

LANCASTER COUNTY SMS4 PHASE II STORMWATER MANAGEMENT PLAN

Lancaster County, South Carolina



Developed by:

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List of Acronyms and Abbreviations

BIO	Macroinvertebrate
BMP	Best Management Practice
CEPSCI	Certified Erosion Prevention and Sediment Control Inspector
CWA	Clean Water Act
CU	Copper
EPA	Environmental Protection Agency
ERP	Enforcement Response Plan
FC	Fecal Coliform
HOA	Homeowners Association
IECA	International Erosion Control Association
IDDE	Illicit Discharge Detection and Elimination
MCM	Minimum Control Measure
MEP	Maximum Extent Practicable
MS4	Municipal Separate Storm Sewer System
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
PIP	Public Involvement/Participation
POA	Property Owners Association
POC	Pollutant of Concern
SCDHEC	South Carolina Department of Health and Environmental Control
SCDOT	South Carolina Department of Transportation
SMS4	Small Municipal Separate Storm Sewer System
SOP	Standard Operating Procedure
SWMP	Stormwater Management Plan
SWPPP	Stormwater Pollution Prevention Plan
TMDL	Total Maximum Daily Load

1.0 Introduction

The Clean Water Act (CWA) is the primary federal legislation protecting surface waters, such as lakes, rivers, and coastal areas. The CWA is the result of the Federal Water Pollution Control Act (WPCA), which was initially enacted in 1948. This legislation utilized ambient water quality standards to specify acceptable levels of pollution in lieu of preventable causes of water pollution. This approach has been proven to be an ineffective method in preventing pollution. Additional problems encountered with the WPCA included ambiguous federal and state responsibilities for promulgating the standards and cumbersome enforcement methods.

In 1972, the CWA was enacted to strengthen and expand the role of the WPCA. The CWA implemented measures which were focused on establishing effluent limitations on point sources, or "any discernable, confined, and discrete conveyance from which pollutants are or may be discharged". Additional measures employed by the CWA included the following items:

- Increased accountability toward dischargers of pollutants
- Required states and tribes to survey their waters and determine the appropriate use for each, followed by the implementation of specific water quality criteria for various pollutants to protect the identified uses
- Provided certain funding mechanisms to assist communities in achieving clean water goals. The 1972 CWA introduced the National Pollutant Discharge Elimination System (NPDES)

1.1 National Pollutant Discharge Elimination System

The National Pollutant Discharge Elimination System (NPDES) program was established as the fundamental regulatory mechanism of the CWA. The NPDES program requires that a direct discharger of a pollutant into waters of the United States must obtain an NPDES permit. Initially, the permitting effort was focused on municipal and industrial wastewater facilities. Although these discharges were controlled, many impaired water bodies remain impaired.

Subsequent studies have determined that diffuse (non-point) sources, *e.g.*, storm water runoff from urban and agricultural areas, construction sites, land disposal areas, and mining activities, are presently the leading contributors to water quality impairment. Although storm water originates from various diffuse sources, this runoff is frequently discharged through separate storm sewer systems (catch basins and pipe networks) or other conveyances. Therefore, the CWA was amended in 1987 to include Section 402(p), which required the United States Environmental Protection Agency (EPA) to develop a comprehensive phased program to regulate storm water discharges under the NPDES program. The NPDES Phase I rule, which was promulgated in November 1990, addressed storm water discharges from medium to large municipal separate storm sewer systems (MS4), which were communities serving a population of at least 100,000 people, as well as storm water discharges from industrial activity. Phase I MS4s in South Carolina include the SCDOT (Large),

Greenville County (Medium), Richland County (Medium) and the City of Columbia (Medium). The ruling also placed permitting requirements on certain construction activities.

The NPDES Phase II rule, which was promulgated in December 1999, addressed small municipal separate storm sewer systems (SMS4) serving a population of less than 100,000 people in urbanized areas. Per the 2010 Census data, the estimated population of Lancaster County was approximately 76,652. The Phase II rule generally defines an urbanized area as a densely settled core of census tracts and/or census blocks that have a population of at least 50,000, along with adjacent territory containing non-residential urban land uses as well as territory with low population density included to link outlying densely settled territory with the densely settled core. Based on the 2010 Census data, areas within the “panhandle” portion of Lancaster County meet this definition and have been designated as a regulated SMS4. In the state of South Carolina, the EPA has delegated the South Carolina Department of Health and Environmental Control (SCDHEC) as the state NPDES permitting authority.

The Phase II rules require operators of designated SMS4’s and construction activity to apply for NPDES permit coverage. In South Carolina the designated SMS4 is responsible for managing the NPDES permitting requirements for construction activity. Lancaster County is applying for coverage under the State general permit. In general terms the Phase II final rules require the following:

- A regulated SMS4 operator must develop, implement, and enforce a stormwater management program designed to reduce the discharge of pollutants from their SMS4 to the “maximum extent practicable,” to protect water quality requirements of the CWA
- The SMS4 stormwater management program must include the following six minimum control measures: public education and outreach; public participation/involvement; illicit discharge detection and elimination; construction site runoff control; post-construction runoff control; and pollution prevention/good housekeeping
- A regulated SMS4 operator must identify its selection of Best Management Practices (BMP’s) and measurable goals for each minimum measure in the permit application. The evaluation and assessment of the chosen BMP’s and measurable goals must be included in periodic reports to the permitting authority

1.2 SMS4 Program Development Schedule

Lancaster County received a designation letter for inclusion in the NPDES program as a regulated SMS4 in October, 2014. The County submitted its Notice of Intent (NOI) and draft Stormwater Management Plan (SWMP) to SCDHEC on March 30, 2015. Coverage under the NPDES General Permit began in July of 2016. Lancaster County has begun implementing the SWMP over a three year period. SCDHEC outlines a phased approach for compliance with requirements set forth in the General Permit for new permittees.

Year One

- Implement Public Outreach and Education
- Perform Dry Weather Field Screening
- Review Existing Ordinances and Adopt New Ordinances for Program Implementation
- Prepare Enforcement Response Plan
- Submit Annual Report

Year Two

- Develop Total Maximum Daily Load (TMDL) Monitoring Plan - End of Year 2
- Implement Construction Site Storm Water Plan - 18 Months
- Implement Post Construction Storm Water Management Plan - 18 Months
- Submit Annual Report

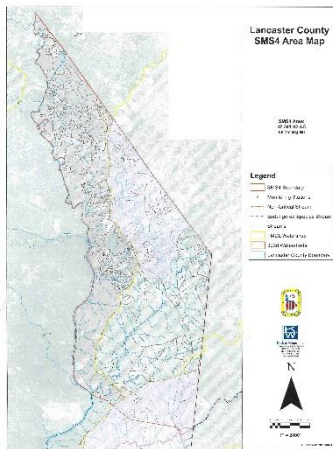
Year Three

- Initiate TMDL Monitoring Plan
- Submit Reapplication/Annual Report

Throughout the process, the permit requires on-going efforts associated with public participation and involvement in development and implementation of the SWMP as well as good housekeeping and employee training in regards to meeting the minimum measures required. The SWMP should be fully implemented at the end of the permit cycle.

2.0 Notice of Intent (NOI) Information

Table 1: NOI Table

General Permit Section	NOI Information	Description
2.2.1 Information on the Permittee:		
2.2.1.1	Name of Permittee:	Lancaster County
	Mailing Address:	Lancaster County P.O. Box 1809 Lancaster, SC 29721
	Telephone Number:	803-285-1565
2.2.1.2	Public Entity Type:	County
2.2.2 Information on the SMS4:		
2.2.2.1	Map of Lancaster County SMS4:	<p><u>SMS4 Location:</u> Lancaster County Panhandle (North of SC-5)</p> <p><u>SMS4 Area:</u> 58.3 square miles</p> <p><u>SMS4 Center Coordinates:</u> Latitude: N34° 58'20" Longitude: W80° 51'04"</p> 
2.2.2.2	Major Receiving Waters:	Catawba River, Sugar Creek, McAlpine Creek, Twelve Mile Creek, Waxhaw Creek
2.2.2.3	Indian Lands:	No portion of Lancaster County's S MS4 is located on Indian Lands.

General Permit Section	NOI Information	Description
2.2.2.4	List of Significant Entities within Lancaster County:	The following entities operate a separate storm sewer system within the MS4 area of Lancaster County. <ul style="list-style-type: none"> • SCDOT
2.2.2.5 2.2.2.6	BMP Information:	See Section 4.0 for a discussion of the BMPs for each minimum measure. Each minimum measure contains available information on the BMPs that are to be implemented, their measurable goals, a schedule for their implementation, and the person(s) responsible.

3.0 Special Conditions Applicable to Permitted Stormwater Discharges to Sensitive Waters

The SMS4 general permit requires that Lancaster County determine whether its systems discharge to sensitive waters. For the purpose of the permit, sensitive waters are waters:

- With a Total Maximum Daily Load (TMDL) developed and approved, or established by EPA;
- Included in the most recent SC DHEC Section 303(d) list;
- In Source Water Protection Areas (SWPA); and,
- Pursuant to DHEC Water Classifications & Standards (R.61-68) and Regulations (R.61-69) classified as either:
 - Outstanding National Resource Waters;
 - Outstanding Resource Waters;
 - Trout Waters; or,
 - Shellfish Harvesting Waters.
- The LCSC Panhandle SMS4 does include 303(d) listed waters, TMDL streams, and the Carolina Heelsplitter which is an endangered species of mussel. These criteria set the baseline standard for pollutants of concern will guide the SMS4 minimization efforts.

3.1 Determination of Receiving Water Conditions and Impacts

The SMS4 general permit requires Lancaster County to determine whether stormwater discharges from part of the SMS4 contribute one or more pollutants directly or indirectly to an impaired waterbody that is listed in the most recent South Carolina 303(d) list. The list identifies water bodies that do not currently meet state water quality standards. The list is intended to be used as a tool to determine what types of water quality improvement measures should be taken. To meet this SMS4 general permit requirement, the County has collected information from SCDHEC on the location of impaired waters, as determined from results of the

State's monitoring program that could potentially be impacted by discharges from the County's SMS4. The following table provides a list of the impaired waterbodies on the 2014 303(d) list that the County's SMS4 contributes to, either directly or indirectly.

Table 2: 2016 303(d) List of Impaired Stations for Lancaster County's SMS4 Area

Major Receiving Waters	Station Description	Station	Pollutant of Concern
CATAWBA RIVER	SUGAR CREEK AT SC 160	CW013	BIO
	SUGAR CREEK AT S-46-36	CW036	Ecoli/CU
	MCALPINE CREEK AT S-29-64	CW064	BIO/Ecoli
	SUGAR CREEK AT MCALPINE CREEK	CW246	BIO

3.2 TMDL Monitoring and Assessment

In compliance with Section 3.2.1 of the SMS4 general permit, TMDL monitoring and assessment plans will be developed for TMDL waters receiving SMS4 discharge pollutant(s) of concern, except where Section 3.1.1.2 of the SMS4 general permit is applicable. For TMDLs existing before the effective date of permit coverage, TMDL monitoring and assessment plans will be completed, submitted to SCDHEC, and appended to this SWMP within 24 months of the effective date of permit coverage. For newly established TMDLs, the County will complete a TMDL monitoring and assessment plan within 24 months of the effective date of the TMDL. As completed, TMDL monitoring and assessment plans will be submitted to SCDHEC. Sampling will be initiated within 36 months of the effective date of permit coverage for TMDLs existing before the effective date of permit coverage. For newly established TMDLs, Lancaster County will initiate sampling within 36 months of the effective date of the TMDL.

Table 3: List of Approved TMDLs within Lancaster County's SMS4 Area

TMDL Watershed	Pollutant of Concern	Effective TMDL Date
Waxhaw Creek	Fecal Coliform	September, 2005
Sixmile Creek	Fecal Coliform	September 2005
Twelvemile Creek	Fecal Coliform	September 2005

3.3 TMDL Implementation and Analysis

In compliance with Section 3.3.2 of the SMS4 general permit, TMDL Implementation Plans will be developed for all TMDL waters receiving SMS4 discharges of pollutant(s) of concern, except when Section 3.1.1.2 of the SMS4 general permit is applicable. TMDL Implementation Plans will be completed and submitted to SCDHEC within 48 months from the effective date of permit coverage, or, for TMDLs established after the effective date of permit coverage, within 60 months of the effective date of the TMDL.

3.4 Discharges to Impaired Waterbodies

For impaired water bodies for which no TMDL has been assigned, protection will be provided through BMP applications conducted through implementation of the minimum control measures in section 4.2.

3.5 Discharges to Classified Waters

The regulated areas of Lancaster County do not discharge to classified waters.

3.6 Discharges to Source Water Protection Areas

The regulated areas of Lancaster County do not discharge to Source Water Protection Areas.

4.0 Storm Water Management Plan

4.1.1 Permit Requirements

Permittees shall develop, implement, and enforce a SWMP designed to reduce the discharge of pollutants from the SMS4 to the maximum extent practicable, to protect water quality, and to satisfy the appropriate water quality requirements of the Clean Water Act. At a minimum, Lancaster County will be required to implement a Storm Water Management Program which must address the following issues:

- Specify Best Management Practices (BMPs) for six minimum control measures and implement them to the “maximum extent practicable”,
- Identify measurable goals for these control measures,
- Develop an implementation schedule for these control measures or frequency of activities, and Define the responsible entity to implement these control measures

4.1.2 SWMP Development

Lancaster County will prepare a draft version of the SWMP for submission March 30, 2015 with an anticipated approval date of January 1, 2016.

4.1.3 Contents of the SWMP

At a minimum, Lancaster County must develop ordinances, or other regulatory mechanisms, providing the legal authority necessary to implement and enforce the requirements of the SMS4 general permit by January 1, 2016 that provide adequate legal authority to control pollutant discharges into and from the SMS4, and to meet the requirements of the SMS4 general permit.

4.1.4 Requirements to Develop Adequate Legal Authority

As a regulated SMS4, Lancaster County must develop the legal authority to implement and enforce the SWMP within one (1) year from the effective date of the NPDES permit. Within the first year Lancaster County must review existing ordinances to determine applicability to NPDES requirements and where current ordinances do not exist adopt new ordinances to at a minimum address the following:

- *Establish Authority to Prohibit Illicit Discharges* – Prohibit and eliminate illicit connections and discharges to the SMS4.
- *Establish Authority to Prohibit Spills and Other Releases* – Control the discharge of spills, and prohibit dumping or disposal of materials other than storm water into the SMS4.
- *Establish Authority to Require Compliance* – Require compliance with conditions in the permittee’s ordinances, permits, contracts, or orders (i.e., hold dischargers accountable for their contributions of pollutants and flows).
- *Establish Authority to Require Installation, Implementation, and Maintenance of Control Measures* – Require owners/operators of construction sites, new development and redevelopment (including industrial and commercial activities without an NPDES industrial storm water permit) to minimize the discharge of pollutants to the maximum extent practical and to protect water quality.
- *Establish Authority to Receive and Collect Information* – Permittee must have the authority to request from operators of construction sites, new or redeveloped land, including industrial and commercial land information including, but not limited to, specific requirements to control construction, industrial, and post-construction discharges of pollutants in storm water. This authority must also include the ability to enforce, stop work, require compliance, etc. for controlling pollutants from these sources.
- *Establish Authority to Inspect* – Permittees must have the authority to enter private property for the purpose of inspecting any facilities, equipment, practices, or operations related to storm water discharges to determine whether there is compliance with local storm water control ordinances/standards or requirements in the permit.
- *Establish Response to Violations* – The permittee must have the ability to promptly require that violators cease and desist illicit discharges or discharges of storm water in violation of any ordinance or standard and/or cleanup and abate such discharges.
- *Establish Monetary Penalties* – The permittee must have the authority to levy citations or administrative fines against responsible parties and require recovery and remediation costs from responsible parties.
- *Establish Civil and Criminal Penalties* – The permittee must have the ability to impose more substantial civil or criminal sanctions (including referral to a county or district attorney) and escalate corrective response, consistent with its enforcement response plan, for persistent non-compliance, repeat or escalating violations, or incidents of major environmental harm.

4.1.5 Enforcement Measures and Tracking

Lancaster County will implement an Enforcement Response Plan (ERP) by January 1, 2016, and revise as necessary throughout the permit cycle. The ERP will describe the County’s potential responses to violations and address repeat and continuing violations through progressively stricter responses as needed to achieve compliance.

4.1.6 Report Requirements

Lancaster County will at a minimum submit the following information in the yearly reports:

- The status of implementing the components of the SWMP that are established as permit conditions;
- Proposed changes to the SWMP that are established as permit conditions;
- Revisions, if necessary, to the assessment of controls and the fiscal analysis, including a description of staff resources necessary to meet the requirements of the permit;
- A summary of data, including monitoring data, that is accumulated throughout the reporting year; and,
- A summary describing the number and nature of enforcement actions, inspections, and public education programs.

4.1.7 SWMP Minimum Control Measure Requirements

The Lancaster County SWMP includes the following information for each of the six minimum control measures detailed in Section 4.2 of this SWMP:

- Best Management Practices (BMP's) that the County or another entity on behalf of the County, will implement for each of the MCM;
- Measurable goals for each of the BMP's including, as appropriate, the months and years in which the County will undertake required actions, including interim milestones and the frequency of the action; and,
- Person, or persons, responsible for implementing or coordinating the BMP's for the County's SWMP.

4.1.8 SWMP Development

Lancaster County will strive to develop their SWMP as outlined in SCDHEC schedule of compliance.

4.1.9 SWMP Implementation

Lancaster County will have the SWMP implemented within three years from the effective date of the written certificate of coverage.

4.1.10 Modification to the SWMP Document

SCDHEC Bureau of Water may notify Lancaster of the need to modify the SWMP document to be consistent with the permit, in which case Lancaster County will have 90 days to finalize such changes to the plan.

Lancaster County will keep the SWMP document up to date during the term of the permit. Where Lancaster County determines that Ordinance modifications are needed to address procedural, protocol, or programmatic change, such changes must be made as soon as practicable, but not later than 360 days.

Table 4: SWMP Requirements

SWMP REQUIREMENTS						
Develop and Implement SWMP	Not Started:		In Progress:		Completed:	✓
	Section: 4.1.2 and 4.1.8					
Milestone(s)	Schedule/Deadline	Frequency		Responsible Party		
Prepare NOI and Develop Draft Storm Water Management Plan. Full implementation will occur over a three year period.	30-Mar-15 Approved 7/1/16	Once during permit application		Lancaster County Public Works		
Create Stormwater Management Ordinance	Not Started:		In Progress:	✓	Completed:	
	Section: 4.1.3 and 4.1.4					
Milestone(s)	Schedule/Deadline	Frequency		Responsible Party		
Adopt new stormwater ordinances or other regulatory mechanisms that provide adequate legal authority to control pollutant discharges into and from the MS4.	30-Dec-16 1-Jan-18	Once during permit term		Lancaster County Council		
Develop Enforcement Response Plan (ERP)	Not Started:		In Progress:	✓	Completed:	
	Section: 4.1.5					
Milestone(s)	Schedule/Deadline	Frequency		Responsible Party		
Develop enforcement response plan (ERP).	30-Dec-16 1-July-17	Once during permit term		Lancaster County Public Works		

Ensure Adequate Resources	Not Started:		In Progress:		Completed:	✓
	Section: 4.1.6					
Milestone(s)	Schedule/Deadline		Frequency		Responsible Party	
Analyze current funding sources / availability of existing staff for implementation of the permit requirements. Make recommendations to council as required.	30-Dec-16 1-Sep-17		Annually		County Manager	

Implement Minimum Control Measures (MCM)	Not Started:		In Progress:	✓	Completed:	
	Section: 4.1.7					
Milestone(s)	Schedule/Deadline		Frequency		Responsible Party	
Implement the six minimum control measures to including measurable goals for each.	30-Dec-17 31-Dec-18		Continuously throughout permit term		Lancaster County Public Works	

4.2 Minimum Control Measures

In compliance with the SMS4 general permit requirements; this SWMP includes a description of the six Minimum Control Measures (MCM's) and details on the development and implementation of the plan to address MCM requirements. The details on each minimum measure include the proposed BMP, measurable goals for each proposed BMP, the responsible departments and staff to implement the BMP, and the implementation schedule for the BMP (i.e. start date, frequency of activities, etc.).

4.2.1 Public Outreach and Education (Minimum Measure #1)

4.2.1.1 Permit Requirements

Within the first year of coverage, permittees have implemented a comprehensive stormwater education/outreach program. In order to meet the requirements of Minimum Measure #1, Lancaster County is focusing on the development and implementation of educational materials designed to inform the public about the impacts that stormwater discharges could have on local water bodies, and the steps that the public can take to reduce pollutants in stormwater runoff. The County is working in cooperation with and support existing community events in order to efficiently reach as many citizens as economically possible through public education and outreach efforts. The County has promoted events to increase attendance and provide campaign items targeted specifically to address community issues affecting water quality. The County's public

education efforts will target specific events to strategically reach a diverse group of citizens.

Table 5: Minimum Measure #1 Permit Requirements

4.2.1.1.1 The Pollutant(s) Of Concern (POC) Within Lancaster County’s Watershed Area(s):
<p>In Lancaster County’s watershed area, the potential pollutants of concern (POC) have been determined to be Bacteria (fecal coliform) and Sediment resulting from various point and non-point sources. Bacteria was determined to be a POC due to the existing fecal coliform Total Maximum Daily Load (TMDL) in the Sugar Creek and Twelve Mile Creek watersheds. Sediment is considered a POC due to consistent construction activity in the County’s watershed area. Various studies have shown other stormwater pollutants such as nutrients and bacteria bind to sediment particles. A description of the pollutants of concern for the County’s watershed area is included below:</p>
4.2.1.1.2 Description Of The POC(s) Listed Above:
<ul style="list-style-type: none"> ➤ <u>Fecal Coliform:</u> Bacteria typically contributes to stormwater pollution due to animal fecal matter in stormwater runoff, failing septic systems, or sanitary sewer leaks/spills and cross connections. ➤ <u>Sediment:</u> Sediment typically contributes to stormwater pollution due to erosion of exposed bare soil areas from construction sites or other land disturbing activities and accelerated stream bank erosion due to land use activities.
4.2.1.1.3 Initiate Planning Process Targeting High Priority Community Issues With The Potential To Decrease The POC’s Effect On Water Quality:

The primary pollutant of concern for Lancaster County is bacteria due to TMDLs in the Twelve Mile Creek and Sugar Creek watersheds. In Lancaster County's regulated MS-4 area, the primary community issue that results in bacteria contributing to water quality impairments are sanitary sewer illicit discharges/spills and, to a lesser extent, waste from pets and waterfowl.

Nutrient pollution from wash water activities and lawn fertilizing will also be addressed through public education. Many chemical washing products used in wash water operations contain high concentrations of phosphates which can contribute to in-stream nutrient pollution.

In the County's regulated MS-4 area, sediment is a pollutant of concern due to ongoing land development activities. Sediment pollution can have negative effects on a waterbodies natural food web and can transport other pollutants such as nutrients and bacteria.

The County intends to create a task force including staff and community members to develop educational materials and strategies addressing the pollutants of concern. This may include the following:

- Brochures or Fact Sheets
- Web Sites (County or other)
- Volunteer Citizen Educators
- Public Event Participation
- Educational Programs
- Stormwater Hotlines
- Community Signage

The short term goal of the County's public education plan is to increase awareness of the community issues listed above. The County's long term goal to affect behavior changes in the public is to reach and educate the local children and youth about water quality pollution.

4.2.1.1.4 The Audience(s) That Is Believed To Have An Influence On The POC Identified And That Is Believed To Have An Influence On The Goals And Objectives Identified:

For the community issues, which include recognizing and reporting illicit discharges, pet waste, Water fowl waste, small wash water activities, and lawn fertilization, the target audience will be the citizens visiting, living, and doing business in the County's regulated SMS4.

The target audience for construction activities will be local contractors, developers, and engineers that are responsible for designing, constructing, and maintaining BMP's that prevent sediment loss from land disturbances.

4.2.1.1.5 The Message(s) Directed At The Target Audience(s) Listed Above To Achieve The Program Goals And Objectives:

Develop a “campaign” slogan that is readily identifiable and speaks to the goals of the overall program. Following are examples:

- Clean and Green Campaign
- Only Rain in the Drain
- Clean Water Starts with You
- Be the Solution to Water Pollution

4.2.1.1.6 Education Campaign(s) And Materials:

In order to increase awareness of community issues effecting water quality and convey the program’s message, the County will create education and campaign materials. Some examples of typical public information are listed below:

Illicit discharge outreach brochure – The brochure increases awareness of illicit discharges and encourages citizens to report potential illicit discharges.

Yard savvy publication – The handout increases awareness of common residential activities including wash water and lawn fertilization that may contribute to nutrient pollution.

Think green when planning a car wash fundraiser brochure - The brochure increases awareness of potential water pollution from car wash activities and provides methods to decrease impacts from car washing.

Waterfowl control techniques link – The website link for techniques to control waterfowl increases awareness of pollution resulting from waterfowl waste and provides HOA’s and businesses techniques to control unwanted waterfowl.

Single-lot construction brochure - The brochure increases awareness of common “single lot” erosion concerns such as silt fence installation/maintenance and sediment tracking from construction entrances.

Commercial/Multifamily informational packet – The information packet will educate contractors on sediment and erosion control methods in commercial development.

4.2.1.1.7 Distribution Of Campaign Materials:

The County will target specific events and/or locations to distribute campaign materials in an effort to strategically reach a diverse group of citizens.

4.2.1.1.8 Quantitative And/Or Qualitative Formative Assessment Of Programs:

To the MEP, the County will utilize quantitative and/or qualitative formative evaluation assessments to guide and/or change the program goals and objectives and/or program activities as needed.

4.2.1.1.9 Utilization Of Public Input Into The Development Of This Program:

The County will gather public input from local citizens and business entities within the community. It is anticipated that a task force will be developed from these groups for assistance in developing and implementing the SWMP.

4.2.1.1.10 Implementation Of Program Goals And Objectives:

The County will implement the program goals and objectives to the MEP during the permit term.

4.2.1.1.11 Process For Annual Adjustment Of Program Based Upon Program Assessment:

The County will assess the stormwater education/outreach program annually. The County will adjust their educational materials and the delivery of such materials to address shortcomings found as a result of these assessments.

4.2.1.2 BMP Implementation

The BMP's in this section were selected to better educate citizens on how they may contribute to maintaining and improving water quality. The measurable goals for each BMP for the Public Education and Outreach minimum measure will be used to evaluate the success of each BMP. The following sections describe the components of the County's Public Education and Outreach program:

Table 6: Best Management Practices – Minimum Measure #1

PUBLIC EDUCATION AND OUTREACH BMP'S						
Identify Pollutants of Concern	Not Started:		In Progress:		Completed:	✓
	Section: 4.2.1.1.1					
Milestone(s)	Schedule/Deadline	Frequency		Responsible Party		
Identify the pollutants of concern (POC) within the MS4	30-Mar-15 1-Jul-17	Once during permit application (First Year)		Lancaster County Public Works		
Measurable Goal:						
Prepare a list and description of the POC within the SMS4						
Analyze Pollutants of Concern	Not Started:		In Progress:	✓	Completed:	
	Section: 4.2.1.1.2					
Milestone(s)	Schedule/Deadline	Frequency		Responsible Party		
Analyze the pollutants of concern within the SMS4 and how a Public Education and Outreach program can impact the discharge of these pollutants.	30-Mar-15	Once during permit application (First Year)		Lancaster County Public Works		
Measurable Goal:						
Determine how the POC's impact the SMS4 and identify strategies to reduce the POC's						

Initiate Planning Process	Not Started:		In Progress:		Completed:	✓
	Section: 4.2.1.1.3 & 4.2.1.1.9					
Milestone(s)	Schedule/Deadline	Frequency	Responsible Party			
Create task force of MS4 stakeholders to participate in planning process. Develop program goals and objectives as well as educational materials and strategies to meet those objectives.	30-Jul-16 1-Jul-17	Once during permit term (First Year)	Lancaster County Public Works			
Measurable Goal:						
Task force created and program goals and objectives developed						
Identify and Analyze Audience	Not Started:		In Progress:		Completed:	✓
	Section: 4.2.1.1.4					
Milestone(s)	Schedule/Deadline	Frequency	Responsible Party			
Develop a list of the target audience to include neighborhoods, schools, and civic organizations.	30-Dec-16 1-Jul-17	Once during permit term (First Year)	Lancaster County Public Works			
Measurable Goal:						
Publish list of target audience and identify outreach strategies for each						
Develop Program Messages	Not Started:		In Progress:	✓	Completed:	
	Section: 4.2.1.1.5					
Milestone(s)	Schedule/Deadline	Frequency	Responsible Party			
Develop an easily identifiable program message/mission statement to be used as the focal point for the program.	30-Dec-16 1-Jul-17	Once during permit term (First Year)	Lancaster County Public Works			
Measurable Goal:						
Staff approval/Community support of overall program message						
Develop Education Campaign(s) and Materials	Not Started:		In Progress:	✓	Completed:	
	Section: 4.2.1.1.6					
Milestone(s)	Schedule/Deadline	Frequency	Responsible Party			
Prepare educational materials for distribution at neighborhood meetings, schools and civic functions. Create stormwater website.	30-Dec-16 1-Jul-17	Continuously throughout permit term (First Year)	Lancaster County Public Works			
Measurable Goal:						
Create website and publish outreach material						

Distribute Campaign Materials	Not Started:		In Progress:	✓	Completed:	
	Section: 4.2.1.1.7					
Milestone(s)	Schedule/Deadline	Frequency		Responsible Party		
Distribute materials at various community events.	30-Dec-16 1-Jul-17	Continuously throughout permit term (First Year)		Lancaster County Public Works		
Measurable Goal:						
Distribute materials to reach 5% of the populace within the MS4						
Asses And Adjust The Public Education And Outreach Plan	Not Started:		In Progress:	✓	Completed:	
	Section: 4.2.1.1.8 & 4.2.1.1.11					
Milestone(s)	Schedule/Deadline	Frequency		Responsible Party		
Assess and make adjustments to the Public Education program to determine necessary changes to the programs goals or objectives.	30-Dec-16 1-Sep-17	Annually (First Year)		Lancaster County Public Works		
Measurable Goal:						
Revise plan yearly to address needed changes						

4.2.2 Public Participation/Involvement (Minimum Measure #2)

4.2.2.1 Permit Requirements

Permittees are required to involve the public in the planning and implementation activities related to the development and implementation of the SWMP. The County plans to create a task force of stakeholder's from both the public and private sector for planning and implementation of the SWMP. The County also plans to work in cooperation with and support existing community events in order to provide forums to encourage and allow the public to participate in the program.

Table 7: Minimum Measure #2 Permit Requirements

4.2.2.1.1 Create Opportunities For Citizens To Participate In The Implementation Of Stormwater Controls:
The County will create opportunities for the public to participate in a number of ways including participation in the planning and implementation stakeholders group, utilizing public forces (HOA's) to assist in storm drain mapping, stream clean-ups, and storm drain stenciling.
4.2.2.1.2 Ensure Accessibility Of The Information On This SWMP:

Lancaster County has included the SWMP on the County's webpage

(http://www.mylancastersc.org/vertical/sites/%7BA02FC01E-6C41-44F4-BE02-9B73FC0206C5%7D/uploads/StormWater_Management__Action_Plan.pdf)

4.2.2.1.3 Incorporate Written Procedures For Implementation:

Lancaster County will develop written procedures for implementing the public involvement/participation MCM and incorporate these procedures into the SWMP.

4.2.2.2 BMP Implementation

The BMPs selected in this section describe how the citizens will be informed about the SWMP and lists activities for public participation. The measurable goals for each BMP for the Public Participation and Involvement minimum measure will be used to evaluate the success of each BMP. The following sections describe the components of the County's Public Involvement/Participation program:

Table 8: Best Management Practices – Minimum Measure #2

PUBLIC INVOLVEMENT/PARTICIPATION BMPS				
Sponsor/Support Citizen Participation	Not Started:		In Progress:	✓
	Completed:			
Section: 4.2.2.1.1				
Milestone(s)	Schedule/Deadline	Frequency	Responsible Party	
Lancaster County will sponsor/support community events by: promoting/advertising events, distributing water quality awareness campaign items, and providing other general assistance as resources allow.	Throughout Permit Term	Annually	Lancaster County Public Works	
Measurable Goal:				
Sponsor a minimum of two events per year				

Provide Access to SWMP Information	Not Started:		In Progress:
			Completed: ✓
Section: 4.2.2.1.2			
Milestone(s)	Schedule/Deadline	Frequency	Responsible Party
Ensure public can easily find information about the SWMP.	30-Mar-16	Once during permit term	Lancaster County Public Works
Measurable Goal:			
Include SWMP on the County's web site.			
Develop Written Procedures	Not Started:		In Progress:
			Completed: ✓
Section: 4.1.6			
Milestone(s)	Schedule/Deadline	Frequency	Responsible Party
Develop written procedures for implementing the PIP MCM into the SWMP.	30-Dec-16 1-Sep-17	Once during permit term	Lancaster County Public Works
Measurable Goal:			
Update SWMP to include written procedures			

4.2.3 Illicit Discharge Detection and Elimination (Minimum Measure #3)

4.2.3.1 Permit Requirements

Permittees shall develop, implement, and enforce a program to detect and eliminate illicit discharges into the SMS4. Lancaster County will locate and eliminate illicit discharges by developing BMP's in accordance with the SMS4 general permit requirements. Priority areas will be established based on the higher likelihood of illicit connections, and outfalls located within the priority areas will be visited to check for dry weather flow. Outfalls with dry weather flow will be screened to identify potential illicit discharges. Prior to illicit tracking activities, the County will develop illicit tracking procedures. After illicit tracking procedures have been established, illicit discharges will be tracked to a source and eliminated when possible. Illicit tracking activities will be documented for review.

Table 9: Minimum Measure #3 Permit Requirements

4.2.3.2.1 Development of The Storm Sewer System Map:
Lancaster County will develop a storm sewer system map showing the location of outfalls, and names and locations of waters of the United States that receive discharges from those outfalls. The storm sewer map will be updated as needed to show new outfalls due to new development.
4.2.3.2.2 Identification of Priority Areas:
<p>Lancaster County will identify priority areas for more detailed screening of the SMS4 based on higher likelihood of illicit connections.</p> <p>The County will document the basis for its selection of each priority area and create a list of priority areas identified in the system no later than 12 months after the effective date of permit coverage. The priority area list will be updated annually to reflect changing priorities and be available for review by the permitting authority.</p>
4.2.3.2.3.a Field Screening Procedures And Implementation:
<p>Lancaster County will conduct dry weather field screening and/or analytical monitoring, when necessary, to identify the source of illicit discharges. At a minimum, the County will:</p> <p>Identify field screening points within the priority areas where field screening and analytical monitoring will take place. A list of screening points will be developed. The areas and the schedule for conducting the screening, and field screening points will be identified annually.</p> <p>The elimination of illicit discharges will be documented. Documentation procedures will be developed as described in section 4.2.3.2.6.</p>
4.2.3.2.3.b Field Screening Assessment:
Lancaster County will assess the effectiveness of the Field Screening component of their IDDE program in the third permit year to determine if the level of effort is adequate in attaining the effective prohibition of non-stormwater discharges into the SMS4. Where updates are found to be necessary, the County will make such changes and include them as part of the re-notification required under Part 2.5 of Permit SCR030000.
4.2.3.2.3.c Procedures For Notifying Another MS4 or SMS4 of An Illicit Discharge:
For non-traditional MS4 permittees, if illicit connections or illicit discharges are observed related to another operator's municipal storm sewer system then the County will notify the other operator as soon as practical.
4.2.3.2.3.d Addressing a Notification of An Illicit Discharge By Another Operator:
Lancaster County will follow appropriate procedures when notified of an illicit discharge by another MS4 or SMS4 operator.
4.2.3.2.3.e Written procedures for implementing the program:

Lancaster County will include the field screening procedures in the SWMP as they are developed.

4.2.3.2.4/5 Tracing The Source of An Illicit Discharge:

Lancaster County will develop procedures for conducting illicit tracking and elimination procedures. After notification of an illicit discharge, the County will initiate an investigation(s) to attempt to identify and locate the source of continuous or intermittent non-stormwater discharge on the same day when practicable but no later than two (2) business days. The County will report immediately the occurrence of dry weather flow believed to be an immediate threat to human health or the environment to SCDHEC Emergency Response, 1-888-481-0125.

Illicit Discharges suspected of being sanitary sewage and/or significantly contaminated will be considered a high priority and will be reported to the appropriate public utility owner within one (1) business day.

Investigations of illicit discharges suspected of being cooling water, wash water, or natural flows may be delayed until after discharges suspected of having the potential to adversely impact either human health or water quality have been investigated, eliminated, and/or resolved.

At a minimum, the County will document the date(s) the illicit discharge was observed; the results of the investigation; follow-up of the investigation; and the date the investigation was closed.

4.2.3.2.6 Documenting Illicit Discharges:

Lancaster County will determine and document, through their investigations, the source of confirmed illicit discharges. If the source of the suspected illicit discharge is found to be a suspected non-compliance with an NPDES permit, the appropriate SCDHEC Regional Office will be notified.

- a. If an illicit discharge is found, but within six (6) months of the beginning of the investigation neither the source nor the same non-stormwater discharge has been identified/observed, then the County will maintain written documentation for review by the permitting authority.
- b. If the observed discharge is intermittent, the County will document that a minimum of three (3) separate investigations were made to observe the discharge when it was flowing. If these attempts are unsuccessful, the County will maintain written documentation for review by the permitting authority. However, since this is an ongoing program, the County will periodically recheck these suspected intermittent discharges.

4.2.3.2.7 Corrective Action Plan to Eliminate Illicit Discharges:

Once the source of the illicit discharge has been determined, the County will:

- a. Attempt to notify the responsible party of the problem as soon as practical but no later than one (1) business day.
- b. Require the responsible party to conduct necessary corrective actions to eliminate the non-stormwater discharge within 30 days or sooner as determined by the County. When, and if, elimination will take longer than 30 days, the County will require responsible parties to submit a plan with a schedule for elimination.
- c. Conduct a follow-up investigation and field screening, consistent with Part 4.2.3.2.4/5 of this SWMP, to verify that the discharge has been eliminated.
- d. Document their follow-up investigations.
- e. Follow the SWMP ERP and include the resulting enforcement actions in the subsequent report.

4.2.3.2.8 Public Reporting Mechanics:

Lancaster County will promote, publicize, and facilitate an illicit reporting hotline for the public and staff to report illicit discharges. The County will establish and implement citizen response procedures in the illicit tracking procedures document created for section 4.2.3.2.4/5. The citizen response procedures in the illicit tracking procedures document will:

- a. Develop a written spill/dumping response procedure for responding to public notices of illicit discharges, the various responsible agencies and their contacts, and who would be involved in illicit discharge incidence response.
- b. Include procedures for inspections in response to complaints and follow-up inspections as needed to ensure that corrective measures have been implemented by the responsible party to achieve and maintain compliance.

4.2.3.2.9 Employee Training:

Lancaster County will implement a training program for appropriate municipal staff, which, 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 system. This BMP will be implemented through training for Pollution Prevention in Section 4.2.6.5

4.2.3.2 BMP Implementation

In order to meet the requirements of Minimum Measure #3, Lancaster County has listed BMP's that focus on the detection and elimination of illicit discharges into the SMS4. Evaluation of the success of this minimum measure will be based on the level of implementation of the BMP's included in this minimum measure. The responsibility for implementation of this minimum measure is described with each BMP procedure. The following sections describe the components of the County's Illicit Discharge Detection and Elimination (IDDE) program.

Table 10: Best Management Practices – Minimum Measure #3

IDDE BMPS						
Develop System Map	Not Started:		In Progress:	✓	Completed:	
	Section: 4.2.3.2.1					
Milestone(s)	Schedule/Deadline	Frequency		Responsible Party		
Create storm sewer maps indicating the location of outfalls and names and locations of waters of the U.S. that receive discharges from those outfalls.	Ongoing	As Needed		Lancaster County Public Works		
Measurable Goal:						
Create storm sewer map						
Identify Priority Areas	Not Started:		In Progress:	✓	Completed:	
	Section: 4.2.3.2.2					
Milestone(s)	Schedule/Deadline	Frequency		Responsible Party		
Create a map identifying illicit discharge priority areas based on an identification of areas with a higher likelihood of illicit connections. The map will be updated annually.	30-Jun-16 1-Jul-17	Annually		Lancaster County Public Works		
Measurable Goal:						
Map indicating limits of dry weather screening						
Identify Screening Points	Not Started:	✓	In Progress:		Completed:	
	Section: 4.2.3.2.3a					
Milestone(s)	Schedule/Deadline	Frequency		Responsible Party		
Identify field screening points within the priority area. Include a schedule for conducting the screening.	30-Jul-16 1-Jul-17	Annually		Lancaster County Public Works		
Measurable Goal:						
List of field screening points.						
Schedule for dry weather field screening.						

Conduct Field Screening	Not Started:		In Progress:	✓	Completed:	
	Section: 4.2.3.2.3b					
Milestone(s)	Schedule/Deadline		Frequency		Responsible Party	
Conduct dry weather flow screening at outfalls in the priority area and at known dry weather discharges.	30-Dec-16 1-Jul-17		Annually		Lancaster County Public Works	
Measurable Goal:						
Locate potential illicit discharges in the priority area						
Develop Illicit Tracking Procedure	Not Started:		In Progress:	✓	Completed:	
	Section: 4.2.3.2.4/5/8					
Milestone(s)	Schedule/Deadline		Frequency		Responsible Party	
Lancaster County will develop procedures for tracking illicit discharges. The illicit tracking procedures will include minimum investigation requirements in section 4.2.3.2.5. In addition, the illicit tracking procedures will include requirements for responding to public reported activities. (section 4.2.3.2.8.a/b)	30-Dec-16 1-Jul-17		Once During Permit Term		Lancaster County Public Works	
Measurable Goal:						
Develop tracking procedures						
Conduct Illicit Tracking/Determine Source of Illicit Discharge	Not Started:		In Progress:	✓	Completed:	
	Section: 4.2.3.2.4/5					
Milestone(s)	Schedule/Deadline		Frequency		Responsible Party	
Lancaster County will conduct illicit tracking at outfalls identified as potential illicit discharges by the field screening effort.	Ongoing		As Needed		Lancaster County Public Works	
Measurable Goal:						
List sources of potential illicit discharges based on field screening						

Eliminate Illicit Discharges	Not Started:		In Progress:	✓	Completed:	
	Section: 4.2.3.2.7					
Milestone(s)	Schedule/Deadline	Frequency		Responsible Party		
Once the source of an illicit discharge has been determined, the County will follow procedures (a-e) of section 4.2.3.2.7 of the permit to eliminate the illicit discharge	Ongoing	As Needed		Lancaster County Public Works		
Measurable Goal:						
Document elimination of illicit discharges						
Document Illicit Discharge Investigations	Not Started:		In Progress:	✓	Completed:	
	Section: 4.2.3.2.5/6					
Milestone(s)	Schedule/Deadline	Frequency		Responsible Party		
The County will document illicit discharge tracking and elimination activities as required by the permit.	Ongoing	As Needed		Lancaster County Public Works		
Measurable Goal:						
Document tracking and elimination activities						
Field Screening Assessment	Not Started:		In Progress:	✓	Completed:	
	Section: 4.2.3.2.3b					
Milestone(s)	Schedule/Deadline	Frequency		Responsible Party		
Assess the effectiveness of the Field Screening program by the end of permit year 3.	30-Dec-18 1-Sep-17	Once During Permit Term		Lancaster County Public Works		
Measurable Goal:						
Assessment summary of the effectiveness of the field screening program						

Employee Training	Not Started:		In Progress:	✓	Completed:	
	Section: 4.2.3.2.9					
Milestone(s)	Schedule/Deadline		Frequency	Responsible Party		
Lancaster County will implement a training program for appropriate municipal field staff.	30-Dec-16 1-Jul-17		Annually	Lancaster County Public Works		
Measurable Goal:						
Provide IDDE training to field staff						

4.2.4 Construction Site Stormwater Runoff Control (Minimum Measure #4)

4.2.4.1 Permit Requirements

The permittee shall develop, implement and enforce a Construction Site Stormwater Runoff Control program by developing and implementing BMPs in order to meet the SMS4 general permit requirements within 18 months from the effective date of permit coverage. The County will adopt required ordinances, design requirements and Stormwater Pollution Prevention Plan (SWPPP) review requirements for implementing the program. Site inspection procedures will be adopted to conform to the SMS4 general permit requirements, and an enforcement response plan will be developed to determine how the County will use specific types of responses to address various types of violations. In addition, the County will develop a communication process with construction operators to educate them about areas in which improvements are needed.

Table 11: Minimum Measure #4 Permit Requirements

4.2.4.4.1 Regulatory Requirement for Erosion And Sediment Controls:
Lancaster County will develop a sediment and erosion control ordinance within 18 months of the effective date of coverage.
4.2.4.4.2 Requirements for Erosion and Sediment Controls and Soil Stabilization Practices:
Lancaster County will provide requirements for construction site operators to implement appropriate BMPs such as erosion and sediment controls and soil stabilization practices in the "Performance Standards" section of the ordinance.

4.2.4.4.3 Requirements for Pollution Prevention Measures:

The Lancaster County Stormwater Ordinance will include requirements for the design, installation and maintenance of effective pollution prevention measures for construction site operators to:

- a. Minimize the discharge of pollutants from equipment and vehicle washing, wheel wash water and other wash waters. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.
- b. Minimize the exposure of building materials, building products, construction wastes, trash, landscape materials, fertilizers, pesticides, herbicides, detergents, sanitary waste and other materials present on site to precipitation and to stormwater runoff that may cause adverse impacts to water quality.
- c. Minimize the discharge of pollutants from spills and leaks and implement chemical spill and leak prevention and response procedures.
- d. The following discharges from sites are prohibited:
 - i. Wastewater from washout of concrete, unless managed by an appropriate control;
 - ii. Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials;
 - iii. Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance; and,
 - iv. Soaps or solvents used in vehicle and equipment washing.

4.2.4.4.4 Requirements for Stormwater Pollution Prevention Plans (SWPPP):

Lancaster County's Stormwater Permit Process will require a SWPPP for land disturbances of 1 acre or more or land disturbances less than 1 acre that are part of a larger common plan.

4.2.4.5 Review of SWPPP:

Lancaster County's review procedures will at a minimum meet the following:

- a. Make a clear statement that a SWPPP must be prepared before construction begins.
- b. Lancaster County will adopt appropriate technical criteria in the Stormwater Ordinance to be in compliance with the effective NPDES General Permit for Stormwater Discharges from Construction Activities, SCR100000.
- c. Lancaster County will include a statement in the Stormwater Ordinance that SWPPP submittals must include the rationale used for selecting control measures, including how the control measure protects a waterway or stormwater conveyance.
- d. Lancaster County will use qualified individuals, knowledgeable in the technical review of SWPPPs, to conduct reviews.
- e. Lancaster County will document the review of each SWPPP plan using a checklist.
- f. Lancaster County will develop procedures for SWPPP review including the review of pre-construction site plans, for construction activity that discharge pollutant(s) of concern to TMDL waters and to waters on the 303(d) List of Impaired Waters, the SWPPP must identify potential water quality impacts the permitted discharges may have. The SWPPP shall limit sediment discharges to the MEP, shall protect water quality. Procedures for SWPPP review:
 - i. Incorporate consideration of potential water quality impacts;
 - ii. Include the review of construction site plans;
 - iii. For construction projects that disturb less than 25 acres, carefully evaluate selected BMPs and their ability to control the pollutant(s) of concern;
 - iv. For construction projects that disturb 25 acres or more, require a written quantitative and qualitative assessment showing that the selected BMP will control the discharge of the pollutant, or pollutants, of concern from construction and post construction site within a TMDL watershed, or to a water on the 303(d) List of Impaired Waters; and,
 - v. Require that the SWPPP is prepared by construction activity applicants for SMS4 review and approval must demonstrate that stormwater discharges will neither cause nor contribute to a violation of water quality standards.

4.2.4.6 Site Inspections:

- a. Lancaster County will maintain an inventory of permitted site work. The inventory will be continuously updated as new projects are permitted and projects are completed. The inventory will be edited to contain relevant contact information for each project (e.g., name, address, phone, etc.), the size of the project and area of disturbance. The County will make the inventory available to SCDHEC upon request. As part of this inventory,
 - i. Lancaster County will track the number of inspections for the inventoried construction sites throughout the reporting period to verify that the sites are inspected at the minimum frequencies required; and,
 - ii. Document inspections and enforcement activities for each site in the inventory.

- b. The County will implement procedures for inspecting construction projects in accordance with the frequency listed in the SMS4 general permit.
- c. The County will observe construction. At a minimum, inspections will occur following installation of initial BMPs, during active construction, and after final site stabilization.
- d. The County will have trained and qualified inspectors. The County will also continue to follow, and revise as necessary, written procedures outlining the inspection and enforcement procedures.

Inspections of construction sites will, at a minimum:

- i. Check for coverage under SCR100000 by requesting a copy of application or Notice of Intent (NOI), the stamped approved stormwater pollution prevention plan or other relevant application form during initial inspections.
- ii. Review the applicable stormwater pollution prevention plan and conduct a thorough site inspection to determine if control measures have been selected, installed, implemented, and maintained according to the plan.
- iii. Assess compliance with County's ordinances and permits related to stormwater runoff, including the implementation and maintenance of designated minimum control measures.
- iv. Assess the effectiveness of control measures.
- v. Visually observe and record non-stormwater discharges, potential illicit connections, and potential discharge of pollutants in stormwater runoff.
- vi. Prepare a written or electronic inspection report generated from findings in the field.

4.2.4.7 Enforcement Response Plan (ERP):

Lancaster County will develop an Enforcement Response Plan (ERP). The ERP will contain descriptions of how The County will use specific types of responses to address various types of violations. The ERP will include, but is not limited to:

- a. Types of response:
 - i. Verbal warnings;
 - ii. Written notices; and,
 - iii. Escalated enforcement measures such as citations, fines, stop work orders, etc.
- b. Specific strategies for enforcement response, where necessary, to address persistent, repeat or escalating violations.
- c. Ensure ERP is reasonably effective in reducing pollutant discharges to the MEP and to protect water quality.

4.2.4.8 MS4 Staff Training:

Lancaster County will ensure that staff, whose primary job duties are related to implementing the construction stormwater program, including permitting, plan review, construction site inspections, and enforcement, is trained to conduct these activities.

4.2.4.9 Construction Site Operator and Public Involvement:
4.2.4.9.a Construction Operator Education:
Lancaster County will develop construction operator education as described in MCM#1. A brochure or informational packet will be developed for commercial/multifamily construction operators.
4.2.4.9.b Public Involvement:
Lancaster County will consider public responses for program modifications through public education and outreach programs.

4.2.4.2 BMP Implementation

In order to meet the requirements of Minimum Measure #4, Lancaster County has listed BMP's that focus on the reduction of pollutants in stormwater runoff to the SMS4 from construction activities that result from a land disturbance of greater than or equal to one acre or land disturbances less than one acre that are part of a larger common plan. The County will continue and improve existing BMPs that provide assistance and ensure compliance through routine inspections. Evaluation of the success of this minimum measure will be through careful analysis of the measurable goals for each BMP included in this minimum measure. Measurable goals for each BMP were selected by formulating attainable goals for the various BMP implementation steps or tasks. The following sections describe the components of the Lancaster County's construction site stormwater runoff control program:

Table 12: Best Management Practices – Minimum Measure #4

CONSTRUCTION RUNOFF BMPS				
Develop and Adopt Stormwater Ordinance	Not Started:		In Progress:	✓
	Section: 4.2.4.4.1/2/3			
Milestone(s)	Schedule/Deadline	Frequency	Responsible Party	
Adopt a stormwater ordinance to require sediment and erosion controls, as well as sanctions to ensure compliance meeting the requirements of the SMS4 NPDES permit.	30-Jun-17 1-Jan-18	Once During Permit Term	Lancaster County Council	
Measurable Goal:				
Ordinance and regulations adopted by County Council				

Plan Review	Not Started:		In Progress:	✓	Completed:	
	Section: 4.2.4.5					
Milestone(s)	Schedule/Deadline	Frequency		Responsible Party		
Implement site plan review procedures meeting the minimum requirements of the SMS4 NPDES permit.	30-Jun-17 1-Jan-18	Once During Permit Term		Lancaster County Public Works		
Measurable Goal:						
Written procedures/checklists for plan review and permitting						
Construction Site/Inspection Inventory	Not Started:		In Progress:	✓	Completed:	
	Section: 4.2.4.6					
Milestone(s)	Schedule/Deadline	Frequency		Responsible Party		
Lancaster County will develop an inventory system for permitted site work. The inventory will be edited to include information for: <ul style="list-style-type: none">• Relevant contact information;• The size of the project;• Area of disturbance;• Number of inspections by Lancaster County for each construction site; and,• Inspection results and enforcement actions.	Ongoing	Annually		Lancaster County Public Works		
Measurable Goal:						
Create database for tracking site/inspection information						

ERP For Construction Activities	Not Started:		In Progress:	✓	Completed:	
	Section: 4.2.4.7					
Milestone(s)	Schedule/Deadline		Frequency		Responsible Party	
Develop enforcement responses for permit violations, SWPPP violations, and EPSC BMP installation, operation, and maintenance violations.	30-Jun-17 1-Jan-18		Once During Permit Term		Lancaster County Public Works	
Measurable Goal:						
Develop ERP for construction activities						
SMS4 Staff Training	Not Started:		In Progress:	✓	Completed:	
	Section: 4.2.4.8					
Milestone(s)	Schedule/Deadline		Frequency		Responsible Party	
Lancaster County will send staff responsible for construction site inspections to SCDHEC sponsored CEPSCI training.	30-Jun-17 1-Jan-18		Once During Permit Term		Lancaster County Public Works	
Measurable Goal:						
Staff responsible for inspections CEPSCI certified						
Construction Operator Training/Education	Not Started:	✓	In Progress:		Completed:	
	Section: 4.2.4.9					
Milestone(s)	Schedule/Deadline		Frequency		Responsible Party	
Lancaster County will develop informational packets targeted to reach both commercial and residential construction operators.	Ongoing		Annually		Lancaster County Public Works	
Measurable Goal:						
Develop information packet for contractors						

4.2.5 Post Construction Stormwater Management (Minimum Measure #5)

4.2.5.1 Permit Requirements

Permittees shall implement a program to control stormwater discharges from new development and redeveloped sites that disturb at least one acre (including projects that disturb less than one acre that are

part of a larger common plan of development or sale). The post construction stormwater management program will be designed to give Lancaster County the authority to require structural and non-structural stormwater quality BMP’s on sites being developed. The County will provide design requirements to control stormwater discharges from new development and redeveloped sites and will establish performance standards for addressing the first inch of runoff. The County will improve the post construction program by ensuring post construction BMP’s are inspected and maintained.

Table 13: Minimum Measure #5 Permit Requirements

4.2.5.1 Post-Construction Stormwater Management Program:
Lancaster County will provide design requirements to control stormwater discharges from new development and redeveloped sites in the Stormwater Ordinance. The County will require an “Erosion and Sediment Control Permit” for any development which disturbs 10,000 square feet or more. The County will require a “Minor Stormwater Permit” with applicable design requirements for sites that disturb between 1-2 acres. The County will require a “Major Stormwater Permit” with applicable design requirements for sites that disturb greater than 2 acres.
4.2.5.2 Site Performance Standards:
Lancaster County will establish post construction site performance standards to address the first inch of runoff. Site performance standards for addressing the first inch of runoff will be located in the Stormwater Ordinance section “Performance Standards”. Lancaster County may develop additional site performance standards during the permit term. The Stormwater Ordinance will be updated to include newly established performance standards.
4.2.5.3 Site Plan Review:
Site performance standards for requirements to address the first inch of runoff will be included in the County’s plan review checklist. Plan review for site performance standards developed during the permit term will be added to the plan review checklist.
4.2.5.4 Long-Term Maintenance of Post-Construction Stormwater Control Measures:
Structural stormwater control measures installed and implemented to meet the site performance standards will be maintained in perpetuity. The County will ensure the long-term maintenance of structural stormwater control measures installed based on the requirements within the stormwater ordinance. The County will require stormwater control measures to be maintained in perpetuity by requiring property owners to sign a Permanent Stormwater Facility Maintenance and Responsibility Agreement forms.

4.2.5.5 Inventory of Post-Construction Stormwater Control Measures:
Lancaster County will maintain an inventory of post-construction structural stormwater control measures installed and implemented at new development and redeveloped sites, including both County permitted public and private sector sites located within the permit area. At a minimum, the inventory will contain BMP constructed since the effective date starting with the effective date of this permit.
4.2.5.6 Inspections And Enforcement:
4.2.5.6.1 Inspection Procedures:
To ensure that stormwater control measures are operating correctly and are being maintained as required consistent with its applicable maintenance agreement, Lancaster County will conduct inspections of each project site covered under the performance standards listed in the Stormwater Ordinance, at least one time during the permit term. A description of inspection procedures will be added to the SWMP once developed.
4.2.5.6.2 Post-Construction Notification:
Within 30 days of completion of construction of project required to meet the performance standards, Lancaster County will conduct a post construction inspection to verify that BMP's have been installed as per approved plans. The SCDHEC Notice of Termination form will serve as notification to the County of construction completion.
4.2.5.6.3 Inspection Reports:
Lancaster County will document its inspection findings in an inspection report. The County will document and maintain records of inspection findings and enforcement actions and make them available for review by the permitting authority.

4.2.5.2 BMP Implementation

Evaluation of the success of this minimum measure will be through careful analysis of the Measurable Goals for each BMP included in this minimum measure. Measurable Goals for each BMP were selected by formulating attainable goals for the various BMP implementation steps or tasks. The following sections describe the components of Lancaster County's Post-Construction stormwater management program:

Table 14: Best Management Practices – Minimum Measure #5

POST CONSTRUCTION RUNOFF BMPS						
Post-Construction Stormwater Management Program	Not Started:		In Progress:	✓	Completed:	
	Section: 4.2.5.1					
Milestone(s)	Schedule/Deadline		Frequency		Responsible Party	
Adopt an ordinance and other regulatory mechanism to prevent or minimize water quality impacts to the MEP.	30-Jun-17 1-Jan-18		Once During Permit Term		Lancaster County Council	
Measurable Goal:						
Ordinance and regulations adopted by County Council						
Site Performance Standards	Not Started:		In Progress:	✓	Completed:	
	Section: 4.2.5.2					
Milestone(s)	Schedule/Deadline		Frequency		Responsible Party	
Develop and implement site performance standards for permanent water quality BMP's to attenuate post development runoff and to treat the first 1" of rainfall.	30-Jun-17 1-Jan-18		Once During Permit Term		Lancaster County Public Works/Council	
Measurable Goal:						
Ordinance and regulations adopted by County Council						

Site Plan Review	Not Started:		In Progress:	✓	Completed:	
	Section: 4.2.5.3					
Milestone(s)	Schedule/Deadline		Frequency		Responsible Party	
Implement site plan review procedures meeting the minimum requirements of the SMS4 NPDES permit.	30-Jun-17 1-Jan-18		Once During Permit Term		Lancaster County Public Works	
Measurable Goal:						
Written procedures/checklists for plan review and permitting						
Long Term Maintenance of BMPS	Not Started:		In Progress:	✓	Completed:	
	Section: 4.2.5.4					
Milestone(s)	Schedule/Deadline		Frequency		Responsible Party	
Develop ownership and maintenance program for operators of permanent BMP's to ensure perpetual maintenance. Include provisions in the stormwater ordinance for requirements and enforcement.	30-Jun-17 1-Jan-18		Once During Permit Term		Lancaster County Public Works	
Measurable Goal:						
Create legally binding permanent maintenance documents						
Post Construction BMP Inventory	Not Started:		In Progress:	✓	Completed:	
	Section: 4.2.5.5					
Milestone(s)	Schedule/Deadline		Frequency		Responsible Party	
Develop data base for tracking post construction BMP's to include regular inspections with status of controls.	30-Jun-17 1-Jan-18		Once During Permit Term		Lancaster County Public Works	
Measurable Goal:						
Development and implementation of data base						

Post Construction BMP Inspections	Not Started:		In Progress:	✓	Completed:	
	Section: 4.2.5.6					
Milestone(s)	Schedule/Deadline		Frequency	Responsible Party		
Develop procedures and forms for post construction BMP installation inspections. Develop procedures and forms for post construction BMP maintenance inspections.	30-Jun-17 1-Jan-18		Once During Permit Term	Lancaster County Public Works		
Measurable Goal:						
Development of procedures for post construction BMP inspections						

4.2.6 Pollution Prevention/Good House Keeping (Minimum Measure #6)

4.2.6.1 Permit Requirements

Permittees shall 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 as an integral part of the SWMP. In order to meet the requirements of Minimum Measure #6, Lancaster County will implement a range of BMP's targeted to reduce pollutants from County owned facilities and storm sewer systems within the regulated area. An inventory of major municipal facilities will be developed, and each facility will be assessed for the potential pollutant discharges. Based on the assessment, a list of high priority facilities will be developed, and annual inspections will be conducted at the high priority facilities. The County will prioritize their owned and/or operated stormwater management systems and implement a maintenance schedule. County owned structural controls (stormwater BMP's) will be inspected and maintained. In addition, the County will develop a set of pollution prevention measures for operation and maintenance activities. The County will provide training to appropriate employees to ensure pollution prevention and good housekeeping activities are practiced.

Table 15: Minimum Measure #6 Permit Requirement

4.2.6.1 Development of A Municipal Facility And Stormwater Control Inventory:
<p>Lancaster County will prepare and maintain an inventory of significant County-owned stormwater controls within the SMS4 that are not covered under a separate general or individual NPDES permit (i.e. industrial, solid waste, etc.).</p> <p>The County will also include a list of industrial facilities owned or operated by the County within the SMS4 that are subject to SCDHEC NPDES General Permit for Stormwater Discharges associated with Industrial Activity (SCR000000) or individual NPDES permits for discharges of stormwater associated with industrial activity that ultimately discharge to the County's SMS4. The SCDHEC permit number or a copy of the Industrial NOI form for each facility will be included.</p>
4.2.6.2 Municipally-Owned or Operated Facility Assessment:
4.2.6.2.1 Comprehensive Assessment of Pollutant Discharge Potential:
<p>Lancaster County will develop an assessment of County-owned or operated facilities identified in Part 4.2.6.1 at least once during the permit term and include it in the permit reapplication for their potential to discharge pollutants in stormwater.</p>
4.2.6.2.2 Identification of High Priority Facilities:
<p>Lancaster County will identify "high-priority" facilities that have a high potential to generate stormwater pollutants.</p>
4.2.6.2.3 Documentation of Comprehensive Assessment Results:
<p>Lancaster will document the results of the assessments and maintain copies of site evaluation checklists used to conduct the comprehensive assessment. The documentation will include the results of The County's initial assessment, identified deficiencies and corrective actions taken.</p>
4.2.6.3 Annual Comprehensive Inspections of High Priority Facilities:
<p>Starting no later than 24 months from the effective date of coverage and at least once per year thereafter, a comprehensive inspection of "high priority" facilities (Part 4.2.6.2.2), including stormwater controls, be performed by Lancaster County. Specific attention will be given to waste storage areas, dumpsters, vehicle and equipment maintenance/fueling areas, material handling areas, and similar potential pollutant-generating areas. The yearly inspection results will be documented and records will be maintained by the County. The inspection report will also include identified deficiencies and the corrective actions taken to fix the deficiencies.</p>
4.2.6.4 Storm Sewer System Maintenance Activities – MS4 Maintenance:
4.2.6.4.1 Assessment/Prioritization of SMS4 Stormwater Management Systems/Structures:
<p>Lancaster County will prioritize their owned and /or operated stormwater management systems / structures and implement a maintenance schedule.</p>

4.2.6.4.2 Municipal Activities and Operation:
Lancaster County will develop a set of pollution prevention measures that, when applied during municipal O&M activities, will reduce the discharge of pollutants in stormwater. Municipal operation and maintenance activities to be considered include but are not limited to; pavement and rights-of-way maintenance, bridge maintenance, cold weather operations, and municipally sponsored events.
4.2.6.4.3 Maintenance of Municipally-Owned and/or Maintained Structural Stormwater Controls:
Lancaster County will inspect and maintain, wherever and whenever necessary, County-owned or maintained structural stormwater controls.
4.2.6.5 Employee Training and Education Requirements:
Lancaster County will develop an periodic employee training program for appropriate employees involved in implementing pollution prevention and good housekeeping practices. This training will include a general stormwater education component, new technologies, operations, or responsibilities that arise during the year and the SMS4 general permit requirements that apply to the staff being trained. A description of how the program will be maintained for review by the permitting authority. The County will also identify and track personnel requiring and receiving training. Records must be maintained. Training will begin within the first year from the effective date of permit authorization.
4.2.6.6 Requirements for Contractor Oversight:
Contractors hired by Lancaster County to perform municipal maintenance activities will be contractually required to comply with the County's stormwater control measures, good housekeeping practices, and facility-specific stormwater management procedures.
The County will provide oversight of contractor activities to ensure that contractors are using appropriate control measures and procedures.

4.2.6.2 BMP Implementation

Evaluation of the success of this minimum measure will be through careful analysis of the measurable goals for each BMP included in this minimum measure. The following sections describe the components of the County's pollution prevention/good housekeeping for municipal operations program:

Table 16: Best Management Practices – Minimum Measure #6

POLLUTION PREVENTION/GOOD HOUSEKEEPING BMPS					
Operation and Maintenance Program	Not Started:		In Progress:	✓	Completed:
	Section: 4.2.6.1				
Milestone(s)	Schedule/Deadline		Frequency		Responsible Party
Develop municipal facility and stormwater control inventory. Include municipal facilities that are covered under separate NPDES permits.	30-Dec-17 1-Jan-18		Once During Permit Term		Lancaster County Public Works
Measurable Goal:					
List of facilities municipally owned and or operated within the SMS4					
Municipal Facility Assessment	Not Started:	✓	In Progress:		Completed:
	Section: 4.2.6.2				
Milestone(s)	Schedule/Deadline		Frequency		Responsible Party
Create an evaluation checklist that will be used to conduct the comprehensive assessment. Conduct assessment based on type of facility/use, locations to waterbody, BMPs to rank facilities, and other factors. Based on the results of the assessment, identify high priority facilities and document results.	30-Dec-17 31-Dec-18		Once During Permit Term		Lancaster County Public Works
Measurable Goal:					
Evaluation checklist for facility assessment					
Identify high priority facilities					
Documentation of results					

Conduct High Priority Facility Inspections	Not Started:	<input checked="" type="checkbox"/>	In Progress:		Completed:	
	Section: 4.2.6.3					
Milestone(s)	Schedule/Deadline	Frequency		Responsible Party		
Create a high priority facility inspection report template with sections for identified deficiencies and corrective action taken for each site inspection. Conduct annual high priority facility site inspections. Document inspection results.	30-Dec-17 31-Dec-18	Once During Permit Term		Lancaster County Public Works		
Measurable Goal:						
High priority facility inspection form						
Conduct annual inspections						
Document annual inspections						
Storm Sewer System Maintenance Activities	Not Started:	<input checked="" type="checkbox"/>	In Progress:		Completed:	
	Section: 4.2.6.4					
Milestone(s)	Schedule/Deadline	Frequency		Responsible Party		
Prioritize stormwater management systems / structures. Implement a maintenance schedule for stormwater management systems/structures. Develop written set of pollution prevention measures for municipal operation and maintenance activities. Create a structural control inspection and maintenance form. Conduct inspections for County owned structural controls. Perform necessary maintenance.	30-Dec-17 31-Dec-18	Once During Permit Term		Lancaster County Public Works		
Measurable Goal:						
Structural control inspection and maintenance form						
Conduct inspections of County owned structural controls						
Conduct maintenance of County owned structural controls						
Document inspection and maintenance.						

Employee Training and Education	Not Started:	In Progress:	✓	Completed:
	Section: 4.2.6.5			
Milestone(s)	Schedule/Deadline	Frequency	Responsible Party	
Develop an annual employee training program for employees involved in pollution prevention and good housekeeping practices. Provide training annually.	30-Dec-17 31-Dec-18	Once During Permit Term	Lancaster County Public Works	
Measurable Goal:				
Written pollution prevention employee training program				

4.5 Reviewing and Updating Stormwater Management Plans

This SWMP is a living document and will be updated and revised throughout the permit term. In accordance with Section 4.5.2 of the SMS4 general permit, additions (but not subtracting or replacing components) to the SWMP may be made at any time with a written notification made to SCDHEC.

Changes intended to replace an ineffective or unfeasible BMP with an alternate BMP may be requested and submitted in written form to SCDHEC at any time. Unless denied by SCDHEC, changes proposed in accordance with the criteria below will be deemed approved and may be implemented 60 days from submittal of the request. If request is denied, SCDHEC will send Lancaster County a written response giving a reason for the decision. The modification requests must include the following:

- An analysis of why the BMP is ineffective or infeasible (including cost prohibitive);
- Expectations on the effectiveness of the replacement BMP; and,
- An analysis of why the replacement BMP is expected to achieve the goals of the BMP to be replaced.

Additionally, SCDHEC may request the County to make changes to the SWMP at any time to:

- Address documented impacts on receiving water quality caused, or contributed to, by discharges from the SMS4;
- Include more stringent requirements necessary to comply with new Federal statutory or regulatory requirements; or,
- Include such other conditions deemed necessary by the Department to comply with the goals and requirements of the Clean Water Act;
- Changes requested by SCDHEC must be made in writing, set forth the time schedule for the County to develop the changes, and offer the County the opportunity to propose alternative plan changes to meet the objective of the requested modification. Changes required by SCDHEC will be made in accordance with South Carolina Water Pollution Control Permits Regulation 61-9 124.5, 122.62, or as appropriate 122.63.

5.0 Monitoring, Record Keeping, and Reporting

Unless DHEC requires more frequent reports, reports will be submitted based on the following schedule:

1. The first annual report must be submitted to the permitting authority fourteen (14) months after the effective date of permit coverage.
2. Subsequent annual reports shall be submitted every twelve months for the scheduled date of the first submittal.
3. The last annual report shall be submitted, as part of re-notification, 180 days prior to expiration date of the permit.
4. While, and if the expired permit is continued, reports are due every year on the anniversary date of the expired permit.

All reports shall be sent to the address below unless the Department instructs permittees to submit via alternate mechanisms (i.e. electronic mechanisms):

SCDHEC Bureau of Water
Water Pollution Compliance & Enforcement
2600 Bull Street
Columbia, SC 29201-1708

All reports will include:

- The status of the County's compliance with permit conditions, an assessment of the appropriateness of the identified BMP's under Part 4, progress towards achieving the statutory goal of reducing the discharge of pollutants to the MEP, and the measurable goals for each of the minimum control measures;
- Results of information collected and analyzed, if any, during the reporting period, including monitoring data used to assess the success of the plan at reducing the discharge of pollutants to the MEP;
- A summary of the stormwater activities the County plans to undertake during the next reporting cycle (including an implementation schedule);
- Proposed changes to the County's SWMP, including changes to any BMP or any identified measurable goals that apply to the program elements; and,
- Notice that the County is relying on another entity to satisfy some of the County's permit obligations (if applicable);