

NPDES PHASE II STORM WATER PERMIT APPLICATION

1.0 Introduction

The following sections address the permit application requirements of the National Pollutant Discharge Elimination System (NPDES) Phase II Storm Water Program for Discharges from Small Municipal Separate Storm Sewer Systems (SMS4) in South Carolina.

Per the South Carolina Department of Health and Environmental Control (SC DHEC) memorandum dated February 10, 2003, Dorchester County (County) reserves the right to apply for coverage under a general permit should the State of South Carolina develop such a permit and provided that the terms of the General Permit are in keeping with the goals and needs of the County. In accordance with SC DHEC's General Permit effective March 1, 2006, it is the intention of the County to be covered under the State of South Carolina's NPDES General Permit for Storm Water Discharges from Regulated Small Municipal Separate Storm Sewer Systems (SMS4s).

2.0 Application Requirements

The following information constitutes the County's application for a general permit under the NPDES Phase II Storm Water program. The information provided in the table on pages 2 and 3 is requested in Section 122.21 (f) of South Carolina Regulation 61-9 and on Environmental Protection Agency Form 3510 -1.

Application Requirement	Description
Name of Municipality:	Dorchester County
Mailing Address:	Contact Name Contact Name Position Dorchester County Street Address City, State Zip Code
Telephone Number:	Telephone Number of Contact Name
Public Entity Type:	County
Map of urbanized area, coverage area and the County limits: MS4 Location: Dorchester County Coordinates: Latitude: N33° 25' Longitude: W79° 18'	See Figure 1
Major Receiving Waters:	Ashley River, Hurricane Branch, Platt Branch, Rumphs Hill Creek, Sawpit Creek, Dorchester Creek

Comment [PB1]: Awaiting GIS

(Continued)

Application Requirement	Description
Indian Lands:	No portion of Dorchester County's SMS4 is located on Indian Country Lands.
Other Governmental Entities:	<p>Ashley Cooper Stormwater Education Consortium (ACSWEC): Responsible for coordinating the ARSEC regional storm water education providers in a programmatic framework to meet both the public education and outreach and public participation/involvement components of the NPDES program.</p> <p>Clemson University Cooperative Extension Service: Responsible for developing and implementing Carolina Clear to meet both the public education and outreach and public participation/involvement components of the NPDES program. Clemson University Cooperative Extension Service is a storm water education provider to ARSEC.</p>
BMPs:	See Section 4.0 – Storm Water Management Plan.

Comment [PB2]: Verify

Comment [PB3]: Verify name with Cal Sawyer.

4.0 Storm Water Management Plan

4.1 Requirements of the NPDES Phase II Program

The County, which is an owner/operator of an SMS4, is required to develop, implement, and enforce a storm water management program designed to reduce discharges to the “maximum extent practicable” to protect water quality. At a minimum, the County is required to implement a Storm Water Management Plan (SWMP) that addresses the following issues:

- The best management practices (BMPs) that will be implemented for each of the storm water minimum control measures,
- The measurable goals for each of the BMPs,
- A schedule for implementation of each minimum measure, including interim milestones and the frequency of the action to be undertaken, and
- The party or parties responsible for implementing or coordinating the BMPs for the SWMP.

The SWMP described above is to be fully developed and implemented by the expiration date of the permit accordance with the terms of the permit. The County may find during the implementation process that certain BMPs are not feasible or may not meet the overall goals of the program. In such cases, the County shall develop alternative BMPs for submittal to the SC DHEC for review and approval with the

annual report. Adjustments to the proposed BMP schedules shall also be submitted with the annual report.

4.2 Minimum Control Measures

The following sections describe the minimum control measures included in the County's SWMP.

The schedule identified in the following tables refers to months from issuance of the permit until the date of full implementation of the milestone. The overall responsibility for implementing these minimum control measures resides with the Dorchester County Implementing Department. The Implementing Department is staffed with a **Director and County Engineer** who will manage the implementation or coordination of these measures.

Comment [PB4]: Responsible personnel

4.2.1.1 Public Education and Outreach

The County is required to implement a public education and outreach program to distribute educational materials or conduct equivalent outreach activities about the impacts of storm water discharges on water bodies and the steps that the public can take to reduce pollutants in storm water runoff. The County is participating as a founding member in the development of the Ashley Cooper Storm Water Education Consortium (ACSWEC). ACSWEC is to be a regional consortium of storm water education providers who include the Clemson University Cooperative Extension Service and others to be identified in the future. ACSWEC staff will serve as the coordinating agent for these storm water education providers in a program that supports and meets the minimum control measures for its contributing members. Best Management Practices are identified in the table presented in 4.2.1.3 Public Education and Outreach BMP Table and the supporting decision process for the selection of these BMPs is documented in 4.2.1.2 Decision Process.

4.2.1.3 BMP Table

PERMIT REQUIREMENTS – Public Education and Outreach	
Requirement Description	
<ul style="list-style-type: none"> Implement a public education program to distribute educational materials or conduct equivalent outreach activities about the impacts of storm water discharges on water bodies and the steps that the general public can take to reduce pollutants in storm water runoff. 	

Best Management Practice	Schedule	Frequency	Responsible Party
1 Coordinate with ACSWEC and their education providers to develop public education and outreach activities. ACSWEC will coordinate with education providers to implement the activities on behalf of the County.	In Development	Renew @ 5 yrs.	Implementing Department
Measurable Goal: Develop an agreement with ACSWEC and their education providers for the development of public education materials and outreach activities and record agreement with SC DHEC.			
2 Develop public education brochures and flyers to be distributed to targeted audiences through mailings or passed out at public events and gatherings.	In Development	On-going	ACSWEC
Measurable Goal: Distribute brochures and flyers at rate recommended and outlined by ACSWEC.			
3 Utilize ACSWEC 's website as a means of providing online storm water awareness materials. The County will promote ACSWEC's website by a hyperlink from the County's website and through printed materials	In Development	On-going	ACSWEC
Measurable Goal: Host content and track number of hits/downloads of specific materials. Refresh content every six months.			
4 Coordinate with ACSWEC to develop messages and content to be used for television and radio spots that focus on target audiences and pollutants	In Development	On-going	ACSWEC
Measurable Goal: Comply with ACSWEC recommendations for number of television and radio spots for effectiveness.			
6 Develop a plan to identify target pollutant sources that will include ACSWEC surveying, review of 303(d) list for pollutants of concern, TMDL technical reports, and general public observations.	12 months	On-going	Implementing Department/ACSWEC
Measurable Goal: Establish the list of targeted pollutants for reference to ACSWEC and education providers to assist targeting educations materials and audiences.			
7 Coordinate with ACSWEC in identifying target audiences through review of County demographics and ACSWEC survey results.	12 months	On-going	Implementing Department/ACSWEC
Measurable Goal: Establish the list of targeted audiences for reference to ACSWEC and education providers to assist targeting educations materials and audiences.			
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4.2.2.1 Public Involvement and Participation

The County is required to implement a public involvement and participation program that complies with state, and local public notice requirements. The County is participating as a founding member in the development of the Ashley Cooper Storm Water Education Consortium (ACSWEC). ACSWEC is to be a regional consortium of storm water education providers who include the Clemson University Cooperative Extension Service and others to be identified in the future. ACSWEC staff will serve as the coordinating agent for these storm water education providers in a program that supports and meets the minimum control measures for its contributing members. The County will also comply with state and Federal public notice and comment procedures where applicable. Additionally, Best Management Practices are identified in the table presented in 4.2.1.3 Public Involvement and Participation BMP Table and the supporting decision process for the selection of these BMPs is documented in 4.2.2.2 Decision Process.

4.2.2.3 BMP Table

PERMIT REQUIREMENTS – Public Involvement and Participation			
Requirement Description			
<ul style="list-style-type: none"> Comply with state and local public notice requirements when implementing a Public Involvement/Participation program. 			

Best Management Practice	Schedule	Frequency	Responsible Party
1 Coordinate with ACSWEC and their education providers to develop public involvement and participation activities. ACSWEC will coordinate with education providers to implement the activities on behalf of the County. Measurable Goal: Develop an agreement with ACSWEC and their education providers for the development of public involvement and participation activities and record agreement with SC DHEC.	In Development	Renew @ 5 yrs.	Implementing Department
2 Develop a Storm Water Advisory Committee to solicit public views on storm water management and provide comment on the direction of storm water programs. The Committee will report to the County Commission. Measurable Goal: Identify members representative of the County for the Committee and draft a charter for the Committee to observe.	12 months	Once	Implementing Department
3 Schedule and participate in quarterly meetings for the Storm Water Advisory Committee. Measurable Goal: Attend quarterly meetings and gather input for performance of the program in meeting the plan.	12 months	Quarterly	Implementing Department
4 Host public forums, located in various areas of the County, for citizens to voice their concerns about storm water issues. Hold special focus programs for targeted audiences. Measurable Goal: Host one annual forum, at a minimum, for the public to comment on ongoing program implementation and other storm water issues.	12 months	Annually	Implementing Department /ACSWEC
5 Contract with ACSWEC and their education providers to develop a program that supports public participation activities in the County. Measurable Goal: Collaborate with ACSWEC at a minimum two events for the public to participate in an activity that promotes awareness of storm water pollution or environmental stewardship. Alternate events from year to year to engage different target audiences. Increase frequency of events if participation increases.	12 months	Annually	Implementing Department /ACSWEC
6 Follow public notice procedures for all County related storm water permits as required by state and Federal requirements. Measurable Goal: Comply with these procedures 100% of the time. Document when these procedures have been used.	As necessary	As necessary	Implementing Department
7			

4.2.3.1 Illicit Discharge and Detection Process

The County is required to implement an illicit discharge detection and elimination program that fulfills several requirements. The program must 1) develop, implement, and enforce a program to detect and eliminate illicit discharges, 2) map storm water sewer system outfalls and receiving waters, 3) prohibit through legal authority any new non-storm water discharges to the storm water sewer system and receiving waters, and 4) inform public employees, businesses, and the public about the impacts of illegal discharges and improper waste disposal. The County will perform mapping of outfalls in the urbanized area. Additionally, Best Management Practices are identified in the table presented in 4.2.3.3 Illicit Discharge Detection and Elimination BMP Table and the supporting decision process for the selection of these BMPs is documented in 4.2.3.2 Decision Process.

4.2.3.3 BMP Table

PERMIT REQUIREMENTS – Illicit Discharge Detection and Elimination	
Requirement Description	
•	Develop a storm sewer system map showing the location of all outfalls and the names and location of all waters of the State that receive discharges from those outfalls.
•	Develop, implement and enforce a program to detect and eliminate illicit discharges.
•	Prohibit non-storm water discharges into your storm sewer system.
•	Develop a program to identify and address non-storm water discharges that significantly contribute pollutants to the MS4, illegal dumping.
•	Inform public employees, businesses, and the general public regarding the impacts associated with illegal discharges and the improper disposal of waste.

Best Management Practice	Schedule	Frequency	Responsible Party	
1	Review current ordinance for improvements and draft ordinance amendments to address illicit discharge detection and elimination (including sections on spills and illegal dumping)	24 months	Once	Implementing Department
Measurable Goal: Present draft ordinance to Storm Water Advisory Committee for review and initiate adoption process that will include public hearings. Adopt ordinance for implementation.				
2	Contract with ACSWEC to develop public education materials and outreach activities that specifically address the impact of illicit connections and illegal discharges on surface water quality.	12 months	Annually	Implementing Department/ACSWEC
Measurable Goal: Develop an agreement with CWSEC and their education providers for the development of public education materials and outreach activities and record agreement with SC DHEC.				
3	Develop a program for mapping major outfalls discharging receiving waters with emphasis on identifying outfalls in 303(d) listed watersheds initially.	36 months	On-going	Implementing Department
Measurable Goal: Perform outfall mapping for the Urbanized Area and report on status of the project in annual reports.				
4	Develop a program for identifying and tracking illicit discharges to the storm water sewer system and surface waters. Prioritize program with 303(d) listing information, ACSWEC survey information, and general public observations.	24 months	Once	Implementing Department
Measurable Goal: Perform illicit discharge tracking and elimination for the Urbanized Area.				
5	Develop a training program to instruct selected County employees on identifying illicit discharges while performing their primary job responsibilities to the County.	24 months	Once	Implementing Department
Measurable Goal: Identify the selected County employees who could benefit this effort and perform initial training. Train new employees as necessary and re-training existing employees every other year. Maintain 75% or greater trained rate for the initial permit period.				
6	Establish a telephone hotline for the public to report illicit discharges or illegal dumping.	24 months	Annually	Implementing Department
Measurable Goal: Document number, nature, and response time for each request to evaluate effectiveness of system in handling illicit discharges and illegal dumping. Comply with County's performance standards regarding hotline response time and service.				
7				
Measurable Goal:				

4.2.4.1 Construction Site Storm Water Runoff Control

The County is required to implement a construction site storm water runoff control program to reduce pollutants in storm water runoff that results from land disturbance activities applied to an acre or greater of land coverage. Additionally, the Office of Coastal Resource Management (OCRM) and SC DEHC require this minimum measure administered on land disturbance activities of ½ acre or greater within ½ mile of a receiving water. This program must require for qualifying activities a submittal of an erosion and sediment control plan that incorporates measures to reduce the introduction of sediment to storm water runoff. The plans are to be reviewed for consistency with regulations and impacts to water quality. Enforcement activities will require that construction site operators comply with their approved plan. Other measures must be in place to require the control of construction wastes from impact to water quality and provide for a process for receipt and consideration of information from the public. Best Management Practices are identified in the table presented in 4.2.4.3 Construction Site Storm Water Runoff Control BMP Table and the supporting decision process for the selection of these BMPs is documented in 4.2.4.2 Decision Process.

4.2.4.3 BMP Table

PERMIT REQUIREMENTS – Construction Site Storm Water Runoff Control	
Requirement Description	
•	Establish an ordinance to require erosion and sediment controls from construction activities disturbing one acre or greater or ½ acre or greater and within ½ mile of a receiving water.
•	Requirements for construction site operators to implement appropriate erosion and sediment control BMPs;
•	Requirements for construction site operators to control wastes that may cause adverse impacts to water quality;
•	Procedures for site plan review of construction plans that consider potential water quality impacts;
•	Procedures for receipt and consideration of information submitted by the public; and

Best Management Practice		Schedule	Frequency	Responsible Party
1	Develop a construction site runoff control program for implementation in the County to address storm water management for land disturbances.	September 2007	Once	Implementing Department
Measurable Goal: Draft plan review procedures, inspection procedures, public commit considerations, and enforcement measures necessary for implementing a construction site runoff control program.				
2	Review current ordinance for improvements and draft ordinance amendments to address the need for a construction site runoff control program. Address improvements to compliance, construction waste, water quality impacts to 303(d) listed waters, inspection, and receipt of public information.	24 months	Once	Implementing Department
Measurable Goal: Present draft ordinance to Storm Water Advisory Committee for review and initiate adoption process that will include public hearings. Adopt ordinance for implementation.				
3	Incorporate guidance and review measures into plan review of land disturbance plans that address the proper handling and minimization of construction waste in particular discarded building waste, concrete truck washout, chemicals, litter, and sanitary waste.	September 2007	Once	Implementing Department
Measurable Goal: Develop a checklist document to accompany the review of land disturbance plans addressing and record an executed copy for each project.				
4	Coordinate with ACSWEC to incorporate construction site runoff control program elements into public education measures with particular attention to construction waste and receipt of public comment on land disturbance projects.	12 months	On-going	Implementing Department/ACSWEC
Measurable Goal: Identify and develop a public education measures that targets the development community with the construction site runoff control message. Distribute public education measure to development community on annual basis or land disturbance project basis.				
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4.2.5.1 Post Construction Storm Water Management

The County is required to implement a post construction storm water management program to reduce pollutants in storm water runoff that results from new development and redevelopment land disturbance activities applied to an acre or greater of land coverage. Additionally, the OCRM and SC DEHC require this minimum measure administered on land disturbance activities of ½ acre or greater within ½ mile of a receiving water. This program must include a regulatory mechanism that requires qualifying new developments and redevelopments to control the impacts of storm water runoff through non-structural and structural BMPs. The program must also ensure that these BMPs are operated and maintained consistent with plans and for the life of the post construction development. Best Management Practices are identified in the table presented in 4.2.5.3 Post Construction Storm Water Management BMP Table and the supporting decision process for the selection of these BMPs is documented in 4.2.5.2 Decision Process.

4.2.5.3 BMP Table

PERMIT REQUIREMENTS – Post Construction Storm Water Management	
Requirement Description	
<ul style="list-style-type: none"> • Develop and implement a strategy consisting of a combination of both structural and non-structural BMPs; 	
<ul style="list-style-type: none"> • Create an ordinance or regulatory program that requires the use of post construction runoff controls; and 	
<ul style="list-style-type: none"> • Ensure adequate long-term operation and maintenance of the controls. 	

Best Management Practice	Schedule	Frequency	Responsible Party
1 Develop a post construction storm water management program for implementation in the County to address storm water management from development and re-development activities. Focus on specific priority areas such as 303(d) listed streams and other specific water quality needs of the County. Measurable Goal: Draft plan review procedures, inspection procedures, public commit considerations, and enforcement measures necessary for implementing a post construction storm water management program.	September 2007	Once	Implementing Department
2 Review current ordinance for improvements and draft ordinance amendments to address the needs for a post control storm water management program. Address improvements to water quality impacts to 303(d) listed waters, protection of natural resources from development, and the minimization of impervious areas. Measurable Goal: Present draft ordinance to Storm Water Advisory Committee for review and initiate adoption process that will include public hearings. Adopt ordinance for implementation.	24 months	Once	Implementing Department
3 Develop and administer a program for ensuring the long-term operation of structural BMPs by requiring annual inspection and subsequent maintenance or repair if necessary. Measurable Goal: Include in the ordinance provisions that require owners or operators to enter into a maintenance agreement and allow the County Engineer to perform annual inspections.	September 2007	On-going	Implementing Department
4 Develop content for a workshop for developers and engineers for the purpose educating them about the storm water ordinance, design standards, and other issues like Low Impact Development. Measurable Goal: Host the workshop once every two years and track the number and name of attendees. Use the information to track effectiveness of attendees in meeting regulations through the development of their storm water plan.	12 months	Biennially	Implementing Department/ACSWEC
5 Develop a strategy for reducing and controlling sources of fecal coliform contamination, such as pet waste, to storm water runoff and surface waters. Measurable Goal: Identify sources of fecal coliform contamination and develop an appropriate plan to address those sources by either targeted public educations or structural controls appropriate to the sources.	24 months	On-going	Implementing Department/ACSWEC
6			

4.2.6.1 Pollution Prevention/Good Housekeeping for Municipal Operations

The County is required to implement a pollution prevention and good housekeeping program for municipal operations. This program must include an operation and maintenance program that reduces the introduction of pollutants to storm water runoff for County facilities and activities. The program must also include a training component to instruct County personnel about the impacts of storm water runoff to surface waters as well as ways to reduce pollution sources and implement non-structural and structural control practices. Best Management Practices are identified in the table presented in 4.2.6.3 Pollution Prevention/Good Housekeeping for Municipal Operations BMP Table and the supporting decision process for the selection of these BMPs is documented in 4.2.6.2 Decision Process.

4.2.6.3 BMP Table

PERMIT REQUIREMENTS – Pollution Prevention/Good Housekeeping for Municipal Operation	
Requirement Description	
<ul style="list-style-type: none"> Develop an operation and maintenance program, including a training component, with the objective of preventing or reducing pollutant runoff from municipal operations into the County's storm sewer system. 	

Best Management Practice	Schedule	Frequency	Responsible Party
1 Develop and implement SWPPPs for municipal facilities and operations in the Urbanized Area and not included under any existing storm water coverage. SWPPPs at a minimum will include identification of source pollution, connection of facilities to MS4, and pollution prevention/treatment controls (structural and non-structural). Measurable Goal: Draft SWPPPs for all municipal facilities and operations in the Urbanized Area at a pace that ensures they all have been completed within the initial permit period.	24 months	Annually	Implementing Department
2 Coordinate training of appropriate County personnel with the identified training needs and targets established in each SWPPP. Training will be performed by County personnel. Measurable Goal: Training will be performed within six months of SWPPP development and training levels of personnel should be maintained at a percentage 75% or greater for the initial permit period.	24 months	Annually	Implementing Department
3 Develop procedures for maintenance and inspection of the MS4, removal and disposal of collected, dry MS4 waste, and incorporation of water quality goals in storm water projects. Measurable Goal: Record developed procedures with maintenance schedules. Potentially implement in a pilot approach for a targeted watershed for observation and effectiveness.	36 months	Once	Implementing Department
4 Coordinate with ACSWEC to provide a general storm water awareness training to County personnel focusing prevent and reduce storm water pollution from municipal activities, such as landscaping and grounds management, fleet and building maintenance, and MS4 maintenance. Measurable Goal: Maintain a percentage of 50% or greater of County personnel who have attended this training for the initial permit period.	12 months	Annually	Implementing Department /ACSWEC
5			