

NMS-SWMP Town of Knightdale NCS000460

10/12/2024

The schedule for implementation document is set to coordinate with our new MS4 permit cycle, following its issuance.

While the implementation schedule will technically not be in effect until after the permit is renewed, all NMS elements included in this document will be implemented by the deadline provided by the EMC and tracked according to each associated metric.

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PART 1: INTRODUCTION

The purpose of this Stormwater Management Plan (SWMP) is to establish and define the means by which the Town of Knightdale 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 Knightdale 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 NCS000460, 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 Knightdale and located within the corporate limits of the Town of Knightdale.

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

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

PART 2: CERTIFICATION

By my signature below I hereby certify, under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.

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

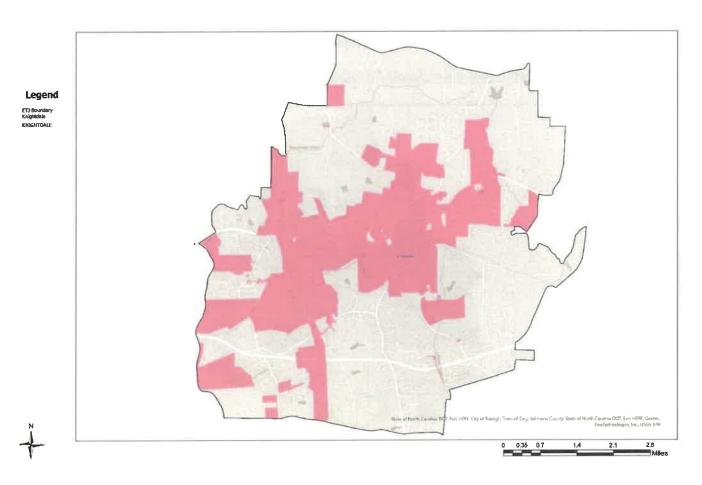
I am also aware that the contents of this document shall become an enforceable part of the NPDES MS4 Permit, and that both the Division and the Environmental Protection Agency have NPDES MS4 Permit compliance and enforcement authority.

| ☐ I am a rai | nking elected official. | | | |
|----------------|--|--|--|--|
| □ I am a pri | incipal executive officer for the permitted MS4. | | | |
| | ally authorized representative for the permitted MS4 and have attached the authorization made g 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: | Will Life | | | |
| Print Name: | | | | |
| Title: | Town Manager | | | |
| Signed this | 21 day of November 2024. | | | |

PART 3: MS4 INFORMATION

3.1 Permitted MS4 Area

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



3.2 Existing MS4 Mapping

The current MS4 mapping includes stormwater inflows, culvert drain pipes, channels, stormwater discharges, and SCM devices. Roughly 95% of the towns MS4 system has been mapped to date. However, previously unmapped stormwater infrastructure is still occasionally discovered and included. Stormwater inflows include information on material, diameter/box size, and length. Culvert drain pipes include information on diameter, box size, material, and length. Stormwater discharges include information on material, diameter/box size, and ownership. The stormwater discharges mapped include all outfalls, including 69 major outfalls meeting the designated criteria listed below. SCM devices mapped include information on facility type and ownership values.

Stormwater Management | Town of Knightdale, NC (knightdalenc.gov)

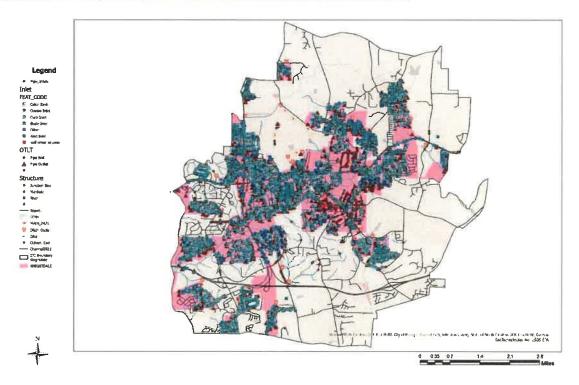


Table 1: Summary of Current MS4 Mapping

| Percent of MS4 Area Mapped | 95 | % |
|---|----|-------|
| No. of Major Outfalls* Mapped (Excluding Major outfalls discharging to SCM Devices) | 69 | total |

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

3.3 Receiving Waters

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

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

Table 2: Summary of MS4 Receiving Waters

| Receiving Water Name | Stream Index / AU | Water Quality | 303(d) Listed Parameter(s) of Interest |
|-------------------------|----------------------|------------------|--|
| | Number | Classification | of interest |
| Beaver Dam Creek | 27-29 | C;NSW | Not Listed |
| Milburnie Creek | 27-31 | C;NSW | Not Listed |
| Mingo Creek | 27-32 | C;NSW | Not Listed |
| Poplar Creek | 27-35 | C;NSW | Not Listed |
| Marks Creek (Lake Myra) | 27-38 | C;NSW | Not Listed |

3.4 MS4 Interconnection

The Town of Knightdale MS4 is interconnected with another regulated MS4 and directly discharges to the receiving waters as listed in Table 2 above.

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

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

3.5 Total Maximum Daily Loads (TMDLs)

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

Table 3: Summary of Approved TMDLs

| Water Body Name | TMDL Pollutant(s) of Concern | Stormwater Waste Load Allocation (Y/N) | Water Quality Recovery Program (Y/N) |
|---------------------|------------------------------|--|--|
| Neuse River Estuary | Total Nitrogen | Y | N |
| Statewide | Mercury | N | N |

3.6 Endangered and Threatened Species and Critical Habitat

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

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

| Scientific Name | Common name | Species Group | Federal Listing Status |
|-----------------------------|---------------------------|----------------|---------------------------|
| Haliaeetus leucocephalus | Bald Eagle | Vertebrate | BGPA |
| Noturus furiosus | Carolina Madtom | Vertebrate | ARS |
| Necturus Lewisi | Neuse River Waterdog | Vertebrate | ARS |
| Heterodon simus | Southern Hognose Snake | Vertebrate | ARS |
| Fusconaia masoni | Atlantic Pigtoe | Invertebrate | ARS |
| Alasmidonta heterodon | Dwarf Wedgemussel | Invertebrate | E |
| Lasmigona subviridis | Green Floater | Invertebrate | ARS |
| Lindera subcoriacea | Bog Spicebush | Vascular Plant | ARS |

BGPA - Bald and Golden Eagle Protection Act

ARS – At Risk Species

E – Endangered

3.7 Industrial Facility Discharges

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

Table 5: NPDES Stormwater Permitted Industrial Facilities

| Permit Number | Facility Name |
|---------------|--|
| NCGNE1376 | Eaton Knightdale Warehouse Operation - KWO |
| NCGNE1634 | Federal Express Corporation |
| NCGNE1600 | Knightdale ARC NC115 |
| NCG160159 | Knightdale Asphalt Plant |
| NCG140418 | Knightdale Batch Plant |
| NCG020030 | Knightdale Quarry |
| NCG140242 | Ready Mixed Concrete - Knightdale Plant |
| NCG100027 | Price's Auto Parts LLC |
| NCGNE1182 | Ametek ESP |

3.8 Non-Stormwater Discharges

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

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 Knightdale to determine whether they may significantly impact water quality. They were determined to be a possible source of water quality impacts and will be addressed through public education and outreach efforts. (See BMPs No. 3, 6 and 7.)

Table 6: Non-Stormwater Discharges

| Non-Stormwater Discharge | Water Quality Impacts |
|---|-----------------------|
| Water line and fire hydrant flushing | Incidental |
| Landscape irrigation | Incidental |
| Diverted stream flows | Incidental |
| Rising groundwater | Incidental |
| Uncontaminated groundwater infiltration | Incidental |
| Uncontaminated pumped groundwater | Incidental |
| Uncontaminated potable water sources | Incidental |
| Foundation drains | Incidental |

| Air conditioning condensate | Incidental |
|---|------------|
| Irrigation waters | Incidental |
| Springs | Incidental |
| Water from crawl space pumps | Incidental |
| Footing drains | Incidental |
| Lawn watering | Incidental |
| Residential and charity car washing | Possible |
| Flows from riparian habitats and wetlands | Incidental |
| Dechlorinated swimming pool discharges | Incidental |
| Street wash water | Possible |
| Flows from firefighting activities | Incidental |

3.9 Target Pollutants and Sources

In addition to those target pollutants identified above, the Town of Knightdale 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 Knightdale has evaluated schools, homeowners and businesses as target audiences that are likely to have significant stormwater impacts.

Table 7: Summary of Target Pollutants and Sources

| Target Pollutant(s) | Likely Source(s)/Target Audience(s) | SWMP Program Addressing |
|-------------------------|---------------------------------------|----------------------------------|
| | | Target Pollutant(s)/Audience(s) |
| Litter | Residents, Businesses, Schools | Public Education & Outreach |
| Yard Waste | Residential, Commercial | Public Education & Outreach, |
| | | Pollution Prevention & Good |
| | | Housekeeping |
| Sediment | Construction | Construction Site Runoff Control |
| Nutrients | Sewer Overflows, Failing Septic | Public Education & Outreach, |
| | Systems, Urbanization, Schools | Illicit Discharge Detection and |
| | | Elimination, Construction Site |
| | | Runoff Control, Post- |
| | | Construction Site Runoff |
| | | Control, Pollution Prevention & |
| | | Good Housekeeping |
| Fecal Coliform | Sewer overflows, Failing Septic | Public education & Outreach, |
| | Systems, Wildlife, Illicit Discharges | Illicit Discharge detection and |
| | | Elimination |
| Mercury/ Statewide TMDL | Atmospheric deposition | Public Education & Outreach |
| • | | (Fish Consumption Advisory) |

| Illicit Discharges | Residential, Commercial, Industrial, Municipal staff | Public Education & Outreach, Illicit Discharge Detection & Elimination, Pollution Prevention & Good Housekeeping |
|---------------------------------------|--|--|
| Illegal Dumping | Residential, Commercial, Industrial, Municipal staff | Public Education & Outreach, Illicit Discharge Detection & Elimination, Pollution Prevention & Good Housekeeping |
| Improper Disposal of waste | Residential, Commercial, Industrial, Municipal staff | Public Education & Outreach, Illicit Discharge Detection & Elimination, Pollution Prevention & Good Housekeeping |
| General Non-point Source Pollution | Residential, Commercial, Schools, Municipal staff | Public Education & Outreach, Pollution Prevention & Good Housekeeping |

PART 4: STORMWATER MANAGEMENT PROGRAM ADMINISTRATION

4.1 Organizational Structure

The Town of Knightdale stormwater program is implemented by the Public Works Department. The Public Works Director, with assistance from the Stormwater Manager and Stormwater Technician, is responsible for the management and implementation of all six minimum control measures. The Assistant Town Manager oversees this Program Implementation.

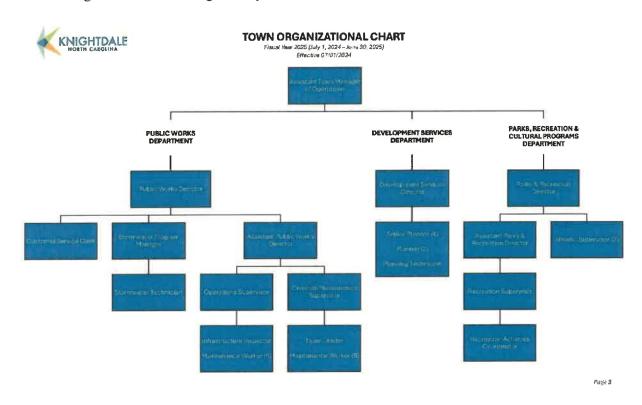


Table 8: Summary of Responsible Parties

| SWMP Component | Responsible Position | Staff Name | Department |
|--------------------------------------|------------------------------------|-----------------------------|----------------|
| Stormwater Program Administration | Assistant Town Manger (Operations) | Dustin Tripp | Administration |
| SWMP Management | Stormwater Program Manager | Ike Archer | Public Works |
| Public Education & Outreach | Stormwater Program Manager | Ike Archer, Mike Collins | Public Works |

| Public Involvement & Participation | Stormwater Program Manager, Stormwater Technician | Ike Archer, Mike Collins | Public Works |
|---|---|--|-----------------|
| Illicit Discharge Detection & Elimination | Stormwater Program Manager, Stormwater Technician | Ike Archer, Mike Collins | Public Works |
| Construction Site Runoff Control | Stormwater Program Manager, Operations Supervisor | Ike Archer, John Stover | Public Works |
| Post-Construction Stormwater Management | Stormwater Program Manager, Stormwater Technician | Ike Archer, Mike Collins | Public Works |
| Pollution Prevention/Good Housekeeping for Municipal Operations | Stormwater Program Manager, Operations Supervisor, Stormwater Technician | Ike Archer, John Stover, Mike Collins | Public Works |
| Municipal Facilities Operation & Maintenance Program | Stormwater Program Manager, Operations Supervisor | Ike Archer, John Stover | Public Works |
| Spill Response Program | Fire Chief | Loren Cone | Fire Department |
| MS4 Operation & Maintenance Program | Stormwater Program Manager | Ike Archer | Public Works |
| Municipal SCM Operation & Maintenance Program | Stormwater Program Manager, Stormwater Technician | Ike Archer, Mike Collins | Public Works |
| Pesticide, Herbicide & Fertilizer Management Program | Stormwater Program Manager, Operations Supervisor (Grounds) | Ike Archer, Jason Eubanks | Public Works |
| Vehicle & Equipment Cleaning Program | Stormwater Program Manager, Operations Supervisor | Ike Archer, John Stover | Public Works |
| Pavement Management Program | Public Works Director, Assistant Public Works Director | Phillip Bunton, Larry Johnson | Public Works |
| Total Maximum Daily Load (TMDL) Requirements | Stormwater Program Manager | Ike Archer | Public works |

4.2 Program Funding and Budget

In accordance with the issued permit, the Town of Knightdale 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 Town manages operational and capital expenditures in a separate stormwater fund. These costs are funded by a user fee set by Town Council and reviewed on an annual basis. In fiscal year 2024, the Town collected \$1,261,369 in user fee revenue with total funding from all sources being \$1,662,819. Total expenditures for the same time period were \$1,247,337. Reserves for this fund at yearend were \$3,099,070.

The Town is working on a sustainability project whereby stormwater needs are addressed in both the short and long terms. This includes a 10-year capital improvement plan.

4.3 Shared Responsibility

The Town of Knightdale will share the responsibility of implementing the following minimum control measures, which are at least as stringent as the corresponding NPDES MS4 Permit requirement. The Town of Knightdale remains responsible for compliance if the other entity fails to fulfil the permit obligation, and may be subject to enforcement action if neither the Town of Knightdale nor the other entity fully performs the permit obligation. Table 9 below summarizes who will be implementing the component, what the component program is called, the specific SWMP BMP or permit requirement that is being met by the shared responsibility, and whether or not a legal agreement to share responsibility is in place.

Table 9: Shared Responsibilities

| SWMP BMP or Permit Requirement | Implementing Entity & Program Name | Legal Agreement (Y/N) |
|-----------------------------------|--|-----------------------------|
| BMP No. 3 | Clean Water Education Partnership (CWEP) | Y |

4.4 Co-Permittees

The are no other entities applying for co-permittee status under the NPDES MS4 permit number NCS000460 for the Town of Knightdale. Table 10 summarizes contact information for each co-permittee.

Table 10: Co-Permittee Contact Information

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

4.5 Measurable Goals for Program Administration

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

| Permit Ref. | 2.1.2 Program Implementation Measures to evaluate the performance and effectiveness of the SWMP program components at least annuall Results shall be used by the permittee to modify the program components as necessary to accomplish the in of the Stormwater Program. | | | | | |
|----------------|---|--|--------------------------------|-------------------------|--|--|
| BMP | A | В | C | D | | |
| No. | Description of BMP | Measurable Goal(s) | Schedule for Implementation | Annual Reporting Metric | | |
| #. 1 | Annual Self-Assessment | | | | | |
| | Evaluate the performance and effectiveness of the program components at least annually. Results shall be used to modify the program components as necessary to accomplish the intent of the Stormwater Program. | 1. Prepare, conduct and document an annual evaluation of the program components. | 1. Annually Permit Year 1 – 5 | 1. Yes/No | | |

| #. 2 | Shared Responsibility (Permit Ref. 1 | .4) | | |
|------|--|---|------------------|------------------------|
| | Agreements with the Clean Water Partnership operating on behalf of the Town of Knightdale will be reviewed to confirm that the entity has agreed to implement part of the program on the municipalities behalf and that all required documentation will be submitted to the municipality for documentation and reporting purposes. | 1. Review all agreements and confirm that they meet all requirements outlined in 1.4 of the MS4 permit. | 1. Permit Year 1 | 1. Yes/No |
| #. 3 | Minimum Control Measures (Permi | t Ref. 2.2.2) | | |
| | Written programs will be updated and maintained to assure compliance with part 2.2.2 of the MS4 Permit. Written programs shall be reviewed on an annual basis and modified if needed to best outline the program and needs of the municipality. | 1. Review written programs and modify/update. | 1. Annually | 1. Yes/No |
| #. 4 | Funding and Staffing (Permit Ref. 2.1.1) | | | |
| | The funding and staffing status of the program will be evaluated by appropriate Town staff to confirm that the program is meeting permit requirements. | 1. Review and analyze the current funding and staffing of the program. | 1. Annually | 1. Adequate/inadequate |
| #. 5 | Web Site (Permit Ref 2.1.7, 3.2.3 | and 3.6.5(c)) | | |

| | The web page will provide | 1. Maintain the webpage | 1. Annually, once | 1. Yes/No |
|----------------|---|---|--------------------------------------|---|
| | information on the Town's stormwater program, including the permit, SWMP, applicable ordinances, administrative manual, and annual reports. The web page will also include a mechanism for reporting stormwater related issues, educational materials developed by the Town, and links to additional stormwater educational resources including CWEP. The web page will also serve to advertise the | - update any broken links, upload new education material, upload any updates made to the SWMP | updates to the web page are complete | 1. Yes/No |
| #. 6 | Stormwater Hotline. Stormwater Hotline (Permit Ref 3.2) | 5 3 4 6 and 3 5 6) | | |
| п. ∪ | · · | | | |
| | The current hotline will be maintained for citizens to ask stormwater related questions and report incidents for the purposes of IDDE, Public Education, and all | 1. Maintain current hotline phone number and train responsible staff to answer stormwater questions and concerns | 1. Permit Year 1-5 | 1. Yes/no/status |
| | associated programs. | 2. Publicize hotline in education materials developed for the stormwater program and advertise on the Town's stormwater web page. | 2. Permit Year 1 | 2. Yes/no/status |
| | | 3. Establish a tracking mechanism to document the number and type of calls received | 3. Permit Year 1 | 3. Report the number and type of calls received |
| Permit Ref. | 1.6: Permit Renewal Application Measures to submit a permit renew NPDES MS4 permit. | | 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 |
| #. 7 | Permit Renewal Application | | implementation | IVICUIL |
| | Submit a permit renewal application and Draft SWMP no later than 180 prior to permit expiration. | 1. Draft SWMP applicable to the proceeding 5 years following permit reissuance. | 1. Permit Year 5 | 1. Yes/No |

| Table 11: Program Administration BMPs | | | | | |
|---------------------------------------|--|------------------|---|--|--|
| | 2. Certify the stormwater permit renewal application (Permit renewal application form and Draft SWMP for the next 5-year permit cycle) and submit to NCDEQ at least 180 days prior to permit expiration. | 2. Permit Year 5 | 2. Date of permit renewal application submittal | | |

PART 5: PUBLIC EDUCATION AND OUTREACH PROGRAM

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

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

Table 12: Summary of Target Pollutants & Audiences

| Target Pollutants/Sources | Target Audience(s) | |
|------------------------------------|---|--|
| Litter | General Public | |
| Yard Waste | Residential, Commercial, Municipal Employees | |
| Sediment | Construction | |
| Nutrients | Residential, Commercial, Schools | |
| Fecal Coliform | Residential, Commercial, Schools | |
| Mercury/statewide TMDL | Residential, Commercial | |
| General non-point source pollution | Residential, Commercial, Schools, Municipal Employees | |

The Town of Knightdale 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 i table 12 above, and shall document the extent of exposure of each media, event or activity, including those elements implemented locally or through a cooperative agreement. | | | | |
|----------------|--|--|--|----------------------|--|
| | | | | vity, merading those | |
| RMP | | | | D D | |
| BMP No. | elements implemented locally or | | | | |

| | The Town will continue engagement | Maintain partnership | 1. Permit Year 1 | 1. Yes/No | | |
|------|---|--|------------------------|--|--|--|
| | with the Clean Water Education | and update legal | | | | |
| | partnership (CWEP) to assist with the | agreement with the Clean | | | | |
| | development of Education and | Water Education | | | | |
| | Outreach initiatives that will be administered by CWEP. Initiatives | Partnership | | | | |
| | will focus on residential, commercial, | | | | | |
| | and school audiences within the MS4 service area. | | | | | |
| 9 | Town Sponsored Event or Festival | | | | | |
| | The Town will continue to distribute | 1. Develop or identify | 1. Permit year 1 | 1. Yes/no/status | | |
| | education materials regarding | additional informational | | | | |
| | stormwater during at least two (2) | handouts for distribution at the event that covers | | | | |
| | Town sponsored events or festivals a year such as the Christmas Tree | litter, nutrients, and non- | | | | |
| | Lighting Ceremony, 4th of July | point source pollution | | | | |
| | Celebration, K-Fest Arts & Education | (including car washing) | | | | |
| | Festival, and Easter Festivities. | 2. Train municipal staff | 2. Permit year 1 | 2. Report the number o | | |
| | | to man a stormwater | | staff members trained | | |
| | | booth during the event | | | | |
| | | and distribute the flyers as well as additional | | | | |
| | | educational materials | | | | |
| | | related to stormwater and | | | | |
| | | pollution prevention | | | | |
| | | practices | | | | |
| | | 3. Provide Stormwater | 3. Annually, beginning | 3. Report the number o | | |
| | | Education Booth at (2) | Permit Year 1 | events attended, and number of handouts | | |
| | | two Town sponsored events and document the | | distributed | | |
| | | number of handouts | | distributed | | |
| | | distributed | | | | |
| . 10 | Social Media Campaign | | | | | |
| | The Town's existing social media | 1. The Town will create | 1. Annually, beginning | 1. Report the number o | | |
| | page(s) will be used to reach the | two social media outreach post per year | Permit Year 1 | social media post | | |
| | residential target audience and share information related to stormwater | regarding one of the | | | | |
| | issues, with a minimum of (2) post | identified target | | | | |
| | per year. | pollutants. | | | | |
| . 11 | CWEP Regional Creek Week | | | | | |
| | The Town will continue to participate | 1. Continue to participate | 1. Annually | 1. Yes/no/status | | |
| | in CWEPs Regional Creek Week and | in the annual Creek | | | | |
| | host at least (1) local event such as a | Week Planning | | | | |
| | Litter Sweep or Story Walk. | Meetings. | | | | |

| Table 13: Public Education and Outreach BMPs | | |
|--|--|---------------------------|
| 2. Host at least (1) Creek | | 2. Number of events, |
| Week Event in Town and | | number of participants |
| track all interactions and | | and materials distributed |
| impressions. | | |

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 Land Use Review Board will continue to function as the Town's stormwater advisory board with the additional advisory of the stormwater administrator to highlight stormwater issues. A stormwater hotline and a stormwater issue reporting mechanism on the webpage will be used to collect public input. The Town of Knightdale will continue to coordinate with other departments to promote and plan town-wide litter cleanup events that provide volunteer opportunities and prevent floatable materials from entering the MS4. The Town of Knightdale will continue to manage, implement, and report the following public involvement and participation BMP's.

| Permit Ref. | | | | | | |
|----------------|---|--|--|---|--|--|
| ВМР | A | В | C | D | | |
| No. | Description of BMP | Measurable Goal(s) | Schedule for Implementation | Annual Reporting Metric | | |
| #. 12 | Land Use Review Board (LURB) | | 1 | | | |
| | Town staff will bring stormwater issues before the Land Use Review Board to receive citizen input and factor stormwater into development decisions. | 1. Include a bi-annual agenda item for Town staff to report on stormwater concerns and receive input from the commission | Bi-annually, beginning Permit Year 1 | 1. Report the date of meetings and the stormwater topics discussed | | |
| Permit Ref. | 3.3.2: Volunteer Opportunities Measures to provide volunteer opp | 3.3.2: Volunteer Opportunities Measures to provide volunteer opportunities designed to promote ongoing citizen participation. | | | | |
| ma en | | | | | | |
| BMP | A | В | C | D | | |
| No. | A Description of BMP | B Measurable Goal(s) | C Schedule for Implementation | D Annual Reporting Metric | | |
| | | | Schedule for | Annual Reporting | | |

| Partnership with CWEP | | | |
|---|---|---|----------------------------|
| The Town will engage with CWEP to develop volunteer opportunities that will be administered by the Town. Opportunities will focus on residential, commercial, and school audiences within the MS4 area. This may include school presentations, direct education activities at town events, and local litter sweeps. | 1. Coordinate with CWEP to develop and implement these opportunities | 1. Annually, beginning Permit Year 2 | 1. Number of events hosted |

PART 7: ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM

The Town of Knightdale 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 | В | C | D | | |
| No. | Description of BMP | Measurable Goal(s) | Schedule for Implementation | Annual Reporting Metric | | |
| 4. 15 | Continual Updates to MS4 Map | | | 19 | | |
| | The MS4 map will be continuously updated for completeness. | When new conveyances and outfalls are located or constructed add them to map | 1. Continuously | 1. Yes/no | | |
| | | | | | | |
| | 3.4.2: Regulatory Mechanism Measures to provide an IDDE ordi prohibit, detect, and eliminate illic including enforcement procedures | it connections and discharg | | | | |
| Ref. | Measures to provide an IDDE ordi prohibit, detect, and eliminate illic | it connections and discharg | | | | |
| Ref. BMP | Measures to provide an IDDE ordi prohibit, detect, and eliminate illic- including enforcement procedures | t connections and dischargand actions. | ges, illegal dumping and | spills into the MS4, | | |
| Permit Ref. BMP No. | Measures to provide an IDDE ordi prohibit, detect, and eliminate illicincluding enforcement procedures A | t connections and discharg and actions. | ges, illegal dumping and C Schedule for | spills into the MS4, D Annual Reporting | | |

| Permit | 3.4.3: IDDE Plan | | | 94707007 (44) | | |
|--------|--|--|---|---|--|--|
| Ref. | Measures to maintain and implement a written IDDE Plan to detect and address illicit discharges, illegal dumping and any non-stormwater discharges identified as significant contributors of pollutants to the MS4. The plan shall provide standard procedures and documentation to: | | | | | |
| | a) Locate priority areas likely to have illicit discharges,b) Conduct routine dry weather outfall inspections, | | | | | |
| | | | | | | |
| | c) Identify illicit | discharges and trace sourc | es, | | | |
| | d) Eliminate the s | source(s) of an illicit disch | arge, and | | | |
| | e) Evaluate and a | ssess the IDDE Program. | | | | |
| ВМР | A | В | C | D | | |
| No. | Description of BMP | Measurable Goal(s) | Schedule for Implementation | Annual Reporting Metric | | |
| #. 17 | Outfall Inspections | | | | | |
| | Perform regular dry weather (no rain in the previous 72 hours) outfall inspections to proactively identify illicit discharges and illicit connections. | Inspect all major outfalls annually in dry weather conditions and document any potential violations | 1. Annually, beginning Permit Year 1 | Number of outfalls inspected, and number of potential illicit discharges identified | | |
| | | 2. Inspect at least 50 non-major outfalls annually in dry weather conditions and document any potential violations | 2. Annually, beginning Permit Year 1 | 1 Number of non-major outfalls inspected, and number of potential illicit discharges identified | | |
| #. 18 | Illicit Discharge Identification Proce | dure | | 4 | | |
| | Revise and maintain a standard operating procedure (SOP) for investigating potential illicit discharges, illicit connections, and illegal dumping. | 1. Review current IDDE Investigation SOP and update if revision is required to meet requirements of the new SWMP | 1. Permit year 1 | 1. Completed? — yes/no/status | | |
| | | 2.Maintain a written IDDE Program | 2. Continuously | 2. Yes/no/status | | |

| Permit Ref. | 3.4.4: IDDE Tracking Measures for tracking and document observed, the results of the investig closed, the issuance of enforcement | ation, any follow-up of the | e investigation, the date | the investigation was |
|----------------|---|---|--|---|
| BMP No. | A | В | C | D |
| | Description of BMP | Measurable Goal(s) | Schedule for Implementation | Annual Reporting Metric |
| #. 19 | Database Tracking System | | | |
| | Maintain tracking system for observed IDDE violations and follow-on actions in order to identify "hot-spot" areas, chronic violators, and recurring issues. | 1. Review current "Incident Report Form" and update if revisions are necessary to meet requirements of new SWMP. The "Incident Report Form" Should include illicit discharge indicators, date, location, and contacts made. | 1. Permit Year 1 | 1. Yes/no/status |
| | | 2. Review current tracking spreadsheet to collect data from the "Incident Report Form" as well as the results of the investigation, any follow-up, date of closure, and enforcement taken | 2. Permit Year 1 | 2. Yes/no/status |
| | | 3. Review of IDDE reports and identification of chronic violators, issues, and/or "hot-spot" areas | 3. Annually, in conjunction with the annual assessment | 3. Report the number IDDE reports received, the number of potential illicit discharges found, the number of illicit discharges verified, the number of illicit discharges resolved/removed, and any enforcement actions taken |
| Permit Ref. | 3.4.5: Staff IDDE Training Measures to provide training for my responsibilities, may observe an illi include how to identify and report i training event shall be documented. | icit discharge, illicit conne Ilicit discharges, illicit con | ction, illegal dumping on nections, illegal dumping | r spills. Training shall ng and spills. Each staff |
| ВМР | A | В | C | D |
| No. | Description of BMP | Measurable Goal(s) | Schedule for Implementation | Annual Reporting Metric |

| #. 20 | Staff Training | | | | |
|-------|--|---|---|-------------------------------|--|
| | 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 discharges. (See BMP No. 18 for SOPs by which to train staff). | Train all staff with Illicit Discharge & Detection responsibilities | 1. Annually, beginning Permit Year 1 | 1. Report number of attendees | |
| #. 21 | Fact Sheet | | | | |
| | Hang fact sheet posters in employee common areas to serve as a reminder of the basics on identifying and | Identify or develop illicit discharge fact sheet posters to display | 1. Permit Year 2 | 1. Yes/no/status | |
| | reporting illicit discharges, connections, and dumping. | 2. Display posters in employee common areas | 2. Annually, beginning in Permit Year 2 | 2. Yes/no | |

PART 8: CONSTRUCTION SITE RUNOFF CONTROL PROGRAM

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

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

| Permit Reference | State or Local Program Name | Legal Authority | Implementing Entity |
|---------------------|---|---|------------------------|
| 3.5.1 - 3.5.4 | Town of Knightdale Delegated SPCA Program* | 15A NCAC Chapter 04, NCDEQ Approved Delegation, Local Ordinance | Town of Knightdale |

^{*} The local delegated SPCA Program ordinance(s)/regulatory mechanism(s) can be found at: https://codelibrary.amlegal.com/codes/knightdale/latest/knightdale_nc/0-0-0-6892

The Town of Knightdale 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. | | | | |
|----------------|--|---|--------------------------------|----------------------------|--|
| BMP | A | В | C | D | |
| No. | Description of BMP | Measurable Goal(s) | Schedule for Implementation | Annual Reporting Metric | |
| #. 22 | Municipal Staff Training | | | | |
| | Train municipal staff who receive calls from the public on the protocols for referral and tracking of construction site runoff control complaints. | Train municipal staff on proper handling of construction site runoff control complaints. | 1. Annually Permit Year 1-5 | 1. Number of staff trained | |

| Permit Ref. | Measures to require construction site operators to control waste such as discarded building materials, concretruck washout, chemicals, litter, and sanitary waste at the construction site that may cause adverse impact to water quality. | | | | | |
|----------------|--|---|--|--------------------------------------|--|--|
| BMP | A | В | C | D | | |
| No. | Description of BMP | Measurable Goal(s) | Schedule for Implementation | Annual Reporting Metric | | |
| #. 23 | Establish and Maintain Legal Authority | | | | | |
| | Develop and implement an ordinance to require construction site operators | 1. Pass Ordinance | 1. Permit Year 2 | 1. Yes/no/status | | |
| | to control waste. | 2. Maintain legal authority | 2. Continuously, after ordinance is adopted | 2. Yes/no/status | | |
| #. 24 | Contractor Education | | | | | |
| | Communicate new waste management requirements to construction site operators. | 1. Identify/develop fact sheet to be included in approved CD submittals | Permit Year 1, after ordinance is adopted | 1. Yes/no/status | | |
| | | 2. Distribute fact sheet at pre-construction meetings | 2.Permit Year 1, after ordinance is adopted | 2. Yes/no/status | | |
| | | 3. Add fact sheet to website | 3. Permit Year 1, after ordinance is adopted | 3. Number of fact 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 Knightdale 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 Knightdale 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 |
|--|--------------------|--|
| Neuse River Basin Nutrient Sensitive (NSW) Management Strategy | 15A NCAC 2B .0235 | UDO Chapter 9.4 |

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

Table 19: Summary of Existing Post-Construction Program Elements

| Permit Requirements for | Municipal Ordinance/Code Reference(s) | Date Adopted |
|----------------------------------|---|--------------|
| Plan Review and Approval | and/or Document Title(s) | |
| 3.6.2(a) Authority | Town of Knightdale UDO Chapter 9.4.a | July 21,2021 |
| 3.6.3(a) & 15A NCAC 02H.0153(c) | Town of Knightdale UDO Chapter 9.4 | July 21,2021 |
| Federal, State & Local Projects | | |
| 3.6.3(b) Plan Review | Town of Knightdale UDO Chapter 9.4.b | July 21,2021 |
| 3.6.3(c) NMS Review | Town of Knightdale UDO Chapter 9.4.g | July 21,2021 |
| 3.6.3(c) O&M Agreement | Town of Knightdale UDO Chapter 9.4.h | July 21,2021 |
| 3.6.3(d) O&M Plan | Town of Knightdale UDO Chapter 9.4.h | July 21,2021 |
| 3.6.3(e) Deed | Town of Knightdale UDO Chapter 9.4.h | July 21,2021 |
| Restrictions/Covenants | | |
| 3.6.3(f) Access Easements | Town of Knightdale UDO Chapter 9.4.h | July 21,2021 |
| Permit Requirements for | Municipal Ordinance/Code Reference(s) | Date Adopted |
| Inspections and Enforcement | and/or Document Title(s) | |
| 3.6.2(b) Documentation | Town of Knightdale UDO Chapter 9.4.h | July 21,2021 |
| 3.6.2(c) Right of Entry | Town of Knightdale UDO Chapter 9.4.i | July 21,2021 |
| 3.6.4(a) Pre-CO Inspections | Town of Knightdale UDO Chapter 9.4.c | July 21,2021 |
| 3.6.4(b) Compliance with Plans | Town of Knightdale UDO Chapter 9.4 | July 21,2021 |
| 3.6.4(c) Annual SCM Inspections | Town of Knightdale UDO Chapter 9.4.h | July 21,2021 |
| 3.6.4(d) Low Density Inspections | BMP 32 | TBD |
| 3.6.4(e) Qualified Professional | Town of Knightdale UDO Chapter 9.4.h | July 21,2021 |
| Permit Requirements for | Municipal Ordinance/Code Reference(s) | Date Adopted |
| Fecal Coliform Reduction | and/or Document Title(s) | |
| 3.6.6(a) Pet Waste | BMP 33 | TBD |
| 3.6.6(b) On-Site Domestic | Wake County Environmental Services | June 5, 2020 |
| Wastewater Treatment | Application, Evaluation, and Permitting | |
| | Procedures for Septic Systems and Well Construction | |

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

| Table 20 | Table 20: Post Construction Site Runoff Control BMPs | | |
|----------------|--|--|--|
| Permit Ref. | 3.6.5(a), 3.6.5(b), and 4.1.3: Minimum Post-Construction Reporting Requirements Measures to document activities over the course of the fiscal year (July 1 – June 30) including appropriate information to accurately describe progress, status, and results. | | |

| DAAD | A | В | C | D |
|----------------|---|--|------------------------------------|--|
| BMP No. | Description of BMP | Measurable Goal(s) | Schedule for Implementation | Annual Reporting Metric |
| 4. 25 | 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 Year 1-5 | Number of plan reviews performed for low density and high density |
| | assessment process. Data shall be provided for each Post-Construction/ Qualifying Alternative Program being | 2. Track number of low density and high-density plans approved. | 2. Continuously Permit Year 1-5 | 2. Number of plan approvals issued for low density and high density |
| | implemented as listed in Tables 18 and 19. | 3. Maintain a current inventory of low density projects and constructed SCMs including SCM type or low density acreage, location and last inspection date. | 3. Continuously Permit Year 1-5 | 3. Summary of number and type of SCMs added to the inventory; and number and acreage of low-density projects constructed |
| | | 4. Track number of SCM | 4. Continuously | 4. Number of SCM |
| | | inspections performed. | Permit Year 1-5 | inspections |
| | | 5. Track number of low- density inspections performed. | 5. Continuously Permit Year 1-5 | 5. Number of low- density projects inspected |
| | | 6. Track number and type of enforcement actions taken. | 6. Continuously Permit Year 1-5 | 6. Number of enforcement actions issued |
| Permit Ref. | 2.3 and 3.6: Qualifying Alternative Measures to develop, implement and requirements. | e Program(s) d enforce additional BMPs | s in order to comply with | h the QAP state program |
| ВМР | A | В | C | D |
| No. | Description of BMP | Measurable Goal(s) | Schedule for Implementation | Annual Reporting Metric |
| #. 26 | Review Plans for Compliance with N | utrient Management Strate | egy | |
| | Conduct site plan reviews of all new development and development expansions for compliance with the | Establish application intake and review procedures | 1. Continuously | 1. Yes/no/status |
| | stormwater treatment and nutrient | 2. Conduct site plan reviews | 2. Continuously | 2. Number of plans approved annually |

| #. 2 7 | Require Recordation of BUA Limits | on Deeds or Plats | | |
|---------------|--|---|------------------------------------|---|
| | Ensure that for lots in developments with a common plan of development that a BUA limit, based on the | Establish legal authority through code revision | 1. Permit Year 1 | Report code reference and date adopted |
| | approved Stormwater Plan, is recorded with either the deed or plat | 2. Include BUA review in plan review procedures | 2. Permit Year 1 | 2. Yes/no/status |
| | | 3. Conduct site plan reviews | 3. Continuously | 3. Number of plans reviewed annually |
| ‡. 28 | Plan Review Staff Training on Nutrie | ent Calculator Tool | | |
| | Ensure all plan review staff have gone through DWR-provided plan reviewer training for the approved nutrient calculator | All current plan review staff participate in live online training for SNAP calculator tool | 1. Permit Year 1 | 1. Percent of review staf that have attended live online training |
| | | 2. Plan review staff who were unable to attend live online workshop view recording of training | 2. Annually | 2. Percent of review staf that have viewed recording of training |
| #. 29 | Standard Nutrient Management Stra | tegy Reporting | | |
| | Implement standardized tracking, documentation, inspections, and reporting mechanisms to compile | Track number of NMS-subject plan reviews approved | 1. Continuously Permit Year 1-5 | Number of plan reviews performed for NMS-subject plans |
| | appropriate data for the annual self-assessment process. Data shall be provided for each Post-Construction/Qualifying Alternative Program being implemented as listed in Tables 18 and 19. | 2. Maintain a current inventory of developments and lots with BUA limits (BMP 29.3) and constructed SCMs including SCM type or location, and last inspection date (BMP 29.3). | 2. Continuously Permit Year 1-5 | 2. Summary of number and type of SCMs adde to the inventory; and number and acreage of low-density projects constructed |
| | | 3. Track number of post construction SCM inspections performed by staff in the past year | 3. Continuously Permit Year 1-5 | 3. Number of SCM inspections |

| #. 30 | Data Used in Nutrient Calculations | | | |
|----------------|--|---|---|--|
| | Input data used for the calculation of nutrient export and reduction by SCMs for all development sites subject to <.0711 or .0731> will be collected for the year and submitted as | 1. Export SNAP input data from each development upon approval. | 1. Continuously Permit Year 1-5 | Nutrient calculation input data for all developments and expansions subject to the Neuse Stormwater Rule |
| | an appendix for the Local Program's Annual Report. | 2. Provide adjusted SNAP input data from each development where completed landcovers are different from what was permitted. | 2. Annually | 2. Nutrient calculation data for these developments and a notice for which previously submitted data are to be replaced |
| 4. 31 | Inventory of Developments and Lots | with BUA Limits | | |
| | Develop and maintain a comprehensive inventory of projects that have BUA limits tied to their | Establish a list of developments with BUA limits | 1. Permit Year 1 | 1. Number of developments |
| | stormwater management or nutrient loading requirements to be used when reviewing new development plans. | 2. Establish a list of parcels or lots with BUA limits | 2. Permit Year 1 | 2. Number of parcels |
| | Develop and maintain a database BUA limits on development and individual lots within, with BUA limits based on their approved stormwater plans. Actual BUA amounts are updated as new development is approved for and occurs on individual lots. | 3. Add developments and lots within to the list when project as-builts are approved | 3. Continuously | 3. Total numbers of developments and lots |
| Permit Ref. | 3.6.2: Legal Authority Measures to maintain adequate legal designs and proposals for new devel control measures will be installed, in plans, inspection reports, monitoring with the Post-Construction Stormwa inspecting at reasonable times any fadischarges to determine whether the Program. | opment and redevelopment inplemented, and maintain gresults, and other informater Management Program acilities, equipment, pract | nt to determine whether ned, (b) request informat ation deemed necessary a, and (c) enter private prices, or operations relate | adequate stormwater ion such as stormwater to evaluate compliance coperty for the purpose of d to stormwater |
| ВМР | A | В | C | D |
| No. | Description of BMP | Measurable Goal(s) | Schedule for Implementation | Annual Reporting |

| Permit | 3.6.3: Plan Review and Approval | | | | |
|------------------------------|--|--|--|--|--|
| Ref. | Measures to maintain plan review and State, and local government projects entire MS4 permitted area, unless the program, (b) Conduct site plan review or equal to one acre, and sites that did development or sale for compliance apply within your jurisdiction, (c) E complies with 15A NCAC 02H .105 that complies with 15A NCAC 02H protective covenants, that require the that each SCM and associated maint NCAC 02H 1050 (9) and (10). | s to comply with Post-Conne entity is subject to its or ews of all new developments turb less than one acre of with 15A NCAC 02H .10 consure that each project hat 50(12), (d) Ensure that each .1050(13), (e) Ensure that e project to be maintained | nstruction Program requiven NPDES MS4 permit nt and redeveloped sites that are part of a larger could be a larger of a larger of a larger of and the qualifying also an Operation and Main the project has an Operation teach project has record a consistent with approve | rements throughout the or a qualifying alternative that disturb greater than ommon plan of ternative programs that atenance Agreement that on and Maintenance Plan led deed restrictions and led plans, and (f) Ensure | |
| RMD | A | В | C | D | |
| BMP No. | | Measurable Goal(s) | Schedule for | Annual Reporting | |
| No. | Description of BMP | Weasurable Goal(s) | Implementation | Metric | |
| No. Permit Ref. | This permit requirement is fully met by 3.6.4: Inspections and Enforcement Measures to maintain inspection and | the existing post-construct out denforcement authority, s | standards and procedures | to: (a) Conduct post- | |
| Permit | This permit requirement is fully met by 3.6.4: Inspections and Enforcement | the existing post-constructed and enforcement authority, so using a Certificate of Occur y provide a surety bond to constructed in accordance to ensure compliance with flow density projects at least the existing post-constructed in accordance to ensure compliance with | standards and procedures pancy or a Temporary C guarantee compliance ve with the approved plant the approved Operation | to: (a) Conduct post- ertificate of Occupancy. vith the approved plan(s), (s), (c) Ensure annual and Maintenance | |
| Permit Ref. | This permit requirement is fully met by 3.6.4: Inspections and Enforcement Measures to maintain inspection and construction inspections prior to issue Alternatively, the project owner may (b) Ensure that the project has been inspection of each permitted SCM to Agreement, (d) Ensure inspection of | the existing post-constructed and enforcement authority, so using a Certificate of Occur y provide a surety bond to constructed in accordance to ensure compliance with flow density projects at least the existing post-constructed in accordance to ensure compliance with | standards and procedures pancy or a Temporary C guarantee compliance ve with the approved plant the approved Operation | to: (a) Conduct post- ertificate of Occupancy. vith the approved plan(s), (s), (c) Ensure annual and Maintenance | |
| Permit Ref. BMP No. | 3.6.4: Inspections and Enforcement Measures to maintain inspection and construction inspections prior to issure 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 quantum A Description of BMP | the existing post-constructed of enforcement authority, so using a Certificate of Occuly provide a surety bond to constructed in accordance of ensure compliance with flow density projects at legualified professional. | standards and procedures pancy or a Temporary C guarantee compliance ve with the approved plane the approved Operation east once during the pern | to: (a) Conduct post- ertificate of Occupancy. vith the approved plan(s), (s), (c) Ensure annual and Maintenance nit term, and (e) Require | |
| Permit Ref. | This permit requirement is fully met by 3.6.4: Inspections and Enforcement Measures to maintain inspection and construction inspections prior to issee the 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 quantum of the Agreement o | the existing post-constructed on the denforcement authority, so using a Certificate of Occur y provide a surety bond to constructed in accordance of ensure compliance with flow density projects at legualified professional. | standards and procedures pancy or a Temporary C guarantee compliance ve with the approved plane the approved Operation east once during the pern | to: (a) Conduct post- ertificate of Occupancy. vith the approved plan(s), (s), (c) Ensure annual and Maintenance nit term, and (e) Require D Annual Reporting | |
| Permit Ref. BMP No. | 3.6.4: Inspections and Enforcement Measures to maintain inspection and construction inspections prior to issure 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 quantum A Description of BMP | the existing post-constructed on the denforcement authority, so using a Certificate of Occur y provide a surety bond to constructed in accordance of ensure compliance with flow density projects at legualified professional. | standards and procedures pancy or a Temporary C guarantee compliance ve with the approved plane the approved Operation east once during the pern | to: (a) Conduct post- ertificate of Occupancy. vith the approved plan(s), (s), (c) Ensure annual and Maintenance nit term, and (e) Require | |

| Permit Ref. | 3.6.6: Fecal Coliform Reduction Measures to control, to the maxim .1017(7). At a minimum, the prog achieved by revising an existing li component, if applicable, which n operation and maintenance of suc | num extent practicable, sound gram shall include: (a) A per itter ordinance, and (b) An may be coordinated with loc | et waste management con on-site domestic wastewa | aponent, which may be after treatment system |
|----------------|--|--|---|--|
| DMD | A | В | C | D |
| BMP No. | Description of BMP | Measurable Goal(s) | Schedule for Implementation | Annual Reporting Metric |
| #. 33 | Pet Waste Ordinance | | | • |
| | Revise current litter ordinance to include the addition of pet waste | 1. Pass ordinance revision | 1. Permit year 2 | 1. Yes/no/status |
| | and the state of t | 2. Maintain legal authority | 2. Continuously, after ordinance is adopted | 2. Yes/no/status |

PART 10: POLLUTION PREVENTION AND GOOD HOUSEKEEPING PROGRAMS

This SWMP provides a comprehensive pollution prevention and good housekeeping strategy for the Town of Knightdale 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

Currently, large scale spill response procedures are handled by the Knightdale Fire Department while all other components of the pollution prevention and good housekeeping measures are implemented by the Public Works Department. The Town already provides street sweeping and yard waste collection services to residents but will begin to quantify and monitor for assessment. A facility inventory was completed in 2019 and will serve as the basis for developing the program and creating documentation for inspection requirements. The Town of Knightdale 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 Measures to manage facilities that are stormwater runoff. The permittee shall and routine maintenance; establish spengeneral stormwater awareness and improve the stormwater awareness and improve the stormwater awareness and improve the stormwater awareness. | owned and operated by the partial maintain a current invento ecific frequencies, schedules. | permittee and have the pote ry of municipal facilities; po , and standard documentation | erform facility inspections on; provide staff training on |
| ВМР | A | В | C | D |
| No. | Description of BMP | Measurable Goal(s) | Schedule for Implementation | Annual Reporting Metric |
| #. 34 | Inventory of Municipal Facilities | | · | |
| | Maintain an up-to-date inventory of municipal facilities with potential to generate polluted runoff. | Maintain list of existing Town-owned facilities | 1. Permit Year 1 | Number of facilities inventoried; date list is complete |

| | | 2. Perform initial | 2. Permit year 1 | 2. Number of facilities |
|--------------|---|--|---------------------------------|----------------------------|
| | | inspection of facilities to | , | determined to require a |
| | | determine which | | NPDES Industrial Perm |
| | | facilities may require an | | |
| | | individual NPDES | | |
| | | Industrial permit | | |
| | | 3. Update inventory as | 3. As required | 3. Number of facilities |
| | | necessary when facilities are added or closed. | | added/revisions made |
| #. 35 | Facility Inspections | | | |
| | Inspection of Town facilities to | 1. Establish a SOP for | 1. Permit year 2 | 1. Yes/no/status |
| | confirm good housekeeping practices | town facility inspections, | | |
| | are being followed, including vehicle | including an inspection | | |
| | and equipment cleaning (See BMP | schedule, inspection | | |
| | No. 44). | reporting documentation, and tracking system | | |
| | | 2. Implement annual | 2. Annually, beginning in | 2. Number of municipal |
| | | inspections at all Town- | Permit Year 2 | facilities inspected |
| | | owned facilities | | |
| 4. 36 | Staff Training | | 11 | |
| | Continue staff training program for | 1. Provide initial training | 1. Annually, as | 1. Number of staff |
| | general stormwater pollution | for all new Town | necessitated by staffing | members trained |
| | prevention | employees | changes | |
| | | 2. Provide bi-annual | 2. Bi-annually, beginning | 2. Number of staff |
| | | refresher training to all | Permit Year 1 | members trained |
| | | Town employees | | A NY 1 C + CC |
| | | 3. Provide annual in- | 3. Annually, beginning in | 3. Number of staff |
| | | person training for all | Permit Year 2 | members trained |
| Permit | 3.7.2: Spill Response Program | Public Works staff | | Desire Bridge State |
| Ref. | Measures for facilities and operations t | hat store and/or use material | s that have the potential to co | ontaminate stormwater |
| | runoff if spilled. The permittee shall m | naintain written spill respons | e procedures and train staff of | on spill response |
| ВМР | A | В | C | D |
| No. | Description of BMP | Measurable Goal(s) | Schedule for Implementation | Annual Reporting Metric |
| #. 37 | Inventory of Facilities with Spill Pote | ential | | |
| | Develop a list of town facilities and | 1. Update list of town | 1. When necessitated by | 2. Yes/no |
| | operations storing materials that | facilities and operations | changes in facilities or | |
| | would be a pollutant if spilled and | with spill potential when | operations | |
| | introduced into the stormwater | facilities or operations | | |
| | conveyance system and classify each | are changed | | |
| | 1. 1 | | | |
| | by hazard type and quantity (See BMP No. 34.2). | | | |

| #. 38 | Spill Response Procedures | | | |
|----------------|---|--|---|--|
| | Maintain spill response procedures and continue training of appropriate staff. | 1. Review spill response procedures for Town facilities and operations with potential to produce high hazard spills | 1. Permit Year 1 | Are procedures adequate? – Yes/no/status |
| | | 2. Update procedures as facilities and operations are revised | 2. As required | 2. Yes/no |
| | | 3. Train new Fire Department staff on spill response procedures | 3. As required | 3. Number of staff trained |
| | | 4. Train Public Works staff that handle or store materials that have the potential to contaminate stormwater runoff if spilled. | 4. Annually | 4. Number of staff trained |
| E> 4. | | | | |
| Permit Ref. | 3.7.3: MS4 Operation and Maintena Measures to minimize pollutants in the maintenance staff training on stormwark collection system including catch basin documentation. | stormwater collection systemer awareness and pollution p | prevention, perform MS4 ins | pections, maintain the |
| Ref. | Measures to minimize pollutants in the maintenance staff training on stormwark collection system including catch basin | stormwater collection systemer awareness and pollution p | prevention, perform MS4 ins | pections, maintain the |
| Ref. BMP | Measures to minimize pollutants in the maintenance staff training on stormwark collection system including catch basin documentation. | stormwater collection systemer awareness and pollution pass and conveyances; and esta | prevention, perform MS4 ins blish specific frequencies, so | pections, maintain the chedules, and standard |
| BMP | Measures to minimize pollutants in the maintenance staff training on stormwark collection system including catch basin documentation. | stormwater collection systemer awareness and pollution pass and conveyances; and esta | orevention, perform MS4 instablish specific frequencies, so C Schedule for | pections, maintain the chedules, and standard D Annual Reporting |
| | Measures to minimize pollutants in the maintenance staff training on stormwark 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 | stormwater collection systemer awareness and pollution pass and conveyances; and esta | orevention, perform MS4 instablish specific frequencies, so C Schedule for | pections, maintain the chedules, and standard D Annual Reporting |
| BMP No. | Measures to minimize pollutants in the maintenance staff training on stormwark collection system including catch basin documentation. A Description of BMP Staff Training Develop or identify a staff training program for general stormwater | stormwater collection systemer awareness and pollution pass and conveyances; and esta B Measurable Goal(s) 1. Develop or identify appropriate training | orevention, perform MS4 instablish specific frequencies, so C Schedule for Implementation | pections, maintain the chedules, and standard D Annual Reporting Metric |
| BMP | Measures to minimize pollutants in the maintenance staff training on stormwark 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 | stormwater collection systemer awareness and pollution pass and conveyances; and estates and conveyances. 1. Develop or identify appropriate training program 2. Provide initial training | C Schedule for Implementation 1. Permit Year 2 2. Annually, beginning in | D Annual Reporting Metric 1. Yes/no/status 2. Number of staff |
| BMP No. | Measures to minimize pollutants in the maintenance staff training on stormwark 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/status 2. Number of staff members trained 3. Number of new hires |

| Table 2 | 1: Pollution Prevention and Good | Housekeeping Bivirs | | |
|---------------------|---|---|--|--|
| | | 2. Inspect an estimated 10% of all Town-owned stormwater infrastructure annually in accordance with developed SOPs | 2. Annually, following schedule established in SOP, once SOP and tracking system (see BMP No. 40.1 and 40.4) are established | 2. Percentage of infrastructure inspected |
| | | 3. Verify, document, and prioritize maintenance activities identified by inspections or citizen reports | 3.Continuously, beginning in Permit Year 4 | 3. Yes/no |
| | 85 | 4. Develop an inspection and maintenance tracking system to be used in accordance with the SOP and to identify "hot spot" locations for system maintenance | 4. Permit Year 4 | 4. Yes/no/status |
| Permit Ref. | 3.7.4: Municipal SCM Operation an Measures to manage municipally-own | | | |
| | are installed for compliance with the p inventory of SCMs, perform SCM installed documentation. | ermittee's post-construction | program. The permittee shal d shall establish specific free | Il maintain a current quencies, schedules, and |
| BMP | inventory of SCMs, perform SCM insp | ermittee's post-construction | d shall establish specific free | ll maintain a current quencies, schedules, and D |
| | inventory of SCMs, perform SCM inst documentation. | ermittee's post-construction pections and maintenance, an | d shall establish specific free | quencies, schedules, and |
| No. | inventory of SCMs, perform SCM inst documentation. A | ermittee's post-construction pections and maintenance, an B Measurable Goal(s) | d shall establish specific free C Schedule for | D Annual Reporting |
| No. | inventory of SCMs, perform SCM inst documentation. A Description of BMP | ermittee's post-construction pections and maintenance, an B Measurable Goal(s) | d shall establish specific free C Schedule for | D Annual Reporting Metric |
| No. | inventory of SCMs, perform SCM inst documentation. A Description of BMP Inventory of Municipal Structural S Maintain the current inventory of all | B Measurable Goal(s) 1. Maintain inventory and map of existing Town-owned SCMs with information including type, year built, date of last inspection and | d shall establish specific free C Schedule for Implementation | D Annual Reporting Metric 1. Number of municipa |
| No. | inventory of SCMs, perform SCM inst documentation. A Description of BMP Inventory of Municipal Structural S Maintain the current inventory of all | B Measurable Goal(s) CMs 1. Maintain inventory and map of existing Town-owned SCMs with information including type, year built, date of last inspection and maintenance actions 2. Complile, and develop as needed, Operation and Maintenance Plans for all | C Schedule for Implementation 1. Permit year 1 | D Annual Reporting Metric 1. Number of municipa structural SCMs |
| BMP No. #, 41 | inventory of SCMs, perform SCM inst documentation. A Description of BMP Inventory of Municipal Structural S Maintain the current inventory of all | B Measurable Goal(s) CMs 1. Maintain inventory and map of existing Town-owned SCMs with information including type, year built, date of last inspection and maintenance actions 2. Complile, and develop as needed, Operation and Maintenance Plans for all Town-owned SCMs 3. Update as necessitated by new Town | C Schedule for Implementation 1. Permit year 1 2. Permit year 2 | D Annual Reporting Metric 1. Number of municipa structural SCMs 2. Yes/no/status 3. Number of updates t |

| | | 2. Maintain and update current SCM inspection | 2.Continuously, | 2. Number of additions/revisions made |
|----------------|---|---|---|--|
| | | forms to ensure compliance with MS4 permit requirements | beginning in Permit Year 1 | additions/revisions made |
| | | 3. Inspect each device using SCM inspection form | 3. Annually, beginning in Permit Year 1 | 3. Number of SCMs inspected, number of passing inspections, and the number of facilities requiring maintenance |
| Permit Ref. | 3.7.5: Pesticide, Herbicide and Fertil Measures to minimize water quality impollution prevention and chemical use, applicator certifications. | pacts from the use of landsc | ape chemicals. The permitte | |
| ВМР | A | В | C | D |
| No. | Description of BMP | Measurable Goal(s) | Schedule for Implementation | Annual Reporting Metric |
| #. 43 | Pesticide, Herbicide, Fertilizer, Appl | icator 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 Town staff and external contractors as part of all contractual agreements. | 1. Continuous | 1. Yes/no/status |
| | | 2. Develop or identify pollution prevention and chemical use, storage, and handling training program | 2. Permit year 2 | 2. Yes/no/status |
| | | 3. Provide staff training in pollution prevention and chemical use, storage, and handling | 3. Annually, beginning in Permit Year 3 | 3. Number of staff trained, and topics covered |

| Permit Ref. | 3.7.6: Vehicle and Equipment Maintenance Program Measures to prevent and minimize contamination of stormwater runoff from areas used for municipal vehicle and | | | | |
|----------------|---|--|---|---|--|
| Kei. | equipment maintenance and/or cleaning industrial permitting comply with those perform routine inspections, and establ | g. The permittee shall ensure e permit requirements, provide | e that municipal industrial fa de routine pollution prevention | cilities subject to NPDES | |
| ВМР | A | В | C | D | |
| No. | Description of BMP | Measurable Goal(s) | Schedule for Implementation | Annual Reporting Metric | |
| 4. 44 | Vehicle and Equipment Cleaning Are | ea Inspections | | | |
| | As part of routine facility inspections, confirm all municipal equipment and car washing areas are following | Develop site specific inspection checklist for applicable facilities | 1. Permit Year 2 | 1. Yes/no/status | |
| | proper procedures to minimize water quality impacts from vehicle and equipment cleaning and maintenance. | 2.Perform inspections following checklist and notify facility manager of any corrective actions | 2. Quarterly, beginning Permit Year 3 | 2.Number of inspections | |
| #. 45 | Staff Training | - | | | |
| | Provide general stormwater awareness training and pollution prevention training to employees | Develop or identify appropriate training program | 1. Permit year 2 | 1. Yes/no/status | |
| | working in vehicle maintenance and cleaning areas. | 2. Provide initial training for all employees | 2. Annually, beginning in Permit Year 3 | 2. Number of staff members trained topics from training | |
| | | 3. Provide training for new hires | 3. Annually, beginning in Permit Year 3, as necessitated by staffing changes | 3. Number of new hires trained and topics from training | |
| Permit Ref. | 3.7.7: Pavement Management Progra Measures to reduce pollutants in storm permittee's corporate limits. The perm pollutants associated with vehicles, and | water runoff from municipal ittee shall implement measur I establish specific frequenci | res to control litter, leaves, des, schedules, and document | ebris, particulate and fluid ation. | |
| ВМР | A | В | C Schedule for | D Annual Reporting | |
| No. | Description of BMP | Measurable Goal(s) | Implementation | Metric | |

| | Street sweeping following a regular | 1. Maintain/update | 1. Permit year 1 | 1. Yes/no/status |
|-------|--|----------------------------|---------------------------|---------------------------|
| | schedule in order to reduce pollutants | current contract for | 1. I offille your 1 | 1. 1 05/110/5tatus |
| | from Town owned and maintained | monthly street sweeping | | |
| | streets. | services to include SOP | | |
| | 3.333.63 | and documentation | | |
| | | requirements | | |
| | | 2. Ensure contract | 2. Annually, beginning in | 2. Total number of cycles |
| | | conditions are met, and | Permit Year 2 | completed |
| | | that all streets are swept | | |
| | | once per month during | | |
| | | the 9-month cycle. | | |
| #. 47 | Leaf Collection | | | |
| | Periodic collection of leaves and yard | 1. Develop a SOP, | 1. Permit year 2 | 1. Yes/no/status |
| | waste from residential and public | including a schedule and | | |
| | areas to reduce pollutants and | plan to document | | |
| | clogging of storm system inlets. | 2. Implement SOP and | 2. Regularly, beginning | 2. Volume of material |
| | | documentation | in Permit Year 3 | collected (tons) |
| #. 48 | Vehicle Spill Cleanup | | | |
| | An organized vehicle spill cleanup | 1. Ensure proper spill | 1. Annually | 1. Yes/no |
| | response to prevent pollutants from | response procedures are | | |
| | vehicular accidents from entering the | in place | | |
| | storm drain system. | | | |