
BMP No.	A Description of BMP Stormwater Hotline Establish a stormwater hotline line	B Measurable Goal(s) 1. Establish Hotline and	C Schedule for Implementation	D Annual Reporting Metric
No.	A Description of BMP Stormwater Hotline Establish a stormwater hotline line for the purpose of public outreach	B Measurable Goal(s) 1. Establish Hotline and email for public use 2. Establish specific staff member who will serve as stormwater education	C Schedule for Implementation 1. Permit Year 1	D Annual Reporting Metric 1. Yes/No/Partial

Implement Media Program		I	
Traditional and Social Media Campaign with Staff and Regional	1. TV Ads	1. Annually beginning Permit Year 1	1.Yes/No/Status Number of viewers
Stormwater Partnership of the Carolinas.	2. Radio Ads	2. Annually beginning Permit Year 1	2. Yes/No/Status Number of Ads
-	3. Website	3. Annually beginning Permit Year 1	3. See BMP 5
	4. Promote the RSPC Website	4. Annually beginning Permit Year 1	4. Yes/No/Status
	5. Social Media - The town's existing Facebook account will be	Annually beginning Permit Year 1	5. Yes/No/Status; Document Number of Posts
	used to reach the residential target		1 0313
	audience and share information related to stormwater issues		

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 China Grove will manage, implement and report the following public involvement and participation BMPs.

Permit Ref.	3.3.1: Public Input Mechanisms for public involvement	nt that provide for input or	n stormwater issues and t	he stormwater program
ВМР	A	В	C	D
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting
8.	Stormwater Public Input Email	Vi e		Metric
	Establish a Stormwater Email	Establish an email for stormwater input	1. Permit Year 1	1. See BMP 6
		2. Promote on all educational materials	2. Permit Year 1	2. See BMP 6
		3. Maintained by Stormwater Administrator	3.Permit Year 1	3. See BMP 6
		4.	4.	4.
		5.	5.	5.
9.	Hotline/Help Line			
	The Town promotes its phone number a hotline for public	1. See BMP No. 6	1. See BMP No. 6	1. See BMP No. 6
	involvement	2.	2.	2.
		3.	3.	3.
10.	Town Stormwater Webpage	1		
	The web page will provide links to information on the City's stormwater	1. See BMP No. 5	1. See BMP No. 5	1. See BMP No. 5
1	program, including the permit, SWMP, applicable ordinances, and annual reports.	2.	2.	2.
Permit Ref.	3.3.2: Volunteer Opportunities Measures to provide volunteer opportunities	ortunities designed to pror	note ongoing citizen part	ticipation.
BMP	A	В	C	D
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric

	Volunteer program aimed at Boy Scouts, or youth organization, to mark and inspect catch basins, limited opportunity	Partner with local organizations to complete drain marking programs	1. Permit Years 1-5	Yes/No/Status; Report number of events and participants
		2.Mark and inspect drains	2. Permit Years 1-5	2. Yes/No/Status; Report Number of Inlets Marked,
12.	Social Media Programs		o do	
	Volunteer program for residents to report stream conditions, pollution, wildlife, and activities near creeks	Start social media marketing for stormwater program	1. Permit Year 1	Yes/No/Status, Document Social Media Campaigns
	and streams.	2. Develop Social Media materials for new stream monitoring program	2. Permit year 2	2. Yes/No/Status, Document new advertisements and materials
		3. Implement new monitoring program	3. Permit year 3	3. Yes/No/Status, Document Program Participants
	71.0	4. Evaluate Program	4. Annually, Permit Year 3-5	4. Yes/No/Status Report Program achievements
13	Curb Clean Up Weekend		7	
	A town wide effort to clean curbs and curb lines. Residents can document their efforts through social media tags	Develop bi-annual curb clean-up program	1. Bi-annually, beginning Permit Year 1	1. Yes/No/Status; Report program policy and details
	such as #cleanupgrantscreek	2. Implement the program	2. Bi-annually, Permit Years 2-5	2. Yes/No/Status; Report Program Implementation Status
		3. Social media post with event highlights	3. Annually, Permit Year 2-5	3. Yes/No/Status; Report Participation Numbers
		4. Evaluate Program	4. Annually, Permit Year 2-5	4. Yes/No/Status Report program achievements

PART 7: ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM

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

Permit Ref.	3.4.1: MS4 Map Measures to develop, update and maintain a municipal storm sewer system map including stormwater conveyances, flow direction, major outfalls and waters of the United States receiving stormwater discharges.					
ВМР	A	B	C	D D		
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric		
14.	Maintain Storm Sewer System Base	Maintain Storm Sewer System Base Map of Major Outfalls				
	The MS4 map will be completed through GIS analysis of existing data. Major outfalls will be identified and	Add a layer identifying major outfalls to the map and number	1. Permit Year 1	1. Yes/No/Partial; Repor number of major outfalls identified		
	numbered, and flow directions and receiving waters will be added.	2. Add flow directions to the map	2. Permit Year 2	Yes/No/Status; Report map updates		
		3. Highlight receiving waters	3. Permit Year 2	3. Yes/No/Status; Update map		
15.	Continual Updates to MS4 Map					
	The MS4 map will be continuously updated for completeness.	1. When new conveyances and outfalls are located or constructed add them to the map	1. Continuously	1. Yes/No/Status; Report Number of Outfalls Added		
Permit Ref.	3.4.2: Regulatory Mechanism Measures to provide an IDDE ordir prohibit, detect, and eliminate illicit including enforcement procedures a	t connections and discharg	nechanism that provides es, illegal dumping and	s legal authority to spills into the MS4,		
ВМР	A	В	C	D		
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric		
16.	Maintain Adequate Legal Authoritie	S		1,200,10		
	Review annually the IDDE ordinances or other regulatory mechanisms, or adopt any new ordinances or other regulatory	Review ordinance and update if revision is required to maintain legal authority	1. Permit years 1-5	1.Yes/No/Partial; Report if a revision is required and if a revision is made		
	mechanisms that provide the Town of China Grove with adequate legal authority to prohibit illicit connections and discharges and	2.	2.	2.		

17.	Enforcement				
	Implement a mechanism to track the issuance of notices of violation and enforcement actions as administered	1. Implemented IWORQ software to issue and track violations	1. Permit Year 1	1. Yes/No/Status; Annual IWORQ reporting	
	by the town. This will include the ability to identify chronic violators for initiation of actions to reduce noncompliance.	2. Code Enforcement Officer & Stormwater Administrator issue violations	2. Permit Year 2-5	2. Yes/No/Status, Report Number of Violations issued	
		3.	3.	3.	
	b) Conduct routin c) Identify illicit of	ischarges identified as sig	enificant contributors of pointo: t discharges, ections, ees,	pollutants to the MS4.	
	e) Evaluate and assess the IDDE Program.				
BMP	A	В	C	D	
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	
18.	Observe Dry Weather Flows				
	Maintain a program for conducting dry weather flow field observations	Develop a written IDDE Program	1. Permit Year 1	1. Yes/No/Partial; Policy Adopted	
	in accordance with a written procedure for detecting and removing the sources of illicit discharges	2. Submit IDDE Program for NCDEQ review and Approval	2. Permit Year 1	2. Yes/No/Partial; Report Date Submitted to NCDEQ	
	the sources of finest discharges	3. Train Staff to perform dry weather flow inspections and all field	3. Permit Years 2-5	3. Yes/No/Partial; Number of staff trained	
		staff that may encounter			
		staff that may encounter illicit discharges 4. Implement written IDDE Program	4. Permit Years 2-5	4. Yes/No/Status	
		staff that may encounter illicit discharges 4. Implement written IDDE Program 5. Perform dry weather major outfall inspections	4. Permit Years 2-5 5. Annually beginning permit year 2	4. Yes/No/Status 5. Yes/No/Partial; Number of inspections completed	
19.	Investigate sources of identified illicit	staff that may encounter illicit discharges 4. Implement written IDDE Program 5. Perform dry weather major outfall inspections	5. Annually beginning	5. Yes/No/Partial; Number of inspections	

Table 1	discharges, illicit connections, and	2. Investigate reported	2. Permit Years 2-5	2. Yes/No/Status; Repor
	illegal dumping.	illicit discharges	2. Formit Fours 2 3	the number of found/reported, investigated, confirmed as illicit discharge and resolved/eliminated
				<u> </u>
20	IDDE Program Evaluation	1		
	Evaluate and assess the Town of China Grove IDDE Program.	1. Review the annual results of dry weather flow observations and NOVs issued	1. Permit Years 2-5	1. Yes/No/Status
		2. Document any pollutant trends	2. Permit Years 2-5	2. Yes/No/Status
		3. Revise program SOP to address trends and concerns	3. Annually, Beginning permit year 2	3. Yes/No/Status
		4. Focus outreach on identified trends	4. Annually, Beginning permit year 2	4. Yes/No/Status
	3.4.4: IDDE Tracking Measures for tracking and document observed, the results of the investig	nting the date(s) an illicit of attion, any follow-up of the	discharge, illicit connection in the date to	on or illegal dumping wa
Ref.		ation, any follow-up of th	e investigation, the date to identify chronic violator C	the investigation was rs.
Ref. BMP	Measures for tracking and documer observed, the results of the investig closed, the issuance of enforcement A Description of BMP	ation, any follow-up of the actions, and the ability to B Measurable Goal(s)	e investigation, the date to identify chronic violator C Schedule for	the investigation was TS. D Annual Reporting
BMP No.	Measures for tracking and documer observed, the results of the investig closed, the issuance of enforcement	ation, any follow-up of the actions, and the ability to B Measurable Goal(s)	e investigation, the date to identify chronic violator C	the investigation was rs.
BMP No.	Measures for tracking and documer observed, the results of the investig closed, the issuance of enforcement A Description of BMP	ation, any follow-up of the actions, and the ability to B Measurable Goal(s)	e investigation, the date to identify chronic violator C Schedule for	the investigation was TS. D Annual Reporting
BMP No.	Measures for tracking and document observed, the results of the investig closed, the issuance of enforcement A Description of BMP Track and document investigations of China Grove will track all investigations and document the date	Measurable Goal(s) I Develop procedures for inspections in the IDDE Program 2. Develop an inspection template for iWorq software to track cases	e investigation, the date to identify chronic violator C Schedule for Implementation	he investigation was TS. D Annual Reporting Metric
BMP	Measures for tracking and document observed, the results of the investig closed, the issuance of enforcement A Description of BMP Track and document investigations of the investigations and document the date the illicit discharge was observed; the results of the investigation; any follow-up of the investigation; and	Measurable Goal(s) I Develop procedures for inspections in the IDDE Program 2. Develop an inspection template for iWorq	e investigation, the date to identify chronic violator C Schedule for Implementation 1. Permit Year 1	he investigation was S. D Annual Reporting Metric 1. Yes/No/Status
BMP No.	Measures for tracking and document observed, the results of the investig closed, the issuance of enforcement A Description of BMP Track and document investigations of the investigations and document the date the illicit discharge was observed; the results of the investigation; any follow-up of the investigation; and the date the investigation was closed.	B Measurable Goal(s) of illicit discharges 1. Develop procedures for inspections in the IDDE Program 2. Develop an inspection template for iWorq software to track cases 3. Identify case trends to	e investigation, the date to identify chronic violator C Schedule for Implementation 1. Permit Year 1 2. Permit Year 1	he investigation was TS. D Annual Reporting Metric 1. Yes/No/Status 2. Yes/No/Status 3.Yes/No/Status;
Permit Ref. BMP No. 21. Permit Ref.	Measures for tracking and document observed, the results of the investig closed, the issuance of enforcement A Description of BMP Track and document investigations of the investigations and document the date the illicit discharge was observed; the results of the investigation; any follow-up of the investigation; and	Measurable Goal(s) Measurable Goal(s) of illicit discharges 1. Develop procedures for inspections in the IDDE Program 2. Develop an inspection template for iWorq software to track cases 3. Identify case trends to help guide education unicipal staff and contract cit discharge, illicit connellicit discharges, illic	c identify chronic violator C Schedule for Implementation 1. Permit Year 1 2. Permit Year 1 3. Permit Years 2-5 ors who, as part of their nation, illegal dumping or naections, illegal dumping or naections.	he investigation was rs. D Annual Reporting Metric 1. Yes/No/Status 2. Yes/No/Status 3.Yes/No/Status; Report Trends cormal job spills. Training shall g and spills. Each staff

BMP No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
22.	Employee Training		Implementation	Metric
	Develop a program to educate town staff of indicators of potential illicit discharges/connections and illegal dumping and the appropriate avenues through which to report suspected illicit discharge. (See BMP No. 20 for	Develop staff training program for all employees	1. Permit Year 1	1. Yes/No/Partial
		Train all staff to recognize and report an illicit discharge	2. Permit Year 2	2. See BMP 18
	SOPs by which to train staff)	3. Train new staff that will be part of the IDDE program	3. Annually, beginning in permit year 3	3. Yes/No/Partial; Reportopics, training date, and number of attendees
		4.	4.	4.
23.	Provide Public Education			
	Inform employees, businesses, and the general public of hazards associated with illegal discharges and	1. Create seasonal IDDE flyers for municipal facilities, website	1. Permit Year 1	1. See BMPs 8-10
	improper disposal of waste	2. Display IDDE flyer at municipal facilities, website	2. Permit Year 1	2.See BMPs 8-10
		NAME AND ADDRESS OF THE PARTY O	TO AND THE STATE OF THE STATE O	
		3. Distribute Illicit Discharge Brochure to residents	3. Permit Year 1	3. See BMPs 8-10
Permit Ref.	3.4.6: IDDE Reporting Measures for the public and staff to publicized to facilitate reporting and personnel.	Discharge Brochure to residents report illicit discharges, i	llegal dumping and spills	s. The mechanism shall be
Permit Ref.	Measures for the public and staff to publicized to facilitate reporting and	Discharge Brochure to residents report illicit discharges, i	llegal dumping and spills vide rapid response by ap	s. The mechanism shall be
Ref.	Measures for the public and staff to publicized to facilitate reporting and personnel. A Description of BMP	Discharge Brochure to residents report illicit discharges, is shall be managed to pro	llegal dumping and spills vide rapid response by ap	s. The mechanism shall be opropriately trained
Ref. BMP	Measures for the public and staff to publicized to facilitate reporting and personnel. A	Discharge Brochure to residents report illicit discharges, it shall be managed to pro	llegal dumping and spills vide rapid response by ap	s. The mechanism shall be opropriately trained D Annual Reporting
BMP No.	Measures for the public and staff to publicized to facilitate reporting and personnel. A Description of BMP	Discharge Brochure to residents report illicit discharges, it shall be managed to pro	llegal dumping and spills vide rapid response by ap	s. The mechanism shall be opropriately trained D Annual Reporting
BMP No.	Measures for the public and staff to publicized to facilitate reporting and personnel. A Description of BMP Stormwater Hotline A hotline will be maintained for citizens to ask stormwater questions and report stormwater issues. (See	Discharge Brochure to residents report illicit discharges, i shall be managed to pro B Measurable Goal(s)	llegal dumping and spills vide rapid response by ap C Schedule for Implementation	s. The mechanism shall be opropriately trained D Annual Reporting Metric



PART 8: CONSTRUCTION SITE RUNOFF CONTROL PROGRAM

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

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

Permit Reference	State or Local Program Name	Legal Authority	Implementing Entity	Meets Whole or Part of Requirement
3.5.1 - 3.5.4	Rowan County Delegated SPCA Program*	15A NCAC Chapter 04 NCDEQ	Rowan County	Whole
1		Approved Delegation Interlocal Agreement		

^{*} The local delegated SPCA Program ordinance(s)/regulatory mechanism(s) can be found at: https://library.municode.com/nc/rowan_county/codes/code_of_ordinances?nodeId=COOR_CH18SOE RSE

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

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.				
ВМР	A	В	C	D	
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	
26.	Municipal Staff Training				
	Train municipal staff who receive calls from the public on the protocols for referral and tracking of construction site runoff control	1. Train municipal staff on proper handling of construction site runoff control complaints.	1. Annually Permit Year 1 (FY20/21)	1. Number of staff trained	
	complaints.	2.	2.	2.	
27.	Stormwater Hotline				
		1. See BMP No. 6	1. See BMP No. 6	1. See BMP No. 6	

	A hotline will be maintained for	2.	2.	2.	
	citizens to ask stormwater questions and report stormwater issues (See BMP No. 6).	3.	3.	3.	
Permit Ref.	3.5.5: Waste Management Measures to require construction si truck washout, chemicals, litter, and water quality.	te operators to control was d sanitary waste at the con	ste such as discarded bui struction site that may c	ilding materials, concrete ause adverse impact to	
BMP	A marginal and A marginal and	B management	C	D	
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	
28.	Establish and Maintain Legal Authority				
	Develop and implement an ordinance to require construction site operators	1. Adopt ordinance	1.Permit Year 1	1. Yes/No/Partial; Document and report	
	to control waste.	2. Maintain legal authority	2. Permit Year 1 - 5	2. Yes/No/Status; Assess and report annually	
		3. Implement and Enforce Ordinance	3. Permit Years 2-5	3. See BMP 19	
29.	Contractor Education				
	Make available through paper and electronic means materials appropriate for developers	1. Create brochure to share at preconstruction meetings	1. Permit Year 1	1. Yes/No/Status	
	concerning construction site solid waste management.	2. Add brochure to website	2. Permit Year 1	2. Yes/No/Status	
		3. Distribute brochure at preconstruction meetings	3. Permit Years 2-5	3. Yes/No/Status; Number of sheets distributed	

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 China Grove 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 China Grove 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
Water Supply Watershed (WS-IV)	15A NCAC 2B .06200624	China Grove Unified Development Ordinance Chapter 3



Permit Requirements for Plan Review and Approval	Municipal Ordinance/Code Reference(s) and/or Document Title(s)	Date Adopted
3.6.2(a) Authority	Town of China Grove Code of Ordinances Section 54-332	8-2-2011
3.6.3(a) & 15A NCAC 02H.0153(c) Federal, State & Local Projects	Unified Development Ordinance 8.11.8	9-24-2019
3.6.3(b) Plan Review	Unified Development Ordinance 8.11.9	9-24-2019
3.6.3(c) O&M Agreement	Unified Development Ordinance 8.11.11	9-24-2019
3.6.3(d) O&M Plan	Unified Development Ordinance 8.11.11	9-24-2019
3.6.3(e) Deed Restrictions/Covenants	Unified Development Ordinance8.11.10 & 8.11.11	9-24-2019
3.6.3(f) Access Easements	Unified Development Ordinance 8.11.10	9-24-2019
Permit Requirements for Inspections and Enforcement	Municipal Ordinance/Code Reference(s) and/or Document Title(s)	Date Adopted
3.6.2(b) Documentation	Unified Development Ordinance 8.11.10	9-24-2019
3.6.2(c) Right of Entry	Unified Development Ordinance 8.11.10	9-24-2019
3.6.4(a) Pre-CO Inspections	Unified Development Ordinance 8.11.11	9-24-2019
3.6.4(b) Compliance with Plans	Unified Development Ordinance 8.11.11	9-24-2019
3.6.4(c) Annual SCM Inspections	Unified Development Ordinance 8.11.11	9-24-2019
3.6.4(d) Low Density Inspections	Unified Development Ordinance 8.11.11	9-24-2019
3.6.4(e) Qualified Professional	Unified Development Ordinance 8.11.11	9-24-2019
Permit Requirements for Fecal Coliform Reduction	Municipal Ordinance/Code Reference(s) and/or Document Title(s)	Date Adopted
3.6.6(a) Pet Waste	Town of China Grove Code of Ordinances Section 10-24	8-2-2016
3.6.6(b) On-Site Domestic Wastewater Treatment	Unified Development Ordinance 8.10.1	8-1-2006

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

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	A	В	C	D	
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric	
30.	Standard Reporting				
	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. Yes/No/Partial; Number of plan reviews performed for low density and high density	

	assessment process. Data shall be	2. Track number of low	2. Continuously	2. Yes/No/Partial,
	provided for each Post-Construction/	density and high-density	Permit Years 1-5	Number of plan
	Qualifying Alternative Program	plans approved.	Tomic Tours 1 5	approvals issued for low
	being implemented as listed in Tables	1.		density and high density
	18 and 19.	3. Maintain a current	3. Continuously	3. Yes/No/Partial;
	0.5	inventory of low-density	Permit Years 1-5	Summary of number and
		projects and constructed		type of SCMs added to
		SCMs including SCM		the inventory; and
		type or low-density		number and acreage of
		acreage, location and last inspection date.	. 3	low-density projects
		4. Track number of SCM	4. Continuously	constructed.
		inspections performed.	Permit Years 1-5	4. Yes/No/Partial; Number of SCM
		mspections performed.	Termit Tears 1-3	inspections.
		5. Track number of low-	5. Continuously	5. Number of low density
		density inspections performed.	Permit Years 1-5	projects inspected.
		6. Track number and	6. Continuously	6. Number of
		true a a C and Camarana	D '. X7 1 5	
Permit	3.6.2. Legal Authority	type of enforcement actions taken.	Permit Years 1-5	enforcement actions issued.
	3.6.2: Legal Authority Measures to maintain adequate legal designs and proposals for new develor control measures will be installed, in plans, inspection reports, monitoring with the Post-Construction Stormwainspecting at reasonable times any fluischarges to determine whether the Program.	l authorities through ordin lopment and redevelopme mplemented, and maintain g results, and other informater Management Program accilities, equipment, pract	nance or other regulatory ent to determine whether ned, (b) request informa- nation deemed necessary n, and (c) enter private p ices, or operations relate	issued. y mechanism to: (a) review adequate stormwater tion such as stormwater to evaluate compliance roperty for the purpose of ed to stormwater
Permit Ref.	Measures to maintain adequate legal designs and proposals for new develor control measures will be installed, in plans, inspection reports, monitoring with the Post-Construction Stormwal inspecting at reasonable times any flushearges to determine whether the	l authorities through ordin lopment and redevelopme mplemented, and maintain g results, and other informater Management Program accilities, equipment, pract	nance or other regulatory ent to determine whether ned, (b) request informa- nation deemed necessary n, and (c) enter private p ices, or operations relate	issued. y mechanism to: (a) review adequate stormwater tion such as stormwater to evaluate compliance roperty for the purpose of ed to stormwater
BMP No.	Measures to maintain adequate legal designs and proposals for new develor control measures will be installed, in plans, inspection reports, monitoring with the Post-Construction Stormwainspecting at reasonable times any fluischarges to determine whether the Program. A Description of BMP	l authorities through ordin lopment and redevelopme mplemented, and maintain g results, and other informater Management Program accilities, equipment, pract are is compliance with the	nance or other regulatory ont to determine whether ned, (b) request informa nation deemed necessary n, and (c) enter private p ices, or operations relate Post-Construction Storm C Schedule for Implementation	issued. y mechanism to: (a) review adequate stormwater tion such as stormwater to evaluate compliance roperty for the purpose of ed to stormwater mwater Management D Annual Reporting Metric
BMP No.	Measures to maintain adequate legal designs and proposals for new develoration measures will be installed, in plans, inspection reports, monitoring with the Post-Construction Stormwal inspecting at reasonable times any fluischarges to determine whether the Program. A Description of BMP Site Plan Design Review - This permit references provided in Table 19.	l authorities through ordin lopment and redevelopme mplemented, and maintain g results, and other informater Management Program accilities, equipment, pract are is compliance with the	nance or other regulatory ont to determine whether ned, (b) request informa nation deemed necessary n, and (c) enter private p ices, or operations relate Post-Construction Storm C Schedule for Implementation	issued. y mechanism to: (a) review adequate stormwater tion such as stormwater to evaluate compliance roperty for the purpose of ed to stormwater mwater Management D Annual Reporting Metric
Ref.	Measures to maintain adequate legal designs and proposals for new develor control measures will be installed, in plans, inspection reports, monitoring with the Post-Construction Stormwal inspecting at reasonable times any fluid discharges to determine whether the Program. A Description of BMP Site Plan Design Review - This perm	l authorities through ordin lopment and redevelopme mplemented, and maintain g results, and other informater Management Program accilities, equipment, pract are is compliance with the	nance or other regulatory ont to determine whether ned, (b) request informa nation deemed necessary n, and (c) enter private p ices, or operations relate Post-Construction Storm C Schedule for Implementation	y mechanism to: (a) review adequate stormwater to evaluate compliance roperty for the purpose of ed to stormwater mwater Management D Annual Reporting Metric

Table 2	0: Post Construction Site Runoff C	Control BMPs	at in the state of the second	resident land, displaces
Permit Ref.	3.6.3: Plan Review and Approval Measures to maintain plan review a State, and local government project entire MS4 permitted area, unless the program, (b) Conduct site plan review or equal to one acre, and sites that development or sale for compliance apply within your jurisdiction, (c) I complies with 15A NCAC 02H .10 that complies with 15A NCAC 02H protective covenants, that require the that each SCM and associated main NCAC 02H 1050 (9) and (10).	and approval authority, starts to comply with Post-Combine entity is subject to its of the entity is subject to each of all new developments of all new developments that each project has the project to be maintained.	onstruction Program requirement NPDES MS4 permit cent and redeveloped sites that are part of a larger concept and the qualifying all as an Operation and Mair as an Operation and project has an Operation at each project has recorded consistent with approved	irements throughout the or a qualifying alternative that disturb greater than ommon plan of ternative programs that intenance Agreement that on and Maintenance Plan led deed restrictions and ed plans, and (f) Ensure
ВМР	A	В	C	D
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
32.	Legal Authority			1200,10
	Maintain compliance by Federal, State, and Local government projects and revise reference to stormwater design manual to specify NCDEQ Stormwater Design manual.	1. Revise code to require Federal, State, and local government projects to comply with post construction requirements unless subject to its own NPDES MS4 permit or qualifying alternative program	1. Permit year 1	1. Yes/No/Partial; Review and assess effectiveness
		2. Revise code to specify NCDEQ Stormwater Design Manual as the reference stormwater design manual	2. Permit year 1	2. Yes/No/Partial, Report code reference and date adopted
33.	Developer Resources			
	Establish a developer stormwater resources section on the city website so relevant materials are easily accessible for developers.	1. Upload links to ordinances, post construction requirements, link to design standards, and other relevant material to website	1. Permit year 1, in conjunction with stormwater website development	1. Yes/No/Partial; link to webpage
		2. Update when changes to resources occur	2. Continuously	2. Yes/No/Partial; Report date of updates and changes made
34.	O&M Plan			
	Maintain an ordinance requiring each stormwater control measure to have an Operation and Maintenance Plan	Maintain legal authority through ordinance revisions	1. Permit Year 1	1. Yes/No/Partial; Review and assess effectiveness

Table 2	0: Post Construction Site Runoff C	Control BMPs	in the control of the			
	that complies with 15A NCAC 02H .1050(13)	2. Enforcement of new code by requiring approval of O&M Plan by Stormwater Administrator prior to plan approval	2. Continuously, after ordinance is adopted.	2. Yes/No/Partial; Number of O&M plans approved		
Permit Ref.	3.6.4: Inspections and Enforcement Measures to maintain inspection and construction inspections prior to iss Alternatively, the project owner may (b) Ensure that the project has been inspection of each permitted SCM to Agreement, (d) Ensure inspection of that inspections be conducted by a c	d enforcement authority, uing a Certificate of Occupy provide a surety bond to constructed in accordance on ensure compliance with flow density projects at 1	upancy or a Temporary C o guarantee compliance ve with the approved plan on the approved Operation	ertificate of Occupancy. vith the approved plan(s), (s), (c) Ensure annual and Maintenance		
BMP	A	В	C	D		
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric		
35.	Inspection of low-density projects					
	Establish the legal authority for inspection of low-density projects at least once during the permit term; and	Establish legal authority through code revision	1. Permit year 2	1. Yes/No/Partial; Report code reference and date adopted		
	carry out the inspections.	2. Conduct inspection of 20% of low-density projects each year (See BMP No. 30.5)	2.Permit Year 2	2. Yes/No/Partial		
36.	Inspection Tracking					
	Track the results of regular postconstruction SCM and low-density	1. Establish inspection tracking mechanism to meet all requirements of	1. Permit year 2	1. Yes/No/Status		
	inspections to provide documentation and the ability to identify chronic violators.	2. Implement Inspection tracking	2. Continuously Permit Years 3-5	2. Yes/No/Status		
37.	Inventory of SCM and low-density pr	rojects		-		
	Develop a comprehensive inventory of permitted post-construction SCMs and low-density projects to be utilized for inspections and tracking.	1. Establish list of existing structural SCMs and low-density projects	1. Permit year 1	1. Yes/No/Status, Number of SCMs and low-density projects inventoried		
		2. Develop a low-density inspection and enforcement SOP to standardize and consistently manage process	2. Permit year 1	2. Yes/No/Status		

Table 2	0: Post Construction Site Runoff C	Cantral RMDs				
Table 2	v. 1 ost Constitution Site Runon C		THE PERSON NAMED IN COLUMN	CHEST CHIEF STATE OF THE STATE OF		
		3. Issue letter of notification to owners making them aware of upcoming inspections	3. Permit year 1	3. Yes/No/Status; Number of letters sent		
		4. Add SCMs and low- density projects to inventory list when project as-builts are approved	4. Permit year 1	4. Yes/No/Partial		
Permit Ref.	3.6.6: Fecal Coliform Reduction Measures to control, to the maximu .1017(7). At a minimum, the prograchieved by revising an existing litt component, if applicable, which ma operation and maintenance of such	ram shall include: (a) A peter ordinance, and (b) An any be coordinated with loc	et waste management con on-site domestic wastewa	nponent, which may be atter treatment system		
BMP	A	В	C	D		
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric		
38.	Pet Waste Litter Program					
	Review the Town of China Grove pet Waste disposal ordinance	Review ordinance for Pet Waste disposal requirements and Update	1. Permit Year 1	1. Yes/No/Status		
		2. Include pet waste disposal information on social media and website	2. Permit Year 1	2. Yes/No/Status; Report number of posts/views		
		3. Maintain current town owned Pet Waste Stations	3. Permit Year 1	3. Yes/No/Status; Number of bags replaced		
		4. Review Pet Waste Station Locations	4. Continuously Permit Years 2-5	4. Yes/No/Partial; New stations required? Relocations?		
		5.	5.	5.		
39.	Septic System Education Program	•	1	1 111 1211		
	Provide Educational Brochures to town residents who have private septic systems regarding operation and maintenance	Develop brochure addressing the operation and maintenance of private septic systems	1. Permit Year 2	1. Yes/No/Status		
		2. Identify parcels using private septic systems and distribute educational brochure annually	2. Permit Years 3-5	2.Yes/No/Status, Report number of brochures mailed		
		3.	3.	3.		
		4.	4.	4.		
				1		



PART 10: POLLUTION PREVENTION AND GOOD HOUSEKEEPING PROGRAMS

This SWMP provides a comprehensive pollution prevention and good housekeeping strategy for the Town of China Grove 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 China Grove will manage, implement and report the pollution prevention and good housekeeping BMPs as specified in Table 21 below for each required program.

Table 2	1: 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.					
ВМР	A	В	C	D		
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric		
40.	Inventory of Municipal Facilities					
	Develop and maintain an up-to-date inventory of municipal facilities with potential to generate polluted runoff.	1. Compile list of existing City-owned facilities	1. Permit Year 1	1. Yes/No/Partial; Number of facilities inventoried; date list is completed		
		2. Perform initial inspection of facilities for potential to generate polluted runoff or requiring spill response procedures. Classify facilities as having high or low potential for stormwater pollution	2. Permit year 2	2. Yes/No/Partial; Number of inspections performed and number of facilities classified as high potential and low potential		

Table 2	1: Pollution Prevention and Good		reset the contraction of	ged animality due to		
		3. Determine which facilities require a SPCC Plan	3. Permit year 2	3. Yes/No/Partial; Number of SPCC Plans required		
		4. Determine which facilities require a NPDES Industrial permit (See BMP No. 50)	4. See BMP No. 50	4. See BMP No. 50		
		5. Update inventory as needed when facilities are added or closed	5. As required	5. Yes/No/Partial; Number of facilities added/revisions made		
41.	Facility Inspections					
	Inspection of Town facilities to confirm good housekeeping practices are being followed	1. Establish a SOP for town facility inspections, including an inspection schedule, inspection report documentation, and tracking system	1. Permit Year 1	1. Yes/No/Partial; Number of inspections and issues corrected		
		2. Implement annual facility inspections for high stormwater pollution potential facilities and once per permit term inspections for low potential facilities	2. Annually conduct inspections	2. Yes/No/Partial; Number of inspections and issues corrected		
12.	Staff Training	Tacinities				
13	Develop or identify a staff training program for general stormwater pollution prevention and provide to public works department employees (See BMP No. 45).	1. See BMP No. 45	1. See BMP No. 45	1. See BMP No. 45		
Permit Ref.	3.7.2: Spill Response Program Measures for facilities and operations the runoff if spilled. The permittee shall measures.	hat store and/or use materials aintain written spill response	s that have the potential to e procedures and train staff	contaminate stormwater on spill response		
ВМР	A	В	C	D		
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting		
13.	Inventory of facilities with Spill potential Implementation Metric					
4.	Maintain a list of city facilities and operations storing materials that would be a pollutant if spilled and introduced to the stormwater system and classify by hazard and quantity (See BMP No. 40).	1. See BMP 40	1. See BMP 40	1. See BMP 40		
	Spill Response Procedures					

	Maintain spill response procedures	1. Review general spill	1. Permit year 1	1. Yes/No/Partial; Are	
	and continue training of appropriate staff.	response procedures		procedures adequate? - yes/no/status	
		2. Review specific spill response procedures for town facilities and operations with potential to produce high hazard spills	2. Permit year 1	2. Yes/No/Partial; Are procedures adequate? - yes/no/status	
		3. Update as facilities and operations are revised	3. As required	3. Yes/No/Partial; Number of additions or revisions made	
		4. Train new fire department staff in spill response procedures	4. As required	4. Yes/No/Partial; Number of new staff trained	
		5. Train staff at facilities with potential for high hazard spills in first response actions and reporting procedures	5. Annually	5. Yes/No/Partial; Number of staff trained	
				The second secon	
	3.7.3: MS4 Operation and Maintena Measures to minimize pollutants in the maintenance staff training on stormwa collection system including catch basin documentation.	ance Program e stormwater collection systemeter awareness and pollution p	prevention, perform MS4 in	spections, maintain the	
Permit Ref. BMP	Measures to minimize pollutants in the maintenance staff training on stormwa collection system including catch basis	ance Program e stormwater collection systemeter awareness and pollution p	orevention, perform MS4 in blish specific frequencies, s	spections, maintain the schedules, and standard D	
Ref. BMP	Measures to minimize pollutants in the maintenance staff training on stormwa collection system including catch basis documentation. A Description of BMP	e stormwater collection system ter awareness and pollution pass and conveyances; and esta	prevention, perform MS4 in blish specific frequencies, s	spections, maintain the schedules, and standard	
Ref. BMP No.	Measures to minimize pollutants in the maintenance staff training on stormwa collection system including catch basis documentation. A	e stormwater collection systemeter awareness and pollution pass and conveyances; and esta	orevention, perform MS4 in blish specific frequencies, s C Schedule for	spections, maintain the schedules, and standard D Annual Reporting	
Ref. BMP No.	Measures to minimize pollutants in the maintenance staff training on stormwa collection system including catch basin documentation. A Description of BMP Staff Training Develop or identify a staff training program for general stormwater pollution prevention and provide to	B Measurable Goal(s) 1. Develop or identify appropriate training program	orevention, perform MS4 in blish specific frequencies, s C Schedule for	spections, maintain the schedules, and standard D Annual Reporting	
BMP	Measures to minimize pollutants in the maintenance staff training on stormwa collection system including catch basin documentation. A Description of BMP Staff Training Develop or identify a staff training program for general stormwater	B Measurable Goal(s) 1. Develop or identify appropriate training	corevention, perform MS4 in blish specific frequencies, s C Schedule for Implementation	D Annual Reporting Metric 1. Yes/No/Partial 2. Yes/No/Partial; Number of staff members trained and	
Ref.	Measures to minimize pollutants in the maintenance staff training on stormwa collection system including catch basin documentation. A Description of BMP Staff Training Develop or identify a staff training program for general stormwater pollution prevention and provide to	B Measurable Goal(s) 1. Develop or identify appropriate training program 2. Provide initial training	C Schedule for Implementation 1. Permit year 2 2. Annually, beginning	D Annual Reporting Metric 1. Yes/No/Partial 2. Yes/No/Partial; Number of staff	
BMP	Measures to minimize pollutants in the maintenance staff training on stormwa collection system including catch basin documentation. A Description of BMP Staff Training Develop or identify a staff training program for general stormwater pollution prevention and provide to	B Measurable Goal(s) 1. Develop or identify appropriate training program 2. Provide initial training for all employees 3. Provide training for new hires	C Schedule for Implementation 1. Permit year 2 2. Annually, beginning in permit year 3 3. Annually, beginning in permit year 3, as necessitated by staffing	D Annual Reporting Metric 1. Yes/No/Partial; Number of staff members trained and topics from training 3. Yes/No/Partial; Number of new hires trained and topics from	

		2. Perform regular	2. Continuously Permit	2. Yes/No/Status;
	=	inspections in	Years 3-5	Number of inspections
		accordance with the SOP		documented
		(See BMPs No. 44.1 and		
		44.4)		
		3. Verify, document, and	3. Continuously, as	3. Yes/No/Partial;
		prioritize maintenance	potential maintenance	Number of maintenance
		activities identified by	activities are identified	activities performed
		inspections or citizen reports		
		4. Develop an inspection	4. Permit year 2	4. Yes/No/Partial;
		and maintenance	_	
		tracking system to be		
	1	used in accordance with		
		the SOP and to identify		
		"hot spot" locations for		
ermit	3.7.4: Municipal SCM Operation ar	system maintenance		
	are installed for compliance with the p inventory of SCMs, perform SCM installed documentation.	permittee's post-construction pections and maintenance, an	program. The permittee sha d shall establish specific fre	all maintain a current equencies, schedules, and
RMP	inventory of SCMs, perform SCM insp	permittee's post-construction pections and maintenance, an	program. The permittee shad shall establish specific fre	all maintain a current equencies, schedules, and
	inventory of SCMs, perform SCM insidocumentation.	pections and maintenance, an	d shall establish specific fre	D Annual Reporting
o.	inventory of SCMs, perform SCM insidocumentation. A	B Measurable Goal(s)	d shall establish specific fre	equencies, schedules, and D
0.	inventory of SCMs, perform SCM insidocumentation. A Description of BMP	B Measurable Goal(s) CMs	d shall establish specific fre C Schedule for Implementation	D Annual Reporting Metric
0.	inventory of SCMs, perform SCM instruction. A Description of BMP Inventory of Municipal structural S Development and maintain of a current inventory of municipally	B Measurable Goal(s)	d shall establish specific fre	D Annual Reporting Metric 1. Yes/No/Partial;
0.	inventory of SCMs, perform SCM instruction. A Description of BMP Inventory of Municipal structural S Development and maintain of a	B Measurable Goal(s) CMs 1. Create an inventory of	d shall establish specific fre C Schedule for Implementation	D Annual Reporting Metric 1. Yes/No/Partial; Number of municipal
0.	inventory of SCMs, perform SCM instruction. A Description of BMP Inventory of Municipal structural S Development and maintain of a current inventory of municipally	B Measurable Goal(s) CMs 1. Create an inventory of existing City-owned	d shall establish specific fre C Schedule for Implementation	D Annual Reporting Metric 1. Yes/No/Partial;
0.	inventory of SCMs, perform SCM instruction. A Description of BMP Inventory of Municipal structural S Development and maintain of a current inventory of municipally	B Measurable Goal(s) CMs 1. Create an inventory of existing City-owned SCMs with information including type, year built, date of last	d shall establish specific fre C Schedule for Implementation	D Annual Reporting Metric 1. Yes/No/Partial; Number of municipal
0.	inventory of SCMs, perform SCM instruction. A Description of BMP Inventory of Municipal structural S Development and maintain of a current inventory of municipally	B Measurable Goal(s) CMs 1. Create an inventory of existing City-owned SCMs with information including type, year built, date of last inspection, and	d shall establish specific fre C Schedule for Implementation	D Annual Reporting Metric 1. Yes/No/Partial; Number of municipal
0.	inventory of SCMs, perform SCM instruction. A Description of BMP Inventory of Municipal structural S Development and maintain of a current inventory of municipally	B Measurable Goal(s) CMs 1. Create an inventory of existing City-owned SCMs with information including type, year built, date of last inspection, and maintenance actions	C Schedule for Implementation 1. Permit year 1	D Annual Reporting Metric 1. Yes/No/Partial; Number of municipal structural SCMs
0.	inventory of SCMs, perform SCM instruction. A Description of BMP Inventory of Municipal structural S Development and maintain of a current inventory of municipally	B Measurable Goal(s) CMs 1. Create an inventory of existing City-owned SCMs with information including type, year built, date of last inspection, and maintenance actions 2. Compile, and develop	d shall establish specific fre C Schedule for Implementation	D Annual Reporting Metric 1. Yes/No/Partial; Number of municipal
0.	inventory of SCMs, perform SCM instruction. A Description of BMP Inventory of Municipal structural S Development and maintain of a current inventory of municipally	B Measurable Goal(s) CMs 1. Create an inventory of existing City-owned SCMs with information including type, year built, date of last inspection, and maintenance actions 2. Compile, and develop as needed, Operation and	C Schedule for Implementation 1. Permit year 1	D Annual Reporting Metric 1. Yes/No/Partial; Number of municipal structural SCMs
0.	inventory of SCMs, perform SCM instruction. A Description of BMP Inventory of Municipal structural S Development and maintain of a current inventory of municipally	B Measurable Goal(s) CMs 1. Create an inventory of existing City-owned SCMs with information including type, year built, date of last inspection, and maintenance actions 2. Compile, and develop as needed, Operation and Maintenance Plans for all	C Schedule for Implementation 1. Permit year 1	D Annual Reporting Metric 1. Yes/No/Partial; Number of municipal structural SCMs
0.	inventory of SCMs, perform SCM instruction. A Description of BMP Inventory of Municipal structural S Development and maintain of a current inventory of municipally	B Measurable Goal(s) CMs 1. Create an inventory of existing City-owned SCMs with information including type, year built, date of last inspection, and maintenance actions 2. Compile, and develop as needed, Operation and Maintenance Plans for all City-owned SCMs	C Schedule for Implementation 1. Permit year 1 2. Permit year 2	D Annual Reporting Metric 1. Yes/No/Partial; Number of municipal structural SCMs 2. Yes/No/Partial;
0.	inventory of SCMs, perform SCM instruction. A Description of BMP Inventory of Municipal structural S Development and maintain of a current inventory of municipally	B Measurable Goal(s) CMs 1. Create an inventory of existing City-owned SCMs with information including type, year built, date of last inspection, and maintenance actions 2. Compile, and develop as needed, Operation and Maintenance Plans for all City-owned SCMs 3. Update as necessitated	C Schedule for Implementation 1. Permit year 1	D Annual Reporting Metric 1. Yes/No/Partial; Number of municipal structural SCMs 2. Yes/No/Partial; 3. Yes/No/Partial;
0.	inventory of SCMs, perform SCM instruction. A Description of BMP Inventory of Municipal structural S Development and maintain of a current inventory of municipally	B Measurable Goal(s) CMs 1. Create an inventory of existing City-owned SCMs with information including type, year built, date of last inspection, and maintenance actions 2. Compile, and develop as needed, Operation and Maintenance Plans for all City-owned SCMs 3. Update as necessitated by new City	C Schedule for Implementation 1. Permit year 1 2. Permit year 2	D Annual Reporting Metric 1. Yes/No/Partial; Number of municipal structural SCMs 2. Yes/No/Partial; 3. Yes/No/Partial;
7.	inventory of SCMs, perform SCM instruction. A Description of BMP Inventory of Municipal structural S Development and maintain of a current inventory of municipally	B Measurable Goal(s) CMs 1. Create an inventory of existing City-owned SCMs with information including type, year built, date of last inspection, and maintenance actions 2. Compile, and develop as needed, Operation and Maintenance Plans for all City-owned SCMs 3. Update as necessitated	C Schedule for Implementation 1. Permit year 1 2. Permit year 2	D Annual Reporting Metric 1. Yes/No/Partial; Number of municipal structural SCMs 2. Yes/No/Partial; 3. Yes/No/Partial;
7.	inventory of SCMs, perform SCM insidocumentation. A Description of BMP Inventory of Municipal structural S Development and maintain of a current inventory of municipally owned structural SCMs. SCM Inspections and Maintenance	B Measurable Goal(s) CMs 1. Create an inventory of existing City-owned SCMs with information including type, year built, date of last inspection, and maintenance actions 2. Compile, and develop as needed, Operation and Maintenance Plans for all City-owned SCMs 3. Update as necessitated by new City development	C Schedule for Implementation 1. Permit year 1 2. Permit year 2 3. As required	D Annual Reporting Metric 1. Yes/No/Partial; Number of municipal structural SCMs 2. Yes/No/Partial; Number of updates to lis
7.	inventory of SCMs, perform SCM insidocumentation. A Description of BMP Inventory of Municipal structural S Development and maintain of a current inventory of municipally owned structural SCMs. SCM Inspections and Maintenance Development an SOP to inspect and	B Measurable Goal(s) CMs 1. Create an inventory of existing City-owned SCMs with information including type, year built, date of last inspection, and maintenance actions 2. Compile, and develop as needed, Operation and Maintenance Plans for all City-owned SCMs 3. Update as necessitated by new City development 1. Locate City-owned	C Schedule for Implementation 1. Permit year 1 2. Permit year 2	D Annual Reporting Metric 1. Yes/No/Partial; Number of municipal structural SCMs 2. Yes/No/Partial; Number of updates to li 1. Yes/No/Partial; Repo
3MP No. 37.	inventory of SCMs, perform SCM insidocumentation. A Description of BMP Inventory of Municipal structural S Development and maintain of a current inventory of municipally owned structural SCMs. SCM Inspections and Maintenance	B Measurable Goal(s) CMs 1. Create an inventory of existing City-owned SCMs with information including type, year built, date of last inspection, and maintenance actions 2. Compile, and develop as needed, Operation and Maintenance Plans for all City-owned SCMs 3. Update as necessitated by new City development	C Schedule for Implementation 1. Permit year 1 2. Permit year 2 3. As required	D Annual Reporting Metric 1. Yes/No/Partial; Number of municipal structural SCMs 2. Yes/No/Partial; Number of updates to li

Warm.		2. Update the map when	2. Annually, once BMPs	2. Yes/No/Partial; Note		
		new City-owned SCMs are constructed	No. 45.1 and 46.1 are completed	annually whether new City-owned SCMs were added. If any are added note number and type added as well as number and type of SCMs mapped to date		
		3. Maintain NC SCM Inspections and Maintenance Certification for appropriate personnel	3. Continuously, beginning in permit year 2	3. Yes/No/Status; Number of staff members with active certification		
		4. Develop SCM inspection forms	4. Permit year 2	4. Yes/No/Partial;		
		5. Inspect each device using appropriate SCM inspection form	5. Annually, beginning in permit year 3	5. Yes/No/Partial; Number of SCMs inspected, number passing inspection, number requiring maintenance		
		6. Perform maintenance tasks identified in inspections	6. As required	6. Yes/No/Partial; Number of SCMs maintained		
		7. Develop a tracking document (See BMP No. 46.B.4)	7. Permit year 2	7. Yes/No/Partial;		
Permit Ref.	3.7.5: Pesticide, Herbicide and Ferti Measures to minimize water quality im pollution prevention and chemical use, applicator certifications.	pacts from the use of landsc	ape chemicals. The permitte	e shall provide routine ce with permits and		
ВМР	A	В	C	D		
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric		
49.	Pesticide, Herbicide, Fertilizer Applicator Training					
	Training of town staff who apply landscape chemicals in order to minimize water quality impacts from pesticides, herbicides, and fertilizers	1. Maintain Right-of- Way Pest Control, Public Health Control, and Ornamental & Turf Pest Control applicator certifications for appropriate personnel	1. Continuously	1. Yes/No/Partial; Number of staff members with active certification		
		2. Require contractors provide copies of NC	2. Continuously	2. Yes/No/Partial;		

Table 2	1: Pollution Prevention and Good	Housekeeping BMPs	report transplagments	ori mirston de ae
		3. Develop or identify pollution prevention and chemical use, storage and handling training program	3. Permit year 2	3. Yes/No/Partial;
20		4. Provide staff training in pollution prevention and chemical use, storage and handling training	4. Annually, beginning in permit year 3	4. Yes/No/Partial; Number of staff trained and topics covered
Permit Ref.	3.7.6: Vehicle and Equipment Maint Measures to prevent and minimize con equipment maintenance and/or cleanin industrial permitting comply with those perform routine inspections, and estable	tamination of stormwater ru g. The permittee shall ensur e permit requirements, provi	e that municipal industrial fa de routine pollution preventi	cilities subject to NPDES
BMP	A	В	C	D
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric
50.	NPDES Industrial Permit Complian	ce		n a sound to be
201 -	Review municipal facilities inventory to ensure NPDES Industrial Permit Compliance.	1. Review municipal facilities inventory to determine which facilities require a NPDES industrial stormwater permit	1. Permit year 1	1. Yes/No/Partial; Number of facilities determined to require a NPDES Industrial Permi
		2. Permitting of municipally owned facilities; apply for new permits and confirm that all existing permits are valid. Renew permits as required	2. Permit year 1, following review of facilities, and continuously thereafter	2. Yes/No/Partial; Report number of new permits received or renewed as well as number of active permits.
		3. Develop a municipal industrial facility inspection form	3. Permit year 1	3. Yes/No/Partial;
		4. Perform facility inspections for compliance with permit	4.Annually, after NPDES permits acquired	4. Number of inspections performed
		5. Establish NPDES Industrial Permit tracking mechanism to document list of municipally owned facilities with permit, permit expiration dates, and inspections	5. Permit year 1	5. Yes/no/status
51.	Vehicle and Equipment Cleaning and	l Maintenance Facility Ins	pection	
	Routine inspections as part of general facility inspections (See BMP No.	Develop an inspection checklist	1. 1. Permit year 1	1. Yes/No/Partial;

Table 2	1: Pollution Prevention and Good	Housekooning DMD					
Table 2	39) to ensure that vehicle and equipment facilities are following proper procedures to minimize water quality impacts from vehicle and equipment cleaning and maintenance.	2. Perform inspections using inspection checklist and notify facility manager of any corrective actions required	2. Bi-annually, beginning in permit year 1	2. Yes/No/Partial; Number of inspections			
		3. Perform re-inspections of any facility that required corrective action	3. As required by corrective actions issued	3. Yes/No/Partial; Number of facilities requiring corrective action, number of resolutions			
52.	Staff Training		the state of the s				
-	Provide general stormwater awareness training and pollution prevention training to employees working in vehicle maintenance and cleaning areas (See BMP No. 44).	1. See BMP No. 44	1. See BMP No. 44	1. See BMP No. 44			
Permit Ref.	3.7.7: Pavement Management Progr Measures to reduce pollutants in storm permittee's corporate limits. The perm pollutants associated with vehicles, and	water runoff from municipal iittee shall implement measu	res to control litter, leaves, de	ebris, particulate and fluid			
BMP	The State of the S	B	C	D			
No.	Description of BMP	Measurable Goal(s)	Schedule for Implementation	Annual Reporting Metric			
53.	Street Sweeping Implementation Metric						
	Street sweeping following a regular schedule in order to reduce pollutants from City owned and maintained	Develop a SOP, including a schedule and plan to document	1. Permit Year 1	1. Yes/No/Partial;			
	streets.	2. Implement SOP and documentation	2.Annually beginning in permit year 2	2. Yes/No/Partial; Total number of street miles swept			
		3. Identify "hot spot" areas for more frequent sweeping	3. Permit Years 3-5	3. Yes/No/Status			
54.	Leaf Collection						
	Periodic collection of leaves, at least twice a year, from residential and public areas to reduce pollutants and	Develop a SOP, including a schedule and plan to document	1. Permit year 1	1. Yes/No/Status			
	clogging of storm system inlets.	2. Implement SOP and documentation	2. Regularly, beginning in permit year 2	2. Yes/No/Status;			
		3. Provide periodic seasonal leaf collection	3. Permit Year 1	3. Yes/No/Status; Volume of leaves collected (tons)			
		4. Evaluate seasonal leaf collection routes to identify "hot spot" areas for more frequent	4. Permit Years 3-5	4. Yes/No/Status; Report Results			

55.	Vehicle Spill Cleanup				
	An organized vehicle spill cleanup response to prevent pollutants from	Maintain spill response procedures	1. See BMP No. 43	1. See BMP No. 43	
	vehicular accidents from entering the storm drain system.	2. Provide public education about stopping vehicle leaks	2. See BMP No. 7	2. See BMP No. 7	
56.	Litter Collection				
	Collect litter weekly in public spaces	1. Develop a SOP, including a schedule and plan to document weekly litter collection	1. Permit Year 1	1. Yes/No/Partial;	
		2. Implement SOP and documentation	2.Annually beginning in permit year 2	2. Yes/No/Partial; Document collection results	
		3. Identify "hot spot" areas for more frequent collection	3. Permit Years 3-5	3. Yes/No/Status	