



City of Kings Mountain, North Carolina

STORMWATER MANAGEMENT PLAN & ANNUAL NPDES PERMIT REPORT

Prepared by:

City of Kings Mountain, NC
Stormwater Services
Po Box 429
Kings Mountain, NC 28086

NPDES Permit No: NC S000529

Reporting Year 6

February 20, 2017 – February 19, 2018

REPORTING CERTIFICATION

I certify, Under penalty of Law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Rickey E. Putnam
Stormwater Administrator

Date

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STORMWATER MANAGEMENT PLAN OVERVIEW

The North Carolina Division of Water Quality issued NPDES Phase II Permit NC S000529 to the City of Kings Mountain effective December 1, 2011 and renewed effective February 20, 2017. The Stormwater Management Plan is the City of Kings Mountain's program to comply with NPDES Phase II Permit NC S000529 for stormwater discharges from Small Municipal Separate Storm Sewer Systems (MS4s). The plan includes the Best Management Practices included in the City's application plan narrative as well as guidelines and strategies necessary for protecting water quality and reducing pollutant discharges to the maximum extent practicable. The plan also includes reporting results for the current yearly reporting period from December 1, 2016 to November 30, 2017.

This plan is a guidance document to be used by City staff and the general public. The plan is evolving and will address priorities and needs that will be reflected in compliance programs, policies, operating manuals and revised ordinances over the five (5) year continuation period.

As required by the EPA regulations for the NPDES Phase II stormwater programs, the following are the six minimum measures that are addressed in the plan:

1. PUBLIC EDUCATION AND OUTREACH
2. PUBLIC PARTICIPATION AND INVOLVEMENT
3. ILLICIT DISCHARGE DETECTION AND ELIMINATION
4. CONSTRUCTION SITE RUNOFF CONTROL
5. POST-CONSTRUCTION SITE RUNOFF CONTROL
6. POLLUTION PREVENTION AND GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

STATUS OF IMPLEMENTATION

The City of Kings Mountain is pleased to report excellent progress for year six (6) compliance with requirements of NPDES Phase II Permit NC S000529. Primary areas of work include:

- Continued implementation of:
 - Stormwater Permit Requirements
 - Stormwater Permit Review and Approvals
- Public Outreach events to educate the public and encourage public participation and involvement.

CHANGES/JUSTIFICATIONS

None at this time.

CITY OF KINGS MOUNTAIN STORMWATER SERVICES OVERVIEW

COMPREHENSIVE STORMWATER MANAGEMENT

Comprehensive stormwater management takes into account both quantity and quality of stormwater runoff and is reflected in the five (5) major components of the City of Kings Mountain's Stormwater Services program:

ADMINISTRATION AND PLANNING

Planning utilized the watershed approach to develop long range plans to improve drainage and water quality within each watershed. The City has been divided into four main watersheds. The eastern watersheds drain into the Catawba River Basin and the western watersheds drain into the Broad River Basin. This approach seemed most appropriate considering our municipal limits incorporates two separate river basins.

REGULATORY AUTHORITY AND ENFORCEMENT

The City of Kings Mountain's current stormwater ordinance has been created in order to meet required comprehensive stormwater management and create technical standards for design and maintenance of private stormwater facilities. The City currently has one staff member who is BMP inspection certified. The city has approved Post-Construction runoff BMP measures, the plan is to have staff educated in maintenance practices in order to ensure compliance with the City's maintenance standards. All NPDES Phase II stormwater regulations fall into this category.

CAPITAL IMPROVEMENT PLAN

The City has determined the lot size and the impervious areas for the City properties. This information along with the inventory of our drainage system and our capital improvement needs was a large part of determining an appropriate residential unit for the development of stormwater utility fees. A portion of the utility fee will go toward identified capital improvement projects that have been prioritized to provide the most effective water quantity as well as quality improvements.

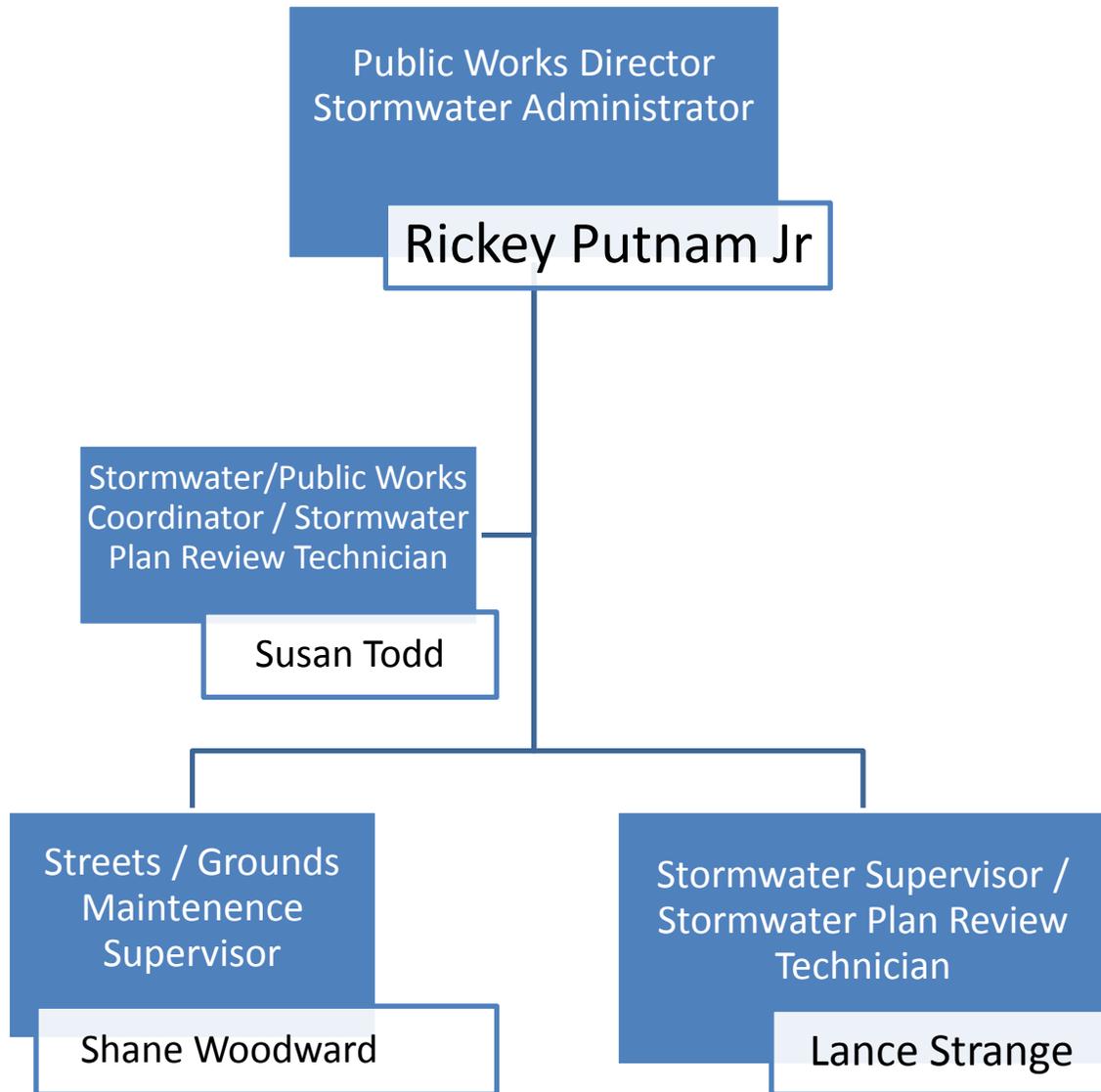
OPERATIONS AND MAINTENANCE

The City of Kings Mountain's Stormwater Services Department is responsible for maintaining the public drainage system. With the implementation of the City's NPDES Phase II BMP for Pollution Prevention and Good Housekeeping this division will continue to maintain the City's open and closed drainage systems, street sweeping, and maintenance of public parking areas. The City has completed an O & M for catch basins and conveyance systems which will include reporting mechanisms.

WATER QUALITY

Currently there are no TMDL's on any of the streams that the permittee is permitted to discharge into. The permittee will continue to monitor information regarding the water quality of these streams and make revisions to the stormwater plan if needed.

ORGANIZATIONAL CHART



BUDGET REPORT BY ACCOUNT - EXPENDITURE

Current Period: 03/01/2018 To 03/14/2018

City Of Kings Mt

FY 2017-2018

Ideal Remaining Percent: 30 %

Account	Budgeted	Current	Year To Date	Encumbrance	Remaining Balance	PCT
62-01-4010-000 Salaries	199,000.00	7,069.12	132,508.68	0.00	66,491.32	33
62-01-4100-000 Fica Tax	15,200.00	453.30	8,625.39	0.00	6,574.61	43
62-01-4110-000 Retirement	14,900.00	530.17	9,698.12	0.00	5,201.88	35
62-01-4120-000 Health Insurance	63,000.00	2,655.96	45,878.48	0.00	17,121.52	27
62-01-4125-000 401 K	10,000.00	353.46	6,465.36	0.00	3,534.64	35
62-01-4135-000 Workers Compensation	2,520.00	0.00	2,520.00	0.00	0.00	0
62-01-4140-000 Proessional Services	8,000.00	400.00	824.17	2,170.00	5,005.83	63
62-01-4395-000 Charges For Cleaning Services	3,095.00	291.67	2,625.03	0.00	469.97	15
62-01-4400-000 Supplies	20,954.00	4,863.46	17,671.19	1,846.76	1,436.05	7
62-01-4455-000 Gas And Oil	5,000.00	0.00	2,208.50	0.00	2,791.50	56
62-01-4525-000 Educational Material	1,000.00	0.00	0.00	0.00	1,000.00	100
62-01-4530-000 Travel And Training	1,500.00	0.00	0.00	0.00	1,500.00	100
62-01-4550-000 Phone & Internet	3,246.00	0.00	2,502.97	0.00	743.03	23
62-01-4555-000 Postage	500.00	0.00	17.97	0.00	482.03	96
62-01-4675-000 Repair & Maint Veh	7,000.00	0.00	1,975.80	0.00	5,024.20	72
62-01-4700-000 Repair & Maint Equipment	500.00	0.00	267.88	0.00	232.12	46
62-01-4701-000 Repair & Maint Building	20,000.00	0.00	265.00	0.00	19,735.00	99
62-01-4735-000 Advertising	1,000.00	0.00	0.00	0.00	1,000.00	100
62-01-4855-000 Uniforms	1,000.00	0.00	359.86	0.00	640.14	64
62-01-4860-000 Liability Insurance	547.00	0.00	521.70	0.00	25.30	5
62-01-4880-000 Administrative Services	17,192.00	1,432.67	13,754.03	0.00	3,437.97	20
62-01-4900-000 Misc Expense	1,833.00	0.00	931.11	0.00	901.89	49
62-01-4920-000 Bad Debts	200.00	0.00	0.00	0.00	200.00	100
62-01-5007-000 C/O Various Projects	51,046.00	2,942.64	35,051.78	0.00	15,994.22	31
62-01-7001-000 Lpa Equipment	15,986.00	0.00	15,985.65	0.00	0.35	0
62-01-7002-000 Lpa Backhoe	18,781.00	0.00	18,780.24	0.00	0.76	0
62-01-8500-000 Charge To Powell Bill	-31,500.00	0.00	0.00	0.00	-31,500.00	100
Report Total Expenditure	451,500.00	20,992.45	319,438.91	4,016.76	128,044.33	

REGULATORY AUTHORITY AND ENFORCEMENT

Stormwater Services Department

The City of Kings Mountain's Stormwater Services Department has enforcement authority and will issue future stormwater permits within the City. This department will also be responsible for handling stormwater complaints from the public and the City's Street Maintenance Department pertaining to stormwater issues. Actions supported by the City's current ordinances pertaining to stormwater are investigated and documented as either violations or not founded. All stormwater complaints bring an opportunity for public education and awareness. This department will be responsible for these same duties.

The City's Stormwater Services Department also has permitting and enforcement authority for any commercial construction projects less than one acre, in regards to grading and erosion control measures.

Water Resources Department

The Water Resources Department is responsible for the City of Kings Mountain's NPDES Wastewater Discharge Permit, the City's Collection System Permit and all supporting ordinances and policies such as the City's Illicit Discharge Policy. As part of these responsibilities this group regulates sanitary sewer overflows; documents all overflows; and works to ensure that no wastewater is discharged into natural outlets. They also respond to customer complaints and assist in monitoring streams adjacent to their sewer outfalls.

North Carolina Department of Environmental Health and Natural Resources

The NC DEMLR will be responsible for the erosion control for projects of more than one acre. The City of Kings Mountain Erosion Control Ordinance was passed on November 26, 2013, however permits are not issued by the City therefore the contractor will be required to acquire his soil and erosion permit from NC DEMLR. All projects that are less than one acre will be required to obtain a grading permit from the City of Kings Mountain and comply with development erosion control such as silt fencing, gravel construction entrances, etc.

CAPITAL IMPROVEMENTS

The City is currently working to map all of the major outfalls within the primary water sheds. Each watershed will have a priority listing of capital improvements that will need to be made for the remainder of this permit. The City will also be using this Capital Improvement Plan to assist in implementation of the stormwater fee.

Location	Description	Est. Total Cost
<u>2016 Proposed Projects</u>		
1013 N Piedmont Avenue	Canopy and Renovation of Vehicle Washing Bay	\$ 100,000.00 (not funded)
1013 N Piedmont Avenue	Get engineering design for detention pond for Public Works	\$ 20,000.00 (begun)
	Planning Budget for Downtown Parking Lots/Bio retention Designs	\$ 20,000.00 (completed)
	Mapping Project (1/3 annually) (year 3)	\$ 26,073.00 (completed)
S. Roxford Road	Drainage Project (begin) (\$61,545.00)	\$ 1,985.50 (begun)

<u>2017 Proposed Projects</u>		
1013 N Piedmont Avenue	Canopy and Renovation of Vehicle Washing Bay	\$ 100,000.00 (not funded)
1013 N Piedmont Avenue	Complete engineering for detention pond for Public Works	\$ 20,000.00 (begun)
1013 N Piedmont Avenue	Begin bidding process for construction of detention pond for Public Works facility	\$ (not funded)
S. Roxford Road	Drainage Project (in-house)	\$ 60,000.00

<u>2018 Proposed Projects</u>		
1013 N Piedmont Avenue	Canopy and Renovation of Vehicle Washing Bay	\$ 100,000.00
1013 N Piedmont Avenue	Complete engineering for detention pond for Public Works	\$ 20,000.00
1013 N Piedmont Avenue	Begin bidding process for construction of detention pond for Public Works facility	\$
1013 N Piedmont Ave.	Engineering recommendations for detention Pond@ Public Works complex	\$ 427.50
N Gaston St. @ N Battleground Ave	rebuild junction box (in-house)	\$
305 Scotland Drive	Repair storm drain section in back yards (in-house)	\$
Pizza Hut / W. Gold Street	Repair junction boxes on either side of the road (in-house)	\$
Assist Water Dept. in stabilization of two creek banks		

OPERATIONS AND MAINTENANCE

2016 Accomplishments

In-House Repairs

Location	Description	Total Cost
Mapping Project Contracted (1/3 annually for 3 years) (year 3)		\$ 26,073.00
Downtown Parking Lot re-designed without Bio-Retention aspect		\$ 24,483.08
603 Southwoods Drive	unclogged pipe at end of concrete flume and installed a grate after removing a two by four, plywood, and car parts	
105 Country Club Drive	replaced 24" pipe and built catch basin	
Sipes Street	replace storm pipe	
407 Mountain Street	installed additional catch basin to alleviate flooding	
916 Sharon Drive	rip-rap ditch / creek	
1013 N Piedmont Ave.	Began land clearing for P/W detention pond	

Other

Location	Description	Total Cost
1013 N Piedmont Ave.	Engineering recommendations for detention Pond@ Public Works complex	\$ 427.50

2017 Accomplishments

In-House Repairs

Location	Description	Total Cost
808 W Mountain St.	upgrade storm system w/larger pipes and additional catch basins	\$ 37,900.00
S. Roxford Rd	Drainage Project (90% complete)	\$ 24,149.14
N Gaston St @ Central School	Joint Catch Basin rebuild (complete)	\$ 1,062.15
Ramseur Street @ North School	Storm drain repair (complete)	\$ 1,463.40

2016 PLAN HIGHLIGHTS**Public Education & Outreach**

- Continued to identify target pollutants and the target audience.
- Gave presentation to Life Enrichment Center personnel and participants regarding residential and commercial water pollution issues.
- Used the City Newsletter to remind citizens of stormwater issues and repercussions.

Public Involvement & Participation

- Continued the online stormwater survey on the City's web site to determine the level of interest and knowledge about stormwater issues.

Illicit Discharge Detection and Elimination

- Monitor the stormwater system and enforce the IDDE policy.
- There were zero illicit discharge calls logged and investigated.
- Continued to work on identifying and mapping major outfalls within each watershed.

Construction Site Runoff Controls

- Required that all development projects had the appropriate KINGS MOUNTAIN STORMWATER MANAGEMENT permit.
- Required that all developments have the appropriate NCDENR permit for land disturbing activity, and have their approval certificate from NCDENR posted.
- Monitor construction sites to make sure that all erosion control measures are in place and have not been damaged.
- Investigate erosion concerns from the public, document the source, and contact the developer; contact the State if necessary.

Post Construction Site Runoff Controls

- Require all new development projects to implement onsite BMP's to eliminate 85% TSS per the City's Ordinance.
- Monitor private BMP's and made phone calls if they appeared to be operating below design standards.

Pollution Prevention and Good Housekeeping

- Continued employee training.
- Continued to implement spill prevention policies for City Facilities and Fleet.

Other

- Continued working to establish primary outfall point locations based on overland flow patterns and best available current inventory mapping.

2017 PLAN HIGHLIGHTS**Public Education & Outreach**

- Continued to identify target pollutants and the target audience.
- Gave presentation at the Gateway Trail during Farmers Market using giveaways and urban enviroscape interaction regarding residential and commercial water pollution issues.
- Used the City Newsletter to remind citizens of stormwater issues and repercussions.

Public Involvement & Participation

- Gave presentation at the Gateway Trail during Farmers Market using giveaways and an urban *enviroscape* interaction, regarding residential and commercial water pollution issues.

Illicit Discharge Detection and Elimination

- Monitor the stormwater system and enforce the IDDE policy.
- There were two illicit discharge calls logged and investigated. Both involved mud being tracked from construction sites. Both were mitigated and cleaned up by the appropriate contractor in a timely manner without impact to the stormwater system.
- Continued to work on identifying and mapping major outfalls within each watershed.
- Mailed (24) twenty four letters requesting submittal of monthly inspection reports for private stormwater BMPs within our permit area. (City Limits)

Construction Site Runoff Controls

- Required that all development projects had the appropriate KINGS MOUNTAIN STORMWATER MANAGEMENT permit.
- Required that all developments have the appropriate NCDENR permit for land disturbing activity, and have their approval certificate from NCDENR posted.
- Monitor construction sites to make sure that all erosion control measures are in place and have not been damaged.
- Investigate erosion concerns from the public, document the source, and contact the developer; contact the State if necessary.

Post Construction Site Runoff Controls

- Require all new development projects to implement onsite BMP's to eliminate 85% TSS per the City's Ordinance.
- Monitor private BMP's and made phone calls if they appeared to be operating below design standards.

Pollution Prevention and Good Housekeeping

- Continued employee training.
- Continued to implement spill prevention policies for City Facilities and Fleet.

Other

- Initial stormwater mapping complete by Joel E Wood & Associates, Engineers

- Continued working to establish primary outfall point locations based on overland flow patterns and best available current inventory mapping.

SECTION B: PUBLIC EDUCATION AND OUTREACH

The permit holder shall implement the minimum measures no later than 12 months from the date of permit issuance. The following BMPs shall be implemented to meet the objectives of Public Education and Outreach.

1. Goals and Objectives for Public Education and Outreach

Distribute educational materials to the community or conduct equivalent outreach activities about the impacts of storm water discharges on water bodies and the steps the public can take to reduce pollutants in storm water runoff.

2. BMPs for Public Education and Outreach

The public education and outreach minimum measures shall be implemented no later than 12 months from the date of permit issuance. The permittee shall implement the following BMPs to meet the objectives of the Public Education and Outreach Program and shall notify the Division prior to modification of any goals.

a. Goals and Objectives

BMP	Measurable Goals / Accomplishments
Goals and Objectives	Defined goals and objectives of the Local Public Education and Outreach Program based on community wide issues
YEAR 5 December 2015 - November 2016	GOALS: Continue public education efforts with; information in the citizen newsletter placed in the utility bills. ; hold additional meetings with homeowners regarding residential pollution issues. ; Additional meeting with business owners and business leaders regarding the environmental footprint of the business community. Accomplishments: Used the citizen newsletter to inform residents about water quality, and limb and leaf placement for pick-up. Spoke to residents about keeping streams clean of yard debris. Gave a presentation at the Life Enrichment Center to employees and participants regarding residential and commercial water pollution issues.
YEAR 6 December 2016 February 19, 2018	Accomplishments: Set up table and gave short presentation with an <i>Enviroscape</i> at the Farmers Market held at the Gateway Trailhead in August. Handed out giveaways and information on Stormwater contaminates and earth friendly solutions.
YEAR 7 February 2018 – February 2019	Goals: Find more opportunities to make contact with the public, specifically regarding animal waste, grass, and leaves. Attend APWA Educational Session on Municipal Perspectives on Stormwater Public Education and Outreach in Greensboro, NC on April 12, 2018

b. Target Pollutants and/or Stressors and Target Audiences

BMP	Measurable Goals / Accomplishments
Describe target pollutants and/or stressors	The permittee shall maintain a description of the target pollutants and/or stressors and likely sources.

<p>YEAR 5 December 2015 - November 2016</p>	<p>GOALS: Reduce pollutants from citizens (leaves, grasses, auto fluids), and continue to educate citizens on pollutant stressors. Continue ““behind the curb”” limb and leaf pickup. Accomplishments: Used the newspaper and newsletter to continue to educate citizens about the ““behind the curb”” limb and leaf pick-up program, and the impact of our leaf and limb debris on our streams and downstream neighbors. Contacted various homeowners about not throwing leaves, grass clippings, and other debris into streams and stormwater ditches. Began to target lawn service companies by mail regarding ““behind the curb”” limb and leaf pick-up program.</p>
<p>YEAR 6 December 2016 - February 19, 2018</p>	<p>Accomplishments: Continued to educate homeowners and Commercial Services about “behind the curb” limb and leaf pick-up by mailing letters, leaving door hangers, and putting a reminder in the monthly newsletter. Have had no issues with other target pollutants of any noticeable quantities.</p>
<p>YEAR 7 February 2018 February 2019</p>	<p>Goals: Continue to monitor the amounts of leaves, grasses, and oils that are making it into the stormdrain system. Continue “behind the curb” limb and leaf pickup.</p>

c. Describe target audiences

<p>Describe target audiences</p>	<p>The permittee shall maintain a description of the target audiences likely to have significant stormwater impacts and why they were selected.</p>
<p>YEAR 5 December 2015 - November 2016</p>	<p>Goals: Continue public education efforts with; information in the citizen newsletter placed in the utility bills about specific pollutants. ; hold additional meetings with homeowners regarding residential pollution issues. ; hold additional meetings with business owners and business leaders regarding the environmental footprint of the business community. Accomplishments: Promoted leaf pick-up “behind the curb” in the newspaper, in a citizen newsletter included in the City utility bills and on the City Web Site. Spoke to various homeowners about not throwing leaves, grass, and other debris into streams and stormwater ditches.</p>
<p>YEAR 6 December 2016 – February 19, 2018</p>	<p>Accomplishments: The only significant impact we have of a noticeable quantity at this time is organics from tree leaves raked to the curb in residential areas. Promoted leaf pick-up “behind the curb” in the newspaper and a citizen newsletter included in the City utility bills to residents.</p>
<p>YEAR 7 February 2018– February 2019</p>	<p>Goals: Continue to promote “behind the curb” grass clipping, limb and leaf pickup. Determine some type of consequence for non-compliance.</p>

Specific Identified Pollutants and their target audience:

- | | |
|--------------------|---|
| Sediment | Residential and Commercial Building Contractors |
| Yard Waste | Lawn Care Services and Homeowners |
| Litter | Entire Community with emphasis on Restaurants |
| Auto Fluids | Auto Parts Stores for the DIY car enthusiast |
| Fertilizers | Lawn Care Services and Local Hardware Stores (DIY) |
| Pet Waste | Park visitors, Pet owners |

d. Describe Residential and Industrial/Commercial Issues

BMP	Measurable Goals / Accomplishments
Describe residential and industrial/commercial issues	The permittee shall describe issues, such as pollutants, likely sources of those pollutants, impacts, and the physical attributes of the stormwater runoff, in their education/outreach program.
YEAR 5 December 2015 - November 2016	Goals: Find a new way to promote “behind the curb” limb and leaf pick-up for residential customers and lawn care companies. Accomplishments: Promoted “behind the curb” leaf and limb pickup in newspaper, on City web site, and in the City Utility Bill Newsletter.
YEAR 6 December 2016 – February 19, 2018	ACCOMPLISHMENTS: The only significant impact we have of a noticeable quantity at this time is organics from tree leaves. This is mostly from residents raking leaves out for pickup. Promoted leaf pick-up “behind the curb” in the newspaper and a citizen newsletter included in the City utility bills to residents, and issued door hangers upon occurrence.
YEAR 7 February 2018 – February 2019	Goals: Find a new way to convince citizens to place the leaves and grass clippings behind the curb for collection.

e. Informational Web Site

BMP	Measurable Goals / Accomplishments
Informational Web Site	The permittee shall promote and maintain an internet web site designed to convey the program’s message.
YEAR 5 December 2015 - November 2016	Goals: Continue to try to develop a Stormwater Facebook page. Work to get stormwater information onto the informational TV in the Lobby of City Hall Accomplishments: Maintained the stormwater@cityofkm.com email address for stormwater complaints and questions. Maintained the Stormwater Department page on the City of Kings Mountain website. The stormwater page averaged 37 hits per month over the last 10 months with the lowest month being 13 hits and the highest month being 97 hits. The City’s main website averaged approx. 9,663 hits per month during the same time frame. Responded to several complaints received thru the complaint form on the City website.
YEAR 6 December 2016 - February 19, 2018	ACCOMPLISHMENTS: The Stormwater Department uses the City of Kings Mountain website www.cityofkm.com/Stormwater to promote Stormwater issues and provide information and contact information. Also the City maintains a Facebook page which the Stormwater Department can utilize.
YEAR 7 February 2018 – February 2019	GOALS: Develop Power Point page for Stormwater information and post to TV in the lobby of City Hall.

f. Distribute Public Education Materials to identified target audiences and user groups.

BMP	Measurable Goals / Accomplishments
Distribute public education materials to identified target audiences and user groups.	The permittee shall distribute stormwater educational material to appropriate target groups. Instead of developing its own materials, the permittee may rely on Public Education and Outreach materials supplied by the state, and/or other entities through a cooperative agreement, as available, when implementing its own program.

<p>YEAR 5 December 2015 - November 2016</p>	<p>Goals: Add stormwater information on the TV in the Lobby of City Hall. Accomplishments: Gave a presentation at the Life Enrichment Center to employees and participants regarding residential and commercial water pollution issues. Spoke to various citizens one on one after receiving complaints or questions about problems with the stormwater system. Offered educational materials on the Stormwater Page of the City Website.</p>
<p>YEAR 6 December 2016 – February 19, 2018</p>	<p>ACCOMPLISHMENTS: Participated in the Farmers Market at the Gateway Trailhead. Distributed information on stormwater issues, “recipes” for environmentally friendly week killers and “responsible car washing tips”, and used an <i>Enviroscape</i> to discuss stormwater issues. Library personnel used the “enviroscape” with their summer reading program to demonstrate to participants the causes and effects of pollution with regards to rain events.</p>
<p>YEAR 7 February 2018 – February 2019</p>	<p>GOALS: Participate in the Library’s Summer Reading Program and promote clean water habits.</p>

g. Hotline/Help Line

BMP	Measurable Goals / Accomplishments
<p>Maintain Hotline/Help Line</p>	<p>The permittee shall promote and maintain a stormwater hotline/help line for the purpose of education and outreach.</p>
<p>YEAR 5 December 2015 - November 2016</p>	<p>Goals: Maintain email and web page with current and up to date information and tips. Develop a separate Facebook Page for Stormwater Department. Have info available for people to answer questions and concerns at Public Outings. Accomplishments: Maintained the stormwater@cityofkm.com email address for stormwater complaints and questions. Maintained the Stormwater Department page on the City of Kings Mountain website. The stormwater page averaged 37 hits per month over the last 10 months with the lowest month being 13 hits and the highest month being 97 hits. The City’s main website averaged approx. 9,663 hits per month during the same time frame. Responded to several complaints received thru the complaint form on the City website.</p>
<p>YEAR 6 December 2016 – February 19, 2018</p>	<p>ACCOMPLISHMENTS: Maintained the stormwater@cityofkm.com email address for stormwater complaints and questions. Maintained the Stormwater Department page on the City of Kings Mountain website, which provides information and tips on stormwater issues along with contact information and phone numbers for the stormwater department. The stormwater page averaged 18.25 hits per month over the last 12 months with the lowest month being 10 hits and the highest month being 29 hits. The City’s main website averaged approx. 24,835.9 hits per month during the same time frame, this increase is due to online bill pay and a smart portal which allows registered users to track their electric, gas, and water usage. The department responded to a few complaints received thru the complaint form on the City website. These were mostly calls about leaves in the gutter line and/or in the stormdrains.</p>
<p>YEAR 7 February 2018 – February 2019</p>	<p>GOALS: Maintain the Stormwater@cityofkm.com email address for stormwater complaints and questions. Maintain the Stormwater Dept. page on the City of Kings Mountain web site www.cityofkm.com/Stormwater.</p>

h. Implement a Public Education and Outreach Program.

BMP	Measurable Goals / Accomplishments
<p>Implement a Public Education and Outreach Program</p>	<p>The permittee’s outreach program, including those implemented locally or through a cooperative agreement, shall include a combination of approaches designed to reach target audiences. For each media, event or activity, including those elements implemented locally or through a cooperative agreement the permittee shall estimate and record the extent of exposure.</p>
<p>YEAR 5 December 2015 -</p>	<p>Goals: Add additional Public Meetings to the Gateway Festival and Mayor’s Breakfast. Begin Drain Marking Program with Public involvement. Begin stream cleaning program w/”Adopt-a-Stream”</p>

<p>November 2016</p>	<p>public involvement. Do newspaper and mail articles with pollutant reduction and environmentally friendly measure recommendations. Talk to Rotary Club about involvement with Stream Cleanup and Drain Marking Programs. Accomplishments: Maintained the stormwater@cityofkm.com email address for stormwater complaints and questions. Maintained the Stormwater Department page on the City of Kings Mountain website. Submitted ““behind the curb”” leaf pick-up letter to the newspaper and put ““behind the curb”” information in the City Newsletter to Citizens billing insert. Began planning with local library to participate in the summer reading program next summer to promote Stormwater education and public participation programs.</p>
<p>YEAR 6 December 2016 – February 19, 2018</p>	<p>ACCOMPLISHMENTS: The Mayor’s Breakfast has been discontinued by the new mayor who took office January 2017. The Supervisor and Coordinator participated in a Farmers Market grand opening held at the Gateway Trail Head, which was visited by a little over 100 people. Distributed information on stormwater issues, “recipes” for environmentally friendly week killers and “responsible car washing tips”, and used an <i>Enviroscape</i> to discuss stormwater issues.</p>
<p>YEAR 7 February 2018 – February 2019</p>	<p>GOALS: Participate in Farmers Market’s and other events at the Gateway Trail. Do newspaper and mail articles with pollutant reduction and environmentally friendly measures and recommendations. Continue to promote the “behind the curb” leaf and grass clipping collection.</p>

SECTION C: PUBLIC INVOLVEMENT AND PARTICIPATION

1. Objectives for Public Involvement and Participation

Comply with State and local public notice requirements when implementing a public involvement and participation program.

2. BMPs for Public Involvement and Participation

The permittee shall implement the following BMPs to meet the objectives of the Public Involvement and Participation Program within the schedule submitted on the Permittee’s application so that the Permittee fully implements its permitted program within five years from permit issuance and shall notify the Division prior to modification of any goals.

a. Allow the public an opportunity to review and comment on the Stormwater Plan

BMP	Measurable Goals / Accomplishments
<p>Allow the public an opportunity to review and comment on the Stormwater Plan</p>	<p>The permittee shall conduct at least one public meeting during the term of the permit to allow the public an opportunity to review and comment on the Stormwater Plan.</p>
<p>YEAR 5 December 2015 - November 2016</p>	<p>Goals: Further promote public participation in the ““behind the curb”” Leaf pickup with additional newspaper articles and mailer information. Suggest bagged leaves as a quicker turn around solution for leaf pick-up. Contact lawn care companies working in town with ““behind the curb”” information. Hold public meeting if response merits it. Use the current Stormwater survey in the utility bill and reference that it is available online. Re-establish a Stormwater Advisory Committee with the backgrounds noted below. Accomplishments: Submitted ““behind the curb”” leaf pick-up letter to the newspaper and put ““behind the curb”” information in the City Newsletter to Citizens billing insert. Mailed flier to several lawn maintenance companies and homeowners regarding ““behind the curb”” collections. Began planning with local library to participate in the summer reading program next summer to promote Stormwater education and public participation programs including curb marking.</p>

<p>YEAR 6 December 2016 – February 19, 2018</p>	<p>ACCOMPLISHMENTS: The Supervisor and Coordinator participated in a Farmers Market grand opening held at the Gateway Trail Head. Distributed information on stormwater issues, “recipes” for environmentally friendly week killers and “responsible car washing tips”, and used an “Enviroscape” to discuss stormwater issues.</p>
<p>YEAR 7 February 2018 – February 2019</p>	<p>GOALS: Participate in Farmers Market’s and other events at the Gateway Trail. Do newspaper and mail articles with pollutant reduction and environmentally friendly measures and recommendations. Continue to promote the “behind the curb” leaf and grass clipping collection.</p>

Stormwater Advisory Committee Backgrounds:

- Civil Engineer
- Attorney/Golf Club Board Member
- Lawn Care Service Provider
- School System Grounds and Maintenance Director
- City Public Works Director

b. Volunteer Programs

BMP	Measurable Goals / Accomplishments
<p>Volunteer community involvement program</p>	<p>The permittee shall include and promote volunteer opportunities designed to promote ongoing citizen participation</p>
<p>YEAR 5 December 2015 - November 2016</p>	<p>Goals: Get with the Rotary and other citizen groups to get their input and interest in helping with programs. Accomplishments: Spoke with Library Director about using stormwater in their Summer Reading Program. (On Schedule for summer 2017) Meeting with Library Director November 9 to work on our participation level in the 2017 Summer Reading Program.</p>
<p>YEAR 6 December 2016 – February 19, 2018</p>	<p>ACCOMPLISHMENTS: The Supervisor and Coordinator participated in a Farmers Market grand opening held at the Gateway Trail Head, which was visited by a little over 100 people. Distributed information on stormwater issues, “recipes” for environmentally friendly week killers and “responsible car washing tips”, and used an <i>Enviroscape</i> to discuss stormwater issues. Library personnel used the “enviroscape” with their summer reading program to demonstrate to participants the causes and effects of pollution with regards to rain events.</p>
<p>YEAR 7 February 2018 – February 2019</p>	

c. Mechanism for Public Involvement

BMP	Measurable Goals / Accomplishments
<p>Mechanism for Public Involvement</p>	<p>The permittee shall provide and promote a mechanism for public involvement that provides for input on stormwater issues and the stormwater program.</p>
<p>YEAR 5 December 2015 - November 2016</p>	<p>Goals: Continue to monitor the email and keep the stormwater web page up to date. Create a Stormwater Facebook page to provide further stormwater information to the target audience that would be more likely to use that medium. Check into having articles in local paper at key times of the year. (lawn clippings in the spring)(leaves in the fall.) Accomplishments: Submitted ““behind the curb”” leaf pick-up letter to the newspaper and put ““behind the curb”” information in the City Newsletter to Citizens billing insert. Continued to monitor the email and kept the stormwater web page up to date. Maintained the stormwater@cityofkm.com email address for stormwater complaints and questions.</p>

	Maintained the Stormwater Department page on the City of Kings Mountain website. The stormwater page averaged 37 hits per month over the last 10 months with the lowest month being 13 hits and the highest month being 97 hits. The City’s main website averaged approx. 9,663 hits per month during the same time frame.
YEAR 6 December 2016 – February 19, 2018	ACCOMPLISHMENTS: The stormwater department uses the stormwater page of the city website, www.cityofkm.com/stormwater , to provide information on the stormwater program and stormwater issues. The stormwater page averaged 18.25 hits per month over the last 12 months with the lowest month being 10 hits and the highest month being 29 hits. The City’s main website averaged approx. 24,835.9 hits per month during the same time frame, this increase is due to online bill pay and a smart portal which allows registered users to track their electric, gas, and water usage. Responded to a few complaints received thru the complaint form on the City website.
YEAR 7 February 2018 – February 2019	

d. Hotline/Help Line

BMP	Measurable Goals / Accomplishments
Maintain Hotline/Help Line	The permittee shall promote and maintain a stormwater hotline/help line for the purpose of public involvement and participation.
YEAR 5 December 2015 - November 2016	Goals: Get more seasonal information on the Stormwater web page and create a separate Kings Mountain Stormwater Facebook page with lots of information about stormwater issues and seasonal information aimed at users most likely to use the Facebook medium for information and contact. Maintain the stormwater@cityofkm.com email address for reporting stormwater issues. Accomplishments: Maintained the stormwater@cityofkm.com email address for stormwater complaints and questions. Maintained the Stormwater Department page on the City of Kings Mountain website. The stormwater page averaged 37 hits per month over the last 10 months with the lowest month being 13 hits and the highest month being 97 hits. The City’s main website averaged approx. 9,663 hits per month during the same time frame. The Stormwater Department phone number, 704-734-4501, is advertised on the website and in all literature distributed to the public.
YEAR 6 December 2016– February 19, 2018	ACCOMPLISHMENTS: The stormwater department uses the stormwater page of the city website, www.cityofkm.com/stormwater , to provide information on the stormwater program and stormwater issues. The stormwater page averaged 18.25 hits per month over the last 12 months with the lowest month being 10 hits and the highest month being 29 hits. The City’s main website averaged approx. 24,835.9 hits per month during the same time frame, this increase is due to online bill pay and a smart portal which allows registered users to track their electric, gas, and water usage. Responded to a few complaints received thru the complaint form on the City website. The Stormwater Department phone number, 704-734-4501, is advertised on the website and in all literature distributed to the public.
YEAR 7 February 2018 – February 2019	

SECTION D: ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE)

1. Objectives for Illicit Discharge Detection and Elimination

- (a) Implement and enforce a program to detect and eliminate illicit discharges in the MS4.
- (b) Maintain a storm sewer system map, showing the location of all major outfalls and the names and locations of all waters of the United States that receive discharges from those outfalls;
- (c) Prohibit, through ordinance, or other regulatory mechanism, non-storm water discharges except as allowed in this permit and implement appropriate enforcement procedures and actions.
- (d) Implement a plan to detect and address non-storm water discharges, including illegal dumping, to the MS4.
- (e) Inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste.
- (f) Address the following categories of non-storm water discharges or flows (i.e., illicit discharges) only if you identify them as significant contributors of pollutants to the MS4: water line flushing , landscape irrigation, diverted stream flows, rising ground waters, uncontaminated ground water infiltration, uncontaminated pumped ground water, discharges from potable water sources, foundation drains, air conditioning condensation, irrigation water, springs, water from crawl space pumps, footing drains, lawn watering, individual residential car washing, charity car washes, flows from riparian habitats and wetlands, de-chlorinated swimming pool discharges, and street wash water (discharges or flows from firefighting activities are excluded from the effective prohibition against non-storm water and need only be addressed where they are identified as significant sources of pollutants to waters of the United States).

2. BMPs for Illicit Discharge Detection and Elimination

The permittee shall implement the following BMPs to meet the objectives of the Illicit Discharge Detection and Elimination Program within the schedule submitted on the Permittee’s application so that the Permittee fully implements its permitted program within five years from permit issuance and shall notify the division prior to modification of any goals.

a. Illicit Discharge Detection and Elimination Program

BMP	Measurable Goals / Accomplishments
Maintain an Illicit Discharge Detection and Elimination Program	Maintain a written Illicit Discharge Detection and Elimination Program, including provisions for program assessment and evaluation and integration programs.
YEAR 6 December 2016 – February 19, 2018	Accomplishments: We maintain an illicit discharge log which we began in 2015. Began an illicit discharge SOP to lay out step by step procedures.
YEAR 7 February 2018 – February 2019	Goals: Continue to maintain the illicit discharge log and complete and follow the SOP. Seven City employees are scheduled to attend Chemical Spill Response Training/OSHA Level II on March 16 th in Concord, NC presented by Sigma Consulting and Training, Inc.

SECTION D: ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE) (continued)

b. Legal Authority

BMP	Measurable Goals / Accomplishments
Maintain adequate legal authorities	The permittee shall annually review the permittee’s IDDE ordinances or other regulatory mechanisms, or adopt any new ordinances or other regulatory mechanisms that provide the permittee with the adequate legal authority to prohibit illicit connections and discharges and enforce the approved IDDE Program.
YEAR 5 December 2015 - November 2016	Goals: Continue to review IDDE and other regulatory mechanisms to insure the Stormwater Department has authority to enforce the Ordinances and IDDE. Aggressively identify sources of illicit discharge address significant discharge issues. Accomplishments: Continued to maintain the illicit discharge spreadsheet. There were 0 incidents of illicit discharge documented this year. Continued to review our Stormwater Ordinance which grants us authority to address significant discharge issues.
YEAR 6 December 2016 – February 19, 2018	ACCOMPLISHMENTS: Continued to maintain the illicit discharge spreadsheet. There were 2 incidents of illicit discharge documented this year. Both of these involved mud in the roadway from residential construction. One incident was mitigated and corrected by the Construction Company and the second was cleaned up by City crews when it was determined that the mud came from an individual property owner who had purchased dirt to build up his yard. Continued to review our Stormwater Ordinance which grants us authority to address significant discharge issues.
YEAR 7 February 2018 – February 2019	Goals: Continue to maintain the illicit discharge spreadsheet. Complete and follow the SOP for any illicit discharge complaint or discovery.

c. Storm Sewer System Base Map of Major Outfalls and Testing

BMP	Measurable Goals / Accomplishments
Maintain a Storm Sewer System Base Map of Major Outfalls	The permittee shall maintain a current map showing major outfalls and receiving streams.
YEAR 5 December 2015 - November 2016	Goals: Continue the system mapping project. Complete the catch basin mapping and work on pipes and ditches, with materials and condition. Accomplishments: Completing phase III of the mapping project with the majority of the catch basins, outfalls, ditches, streams and stormdrainage pipes mapped.
YEAR 6 December 2016 – February 19, 2018	ACCOMPLISHMENTS: Completed stormwater mapping project. Received paper copies of maps from PE for use by Supervisor and Coordinator and one for marking for return to PE with changes as made. This map is also on a GIS system we will be able to access on our computer. Have added Stormwater to the GIS Layer on the Mobile 311 system for use by the stormwater employees.
YEAR 7 February 2018 – February 2019	Goals: Continue to mark discoveries and changes on the stormwater map copies and provide those to the PE for addition to the published maps.

d. Implement a program to detect dry weather flows

BMP	Measurable Goals / Accomplishments
Detect dry weather flows	The permittee shall develop and implement a program for conducting dry weather flow field observations in accordance with a written procedure for detecting and removing sources of illicit discharges.
YEAR 6 December 2016 – February 19, 2018	ACCOMPLISHMENTS: began writing SOP for conducting dry weather flow detection and SOP for removal of sources of illicit discharge.
YEAR 7	GOAL: Complete SOPs and implement program.

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- e. Investigate sources of Identified Illicit Discharges
- f. Track and document investigations of illicit discharges
- g. Provide employee training (see g. below)
- h. Provide public education (see h. below)
- i. Provide a public reporting mechanism
- j. Enforcement of the IDDE

BMP	Measurable Goals / Accomplishments
e. Investigations into the source of all identified illicit discharges.	The permittee shall maintain, and evaluate annually, written procedures for conducting investigations of identified illicit discharges.
f. Track investigation and document illicit discharges	The permittee shall track all investigations and document the date(s) the illicit discharge was observed; the results of the investigation; any follow-up of the investigation; and the date the investigation was closed.
i. Public reporting mechanism	The permittee shall promote, publicize, and facilitate a reporting mechanism for the public and staff to report illicit discharges and establish and implement citizen request response procedures.
j. Enforcement	The permittee shall implement a mechanism to track the issuance of notices of violation and enforcement actions as administered by the permittee. This mechanism shall include the ability to identify chronic violators for initiation of actions to reduce noncompliance.
YEAR 5 December 2015 - November 2016	Goals: Continue spreadsheet and track illicit discharges. Accomplishments: Continued spreadsheet to track reports of illicit discharge. There were 0 incidents of illicit discharge documented this year.
YEAR 6 December 2016 – February 19, 2018	ACCOMPLISHMENTS: The only illicit discharges we have had issues with this year have been mud from residential construction and landscaping. Continued maintaining the illicit discharge spreadsheet in which we record the incident, address, and other pertinent information. Follow up procedures are recorded and dated in order to identify chronic violators. Began to compile an SOP for illicit discharge identification, investigation, enforcement, and tracking.
YEAR 7 February 2018 – February 2019	Goals: Continue working on an SOP for illicit discharge identification, investigation, enforcement, and tracking.

g. Employee Training

BMP	Measurable Goals / Accomplishments
Employee Training	The permittee shall implement and document a training program for appropriate municipal staff who as part of their normal job responsibilities, may come into contact with or otherwise observe an illicit discharge or illicit connection to the storm sewer.
YEAR 5 December 2015 - November 2016	Goals: Do additional employee training across all departments. Specifically drivers of City vehicles and those who handle chemicals etc. Accomplishments: Finalizing the training program set-up for city employees. Two stormwater employees were certified by Sigma Consulting and Training in Hazardous Materials Operations / OSHA Level II+ (8 hrs of Chemical Spill Response Training) along with two employees of the Fleet Maintenance Department
YEAR 6 December 2016 –	ACCOMPLISHMENTS: A safety committee has been established with an employee from each division of the Public Works Department as well as one from the Stormwater Department.

February 19, 2018	These personnel attended a Safety training class given by the National Safety Council on how to establish a safety and training program. This committee will be made aware of spill training procedures and guidelines as well as other stormwater issues such as illicit discharge notification procedures.
YEAR 7 February 2018 – February 2019	GOALS: Seven (7) employees are scheduled for Chemical Spill Response Training class in March, 2018 in Concord, NC given by Sigma Consulting and Training, Inc.

h. Public Education

BMP	Measurable Goals / Accomplishments
Provide Public Education	The permittee shall inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste.
YEAR 5 December 2015 - November 2016	Goals: Hold meetings to further promote recycling, litter reduction, and environmental footprint reduction. Accomplishments: Held planning meeting with the Library staff regarding participation in the summer reading program (2017) to further promote recycling, litter reduction, and environmental footprint education as well as hazards and consequences associated with illegal discharges and improper disposal of waste.
YEAR 6 December 2016 – February 19, 2018	ACCOMPLISHMENTS: Working on a press release to inform the public about hazards associated with illegal discharges and improper disposal of waste. Will have to be approved by the City Manager’s office prior to release.
YEAR 7 February 2018 – February 2019	Goals: Continue tracking any illicit discharges and create a forum on the City Facebook page to make those discharges public. Seven (7) employees are scheduled for spill response training class in March, 2018.

SECTION E: CONSTRUCTION SITE RUNOFF CONTROLS

1. Pursuant to 40CFR 122.35 (b) and the maximum extent practicable (MEP) standard, the permittee may rely on the N.C. Division of Energy, Mineral and Land Resources Sediment and Erosion Control Program to comply with this minimum measure. The NCDEMLR Division of Land Resources Sediment and Erosion Control Program effectively meets the MEP standard for Construction Site Runoff controls by permitting and controlling development activities disturbing one or more acres of land surface and those activities less than one acre that are part of a larger common plan of development as authorized under the Sediment Pollution Control Act of 1973 and Chapter 4 of Title 15A of the North Carolina Administrative Code. The NC Division of Energy, Mineral, and Land Resources Sediment and Erosion control Program continues to be monitored by the EPA to ensure the State effectively meets the MEP standard established by the Sediment Pollution Control Act of 1973 and Chapter 4 of Title 15A of the North Carolina Administrative Code.
2. The NCG010000 permit establishes requirements for construction site operators to control waste such as discarded building materials, concrete truck washout, chemicals, litter and sanitary waste at the construction site that may cause adverse impacts to water quality.
3. The permittee shall provide and promote a means for the public to notify the appropriate authorities of observed erosion and sedimentation problems. The permittee may implement a plan promoting the existence of NC Department of Environmental Quality (NCDEQ OR DEQ), Division of Energy, Mineral, and Land Resources “Stop Mud” hotline to meet the requirements of this paragraph.

CONSTRUCTION SITE RUNOFF CONTROLS

<p>YEAR 5 December 2015 - November 2016</p>	<p>Goals: Continue to utilize the NCDENR to comply with these minimum measures. Accomplishments: The permittee relies on NCDENR (DLR) to comply with these minimum measures. No development permits are issued by the City Stormwater Department without the applicant first providing their NCDENR (DLS) permit. The City Stormwater Department Employees are trained to recognize issues with improper silt fencing, proper sanitary waste, and litter at construction sites. Provided stormwater@cityofkm.com for the public to notify us of observed erosion and/or sedimentation problems.</p>
<p>YEAR 6 December 2016 – February 19, 2018</p>	<p>ACCOMPLISHMENTS: The permittee relies on NCDENR (DLR) to comply with these minimum measures. No development permits are issued by the City Stormwater Department without the applicant first providing their NCDENR (DLS) permit. The City Stormwater Department Employees are trained to recognize issues with improper silt fencing, proper sanitary waste, and litter at construction sites. Provided stormwater@cityofkm.com for the public to notify us of observed erosion and/or sedimentation problems.</p>
<p>YEAR 7 February 2018 – February 2019</p>	<p>GOALS: Continue to rely on NCDEQ to comply with these minimum requirements. Continue to train employees to recognize and report issues with construction site controls.</p>

SECTION F: POST-CONSTRUCTION SITE RUNOFF CONTROLS

1. Objectives for Post-Construction Site Runoff Controls

- a. 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 discharges into the small MS4. The program shall ensure that controls are in place that would prevent or minimize water quality impacts.
- b. Implement strategies which include a combination of structural Stormwater Control Measures (SCM) and/or non-structural best management practices (BMPs) appropriate for the community;
- c. Use an ordinance or other regulatory mechanism to address post-construction runoff from new development and redevelopment projects; and
- d. Ensure adequate long-term operation and maintenance of SCMs.

2. BMPs for Post-Construction Site Runoff Controls

The Permittee shall implement the following BMPs to meet the objectives of the Post-Construction Stormwater Management Program. To the extent there is any conflict between this permit and the post-construction ordinances adopted by the permittee as approved by the Division, the post-construction ordinances shall apply with regard to permit compliance.

BMP	MEASUREABLE GOALS
(a) Adequate legal authorities	Maintain through an ordinance, or other regulatory mechanism, adequate legal authorities designed to meet the objectives of the Post-Construction Site Runoff Controls Stormwater Management program.
	The permittee shall have the authority to review designs and proposals for new development and redevelopment to determine whether adequate stormwater control measures will be installed, implemented, and maintained.
	The permittee shall have the authority to request information such as stormwater plans, inspection reports, monitoring results, and other information deemed necessary to evaluate

	compliance with the Post-Construction Stormwater Management Program.
	The permittee shall have the authority to enter private property for the purpose of inspecting at reasonable times any facilities, equipment, practices, or operations related to stormwater discharges to determine whether there is compliance with the Post-Construction Stormwater Management Program.
	Proposed Objectives
YEAR 5 December 2015 - November 2016	Goals: Continue to work with Codes Department to make sure that we are aware of all building permits applications and have input prior to the permit being issued. Continue to review plans for business construction and renovations inside the City Limits of Kings Mountain. Accomplishments: Approved Stormwater Permits for two businesses. Continued to work with Codes Department to insure that no new construction’s building permits or renovation permits are issued before determining if a stormwater permit is required, and if so has been approved and issued.
YEAR 6 December 2016 – February 19, 2018	ACCOMPLISHMENTS: Have continued to work with the Codes Department and by the process of a pre-construction meeting program are able to have input prior to permit being issued, a Stormwater Permit is required and has to be approved prior to the building permit being issued. The City Ordinance gives us adequate legal authorities designed to meet the objectives of the Post-Construction Site Runoff Controls Stormwater Management program.
YEAR 7 February 2018 – February 2019	GOALS: Continue to work with the Codes Department to develop tighter planning processes. Develop a sub-division plan including fees.

POST-CONSTRUCTION SITE RUNOFF CONTROLS

3. Strategies Appropriate for the MS4

BMP	Measurable Goals
(b) Strategies which include Stormwater Control Measures (SCMs) appropriate for the MS4	The permittee shall adopt the DWQ BMP Design Manual or certify that the local BMP Design Manual meets or exceeds the requirements in the DWQ BMP Design Manual. The City Ordinance requires that all permits meet the DWQ BMP Design Manual requirements.
YEAR 5 December 2015 - November 2016	Goals: Continue to issue permits, review plans, and enforce the Stormwater Ordinance. Continue to check on BMPs for existing businesses. Accomplishments: Maintained contact with one business who’s BMP failed due to heavy rain. BMP was re-established to original specs (not originally met) and was successful thru the next heavy rain event.
YEAR 6 December 2016 – February 19, 2018	ACCOMPLISHMENTS: The City Ordinance requires that all permits meet the DWQ BMP Design Manual requirements. Continued to issue permits, review plans, and enforce the Stormwater Ordinance. Continued to check on SCMs for existing businesses. Made contact with the owners of three SCMs which were in need of maintenance.
YEAR 7 February 2018 – February 2019	Goals: Continue to review and update the Ordinance as needed. Continue to use the DWQBMP Design Manual requirements.

POST-CONSTRUCTION SITE RUNOFF CONTROLS

4. Plan Reviews

BMP	Measurable Goals
(c) Plan Reviews	The permittee shall conduct site plan reviews of all new development and redevelopment sites. The site plan review shall address how the project applicant meets the performance standards and how the project will ensure long-term maintenance.
(d) Deed Restrictions and Protective Covenants	The permittee shall provide mechanisms such as recorded deed restrictions and protective covenants that ensure development activities will maintain the project consistent with the approved plans.
YEAR 5 December 2015 - November 2016	Goals: Continue to get info for responsible parties for the ongoing maintenance of BMPs throughout the City of Kings Mountain’s corporate limits. Accomplishments: Maintained contact with responsible parties regarding the maintenance and inspection of BMPs.
YEAR 6 December 2016 – February 19, 2018	ACCOMPLISHMENTS: Approved Stormwater Permits for Firestone, NTE, and Kings Plush. Requested and received O & M Agreements for these developments. Maintained contact with responsible parties regarding maintenance of BMPs.
YEAR 7 February 2018 – February 2019	Goals: Continue to review existing O&M Agreements and request inspection reports. Be sure to get O&M Agreements for each new development.

5. Inventory, O & M, Inspections and Enforcement of Structural BMPs

BMP	Measurable Goals
(d) Inventory of projects with post-construction structural stormwater control measures	The permittee shall maintain an inventory of projects with post-construction stormwater control measures installed and implemented in the new development and redeveloped sites, including both public and private sector sites located within the permittee’s corporate limits that are covered by its post-construction ordinance requirements.
(f) Provide a mechanism to require long-term operation and maintenance of structural BMPs	The permittee shall implement or require an operation and maintenance plan for the long-term operation of the structural BMPs required by this program. The operation and maintenance plan shall require the owner of each structural BMP to perform and maintain a record of annual inspections of each structural BMP. Annual inspection of permitted structural BMPs shall be performed by qualified personnel.
(g) Inspections	To ensure that all stormwater control measures meet the permittee’s performance standards and are being maintained pursuant to the maintenance agreement, the permittee shall develop and implement a written inspection program for structural stormwater controls installed pursuant to the permittee’s post-construction program. The permittee shall document and maintain records of inspections, findings, and enforcement actions and make them available for review by the permitting authority.
(i) Enforcement	The permittee shall track the issuance of notices of violation and enforcement actions. This mechanism shall include the ability to identify chronic violators for initiation of actions to reduce noncompliance.
YEAR 5 December 2015 - November 2016	Goals: Maintain Spreadsheets and continue to locate and identify existing BMPs at businesses built prior to Stormwater Ordinance. Accomplishments: Maintained contact with one business who’s BMP failed due to heavy rain.

	BMP was re-established to original specs (not originally met) and was successful thru the next heavy rain event. Made sure other BMPs in town were kept up to standards.
YEAR 6 December 2016 – February 19, 2018	ACCOMPLISHMENTS: The Department maintains a spreadsheet of projects with post-construction stormwater control measures installed. We have or have requested an O & M agreement from each SCM owner. These are usually requested during the stormwater permit process. Will ask CODES if this can be a requirement prior to the CO being issued. Began issuing requests for inspection reports from owners of SCMs this year.
YEAR 7 February 2018 – February 2019	Goals: Continue to maintain spreadsheet of projects and spreadsheet of all SCMs. Be sure that we have an O&M Agreement on each SCM.

6. Educational Materials and Training for Developers

(h) Educational materials and training for developers	The permittee shall make available through paper or electronic means, ordinances, post-construction requirements, design standards checklist, and other materials appropriate for developers. New materials may be developed by the permittee, or the permittee may use materials adopted from other programs and adapted to the permittee’s new development and redevelopment program.
YEAR 5 December 2015 - November 2016	Goals: To further develop the web-page and Facebook page links with additional information and materials. To have paper forms available for developers who require those. The permittee will be looking at special workshops for developers and/or builders to attend as possible prerequisites to working within the jurisdiction. The permittee will further develop its webpage and Facebook page to assist the developers and/or builders as much as possible to meet and exceed the post-construction requirements. Accomplishments: Ordinances and post construction requirements etc. are available on the City of Kings Mountain web-site on the Stormwater Page. Paper copies are available from the Stormwater office. Had Communications with several businesses prior to and during the building permit and storm water permit phase of development.
YEAR 6 December 2016 – February 19, 2018	ACCOMPLISHMENTS: The City of Kings Mountain Stormwater Ordinance and the post construction requirements are available on the City of Kings Mountain website on the Stormwater page. Paper copies of the Permit as well as the O&M Agreements are available from the Stormwater office.
YEAR 7 February 2018 – February 2019	Goals: To continue to maintain the web pages and the materials on-line. Discover any new sources for stormwater information that may help the developers understand the need for stormwater control measures.

POLLUTION PREVENTION AND GOOD HOUSEKEEPING FOR MUNICIPAL OPERATIONS

1. Objectives for Pollution Prevention and good Housekeeping for Municipal Operations

- a. Develop and implement an operation and maintenance program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations.
- b. Provide employee training to prevent and reduce stormwater pollution from activities such as park and open space maintenance and stormwater system maintenance.

2. BMPs for the Pollution Prevention and Good Housekeeping for Municipal Operations

The permittee shall implement the following BMPs to meet the objectives of the Pollution Prevention and Good Housekeeping Program within the schedule submitted on the permittee’s application so that the permittee fully

implements its permitted program within five years from the permit issuance and shall notify the Division prior to modification of any goals.

3. Inventory and O & M for Municipally Owned Facilities

(a) Inventory of municipally owned or operated facilities	The permittee shall maintain a current inventory of facilities and operations owned and operated by the permittee with the potential for generating polluted stormwater runoff.
(b) Operation and Maintenance (O & M) for municipally owned or operated facilities	The permittee shall maintain and implement, evaluate annually and update as necessary an O & Maintain program for municipal owned and operated facilities with the potential for generating polluted stormwater runoff. The O & M program shall specify the frequency of inspections and routine maintenance requirements.
YEAR 5 December 2015 - November 2016	Goals: Complete the O & M program for the municipal owned and operated facilities, including the frequency of inspections and routine maintenance requirements. Complete detention pond for Public Works and the downtown municipal parking lots. Complete BMP for roof water runoff at P/W. Accomplishments: Had plans drawn and cost estimates done for detention pond at Public works. Began land clearing for pond location. Oversaw building of downtown parking lot for water runoff efficiency.
YEAR 6 December 2016 – February 19, 2018	ACCOMPLISHMENTS: Began and inventory spreadsheet of the Municipally owned facilities and operations, with a designation of the potential for generating polluted stormwater runoff.
YEAR 7 February 2018 – February 2019	Goals: Continue to develop the spreadsheet of Municipally owned facilities and operations. Become more familiar with how these operations have the potential to generate polluted stormwater runoff. Assist the departments with SCMs to limit the potential for this runoff.

4. Spill Response Procedures

(c) Spill Response Procedures	The permittee shall have written spill response procedures for municipally owned or operated facilities.
YEAR 5 December 2015 - November 2016	Goals: The permittee will continue to train employees, monitor, and update our spill response procedures as facilities grow and/or processes change. Accomplishments: Obtained supplies for spill kits to be in city vehicles and finalized training materials.
YEAR 6 December 2016 – February 19, 2018	ACCOMPLISHMENTS: A Spill SOP for municipal employees is being written by the Fleet Maintenance Supervisor and the Public Works Superintendent. It will then need to be approved by the City Manager before classes can be held with all of the employees on what their response should be when/if they have or see a spill. We have developed a safety committee, consisting of one member of each division or department, that meets monthly to discuss any and all safety issues.
YEAR 7 February 2018 – February 2019	Goals: Continue to work on training the municipal employees. 7 employees are registered to attend Chemical Spill Response training on March 16 th in Concord, NC given by Sigma Consulting and Training, Inc. The stormwater representative on the Safety Committee will be advising the remaining committee members on procedures regarding spill and illicit discharge response.

5. Streets, Roads and Public Parking Lot maintenance

(d) Streets, roads, and public parking lot maintenance	The permittee shall evaluate BMPs to reduce polluted stormwater runoff from municipally-owned streets, roads, and public parking lots within the corporate limits. Within 12 months, the permittee must update its Stormwater Plan to include the BMPs selected.
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(e) Streets, roads, and public parking lots maintenance	Within 24 months, the permittee must implement BMPs selected to reduce polluted stormwater runoff from municipally-owned streets, roads, and public parking lots.
YEAR 5 December 2015 - November 2016	Goals: The permittee will begin work with the NCDOT to address the streets and roads owned by the State which run through our corporate limits and have potential to facilitate pollution in entering the permittee’s storm drainage system. The permittee is looking to improve the curbside waste policy. Accomplishments: Working on contract with DOT to takeover some state maintained roads inside city limits once the roads and storm system is brought up to standards. Working on improved leaf collection program for future years.
YEAR 6 December 2016 – February 19, 2018	ACCOMPLISHMENTS: In February 2017, the curbside waste policy was changed to require residents or property owners to pay for roadside debris pick-up. This has reduced the amount of roadside debris put out on the road and thereby reducing the amount of potential trash and debris caught up by water following rain events. We have been pushing the “behind the curb” collection of leaves and grass clippings. Built two parking lots connected with “Patriot’s Park” downtown with the stormwater flow from these parking areas all flowing into the park to be filtered by rip-rap and stone, built two parking area’s also connected with “Patriot’s Park” one of these flows toward the park and the other flows toward the City Street. Built a new park/playground on Gantt Street and used a gravel parking area to filter the stormwater runoff. The City is using Brine for winter storm prep rather than salt/sand mix for the City streets and parking lots. The City is using calcium chloride for side walk prep. The City uses the street sweeper for public parking lot clean up on a weekly basis.
YEAR 7 February 2018 – February 2019	Goals: Continue to push the “behind the curb” collection for leaves and yard debris. Continue to develop better SCMs for municipally owned parking lots, streets, and roads.

6. Operation and Maintenance (O & M)

(f) Operation and Maintenance (O & M) for municipally-owned or maintained catch basins and conveyance systems	Within 12 months, the permittee shall develop and implement an O & M program for the stormwater sewer system including catch basins and conveyance systems that it owns and maintains.
YEAR 5 December 2015 - November 2016	Goals: The permittee will continue to inventory non-publically owned conveyance systems and determine the best management of these systems. It may prove to be beneficial to obtain easements to include some of these in our own O & M. Continue with the priority list of ditches and storm drain maintenance and repair. Accomplishments: Repaired several ditches around town to bring them up to specifications. Looking into some areas of concern for under sized systems to see cost and easements feasibility.
YEAR 6 December 2016 – February 19, 2018	ACCOMPLISHMENTS: Completed our initial mapping of the stormwater conveyance systems, with paper copies to be marked with additions and corrections. Clean catch basins and do ditch and conveyance systems inspections on a bi-annual schedule and prior to any forecasted rain event.
YEAR 7 February 2018 – February 2019	Goals: Continue to fill in the gaps in the original mapping. Will be adding pipe, ditch, catch basin status’ to the stormwater mapping and creating and maintaining an O&M list of those SCMs, prioritizing those requiring maintenance or repair.

7. Inventory and O & M of Municipally-owned/maintained Structural BMPs

(g) Identify structural	The permittee shall maintain a current inventory of municipally-owned or operated structural
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stormwater controls	controls installed for compliance with the permittee’s post-construction ordinance.
(h) Operation and Maintenance (O & M) for municipally owned or maintained structural stormwater controls	The permittee shall maintain and implement an O & M program for municipally-owned or maintained structural stormwater controls installed for compliance with the permittee’s post construction ordinance. The O & M shall specify the frequency of inspections and routine maintenance requirements. The permittee shall inspect and maintain municipally-owned or maintained structural stormwater controls in accordance with the schedule developed by the permittee. The permittee shall document inspections and maintenance of all municipally-owned or maintained structural stormwater controls.
(i) Pesticide, Herbicide, and Fertilizer Application Management	The permittee shall ensure municipal employees and contractors are properly trained and all permits, certifications and other measures for applicators are followed.
(k) Prevent or Minimize Contamination of Stormwater runoff from all areas used for vehicle and equipment cleaning	The permittee shall describe and implement measures to prevent or minimize contamination of the stormwater runoff from all area used for vehicle and equipment cleaning.
YEAR 5 December 2015 - November 2016	Goals: Continue to implement an O & M program for municipally-owned stormwater controls. Complete upgrades to wash-pit and downtown parking lots. Continue weekly cleaning of stormdrains and continue inspections of drains and ditches and BMPs in the city system. Accomplishments: Installed and started using “Mobil 311” web based work order system to record and maintain all work orders and storm system progress.
YEAR 6 December 2016 – February 19, 2018	ACCOMPLISHMENTS: Catch basins are cleaned and ditches and conveyance systems are inspected on a bi-annual schedule and prior to any forecasted rain event. Records of the cleanings and inspections are maintained by the crew.
YEAR 7 February 2018 – February 2019	Goals: Create an Inventory and O & M Manual with the schedule for inspections and for any upgrades or repairs. Ensure municipal employees and contractors are properly trained and all permits, certifications and other measures for applicators are followed. Describe and implement measures to prevent or minimize contamination of the stormwater runoff from all area used for vehicle and equipment cleaning.

8. Staff Training

(j) Staff Training	The permittee shall implement an employee training program for employees involved in implementing pollution prevention and good housekeeping practices.
YEAR 5 December 2015 - November 2016	Goals: Continue O & M programs for the City owned buildings including employee training. Accomplishments: Finalizing outline for employee training in spill prevention. Trained employees to use Mobil 311 system
YEAR 6 December 2016 – February 19, 2018	ACCOMPLISHMENTS: The City appointed an employee from each division to a Safety Committee beginning 12/18/18. This committee is responsible for training and safety of each employee. The stormwater representative CJ White will be directing the other members in training regarding pollution prevention and good housekeeping practices at and around Municipally owned and operated facilities. We are still working on a Spill Prevention and Response Policy and Training Manual.
YEAR 7 February 2018 – February 2019	Goals: Continue with training of employees re: pollution prevention and good housekeeping practices at and around Municipally owned and operated facilities. Continue with completion and implementation of a Spill Prevention and Response Policy and Training Manual.

TOTAL MAXIMUM DAILY LOADS (TMDLs)

1. Objectives

- a. Determine whether a TMDL has been developed and approved or established by EPA for the receiving water(s) for the MS4 stormwater discharge and/or downstream waters into which the receiving water directly flows.
- b. Develop and implement BMPs to reduce non-point source pollutant loading to the maximum extent practicable (MEP) if the Permittee is or becomes subject to an approved TMDL with an approved Waste Load Allocation (WLAs) assigned to stormwater.
- c. If subject to an approved TMDL, the Permittee is in compliance with the TMDL if the permittee complies with the conditions of this permit, including developing and implementing appropriate BMPs to reduce non-point source pollutant loading to the maximum extent practicable (MEP). While improved water quality is the expected outcome, the NPDES MS4 permit obligation is to reduce non-point source pollutant loading to the maximum extent practicable (MEP). The MS4 Permittee is not responsible for attaining water quality standards (WQS) at the ambient monitoring stations. The Division expects attaining WQS will only be achieved through reduction from the MS4, along with reductions from other non-point source contributors.

2. Best Management Practices (BMPS)

At any time during the effective dates of this permit, if the Permittee is or becomes subject to an approved TMDL with and approved Waste Load Allocation (WLAs) assigned to stormwater, the permittee shall implement the following BMPs to reduce non-point source pollutant loading to the maximum extent practicable (MEP):

(a) Identify, describe and map watershed outfalls, and streams	Within 12 months the Permittee shall prepare a plan that: Identifies the watershed(s) subject to an approved TMDL with an approved Waste Load Allocation (WSL) assigned to stormwater, . . .
YEAR 5 December 2015 - November 2016	Goals: The permittee will continue to monitor the EPA and DWQ websites to ensure that if such TMDLs are placed on any of the receiving streams the above schedule of the BMPs will be implemented. Accomplishments: According to the EPA and DWQ Broad and Catawba River Basins' Water Quality Plans there are currently no TMDLs on any of the permittee's receiving streams or the downstream waters into which these streams directly flow. See Appendix C Map from Catawba River Basin, basin wide Study.
YEAR 6 December 2016 – February 19, 2018	ACCOMPLISHMENTS: According to the EPA and DWQ Broad and Catawba River Basins' Water Quality Plans there are currently no TMDLs on any of the permittee's receiving streams or the downstream waters into which these streams directly flow. See Appendix C Map from Catawba River Basin, basin wide Study.