Town of Surfside Beach Stormwater Management Plan (SWMP)

Adopted October 1, 2014

Public Works Department
740 Sandy Lane
Surfside Beach, SC 29575
Telephone: (843) 913-6360

Prepared in accordance with SCDHEC MS4 Permit #SCR030000
CERTIFICATION OF STORMWATER MANAGEMENT PLAN

I certify that the Town of Surfside Beach has taken the necessary steps to obtain and maintain full legal authority to implement and enforce each of the requirements contained in the NPDES General Permit for Stormwater Discharges from Regulated Small Municipal Separate Storm Sewer Systems (MS4s), Permit Number SCR030000.

Name (Print) ____________________________________________________________________________

Title __________________________________________________________________________________

Signature _________________________________________________________________________________

Date ____________________________________________________________________________________
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</table>
### List of Acronyms and Abbreviations

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Full Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>BMP</td>
<td>Best Management Practice</td>
</tr>
<tr>
<td>CEPSCI</td>
<td>Certified Erosion Prevention and Sediment Control Inspector</td>
</tr>
<tr>
<td>ERP</td>
<td>Enforcement Response Plan</td>
</tr>
<tr>
<td>EPA</td>
<td>Environmental Protection Agency</td>
</tr>
<tr>
<td>IDDE</td>
<td>Illicit Discharge Detection and Elimination</td>
</tr>
<tr>
<td>MEP</td>
<td>Maximum Extent Practicable</td>
</tr>
<tr>
<td>MCM</td>
<td>Minimum Control Measure</td>
</tr>
<tr>
<td>MS4</td>
<td>Municipal Separate Storm System</td>
</tr>
<tr>
<td>NPDES</td>
<td>National Pollutant Discharge Elimination System</td>
</tr>
<tr>
<td>NOI</td>
<td>Notice of Intent</td>
</tr>
<tr>
<td>MS4</td>
<td>Municipal Separate Storm Sewer System</td>
</tr>
<tr>
<td>SCDHEC</td>
<td>South Carolina Department of Health and Environmental Control</td>
</tr>
<tr>
<td>SWMP</td>
<td>Stormwater Management Plan</td>
</tr>
<tr>
<td>SWPPP</td>
<td>Stormwater Pollution Prevention Plan</td>
</tr>
<tr>
<td>TMDL</td>
<td>Total Maximum Daily Load</td>
</tr>
</tbody>
</table>
The Town of Surfside Beach
Stormwater Management Plan (SWMP)

1.0 Introduction
The purpose of this Stormwater Management Plan (SWMP) is to establish the framework to assist in the reduction of the discharge of pollutants from the Town of Surfside Beach’s Municipal Separate Storm Sewer System (MS4) to the maximum extent practicable, to protect water quality and to satisfy the appropriate requirements of the National Pollutant Discharge Elimination System (NPDES) Permitting Program. This SWMP addresses the requirements of the NPDES General Permit for Discharges from Regulated Small MS4s (SCR030000), effective January 1, 2014. Language and section numbers from the MS4 Permit are contained in this SWMP for cross referencing purposes.

2.0 Notice of Intent (NOI) Information
The following information is applicable to the Town of Surfside Beach.

Table 1: NOI Information

<table>
<thead>
<tr>
<th>MS4 Permit Section</th>
<th>NOI Information</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.2.1 Information on the MS4 Permitee:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.2.1.1 Name of Municipality:</td>
<td>The Town of Surfside Beach</td>
<td></td>
</tr>
<tr>
<td>2.2.1.2 Mailing Address:</td>
<td>John Adair Public Works Director Town of Surfside Beach 740 Sandy Lane Surfside Beach, SC 29575</td>
<td></td>
</tr>
<tr>
<td>2.2.1.3 Telephone Number:</td>
<td>(843) 913-6360</td>
<td></td>
</tr>
<tr>
<td>2.2.1.2 Public Entity Type:</td>
<td>Municipality</td>
<td></td>
</tr>
</tbody>
</table>
## 2.2.2 Information on the MS4:

<table>
<thead>
<tr>
<th>Section</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.2.2.1</td>
<td>Map of MS4 Area:</td>
</tr>
<tr>
<td>2.2.2.2</td>
<td>Major Receiving Waters: Atlantic Ocean</td>
</tr>
<tr>
<td>2.2.2.3</td>
<td>Indian Lands: No portion of The Town of Surfside Beach’s MS4 is located on Indian Country Lands.</td>
</tr>
</tbody>
</table>
| 2.2.2.4 | List of Significant Entities within The Town of Surfside Beach: The following entities operate a municipal separate storm sewer system within the Town of Surfside Beach portion of the Myrtle Beach Urbanized Area:  
- SCDOT |
| 2.2.2.5 | Other Governmental Entities: N/A |
| 2.2.2.6 | BMP Information: Contained in this SWMP is the description of the BMPs to be utilized in addressing the six (6) minimum measure requirements. Each minimum measure contains all available information on the BMPs that are to be implemented, their measurable goals, a schedule for their implementation, and the person(s) responsible. |

### MS4 Location:
The Town of Surfside Beach
- Latitude: N33° 36.41’
- Longitude: W78° 58.56’

### MS4 Urbanized Area (Larger Version in Appendix A):
Approximately 1.95 square miles
3.1 Special Conditions Applicable to Permitted Stormwater Discharges to Sensitive Waters

The MS4 general permit requires that the Town of Surfside Beach 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 SCDHEC 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 (ONRW)
  - Outstanding Resource Waters (ORW)
  - Trout Waters
  - Shellfish Harvesting Waters (SFH), or
  - Source Protection Waters.

3.2 Determination of Receiving Water Conditions and Impacts

The general permit requires the Town of Surfside Beach to determine whether their MS4 discharges to receiving waters within a TMDL watershed or on the most recent SCDHEC Section 303(d) impaired waters list. Currently there are no developed TMDLs that identify the Town of Surfside Beach as a contributor. Table 3 in Section 3.4 provides a list of the impaired waterbodies on the 2012 303(d) list that the Town of Surfside Beach’s MS4 contributes to, either directly or indirectly.

3.3 TMDL Monitoring and Assessment

The MS4 general permit requires that TMDL monitoring and assessment plans will be developed for all TMDL waters receiving MS4 discharges of pollutant(s) of concern. As mentioned in the previous section, the Town of Surfside Beach is not listed as a contributor to any existing TMDLs. If any TMDLs are developed in the future that identify the Town as a potential contributor, the Town will complete a TMDL monitoring and assessment plan within 12 months of the effective date of the TMDL and submit the plan to SCDHEC. For newly established TMDLs, the Town of Surfside Beach will initiate sampling within 18 months of the effective date of the TMDL.

3.4 TMDL Implementation and Analysis

TMDL implementation and analysis plans will be completed and submitted to SCDHEC for TMDLs established after the effective date of permit coverage, within 48 months of the effective date of the TMDL.

3.5 Discharges to Impaired Waterbodies

For discharges to Impaired Waterbodies, protection will be provided through BMP applications conducted through implementation of the six (6) minimum control measures. The BMP implementation will not cause or contribute to violations of water quality standards in impaired water bodies. A list of all impaired water bodies receiving discharges from the Town of Surfside Beach MS4 can be found in Table 2 below.
Table 2: 2012 303(d) List of Impaired Stations within The Town of Surfside Beach’s MS4 Area and/or that the MS4 Area Drains Into

<table>
<thead>
<tr>
<th>Basin</th>
<th>Station Description</th>
<th>Station</th>
<th>Pollutant of Concern</th>
<th>TMDL Target Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEEDEE</td>
<td>13th Avenue South Ocean Outfall</td>
<td>WAC-035</td>
<td>Enterococcus</td>
<td>2019</td>
</tr>
<tr>
<td>PEEDEE</td>
<td>3rd Avenue South Ocean Outfall</td>
<td>WAC-033</td>
<td>Enterococcus</td>
<td>2019</td>
</tr>
<tr>
<td>PEEDEE</td>
<td>3rd Avenue North Ocean Outfall</td>
<td>WAC-032</td>
<td>Enterococcus</td>
<td>2019</td>
</tr>
<tr>
<td>PEEDEE</td>
<td>Swash at 5th Avenue North</td>
<td>WAC-031A</td>
<td>Enterococcus</td>
<td>2019</td>
</tr>
<tr>
<td>PEEDEE</td>
<td>11th Avenue North Ocean Outfall</td>
<td>WAC-031</td>
<td>Enterococcus</td>
<td>2019</td>
</tr>
</tbody>
</table>

3.6 Discharges to Classified Waters
For discharges to Classified Waters, protection will be provided through BMP development and implementation of the six (6) minimum control measures. This BMP implementation will not cause or contribute to violations of water quality standards in impaired water bodies. A list of Classified Waters in The Town of Surfside Beach is provided in Table 3 below.

Table 3: Classified Waters

<table>
<thead>
<tr>
<th>Water Body</th>
<th>Classification</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coastal Waters (Atlantic Ocean)</td>
<td>SFH</td>
<td>From the land to the 3 mile limit of State jurisdiction in the Atlantic Ocean</td>
</tr>
</tbody>
</table>

3.7 Discharges to Source Water Protection Areas
There are currently no known discharges to Source Water Protection Areas in the Town of Surfside Beach.

4.0 Stormwater Management Plan (SWMP)

4.1.1 Requirements of the NPDES MS4 Permit
The Town of Surfside Beach will implement this SWMP to reduce the discharge of pollutants from its MS4 to the maximum extent practicable to protect water quality and address the requirements of the MS4 Permit.

4.1.2 Requirement to Develop SWMP
This document represents the Town’s revised SWMP.

4.1.3 Contents of the SWMP
Included in Appendix B is a copy of the Town’s Stormwater Management Ordinance providing the legal authority necessary to implement and enforce the requirements of the MS4 permit. By January 1, 2015, the Town will review and revise the Stormwater Management Ordinance to meet the additional requirements of the new MS4 permit.

4.1.4 Requirement to Develop Adequate Legal Authority
At a minimum the legal authority will address the following:
• Authority to Prohibit Illicit Discharges
• Identification of Allowable Non-Stormwater Discharges
• Authority to Prohibit Spills or Other Releases
• Authority to Require Compliance
• Authority to Require Installation, Implementation, and Maintenance of Control Measures
• Authority to Receive and Collect Information
• Authority to Inspect
• Response to Violations
• Monetary Penalties
• Civil/Criminal Penalties
• Interagency Agreements

A certification statement has been included in the front of this SWMP that certifies The Town of Surfside Beach has taken the necessary steps to obtain and maintain full legal authority to implement and enforce each of the requirements contained in the MS4 permit.

4.1.5 Enforcement Measures and Tracking
The Town will implement by January 1, 2015, and revise as necessary, an enforcement response plan (ERP) which sets out the Town’s potential responses to violations and addresses repeat and continuing violations through progressively stricter responses as needed to achieve compliance.

The Town will track instances of non-compliance and keep complete and concise files of violations. The Town will also summarize inspection results for repeat violators and include incentives, disincentives, or an increased inspection frequency at the operator’s sites.

4.1.6 Requirements to Ensure Adequate Resources to Comply with the MS4 Permit
The Town of Surfside Beach will at a minimum submit the following information in the annual report:

• 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 Information
The Town of Surfside Beach’s SWMP will include the following information for each of the six (6) minimum control measures:

• Best management practices (BMP) that the Town or another entity will implement for each of the MCMs;
• Measurable goals for each of the BMPs including, as appropriate, the months and years in which the Town will undertake required actions, including interim milestones and the frequency of the action; and,
• Person, or persons, responsible for implementing or coordinating the BMP for the Town’s SWMP.
4.1.10 Modifications to the SWMP Document
SCDHEC Bureau of Water may notify The Town of Surfside Beach of the need to modify the SWMP document to be consistent with the permit, in which case The Town will have ninety (90) days to finalize such changes to the plan. The Town will keep the SWMP document up to date during the term of the permit. Where the Town of Surfside Beach determines that ordinance modifications are needed to address any procedural, protocol, or programmatic change, such changes must be made as soon as practicable, but not later than 360 days.

4.2 Minimum Control Measures (MCMs)
The six (6) MCMs are addressed in the following sections along with proposed BMPs, measurable goals for each proposed BMP, the responsible parties to implement the BMPs, and implementation schedule for the BMPs.

4.2.1 Public Education and Outreach on Stormwater Impacts (Minimum Measure #1)
The Town of Surfside Beach has partnered with the Waccamaw Stormwater Education Consortium in regards to the development and implementation of public education and outreach programs to meet the requirements of MCM #1. The Town of Surfside Beach will implement the following BMPs:

Table 4: Minimum Measure #1 BMPs

<table>
<thead>
<tr>
<th>Contract with Waccamaw Stormwater Education Consortium</th>
<th>Not Started: □ In Progress: □ Completed: □</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Milestone(s)</strong></td>
<td><strong>Schedule/Deadline</strong></td>
</tr>
<tr>
<td>Contract with the Waccamaw Stormwater Education</td>
<td>Throughout Permit Term</td>
</tr>
<tr>
<td>Consortium to implement a public education/outreach</td>
<td></td>
</tr>
<tr>
<td>program for The Town of Surfside Beach</td>
<td></td>
</tr>
</tbody>
</table>

**Measurable Goal:**
- A public education and outreach program that engages the public in issues related to water quality/stormwater concerns in The Town of Surfside Beach.

4.2.2 Public Involvement/Participation (Minimum Measure #2)
The Town of Surfside Beach has partnered with the Waccamaw Stormwater Education Consortium in regards to the development and implementation of public involvement and participation programs to meet the requirements of MCM #2. See Appendix H for the contract between the Town and the Consortium. At a minimum, the Town will ensure that the Consortium performs the following:
- Create opportunities for citizens to participate in the implementation of stormwater controls (e.g. beach sweeps, storm drain stenciling, volunteer monitoring and education activities).
- Ensure the public can easily find information about the Town’s SWMP.
- Incorporate written procedures for implementing the public involvement and participation MCM into the SWMP.
Table 5 contains descriptions of the proposed BMPs to be utilized to address the requirements of MCM #2.

**Table 5: Minimum Measure #2 BMPs**

<table>
<thead>
<tr>
<th>PUBLIC INVOLVEMENT/PARTICIPATION BMPS</th>
<th>Not Started: ☑  In Progress: ☑  Completed: ❌</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Milestone(s)</strong></td>
<td><strong>Schedule/Deadline</strong></td>
</tr>
<tr>
<td>Contract with Waccamaw Stormwater Education Consortium to implement a public involvement/participation program for The Town of Surfside Beach</td>
<td>Throughout Permit Term</td>
</tr>
</tbody>
</table>

**Measurable Goal:**
- Develop and implement a program that will provide the citizens of The Town of Surfside Beach opportunities to participate in activities and events relating to water quality/stormwater.

<table>
<thead>
<tr>
<th>Provide Access to Information for the SWMP</th>
<th>Not Started: ☑  In Progress: ☑  Completed: ❌</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Milestone(s)</strong></td>
<td><strong>Schedule/Deadline</strong></td>
</tr>
<tr>
<td>Ensure the public can easily find information about the SWMP.</td>
<td>Throughout Permit Term</td>
</tr>
</tbody>
</table>

**Measurable Goal:**
- The Town of Surfside Beach will include the SWMP on the Town’s webpage.

<table>
<thead>
<tr>
<th>Written Procedures for Implementing MCM#2</th>
<th>Not Started: ☑  In Progress: ☑  Completed: ❌</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Milestone(s)</strong></td>
<td><strong>Schedule/Deadline</strong></td>
</tr>
<tr>
<td>Develop written procedures for implementing the public involvement/participation program.</td>
<td>Throughout Permit Term</td>
</tr>
</tbody>
</table>

**Measurable Goal:**
- Utilize contract terms with the Waccamaw Stormwater Education Consortium to develop written procedures for the implementation of the public involvement/participation program.

<table>
<thead>
<tr>
<th>Sponsor/Support Community Events</th>
<th>Not Started: ☑  In Progress: ☑  Completed: ❌</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Milestone(s)</strong></td>
<td><strong>Schedule/Deadline</strong></td>
</tr>
<tr>
<td>The Town of Surfside Beach and the Waccamaw Stormwater Education Consortium will continue to promote public participation/involvement through the following activities:</td>
<td>Throughout Permit Term</td>
</tr>
</tbody>
</table>
- Conducting stormwater committee meetings.
- Sponsoring monthly public beach sweeps.
- Conducting household hazardous waste events.
- Storm drain marking.
- Volunteer water quality monitoring.
- Pet waste station maintenance.
4.2.3 Illicit Discharge Detection and Elimination (IDDE) (Minimum Measure #3)

The Town of Surfside Beach will develop, implement and enforce a program to detect and eliminate illicit discharges into the MS4. The Town’s IDDE program will include the following:

- **Develop System Map.** The Town has developed, and will revise as necessary, a storm sewer system map showing the locations of all outfalls, and names and locations of all waters of the US that receive discharges from those outfalls.
- **Identify Priority Areas.** The Town will identify priority areas for more detailed screening of their system based on higher likelihood of illicit connections or by conducting ambient sampling to locate impacted reaches.
- **Field Screening to Detect Illicit Discharges.** The Town will implement a written dry weather field screening and analytical monitoring procedures to detect and eliminate illicit discharges to the MS4.
- **Procedures for Tracing the Source of an Illicit Discharge.** The Town will develop written procedures for conducting investigations into the source of all identified illicit discharges, including approaches to requiring such discharges to be eliminated.
- **Minimum Investigation Requirements.** After becoming aware of an illicit discharge, the Town will initiate an investigation(s) to identify and locate the source of any continuous or intermittent non-stormwater discharge within a timeframe that is consistent with the procedures found in this SWMP.
- **Determining the Source of the Illicit Discharge.** The Town will determine and document through their investigations the source of all documented illicit discharges.
- **Corrective Action to Eliminate Illicit Discharges.** The Town will develop written procedures on the IDDE corrective action process to include notification requirements, timeframes for discharge elimination, follow-up investigations and documentation and utilization of the enforcement response plan (ERP).
- **Public Reporting Mechanism.** The Town will promote, publicize, and facilitate a reporting mechanism for the public and staff to report illicit discharges and establish and implement citizen request response procedures.
- **Employee Training.** The Town will implement a training program for all appropriate municipal field 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.

**Measurable Goal:**
- Continue to promote public participation/involvement through Town events and utilization of the contract with the Waccamaw Stormwater Education Consortium.
Table 6 contains descriptions of the proposed BMPs to be utilized to address the requirements of MCM #3.

### Table 6: Minimum Measure #3 BMPs

<table>
<thead>
<tr>
<th>IDDE BMPs</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Develop Storm Sewer Map</strong></td>
<td>Not Started: ☒ In Progress: ☐ Completed: ☒</td>
<td><strong>Milestone(s)</strong></td>
<td>Throughout Permit Term</td>
</tr>
<tr>
<td>The storm sewer map has been developed, and will be updated as necessary, showing the location of all outfalls and names and locations of all waters of the United States that receive discharge from those outfalls.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Measurable Goal:</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>• The storm sewer map will provide a visual means to observe the location of outfalls in relation to waters of the United States.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| **Identify Priority Areas** | Not Started: ☒ In Progress: ☐ Completed: ☐ | **Milestone(s)** | December 31, 2014 | **Frequency** | Annually | **Responsible Party** | Surfside Beach Public Works Department |
| Identify priority areas for more detailed screening of the storm sewer system. | | | | | | |
| **Measurable Goal:** | | | | |
| • Create a list of priority areas. | | | | |

| **Develop Screening to Detect Illicit Discharges** | Not Started: ☒ In Progress: ☐ Completed: ☐ | **Milestone(s)** | December 31, 2014 | **Frequency** | As Needed | **Responsible Party** | Surfside Beach Public Works Department |
| Development of written dry weather field screening and analytical monitoring procedures to detect and eliminate illicit discharges to the MS4. | | | | | | |
| Dry weather field screening will consist of, but is not limited to, (1) visual observations; (2) field screening monitoring; and may include (3) analytical monitoring at selected points to the extent necessary to identify and eliminate an illicit discharge in the drainage area of the suspected illicit. | | | | | | |
| **Measurable Goal:** | | | | |
| • Develop and implement a dry weather field screening and analytical procedures program. | | | | |

| **Conduct Field Screening** | Not Started: ☒ In Progress: ☐ Completed: ☐ | **Milestone(s)** | December 31, 2015 | **Frequency** | Annually | **Responsible Party** | Surfside Beach Public Works Department |
| Conduct dry weather screening and/or analytical monitoring, when necessary, to identify the source of illicit discharges. | | | | | | |
| **Measurable Goal:** | | | | |
| • Dry weather field screening, as necessary. | | | | |
### Field Screening Assessment

<table>
<thead>
<tr>
<th>Milestone(s)</th>
<th>Schedule/Deadline</th>
<th>Frequency</th>
<th>Responsible Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>Access the effectiveness of the Field Screening component of the IDDE program in the third annual report to determine if the level of effort is adequate in attaining the effective prohibition of non-stormwater discharges into the MS4.</td>
<td>December 31, 2016</td>
<td>Once during permit term</td>
<td>Surfside Beach Public Works Department</td>
</tr>
</tbody>
</table>

**Measurable Goal:**
- Development of a Field Screening program assessment document with recommended updates, if necessary.

### Procedures for Tracing the Source of an Illicit Discharge

<table>
<thead>
<tr>
<th>Milestone(s)</th>
<th>Schedule/Deadline</th>
<th>Frequency</th>
<th>Responsible Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>Develop written procedures for conducting investigations into the source of all identified illicit discharges, including approaches to requiring such discharges be eliminated.</td>
<td>December 31, 2016</td>
<td>Annually</td>
<td>Surfside Beach Public Works Department</td>
</tr>
</tbody>
</table>

**Measurable Goal:**
- Written procedures for IDDE investigations.

### Minimum Investigation Requirements

<table>
<thead>
<tr>
<th>Milestone(s)</th>
<th>Schedule/Deadline</th>
<th>Frequency</th>
<th>Responsible Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>Initiate an investigation(s) to identify and locate the source of any non-stormwater discharge within an appropriate timeframe. The Town of Surfside Beach will report immediately the occurrence of any dry weather flow believed to be an immediate threat to human health or the environment to SC DHEC Emergency Response, 1-888-481-0125. Illicit discharges suspected of being municipal sanitary sewer system discharges and/or significantly contaminated will be considered a high priority and will be reported to Grand Strand Water and Sewer Authority within 24 hours.</td>
<td>December 31, 2016</td>
<td>Once</td>
<td>Surfside Beach Public Works Department</td>
</tr>
</tbody>
</table>

**Measurable Goal:**
- Initiation of IDDE investigations within the appropriate timeframe.

### Employee Training

<table>
<thead>
<tr>
<th>Milestone(s)</th>
<th>Schedule/Deadline</th>
<th>Frequency</th>
<th>Responsible Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>Implement a training program for all appropriate municipal field 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.</td>
<td>December 31, 2016</td>
<td>Ongoing</td>
<td>Surfside Beach Public Works Department</td>
</tr>
</tbody>
</table>
4.2.4 Construction Site Stormwater Runoff Control (Minimum Measure #4)

The Town of Surfside Beach will continue to develop, implement, and enforce a program to reduce pollutants in any stormwater runoff to the MS4 from construction activities that result in a land disturbance of greater than or equal to one acre. Construction activity includes, at a minimum:

- Clearing, grading, and excavating that result in land disturbance of equal to or greater than one acre;
- Clearing, grading, and excavating that result in disturbance of less than one acre of total land area that is part of a larger common plan of development or sale (LCP); and
- Any land disturbance of one-half (1/2) acre or more within one-half (1/2) mile of a receiving water body (but not for single-family homes which are not part of a subdivision development that result in any land disturbance less than five acres).

The Town’s construction site stormwater runoff control program will include the development and implementation of, at a minimum:

- An updated stormwater ordinance that addresses additional erosion and sediment controls related to the new CGP.
- Requirements for construction site operators to implement appropriate BMPs such as:
  a. Erosion and Sediment Controls and
  b. Soil Stabilization Practices.
- 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, and,
  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.
- Requirements for each operator of a construction activity to prepare and submit a Stormwater Pollution Prevention Plan (SWPPP) prior to the disturbance of land for the MS4 to review and approve.

---

Measurable Goal:

- Provide training to appropriate staff for identifying potential illicit discharges

October 1, 2014
The Town of Surfside Beach
Stormwater Management Plan (SWMP)
Plan Review. The Town of Surfside Beach will continue to implement site plan review procedures that, at a minimum, meet the following:

- Make clear to operators of construction activities that they are prohibited from commencing construction activities until they receive written approval of the plans.
- Approve SWPPP that complies with the technical requirements of the effective NPDES General Permit for Storm Water Discharges from Construction Activities, SCR100000, or establish alternative technical criteria that are equally, or more, protective of water quality.
- The SWPPP must include the rationale used for selecting control measures, including how the control measure protects a waterway or stormwater conveyance.
- The Town will use qualified individuals, knowledgeable in the technical review of SWPPPs to conduct reviews.
- Document the review of each SWPPP using a checklist or similar process.
- Establish procedures for SWPPP review, including the review of pre-construction site plans, for construction activities that discharge pollutant(s) of concern to TMDL waters and to waters on the 303(d) List of Impaired Waters. These procedures will identify potential water quality impacts the permitted discharges may have. The SWPPP shall limit sediment discharges to the MEP and protect water quality. Procedures for SWPPP review shall:
  a. Incorporate consideration of potential water quality impacts,
  b. Include the review of construction site plans,
  c. For construction projects that disturb less than 25 acres, carefully evaluate all selected BMPs and their ability to control the pollutant(s) of concern,
  d. For construction projects that disturb 25 acres or more, require a written quantitative and qualitative assessment showing that the selected BMPs will control the discharge of the pollutant, or pollutants, of concern from construction and post construction within a TMDL watershed, or to a water on the 303(d) List of Impaired Waters, and,
  e. Require that SWPPPs prepared by construction activity applicants for MS4 review and approval must demonstrate that stormwater discharges will neither cause nor contribute to a violation of water quality standards.

Inspections. The Town of Surfside Beach will maintain an inventory of all active construction projects. The inventory will be continuously updated as new projects are permitted and projects are completed. The inventory will contain relevant contact information for each project (e.g., name, address, phone, etc.), the size of the project and area of land disturbance. The Town will make the inventory available to SCDHEC upon request.

The Town’s construction site inspection program will include the following activities at a minimum:

- 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.
- Document inspections and enforcement activities for each site in the inventory.
- Implement procedures for inspecting construction projects in accordance with the MS4 permit.
- Adequately inspect all phases of construction. At a minimum, inspections will occur following installation of initial BMPs, during active construction, and after final site stabilization.
- Have trained and qualified inspectors.
- Continue to follow, and revise as necessary, written procedures outlining the inspection and enforcement procedures. Inspections of construction sites must, at a minimum:
  i. Check for coverage under SCR100000 by requesting a copy of any 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 the Town’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. Provide a written or electronic inspection report generated from findings in the field.

**Enforcement.** The Town of Surfside Beach will develop an Enforcement Response Plan (ERP). The ERP will contain a description of how the Town will use specific type of responses to address various types of violations. The ERP will include, at a minimum, the following:

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

**MS4 Staff Training.** The Town will ensure that all 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. The training will be conducted by the Town or outside training can be attended.

**Construction Site Operator and Public Involvement.** The Town of Surfside Beach will perform the following:

- **Construction Operator Education.** Develop and implement an effective communication process with construction contractors to educate them on areas in which improvements are needed and to enforce any required actions.
- **Public Involvement.** Implement procedures for receipt and consideration of information submitted by the public. Consider coordinating this requirement with the public participation program.

Table 7 contains descriptions of the proposed BMPs to be utilized to address the requirements of MCM #4.

**Table 7: Minimum Measure #4 BMPs**

<table>
<thead>
<tr>
<th>Ordinance Update</th>
<th>Schedule/Deadline</th>
<th>Frequency</th>
<th>Responsible Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>Review and update the Stormwater Management Ordinance to address additional requirements of the MS4 and Construction General Permits.</td>
<td>December 31, 2014</td>
<td>Once during permit term</td>
<td>Surfside Beach Public Works Department</td>
</tr>
</tbody>
</table>
### Measurable Goal:
- Update stormwater ordinance.

### Pollution Prevention Measures

<table>
<thead>
<tr>
<th>Milestone(s)</th>
<th>Schedule/Deadline</th>
<th>Frequency</th>
<th>Responsible Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>Review and update requirements for the design, installation and maintenance of effective pollution prevention measures for construction site operators to address additional requirements of the MS4 and Construction General Permits.</td>
<td>December 31, 2015</td>
<td>Once during permit term</td>
<td>Surfside Beach Public Works Department</td>
</tr>
</tbody>
</table>

### Measurable Goal:
- Update pollution prevention requirements.

### Plan Review

<table>
<thead>
<tr>
<th>Milestone(s)</th>
<th>Schedule/Deadline</th>
<th>Frequency</th>
<th>Responsible Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>Review and update stormwater plan review procedures to address additional requirements of the MS4 and Construction General Permits</td>
<td>December 31, 2015</td>
<td>Once during permit term</td>
<td>Surfside Beach Public Works Department</td>
</tr>
</tbody>
</table>

### Measurable Goal:
- Update stormwater plan review procedures.

### Inspections

<table>
<thead>
<tr>
<th>Milestone(s)</th>
<th>Schedule/Deadline</th>
<th>Frequency</th>
<th>Responsible Party</th>
</tr>
</thead>
</table>
| Maintain an inventory of all active construction projects. Perform the following tasks:  
  - 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.  
  - Document inspections and enforcement activities for each site in the inventory.  
  - Implement procedures for inspecting construction projects in accordance with the MS4 permit.  
  - Adequately inspect all phases of construction. At a minimum, inspections will occur following installation of initial BMPs, during active construction, and after final site stabilization.  
  - Have trained and qualified inspectors.  
  - Continue to follow, and revise as necessary, written procedures outlining the inspection and enforcement procedures. | December 31, 2015 | Throughout permit term | Surfside Beach Public Works Department |

### Measurable Goal:
- Maintain an inventory of all active construction projects and implement a site inspection program to meet requirements of the MS4 and Construction General Permits.
<table>
<thead>
<tr>
<th>Milestone(s)</th>
<th>Schedule/Deadline</th>
<th>Frequency</th>
<th>Responsible Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>Develop an enforcement response plan which will contain a description of how the Town will use specific types of responses to address various types of violations.</td>
<td>December 31, 2014</td>
<td>Once during permit term</td>
<td>Surfside Beach Public Works Department</td>
</tr>
</tbody>
</table>

**Measurable Goal:**
- Develop an enforcement response plan.

<table>
<thead>
<tr>
<th>Milestone(s)</th>
<th>Schedule/Deadline</th>
<th>Frequency</th>
<th>Responsible Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ensure that all staff, whose primary job duties are related to implementing the construction stormwater program, including permitting, plan review, construction site inspections, and enforcement, are adequately trained to conduct these activities.</td>
<td>December 31, 2015</td>
<td>As Needed</td>
<td>Surfside Beach Public Works Department</td>
</tr>
</tbody>
</table>

**Measurable Goal:**
- Providing adequate training for construction program staff.

<table>
<thead>
<tr>
<th>Milestone(s)</th>
<th>Schedule/Deadline</th>
<th>Frequency</th>
<th>Responsible Party</th>
</tr>
</thead>
</table>
| Develop and implement an effective communication process with construction contractors to educate them on areas in which improvements are needed and to enforce any required actions.  
Implement procedures for receipt and consideration of information submitted by the public. | December 31, 2015 | As Needed   | Surfside Beach Public Works Department |

**Measurable Goal:**
- Develop communication process with contractors and public involvement.

### 4.2.5 Post-Construction Stormwater Management for New Development and Redevelopment (Minimum Measure #5)

The Town of Surfside Beach will 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 (LCP) that discharge into the MS4. The program will apply to private and public development sites, including roads.

**Site Performance Standards.** The Town will establish, implement and enforce a requirement that owners or operators of new development and redeveloped sites discharging to the MS4, which disturb greater than or equal to one acre (including projects that disturb less than one acre that are part of a LCP), design, install, implement, and maintain stormwater control measures that approximate pre-development conditions to the MEP and protect water quality.

New Development Standards to be used will be either one, combination, or equivalent combination of design strategies, control measures, practices or provisions such as infiltration, evapotranspiration, rain harvesting, and stormwater reuse and recharge that demonstrate the runoff reduction and pollutant
removal necessary to approximate pre-development conditions to the MEP and to protect water quality. The first inch of runoff will be addressed. The Town will describe the site design strategies, control measures and other practices deemed necessary to maintain, or in the case of redevelopment improve, pre-development hydrology.

**Site Plan Review.** To ensure that all applicable new development and redeveloped sites conform to the performance standards, the Town will implement post-construction project review, approval, and enforcement procedures.

The Town will conduct site plan reviews of all new development and redeveloped sites which will disturb greater than or equal to one acre and discharge to the MS4 (including sites that disturb less than one acre that are part of a LCP). The site plan review will specifically address how the project applicant meets performance standards and how the project will ensure long-term maintenance.

**Long-Term Maintenance of Post-Construction Stormwater Control Measures.** All structural stormwater control measures installed and implemented to meet the performance standards must be maintained in perpetuity. The Town will ensure the long-term maintenance of installed structural stormwater control measures through the development and enforcement of a maintenance agreement.

**Verification of Maintenance Responsibilities.** The Town will require that property owners or operators of any new development or redeveloped site provide verification of maintenance for the approved structural stormwater control measures.

**Inventory of Post-Construction Stormwater Control Measures.** The Town will maintain an inventory of all post-construction structural stormwater control measures installed and implemented at new development and redeveloped sites, including both public and private sector sites located within the MS4. At a minimum, the inventory shall contain all BMPs constructed since the MS4 Permit effective date of January 1, 2014.

**Inspection Frequency.** To ensure that all stormwater control measures are operating correctly and are being maintained as required consistent with its applicable maintenance agreement, the Town will conduct inspections of each project site at least one time during the permit term.

**Post-Construction Inspection.** Within thirty (30) days of the completion of construction, the Town will conduct a post-construction inspection to verify that BMPs have been installed as per approved plans.

**Inspection Reports.** The Town will document inspection findings in an inspection report. The Town will document and maintain records of inspection findings and enforcement actions and make them available for review by SCDHEC.

Table 8 contains descriptions of the proposed BMPs to be utilized to address the requirements of MCM #5.
### POST-CONSTRUCTION STORMWATER MANAGEMENT BMPS

<table>
<thead>
<tr>
<th>Site Performance Standards</th>
<th>Milestone(s)</th>
<th>Schedule/Deadline</th>
<th>Frequency</th>
<th>Responsible Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enforce a requirement that owners or operators of new development and redeveloped sites design, install, and maintain stormwater control measures that approximate pre-development conditions to the MEP and protect water quality.</td>
<td>December 31, 2015</td>
<td>Once during permit term</td>
<td>Surfside Beach Public Works Department</td>
<td></td>
</tr>
</tbody>
</table>

**Measurable Goal:**
- Provide design community with design guidance for Post Construction BMPs

<table>
<thead>
<tr>
<th>Site Plan Review</th>
<th>Milestone(s)</th>
<th>Schedule/Deadline</th>
<th>Frequency</th>
<th>Responsible Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Plan Review</td>
<td>Implement post-construction project review, approval and enforcement procedures. Site plan review will specifically address how the project applicant meets performance standards and how the project will ensure long-term maintenance.</td>
<td>December 31, 2015</td>
<td>Once during permit term</td>
<td>Surfside Beach Public Works Department</td>
</tr>
</tbody>
</table>

**Measurable Goal:**
- Perform post-construction site plan reviews.

<table>
<thead>
<tr>
<th>Long-Term Maintenance of Post-Construction Stormwater Control Measures</th>
<th>Milestone(s)</th>
<th>Schedule/Deadline</th>
<th>Frequency</th>
<th>Responsible Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>Develop a long-term maintenance agreement for all structural stormwater control measures.</td>
<td>December 31, 2015</td>
<td>Once during permit term</td>
<td>Surfside Beach Public Works Department</td>
<td></td>
</tr>
</tbody>
</table>

**Measurable Goal:**
- Develop and enforce a long-term maintenance agreement.

<table>
<thead>
<tr>
<th>Verification of Maintenance Responsibilities</th>
<th>Milestone(s)</th>
<th>Schedule/Deadline</th>
<th>Frequency</th>
<th>Responsible Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>Develop and implement a procedure to require that property owners or operators of any new development or redeveloped site provide verification of maintenance for the approved structural stormwater control measures.</td>
<td>December 31, 2015</td>
<td>Update As Needed</td>
<td>Surfside Beach Public Works Department</td>
<td></td>
</tr>
</tbody>
</table>

**Measurable Goal:**
- Develop a post-construction maintenance verification procedure.
### Inventory of Post-Construction Stormwater Control Measures

<table>
<thead>
<tr>
<th>Milestone(s)</th>
<th>Schedule/Deadline</th>
<th>Frequency</th>
<th>Responsible Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>Develop and maintain an inventory of all post-construction structural stormwater control measures installed and implemented at new development and redevelopment sites. At a minimum, the inventory shall contain all BMPs constructed since the effective date starting with the effective date of this permit.</td>
<td>December 31, 2014</td>
<td>Throughout permit term</td>
<td>Surfside Beach Public Works Department</td>
</tr>
</tbody>
</table>

**Measurable Goal:**

- Develop and maintain an inventory of post-construction BMPs.

### Inspections and Enforcement

<table>
<thead>
<tr>
<th>Milestone(s)</th>
<th>Schedule/Deadline</th>
<th>Frequency</th>
<th>Responsible Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conduct post-construction inspections of each development and redevelopment site permitted after January 1, 2014 at least one time during the permit term. Within thirty (30) days of completion of construction of any development or redevelopment project, conduct a post-construction inspection to verify that BMPs have been installed as per approved plans. Document and maintain records of inspections (in an inspection report) and enforcement actions and make them available for review by SCDHEC.</td>
<td>Throughout Permit Term</td>
<td>Throughout Permit Term</td>
<td>Surfside Beach Public Works Department</td>
</tr>
</tbody>
</table>

**Measurable Goal:**

- Develop procedures for performing inspections and enforcing compliance with a post-construction maintenance program.

---

### 4.2.6 Pollution Prevention/Good Housekeeping (Minimum Measure #6)

The Town of Surfside Beach will 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. The Town’s pollution prevention/good housekeeping program will include the following, at a minimum:

**Development of a Municipal Facility and Stormwater Control Inventory.** The Town will update and maintain an inventory of municipally-owned facilities and stormwater controls that are not covered under a separate general or individual NPDES permit (i.e. industrial, solid waste, etc.). Examples of these types of facilities may include but are not limited to composting facilities, equipment storage and maintenance facilities, landscape maintenance on municipal property, material storage yards, public buildings, golf courses, public work yards, recycling facilities, salt storage facilities, municipally owned and/or maintained structural stormwater controls.
**Documentation.** The list of municipally owned, or operated, facilities and stormwater controls will be maintained and available for review by SCDHEC.

**Municipally-Owned or Operated Facility Assessments**

**Comprehensive Assessment of Pollutant Discharge Potential** – The Town will develop a comprehensive assessment of all municipally-owned or operated facilities at least once during the permit term and include it in the permit reapplication for their potential to discharge pollutants in stormwater.

**Identification of “High Priority” Facilities.** The Town will identify as “high priority” those facilities that have a high potential to generate stormwater pollutants.

**Documentation of Comprehensive Assessment Results.** The Town will document the results of the assessments and maintain copies of all site evaluation checklists used to conduct the comprehensive assessment. The documentation will include the results of the Town’s initial assessment, any identified deficiencies and corrective actions taken.

**Facility-Specific Stormwater Management**

**Facility-specific Stormwater Management Inspections for “High Priority” Facilities:**

**Yearly Comprehensive Inspections.** Starting no later than 24 months from the effective date of coverage (January 1, 2014) and at least once per year thereafter, a comprehensive inspection of “high priority” facilities, including all stormwater controls, will be performed by the Town. Areas that will warrant specific attention are 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 maintained by the Town. The inspection report will also include any identified deficiencies and the corrective actions taken to fix the deficiencies.

**Storm Sewer System Maintenance Activities -MS4 Maintenance**

**Assessment/Prioritization of MS4 Catch Basins.** The Town will prioritize their owned and/or operated storm water management systems/structures and implement a maintenance schedule.

**Municipal Activities and Operations.** The Town will develop a set of pollution prevention measures that, when applied during municipal operation and maintenance (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.

**Maintenance of Municipally-Owned and/or Maintained Structural Stormwater Controls.** The Town will inspect, and maintain, wherever and whenever necessary, all municipally-owned or maintained structural stormwater controls. The Town will also
maintain all municipally owned green infrastructure practices through regularly scheduled maintenance activities.

**Employee Training and Education Requirements.** The Town will develop an annual employee training program for appropriate employees involved in implementing pollution prevention and good housekeeping practices. This annual training will include a general stormwater education component, any new technologies, operations, or responsibilities that arise during the year, and the MS4 Permit requirements that apply to the staff being trained.

A description of the training program will be maintained for review by the permitting authority. The Town will also identify and track all personnel requiring training and records will be maintained. Training will begin within the first year from the effective date of permit authorization.

**Requirements for Contractors Oversight.** Contractors hired by the Town to perform municipal maintenance activities will be contractually required to comply with all of the MS4 stormwater control measures, good housekeeping practices, and facility-specific stormwater management procedures. The Town will provide oversight of contractor activities to ensure that contractors are using appropriate control measures and procedures.

Table 9 contains descriptions of the proposed BMPs to be utilized to address the requirements of MCM #6.

**Table 9: Minimum Measure #6 BMPs**

<table>
<thead>
<tr>
<th>Pollution Prevention / Good Housekeeping BMPs</th>
<th>Not Started: ☒</th>
<th>In Progress: ☐</th>
<th>Completed: ☐</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Municipal Facility and Stormwater Control Inventory</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Milestone(s)</td>
<td>Schedule/Deadline</td>
<td>Frequency</td>
<td>Responsible Party</td>
</tr>
<tr>
<td>Develop and maintain an inventory of all municipally-owned facilities and stormwater controls that are not covered under a separate NPDES permit</td>
<td>December 31, 2014</td>
<td>Throughout Permit Term</td>
<td>Surfside Beach Public Works Department</td>
</tr>
</tbody>
</table>

**Measurable Goal:**
- An inventory of municipally owned facilities and stormwater controls.

<table>
<thead>
<tr>
<th>Municipally-Owned or Operated Facility Assessment</th>
<th>Not Started: ☒</th>
<th>In Progress: ☐</th>
<th>Completed: ☐</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Milestone(s)</strong></td>
<td>Schedule/Deadline</td>
<td>Frequency</td>
<td>Responsible Party</td>
</tr>
<tr>
<td>Develop a comprehensive assessment of all municipally-owned or operated facilities at least once during the permit term.</td>
<td>December 31, 2018</td>
<td>Once during permit term</td>
<td>Surfside Beach Public Works Department</td>
</tr>
<tr>
<td>Identify “high priority” facilities that have a high potential to generate stormwater pollutants.</td>
<td>December 31, 2014</td>
<td>Once during permit term</td>
<td>Surfside Beach Public Works Department</td>
</tr>
<tr>
<td>Document the results of the assessments and maintain all site evaluation checklists used to conduct the assessments.</td>
<td>December 31, 2018</td>
<td>Once during permit term</td>
<td>Surfside Beach Public Works Department</td>
</tr>
</tbody>
</table>
**Measurable Goal:**
- Assess all municipal facilities, identify “high priority” areas and document assessment results.

<table>
<thead>
<tr>
<th>Facility-Specific Stormwater Management</th>
<th>Not Started: ✗ In Progress: □ Completed: □</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Milestone(s)</strong></td>
<td>Schedule/Deadline</td>
</tr>
<tr>
<td>Perform annual comprehensive inspections of “high priority” facilities including all stormwater controls.</td>
<td>December 31, 2015</td>
</tr>
<tr>
<td>The annual inspection report will include any identified deficiencies and the corrective actions taken to fix the deficiencies.</td>
<td></td>
</tr>
</tbody>
</table>

**Measurable Goals:**
- Perform annual inspections of “high priority” facilities that includes identification of deficiencies and corrective actions.

<table>
<thead>
<tr>
<th>Storm Sewer System Maintenance Activities – MS4 Maintenance</th>
<th>Not Started: ✗ In Progress: □ Completed: □</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Milestone(s)</strong></td>
<td>Schedule/Deadline</td>
</tr>
<tr>
<td>Prioritize owned and/or operated stormwater management systems/structures and implement a maintenance schedule.</td>
<td>July 1, 2015</td>
</tr>
</tbody>
</table>

**Measurable Goal:**
- A prioritization maintenance schedule.

<table>
<thead>
<tr>
<th>Municipal Activities and Operations</th>
<th>Not Started: ✗ In Progress: □ Completed: □</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Milestone(s)</strong></td>
<td>Schedule/Deadline</td>
</tr>
<tr>
<td>Develop a set of pollution prevention measures for municipal operation and maintenance (O&amp;M) activities.</td>
<td>December 31, 2015</td>
</tr>
</tbody>
</table>

**Measurable Goal:**
- Develop a set of pollution prevention measures for municipal O&M activities.

<table>
<thead>
<tr>
<th>Maintenance of Municipally-Owned and/or Maintained Structural Stormwater Controls</th>
<th>Not Started: ✗ In Progress: □ Completed: □</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Schedule/Deadline</strong></td>
<td>Frequency</td>
</tr>
<tr>
<td>Inspect and maintain, wherever and whenever necessary, all municipal-owned or maintained structural stormwater controls.</td>
<td>Throughout Permit Term</td>
</tr>
</tbody>
</table>

**Measurable Goal:**
- Inspect and maintain municipal structural stormwater controls.

<table>
<thead>
<tr>
<th>Employee Training and Education</th>
<th>Not Started: ✗ In Progress: □ Completed: □</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Milestone(s)</strong></td>
<td>Schedule/Deadline</td>
</tr>
<tr>
<td>Develop an annual employee training program for appropriate employees involved in implementing pollution prevention and good housekeeping practices.</td>
<td>December 31, 2015</td>
</tr>
</tbody>
</table>
4.5 Reviewing and Updating Stormwater Management Plans

The Town of Surfside Beach will perform a review of the SWMP in conjunction with the preparation of the Annual Report. Table 10 contains descriptions of the proposed BMPs to be utilized to address this requirement.

Table 10: Reviewing and Updating SWMP

<table>
<thead>
<tr>
<th>Milestone(s)</th>
<th>Schedule/Deadline</th>
<th>Frequency</th>
<th>Responsible Party</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contractors hired by the Town to perform municipal maintenance activities will be contractually required to comply with all of the MS4 stormwater control measures, good housekeeping practices and facility-specific stormwater management procedures.</td>
<td>December 31, 2015</td>
<td>Annually</td>
<td>Surfside Beach Public Works Department</td>
</tr>
<tr>
<td>The Town will provide oversight of contractor activities to ensure that contractors are using appropriate control measures and procedures.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Changes replacing an ineffective or infeasible BMP specifically identified in the SWMP with an alternate BMP will be requested and submitted in written form to SCDHEC. Unless denied by SCDHEC, changes proposed in accordance with the criteria below will be deemed approved and may be implemented sixty (60) days from submittal of the request. If the request is denied, SCDHEC will send The Town of Surfside Beach 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.

SCDHEC may require changes to the SWMP as needed to:

- Address documented impacts on receiving water quality caused, or contributed to, by discharges from the MS4;
- 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.

5.3 Reporting

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

1. The first report covering years 1 and 2 must be submitted to the Department twenty-seven (27) months after the effective date of the permit.

2. The following annual report, covering years 3 and 4 shall be submitted 180 days before the permit expiration date as part of the renotification process.

3. While, and if the expired permit is continued, reports are due every year on the anniversary date of the expired permit.

All annual reports shall be sent to the address below unless the Department instructs the Town of Surfside Beach 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 annual reports will include:

- The status of the Town’s compliance with permit conditions, an assessment of the appropriateness of the identified BMP, 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 program at reducing the discharge of pollutants to the MEP;
- A summary of the stormwater activities the Town plans to undertake during the next reporting cycle (including an implementation schedule);
- Proposed changes to the Town’s SWMP, including changes to any BMP or any identified measurable goals that apply to the program elements; and
Notice that the Town is relying on another entity to satisfy some of the Town’s permit obligations (if applicable).

Table 11 contains descriptions of the proposed BMPs to be utilized to address this requirement.

**Table 11: Reporting**

<table>
<thead>
<tr>
<th>REPORTING</th>
<th>1st Annual Report</th>
<th>2nd Annual Report</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Milestone(s)</strong></td>
<td>Complete and Submit 1st Annual Report (covering years 1 and 2).</td>
<td>Complete and Submit 2nd Annual Report (covering years 3 and 4).</td>
</tr>
<tr>
<td><strong>Section:</strong></td>
<td>5.3</td>
<td>5.3</td>
</tr>
<tr>
<td><strong>Schedule/Deadline</strong></td>
<td>April 01, 2016</td>
<td>July 1, 2018</td>
</tr>
<tr>
<td><strong>Frequency</strong></td>
<td>Once</td>
<td>Once</td>
</tr>
<tr>
<td><strong>Responsible Party</strong></td>
<td>Surfside Beach Public Works Department</td>
<td>Surfside Beach Public Works Department</td>
</tr>
</tbody>
</table>

- Not Started: ❌
- In Progress: □
- Completed: □
Appendix A
The Town of Surfside Beach
Urbanized Area
Appendix B
The Town of Surfside Beach
Stormwater Management Ordinance
DIVISION I. GENERALLY

Sec. 14-46. Short title.
Sec. 14-47. Findings of fact.
Sec. 14-48. Objectives
Sec. 14-49. Application
Sec. 14-50. Jurisdiction.
Sec. 14-51. Definitions.
Sec. 14-52. Applicability.
Sec. 14-54. Construction and Scope.
Sec. 14-55. Exemptions.
Sec. 14-56. Prohibitions and illicit connections.
Sec. 14-57. Appeals.
Sec. 14-58. Pre-application conference.
Sec. 14-59. Stormwater management plan permit application.
Sec. 14-60. Design requirements and contents of stormwater management plans.
Sec. 14-61. Performance objectives for stormwater management plans.
Sec. 14-63. Compliance with plan; amendments to plan.
Sec. 14-64. Detection and Elimination of Illicit Discharges and Improper Disposal.
Sec. 14-65. Enforcement.
Sec. 14-66. Penalties for violation.
Sec. 14-68. Fee schedule.
Sec. 14-69. General permits for residential construction.

Sec. 14-46. Short title.

This article shall be known and cited as "The Stormwater Management Ordinance" of the Town of Surfside Beach.

(Ord. No. 14-0791 Amend Chapter 14, Article III Stormwater Management)

Sec. 14-47. Findings of fact.

The Town finds that inadequately or improperly designed, constructed or maintained drainage facilities and the development of land without due consideration of potential problems associated with stormwater runoff may have significant adverse impact upon the quality of the waters of the community and that in the absence of adequately and properly designed, constructed, and maintained facilities, the following situations have occurred and may occur again which have potential adverse impact on the public’s health, safety and welfare:
(1) Unregulated land use changes may result in increased rates and volumes of stormwater runoff, contributing to local and area flooding, which is potentially harmful to human health, welfare, and safety, and creates a risk of harm to property, and unreasonable interference with the enjoyment of life or property.

(2) Development requiring the alteration of natural topography or removal of vegetation may increase the rate and volume of stormwater runoff, thereby increasing soil erosion and sedimentation and degrading water quality.

(3) The siltation of a drainage facility resulting from increased erosion may significantly decrease the drainage facility's capacity to transport stormwater, thereby increasing the potential for more frequent and aggravated flooding.

(4) The piecemeal strategies practiced in the absence of stormwater management techniques most often result in increased off-site flooding, erosion, and property damage.

(5) Uncontrolled surface water runoff carries pollutants, including nutrients, heavy metals, debris, oils, and greases, into receiving bodies thereby degrading their water quality.

(6) Increased rates and volumes of stormwater discharged onto the beach may further increase beach erosion, reducing the aesthetic value of the beach and increasing the potential for property damage to oceanfront structures.

(7) The National Pollutant Discharge Elimination System (NPDES) phase II Municipal Separate Storm Sewer System (MS4) Permit requires the Town to implement a stormwater management program that meets the requirements of the Clean Water Act


The objectives of this article include the following:

(1) Protect, maintain, and enhance the short-term and long-term public health, safety, and general welfare. This objective will be achieved by:
   a. Establishing minimum requirements and procedures to control the adverse effects of increased stormwater runoff associated with both future land development and existing developed land within the Town of Surfside Beach;
   b. Providing proper management of stormwater runoff to minimize damage to public and private property and reduce the effects of land disturbing activities on land and stream channel erosion;
   c. Protecting, preserving, and enhancing water quality and fish and wildlife habitat within the Town of Surfside Beach and in downstream receiving waters; and,
   d. Alleviate street and property flooding and its adverse impacts caused by urban development.

(2) Comply with state and federal (EPA) stormwater regulations developed pursuant to the Clean Water Act. These requirements include:
   a. Control pollutants from stormwater discharges associated with commercial and industrial activity and the quality of stormwater discharge from residential, commercial and industrial developments;
   b. Prohibit illicit connections to the stormwater drainage system;
   c. Control discharges to the stormwater drainage system from spills and dumping or disposal of materials other than stormwater;
   d. Control, through intergovernmental agreements, contribution of pollutants from one (1) municipal system to another.

(3) Require plans to minimize the transport of pollutants to the local stormwater drainage system by requiring approval and implementation of stormwater management and sediment control plans.

(4) Establish procedures, which minimize damage from flooding caused by development, while recognizing that natural fluctuations in water levels are beneficial.
(5) Require construction, where possible, of drainage facilities/systems, which aesthetically and functionally approximate natural systems.

(6) Establish procedures for the planning and implementation of stormwater improvements using a basin-wide or sub-basin approach which considers the total stormwater basin system, or major portions of the basin system, beyond individual subdivisions and developments.

(7) To design, construct, and maintain stormwater management facilities to minimize mosquito-related problems.

(8) To protect the water quality of the ocean and the physical characteristics of the beach area by minimizing the rates, volumes, and velocities of stormwater entering drainage systems discharging to the beach.

Sec. 14-49. Application.

The application of this article and the provisions expressed herein shall be the minimum stormwater management requirements and shall not be deemed a limitation or repeal of any other powers granted by state statute. In addition, if site characteristics indicate that complying with these minimum requirements will not provide adequate designs or protection for local property or residents, it is the designer's responsibility to exceed the minimum requirements as necessary. Town of Surfside Beach officials shall be responsible for the coordination and enforcement of the provisions of this article.

Sec. 14-50. Jurisdiction.

Article III of this chapter pertaining to stormwater management shall apply to the development or redevelopment of any land in the incorporated areas of the Town and any land development outside the corporate limits for which a request for annexation has been submitted.

Sec. 14-51. Definitions.

The following words, terms and phrases, when used in this article, shall have the meanings ascribed to them in this section, except where the context clearly indicates a different meaning:

Adverse impact shall mean any modifications, alterations, or effects on a feature or characteristic of community water or wetlands, including their quality, quantity, hydrodynamics, surface area, living resources, aesthetics or usefulness for human or natural uses which are or may potentially be harmful or injurious to human health, welfare, safety or property, or biological productivity, diversity, or stability or which unreasonably interfere with the enjoyment of life or property, including outdoor recreation. The term includes secondary and cumulative as well as direct impact.

Applicant shall mean the owner or his authorized representative of a lot or tract of land that is the site of development or proposed development activity within the scope of this article.

As-built plan shall mean a set of engineering or site drawings that delineate the specific permitted stormwater management facility (ies) and BMPs as actually constructed.

Best management practices (BMP) is a technique or series of techniques that are proven to be effective in controlling runoff, erosion, and sedimentation.

CGP (Construction General Permit) shall mean SCDHEC’s NPDES General Permit for Stormwater Discharges from Construction Activities and shall refer to the most recently approved permit #SCR100000.

Clearing shall mean the removal of trees and brush from the land, but shall not include the ordinary mowing of grass or gardening.

Culvert shall mean an enclosed symmetrical channel of comparatively short length installed to convey water from one (1) side of an embankment to the other.

Design storm events shall mean the frequency storm used for the design of stormwater management facilities (two (2) year, ten (10) year, twenty-five (25) year and the one hundred (100) year frequency storms).
Detention shall mean the collection and storage of stormwater runoff in a surface or subsurface facility for subsequent controlled discharge to a watercourse or waterbody.

Detention/retention basin shall mean a stormwater management facility for impoundment of runoff in surface storage systems (i.e., regulated systems including excavated depressions, lakes, and ponds).

Developer shall mean any person who engages in development either as the owner or as the agent of an owner of property.

Development or development activity shall mean:

1. The construction, installation, alteration, demolition, or removal of a structure, impervious surface, or drainage facility;
2. Clearing, scraping, grubbing, or otherwise removing or killing the vegetation of a site; or
3. Adding, removing, exposing, excavating, leveling, grading, digging, burrowing, dumping, piling, dredging or otherwise significantly disturbing the soil, mud, sand or rock of a site, but shall not include ordinary gardening.

Ditch shall mean a drainage channel in earth created by natural or artificial means to convey surface and subsurface water, flowing continuously or intermittently.

Drainage facility shall mean any component of the drainage system.

Drainage system shall mean the surface and/or subsurface system, which collects and conveys stormwater and surface water, and includes all watercourses, water bodies, and wetlands.

Elevation shall mean height in feet above a given known datum, such as mean sea level.

Erosion shall mean the wearing or washing away of soil by the action of water or wind.

Flood shall mean a temporary rise in the level of any water body, watercourse, or wetland, which results in the inundation of areas not ordinarily covered by water.

Grading shall mean any displacement of soil by stripping, excavating, stockpiling, or any combination thereof, but does not include ordinary gardening.

Impervious surface shall mean a surface, which has been compacted or covered with a layer of material so that it is highly resistant to infiltration by water. This term includes, but is not limited to, most conventionally surfaced streets, roofs, sidewalks, driveways, and parking lots.

Illicit connection shall mean a connection to the drainage system of any discharge that is not composed entirely of stormwater runoff and is expressly prohibited by this Ordinance.

Illicit discharge is defined in SC Water Pollution Control Permits Regulation 61-9 122.26(b)(2) and refers to any discharge to a small municipal separate storm sewer that is not entirely composed of stormwater, except discharges authorized under an NPDES permit and discharges resulting from firefighting activities.

Outfall means a point source at the discharge point of a waste stream, sewer, or drain into a receiving body of water.

Outlet facility shall mean a stormwater management facility designed to regulate the elevation, rate, and volume of stormwater discharge from detention/retention facilities.

Owner shall mean the person in whom the fee ownership, dominion, or title of real property is vested. This term may also include a tenant, if such tenant is chargeable under his lease for the maintenance of the real property, and any agent of the owner or tenant including a developer.

Person shall mean any and all persons, whether natural or artificial, and including any individual, firm, corporation, government agency, business trust, estate, trust, partnership, association, two (2) or more persons having a joint or common interest, or any other legal entity.

Post-development conditions shall mean those conditions, which are expected to exist or do exist after alteration of the natural topography, vegetation; and rate, volume, or direction of stormwater runoff, resulting from development activity.

Pre-development conditions shall mean those conditions, in terms of the existing topography, vegetation and rate, volume or direction of stormwater runoff for the site in its natural state prior to any development activity.
Primary drainage system shall mean a system that includes major drainage facilities and appurtenances for conveying stormwater and surface water from watershed areas, which equal or exceed forty (40) acres in upstream tributary area.

Project shall mean improvements and structures proposed by the applicant to be constructed on a defined site as part of a common plan of development.

Rate shall mean a volume of water passing a point per unit of time, which is generally expressed in cubic feet per second (cfs).

Receiving bodies of water shall mean any water bodies, watercourses, or wetlands into which surface waters flow either naturally or in manmade ditches or in a closed conduit system.

Receiving water stage shall mean the elevation at which stormwater is discharged from a receiving water body, either through regulated facilities or nonregulated facilities.

Retention shall mean the collection and storage of stormwater runoff without subsequent discharge to surface waters.

Return period shall mean the average length of time between rainfall events having the same amount of precipitation and length of time over which the precipitation occurs.

Runoff shall mean that part of rainfall that is not absorbed into the site, but as surface water, flows from or over the site.

SCDHEC shall mean the South Carolina Department of Health and Environmental Control.

Secondary drainage system shall mean a system that includes minor storm sewer systems, ditches, swales; and appurtenant structures and systems for conveying stormwater and surface water from watershed areas, which are less than forty (40) acres in upstream tributary area.

Sediment shall mean fine, particulate material, whether mineral or organic, that is in suspension and is being transported or has been transported from its site of origin by water or air.

Sedimentation facility shall mean any structure or area, which is designed to retain suspended sediments from collected stormwater runoff, to include sediment basins.

Site shall mean any tract, lot or parcel of land or combination of tracts, lots or parcels of land, which are in common ownership, or are contiguous and in diverse ownership where development is to be performed as part of a unit, subdivision, or project.

Sod is a square of natural grass to be placed as an erosion control measure.

Storm sewer shall mean an artificial drainage facility or system designed to collect and transport stormwater runoff from storms of frequent occurrence, such as two-year, five-year, or ten-year events.

Stormwater management facility shall mean a drainage facility which is designed, constructed, and maintained to mitigate the detrimental effects of stormwater runoff generated by development activity by encouraging infiltration and percolation, attenuating peak discharge rates and volumes, reducing and controlling erosion and sediment transport, or otherwise approximating the pre-development hydrologic conditions of a site.

Stormwater management plan shall mean drawings, maps, calculations, and legal documents prepared in accordance with the provisions of this article with the purpose of mitigating detrimental effects of stormwater runoff generated by development activities.

Tail water shall mean the depth of ponding of water at the outlet of a culvert as measured from the culvert invert to the water surface in the outlet channel.

Vegetation shall mean all plant growth including, but not limited to, trees, shrubs, vines, ferns, mosses, and grasses.

Volume of rainfall shall mean the amount of precipitation occurring over the duration of a storm event, generally expressed in inches.

Volume of runoff shall mean the quantity of stormwater runoff generated upstream of a particular point or stored in a stormwater management facility, generally expressed in cubic feet (cf) or acre-feet (acre-ft.).

Water body shall mean any natural or artificial pond, lake, reservoir, or other area which ordinarily or intermittently contains water and which has a discernible shoreline.
**Section 14-52. Applicability.**

A stormwater management plan (SWMP) prepared in accordance with this article must be approved by Town of Surfside Beach officials for all development within the Town to include, but not be limited to;

1. All additions to existing dwellings, including construction of new residences, in the R-1, R-2 and R-3 districts.
2. All development for multifamily, institutional, commercial, industrial, or other land development projects in the C-1, C-2 and C-3 districts.
3. Construction of a new street, driveway or roadway; provided, however, that a stormwater management plan shall not be required for the paving or resurfacing of any street, driveway or roadway existing on October 1, 1985.
4. Altering, rerouting, deepening, widening, obstructing, or changing the characteristics of an existing drainage system or taking action such as filling or grading that would create adverse impact on the drainage system.
5. Commencing any other development activity, which may have adverse impact on any wetland, watercourse, or water body.
6. No property owner shall cause or allow alteration of grade elevations on their property that will direct or cause stormwater runoff onto adjacent properties. Any property grade elevation alterations or approved stormwater management plans shall divert excess water to the Town's stormwater drainage system by natural means. The lowest portion of the structure must be (12) inches above the bottom of the lowest point where drainage enters the nearest stormwater conveyance area. The height of amount of lot fill is limited to, and shall not exceed, the elevation of all adjacent properties. A permit, inspection, and approval by Building department or other entities as may be retained by the Town are required for any alteration of property grade elevations.

The Town reserves the right to review all plans for lot fill and maintains the right to provide for reasonable drainage. Please refer to section 14-61, which provides performance objectives for stormwater management within the Town.

7. General permits are available for development activities less than four hundred (400) square feet in size which meet the conditions herein.

**Section 14-53. Powers of the Town**

The Town of Surfside Beach shall have the power to administer and enforce all regulations and procedures adopted to implement this Ordinance, including the right to maintain an action or procedure in any court of competent jurisdiction to compel compliance with or restrain any violation of this Ordinance.

The Town of Surfside Beach shall have the right of entry on or upon the property of any person subject to this Ordinance issued hereunder. The Town of Surfside Beach shall have right of entry to carry out inspections, surveillance and monitoring procedures necessary to determine compliance and noncompliance with permit conditions including the prohibition on illicit discharges to the Town’s storm sewer system and receiving waters.
Sec. 14-54. Construction and Scope

(1) The boundaries and jurisdiction of this Ordinance shall extend to the corporate limits of the Town, including all areas hereafter annexed thereto, and such additional areas lying outside the corporate limits of the Town as shall be approved by Town Council.

(2) The Town of Surfside Beach officials shall be responsible for the coordination and enforcement of the provisions of this Ordinance and the SWMP.

(3) The application of this Ordinance and the provisions and references expressed herein shall be the minimum stormwater management requirements and shall not be deemed a limitation or repeal of any other ordinances of the Town of Surfside Beach or powers granted to the Town by the State of South Carolina statues, including, without limitation, the power to require additional or more stringent stormwater management requirements. If site characteristics on new development and/or redevelopment indicate that complying with these minimum requirements will not provide adequate designs or protection for local property, residents, or the environment, the property owner, operator, or person responsible for land disturbing activities is required to provide additional and appropriate management practices, control techniques, system design, and engineering methods to attain an adequate level of protection.

Sec. 14-55. Exemptions.

Exemptions. The following activities are exempt from the requirements of this article:

(1) Bona fide agricultural pursuits including gardening except where an artificial drainage system will be used to increase the flow of surface water from the owner's land;

(2) Maintenance work performed on existing stormwater detention/retention structures and drainage channels for the purpose of public health and welfare, provided such work does not alter the function, capacity, or integrity of such structures or channels and is performed by or approved by the Town.

Additionally, the following non-stormwater sources are exempt from the requirements of this article:

(1) Water line flushing
(2) Landscape irrigation
(3) Diverted stream flows
(4) Rising ground waters
(5) Uncontaminated ground water infiltration (infiltration is defined as water other than wastewater that enters a sewer system, including foundation drains, from the ground through such means as defective pipes, pipe joints, connections, or manholes. Infiltration does not include, and is distinguished from, inflow.)
(6) Uncontaminated pumped ground water
(7) Discharges from potable water sources
(8) Foundation drains
(9) Air conditioning condensate
(10) Irrigation water (not consisting of treated, or untreated, waste water)
(11) Springs
(12) Water from crawl space pumps
(13) Footing drains
(14) Lawn watering
(15) Individual residential car washing
(16) Natural flows from riparian habitats and wetlands
(17) Dechlorinated swimming pool discharges
(18) Street wash water
(19) Discharges or flows from fire fighting activities
Sec. 14-56. Prohibitions and Illicit Connections.

(a) Prohibitions.

(1) It is unlawful for any person, company, corporation, etc., to throw, drain, run, or otherwise discharge to any component of the Town's stormwater system, including streets, highways, rights-of-way, or to cause, permit or suffer to be thrown, drain, run, or allow to seep or otherwise discharge into such system, any organic or inorganic matter that shall cause or tend to cause pollution or blockages to such waters, as provided for in this article.

(2) In the event of an accidental discharge to the Town drainage system of any material or substance other than stormwater runoff, the person concerned shall inform the Town Building department immediately of the nature, quantity and time of occurrence of the discharge. The person concerned shall take immediate steps to contain, treat or take other actions to minimize the effects of the discharge on the Town drainage system and receiving streams. The person shall also take immediate steps to ensure no recurrence of the discharge.

(b) Illicit connections.

(1) It is unlawful for any person, company, corporation, etc., to connect any pipe, open channel, or any other conveyance system to the Town drainage system that discharges anything except stormwater discharges that are identified on the approved stormwater management and sediment control plan.

(2) Improper connections in violation of this article must be disconnected and redirected to an acceptable outlet, as approved by the Town engineer.

Sec. 14-57. Appeals.

Determinations made by the Building department regarding the enforcement or provisions of this article may be appealed, in writing, to the Building board of appeals in accordance with the ordinances of the Town.

Sec. 14-58. Pre-application conference.

(a) Purpose. The purpose of the pre-application conference is to discuss acceptable sources of information concerning stormwater management, applicable requirements and information known about the subject property in order to identify issues that should be addressed by the applicant. Pre-application conferences are encouraged, but are not required.

(b) Required information. If a pre-application conference is requested by the applicant, the application form shall be submitted to the Building department and shall be accompanied by the following information:

(1) A location map of the property with appropriate lot and block number; and

(2) A statement and sketch of the property at a reasonable scale expressing the intent and scope of the proposed project and the anticipated extent of disturbance to the natural and existing drainage system on and around the site.

(c) Review process. The application form, request for pre-application conference, and the required information shall be reviewed by the Building department after submission of the completed application form for utilization at the pre-application conference. The conference will be held between the applicant or his designated representative and a designated representative of the Building department.

(d) Fees. A fifty dollar ($50.00) fee shall be charged for the pre-application review and conference.

Sec. 14-59. Stormwater management plan permit application.

(a) Purpose. The purpose of the stormwater management plan review process is to provide an organized framework for evaluating and acting upon proposals for development as they relate to stormwater management issues.
(b) **Required information.** The applicant shall furnish the Building department with five (5) copies of the application form together with all plans and data required by the provisions of the SCDHEC Standards for Stormwater Management and Sediment Reduction Regulation 72-300 through 72-316. Plans and data shall bear the seal of a professional engineer registered in the state of South Carolina. Each application shall include a statement that any land clearing, construction, or development involving the movement of earth shall be in accordance with the Erosion and Sediment Control Plan and that a certified contractor shall be on site when construction or grading activity takes place.

(c) **Review process.**

(1) The Building department will ascertain whether the application form is complete and contains the information required by the provisions of the SCDHEC Standards for Stormwater Management and Sediment Reduction Regulation 72-300 through 72-316. If the Building department determines that the application form and supporting plans and data are complete, the Building department shall notify the applicant that the application form is complete.

(2) If the Building department determines that the application form is not complete, the Building department shall notify the applicant, in writing, that the application form is not complete and specify the deficiencies of the application form. No further action shall be taken by the Town with respect to the application form. If the applicant fails to submit the information necessary to complete the application form together with supporting plans and data within three (3) months after the Building department has notified the applicant that the application form together with supporting plans and data is not complete, the application form shall be determined abandoned by the applicant. If the application form is determined to be abandoned by the applicant, the applicant must resubmit on a new application form all information together with supporting plans and data along with a new application fee to the Building department in order to have the project reviewed.

(3) After the Building department has notified the applicant that the application form is complete, the Building department shall approve the application form or shall reject the application form and recommend that specified conditions conforming to the requirements of this article be met as a condition precedent to approval of the application form, and shall notify the applicant.

(4) The stormwater management plan application form, together with all plans and data required by the provisions of the SCDHEC Standards for Stormwater Management and Sediment Reduction Regulation 72-300 through 72-316, must be reviewed by a registered professional engineer, registered landscape architect, or tier B land surveyor. This may include Building department staff or entities as may be retained by the Town.

(5) If a decision on the application form is not rendered by the Building department within twenty (20) calendar days after written notification to the applicant that the application form is complete, the application form will be deemed approved without conditions. If the applicant feels aggrieved as a result of denial of the application form, he may appeal the decision of the Building department to the Building Board of Appeals consistent with the requirements of section 14-57.

(6) All land disturbing activities greater than one-half (½) acre requires application for construction general permit coverage. This submittal shall be made in accordance with the NPDES phase II requirements.

(7) All Single Family Residential (SFR) construction and commercial construction projects that disturb one-half (1/2) acre or less require a building permit application that must include the Erosion Protection & Sediment Control (EPSC) Certification that contains guidance on selecting, installing, and maintaining erosion prevention and sediment controls on site. This certification requires the owner/operator to certify that these measures will be installed and maintained to prevent the discharge of sediment-laden runoff and to prevent the construction activities from causing non-compliance for any adjacent construction projects that may be under another county, state or federal permit. The application is to be filled out and signed to be considered complete.

(d) **Review criteria.** The Building department or other entities as may be retained by the Town, in approving or rejecting an application form shall consider the requirements of this article including the following criteria with respect to each application form:

(1) The characteristics and limitations of the soil at the proposed site, specifically with respect to percolation, infiltration, and water table depth;
(2) The existing topography of the proposed site and the extent of proposed topographical changes after development, this should include topographic information twenty-five (25) feet beyond the property line of the proposed development;

(3) The existing vegetation of the proposed site and the extent of proposed vegetation changes after development;

(4) The plans and specifications of structures or devices to be employed for detention, retention, erosion control, and flow attenuation;

(5) The effect the proposed water detention or retention facilities will have upon mosquito breeding habitats;

(6) The continuity of projects to be developed in phases will require the submission of a comprehensive drainage plan for the project's total boundary;

(7) The ability of the plan to meet the intent of the Town’s NPDES phase II program through implementation of appropriate proven BMPs;

(8) Wetlands information as it pertains to the proposed developed site. This should include the wetland determination information provided by the Army Corps of Engineers and corresponding wetland plat if applicable; and

(9) A geotechnical investigation report containing at a minimum, boring log and reporting, an adequate description of the soils on site with conclusions and recommendations regarding:
   a. The infiltration rate.
   b. Depth to groundwater.

(e) Fees.

   (1) A fee shall be collected at the time the application form is submitted by the applicant to the Building department and will reflect the cost of the administration and management of the review process. A Fee Schedule can be found in Section 14-68.

   (2) When work for which an approved application is required by this article is commenced prior to obtaining approval, the Building department shall establish a fee equivalent to twice the amount of the application form fee to reflect the additional administrative, inspection, and enforcement efforts required to deal with the violation. The payment of such fee shall not relieve any persons from fully complying with the requirements of this article in the execution of the work nor from any applicable penalties prescribed in this article.

Sec. 14-60. Design requirements and contents of stormwater management plans.

(a) Responsibility of applicant. It is the responsibility of an applicant to include sufficient information for review by the building official in the application form to enable evaluation of the project. Application shall be made on the standard forms approved by the Building department.

(b) Required information from the applicant. The information supplied by the applicant shall be in conformance with all items listed in SCDHEC Standards for Stormwater Management and Sediment Reduction Regulation 72-300 through 72-316, and include the following:

   (1) Required information from applicant;
   (2) Plan contents;
   (3) Hydraulic design considerations;
   (4) Computational methodologies;
   (5) System design requirements;
   (6) Soil erosion and sediment control plan; and
   (7) A soils report completed after testing infiltration rates and depth to groundwater by a third party licensed professional.
Sec. 14-61. Performance objectives for stormwater management plans.

(a) Purpose. The purpose of this section is to establish engineering objectives for the design, construction, and maintenance activities of stormwater management plans. It is the intent of this article that the performance objectives be satisfied by all stormwater management plans.

(b) Performance objectives. Stormwater management plans will be approved, consistent with procedures in this article, when the applicant has demonstrated that the proposed development activity has been designed to be constructed and maintained to meet each of the following performance objectives:

1. To encourage the maximum use of on-site storage facilities to reduce runoff rates and volumes, and minimize erosion and sedimentation;

2. To design, construct, and maintain stormwater management facilities in a manner which regulates and controls post-development runoff to levels equivalent to or less than pre-development conditions for the 2-year, 10-year, 25-year and 100-year design storms;

3. To design, construct, and maintain stormwater management practices that manage rainfall on-site and prevent the off-site discharge of one (1) inch of runoff from the site’s disturbed area;

4. To design, construct, and maintain stormwater management facilities in such a manner that erosion or sedimentation does not exceed natural or pre-development conditions;

5. To ensure that no adverse impact on the existing system results from improper location, design and construction of stormwater management facilities;

6. To design, construct and maintain stormwater management facilities to minimize stagnant water conditions;

7. To conserve the aquatic areas associated with the Town and reduce pollutant loadings to the aquatic areas. Address the requirements of NPDES phase II in an integrated, watershed approach. Each effort to meet the requirements will be completed in a measurable manner.

8. Long-term maintenance of systems; and

9. Satisfy all items listed in SCDHEC Standards for Stormwater Management and Sediment Reduction Regulation 72-300 through 72-316.


(a) Granting of easement. The stormwater management facility required by this article shall be constructed by [the owner] and maintained by the owner. The owner shall be required to grant an easement to the Town which will permit the Building department officials or other Town employees or agents:

1. Adequate ingress and egress to inspect the premises; and

2. If necessary, to take corrective maintenance action should the owner fail to properly maintain the system.

(b) Maintenance Covenants. Property owners are responsible for maintaining stormwater quantity and quality facilities and all conveyance structures located on their property. Prior to the issuance of a permit approval for a construction activity, the property owner shall execute a legal document entitled “Town of Surfside Beach Covenants for Permanent Maintenance of Stormwater Systems”. The property owner shall record the Covenants in the Office of The Register of Deeds in Horry County. The location of the facility, the recorded location of the Covenants document, and a statement of the property owner’s responsibility for maintenance shall be included and also shown on a plat. In the case of an operator other than the property owner, a copy of a maintenance agreement between the operator and the property owner shall be included with the Covenants, defining the operators’ duties and responsibilities and that the property owner shall be responsible for maintenance activities upon the termination of the agreement.

(c) Failure to maintain. Should the owner fail to properly maintain the system to be maintained by him, the Building department shall give written notice to the owner of record as appears on the latest property tax rolls, by certified, return receipted mail, of the nature of the violation, and shall order the corrective action necessary. Should the owner fail, within thirty (30) calendar days from the date of the written notice, to take corrective action to the satisfaction of the Building department or shall fail to appeal the
notice and order within thirty (30) calendar days of the date of the written notice, the Town may enter
upon the lands, take such corrective action as the Building department may deem necessary and place
a lien on the property of the owner for the costs thereof.

(d) **Town maintenance.** Certain off-site systems as may be identified by the Building department which are
to provide general public benefits may be accepted by the Town for maintenance. All areas and/or
structures to be maintained by the Town must be dedicated to the Town by plat or separate instrument
and accepted by resolution of the Town council.

Sec. 14-63. Compliance with plan; amendments to plan.

(a) The applicant shall be required to adhere strictly to the stormwater management plan submitted by the
applicant and approved by the Building department. Any changes or amendments to the plan must be
approved by Building department officials in accordance with the procedures set forth in this article for
obtaining stormwater management plan approval. Town officials shall, and are granted by this section,
ispection rights and right of entry privileges in order to ensure compliance with the requirements of this
article.

(b) After completion of the project and prior to issuance of a certificate of occupancy, Building department
officials shall require from the applicant that the professional engineer in charge certify compliance with
terms of the approved stormwater management plan and permit.

(c) Town staff or other entities as may be retained by the Town will conduct periodic site inspections on all
land disturbing activities. The person responsible for the land disturbing activity shall notify the Town
before initiation of construction and upon project completion when a final inspection will be conducted to
ensure compliance with the approved stormwater management plan.

(d) The applicant shall provide an "as-built" plan (based on field inspections), signed and sealed by a
registered professional, to be submitted upon completing of the stormwater management facilities
included in the Stormwater Management and Sediment Control Plan. The registered professional shall
state that:

(1) The facilities have been constructed as shown on the "as-built" plan; and

(2) The facilities meet the approved stormwater management and sediment control plan and
specifications or achieve the function for which they were designed.

(e) No stage work, related to the construction of stormwater management facilities and BMPs, shall proceed
until the next preceding stage of work, according to the sequence specified in the approved staged
construction and inspection control schedule is inspected and approved.

(f) The owner shall be responsible for conducting their on-site erosion control inspections as per the SWPP
plan with a certified inspector as outlined in the SCDHEC regulations. Reports for the inspections shall
be kept on site and made available to the Town of Surfside Beach upon request.

Sec. 14-64. Detection and Elimination of Illicit Discharges and Improper Disposal.

**Illicit Connections.**

(a) It is unlawful for any person to connect any pipe, open channel, or any other conveyance system that
discharges anything, except stormwater or other approved discharges into the Town of Surfside Beach
stormwater management system or facility or a Water of the State.

(b) It is unlawful for any person to continue the operation of any such illicit connection regardless of
whether the connection was permissible when constructed. Improper connections in violation of this
Ordinance must be disconnected and redirected, if necessary, to the satisfaction of the Public Works
Department or their designee and any other federal, state, or local agencies or departments regulating
the discharge.

(c) It is unlawful for any person to throw, drain, or otherwise discharge to a Town of Surfside Beach
stormwater management system or facility or to cause, permit, or allow a discharge that is composed
of anything except stormwater or unpolluted water which is approved by the Public Works Department.
The Public Works Department shall develop procedures for detecting, tracking, and eliminating illicit discharges and improper disposals to the stormwater system.

Detection of Illicit Connections.

(a) The Public Works Department shall take appropriate steps to detect and eliminate illicit connections to the Town of Surfside Beach stormwater systems, including the adoption of a program to screen illicit discharges and identify their source or sources, perform inspections, and levy fines if not removed.

(b) The Public Works Departments shall take appropriate steps to detect and eliminate improper discharges. These steps may include programs to screen for disposal, programs to provide for public education and public information, inspection, levying fines, and other appropriate activities to facilitate the proper management and elimination of illicit discharges.

Improper Disposal.

No person shall throw, deposit, leave, maintain, keep, or permit to be thrown, deposited, left, or maintained, in or upon any public or private property, driveway, parking area, street, alley, sidewalk, component of the storm drain system, any refuse, rubbish, garbage, litter, pet fecal matter, or other discarded or abandoned objects, articles, and accumulations, so that the same may cause or contribute to pollution. Yard debris, including natural foliage, may be deposited in the public right of way but not in or on any stormwater conveyance structures, including inlets and gutters, but only if a collection service is available. Wastes in proper waste receptacles may be placed in the street for collection, but again only if collection by or through the Town of Surfside Beach is in place. No waste or yard debris shall be placed in the street without such a collection service.

Sec. 14-65. Enforcement.

If Town of Surfside Beach officials determine that the project is not being carried out in accordance with the approved plan or that any project subject to this article is being carried out without approval, Town officials are authorized to take the following actions:

1. Written notice. Issue written notice to the owner by certified, receipted delivery mail specifying the nature and location of the alleged noncompliance, with a description of the remedial actions necessary to bring the project into compliance within a reasonable specified time.

2. Stop work order. Issue a stop work order by certified, receipted delivery mail or receipted hand delivery directing the applicant or owner to cease and desist all or any portion of the work which violates the provisions of this article, if the remedial work identified in the written notice is not complete within the specified time.

3. Revocation of approval. Should the applicant or owner fail to bring the project into compliance with the written notice and stop work order, he shall then be subject to immediate revocation of the stormwater management plan permit and all building permits issued by the Building department with respect to the project and to the penalties described in this article. Notice of such revocation shall be made by certified receipted delivery. In the event of such revocation, no stormwater management plan permit fees or building permit fees shall be refunded.

4. Appeal. Any notice, order, or revocation shall become final unless the person named therein requests a hearing before the Building Board of Appeals pursuant to section 14-57. Such request shall be made in writing no later than ten (10) calendar days after the date such notice order or revocation is served.

Sec. 14-66. Penalties for violation.

Any person who violates or causes to be violated any provision of this article or permits any such violation or fails to comply with any of the requirements in this article shall be guilty of a misdemeanor. Each day upon which such violation occurs shall constitute a separate offense. In addition to any other remedies, whether civil or criminal, the violation of this article may be restrained by injunction, including mandatory injunction and otherwise abated in any manner provided by law.

(a) This article shall not be construed to prevent the doing of any act necessary to prevent material harm to or destruction of real or personal property as a result of a present emergency including, but not limited to, fire, infestation by pests, or hazards resulting from violent storms or hurricanes, or when the property is in imminent peril and the necessity of obtaining a permit is impractical and would cause undue hardship in the protection of the property.

(b) A report of any such emergency action shall be made to the Building department by the owner or person in control of the property upon which emergency action was taken as soon as practical, but not more than ten (10) calendar days following such action. Further, the property on which the emergency action is taken shall be brought back to acceptable standards as determined by the Building department within thirty (30) calendar days after initiation of such action.

Sec. 14-68. Fee schedule.

The following is the schedule of fees applicable to development within the jurisdiction of and pursuant to this article:

(1) Permit fees:

   (a) Residential single-family and two (2) or more lots (simultaneous construction and closeout): three hundred fifty dollars ($350.00) each lot.
   (b) Residential duplex permit (two (2) units with common lot line): four hundred seventy-five dollars ($475.00).
   (c) Residential multifamily (up to sixteen (16) units): nine hundred dollars ($900.00).
   (d) Residential multifamily (seventeen (17) or more units): one thousand eight hundred dollars ($1,800.00).
   (e) Commercial (up to two (2) acres): nine hundred dollars ($900.00).
   (f) Commercial (over two (2) acres): one thousand eight hundred dollars ($1,800.00).

(2) Plan review and construction observation fees (non-NPDES projects):

   (a) Residential single-family and two (2) or more lots (simultaneous construction and closeout): three hundred fifty dollars ($350.00) plus forty dollars ($40.00) per lot up to four (4) lots; five hundred ten dollars ($510.00) plus twenty dollars ($20.00) per lot, five (5) or more lots.
   (b) Residential duplex (two (2) units with common lot line): four hundred seventy-five dollars ($475.00).
   (c) Residential multifamily (up to sixteen (16) units): nine hundred dollars ($900.00).
   (d) Residential multifamily (seventeen (17) or more units): one thousand eight hundred dollars ($1,800.00).

(3) Plan review and construction observation fees (NPDES projects):

   (a) Residential, two (2) or more lots (simultaneous construction and closeout): three hundred fifty dollars ($350.00) plus seven hundred fifty dollars ($750.00) for MS4 NPDES work.
   (b) Residential multifamily (up to sixteen (16) units): nine hundred dollars ($900.00) plus nine hundred dollars ($900.00) for MS4 NPDES work.
   (c) Residential multifamily (seventeen (17) or more units): one thousand eight hundred dollars ($1,800.00) plus one thousand eight hundred dollars ($1,800.00) for MS4 NPDES work.
   (d) Commercial (up to two (2) acres): nine hundred dollars ($900.00) plus nine hundred dollars ($900.00) for MS4 NPDES work.
   (e) Commercial (over two (2) acres): one thousand eight hundred dollars ($1,800.00) plus one thousand eight hundred dollars ($1,800.00) for MS4 NPDES work.
The base fee plus a lot fee includes an initial plan review by the Building department staff, public works, Town engineer, and/or an attorney. The initial review includes reviewing the plans, conducting a committee meeting to assimilate comments from the reviewer, forwarding comments to the developer, and a second plan review to ensure comments are incorporated in the plans. It will also entail the pre-application conference conducted by the Building department if requested by the applicant.

Third review: one hundred dollars ($100.00).

Fourth review: one hundred fifty dollars ($150.00).

Fifth review: two hundred dollars ($200.00).

Sixth or more (per review): two hundred fifty dollars ($250.00).

Reviews above the number indicated in the base fee initial plan review process (in excess of two (2) by any member of the review team or the committee as a whole) will result in an excess review fee being assessed to the applicant in accordance with the schedule above. Such fee shall be collected prior to initiation of the review, and the timetable indicated for review by the Building department shall not commence until the appropriate fee is paid.

Additional fees may be required by the Town of Surfside Beach to be in compliance with the NPDES MS4 requirements. Owner, contractor and/or developer will be notified if additional fees are incurred.

Sec. 14-69. General permits for residential construction.

(a) Notice of intent (NOI). A notice of intent shall be provided to the Town for review and compliance with the general permit conditions. The notice of intent for general permitting will include the following:

1. The mailing address and location of the construction site for which the notification is submitted. Where a mailing address for the site is not available, the location can be described in terms of latitude.

2. The owner's name, address, and telephone number.

3. The name, address, and telephone number of the person or entity with day-to-day operational control that have been identified at the time of the NOI.

4. The name of the watershed and drainage features and the ultimate receiving water.

5. An estimate of project start and completion dates, estimates of the number of acres of the site, and a certification that a stormwater plan has been performed for the facility in accordance with the guidance provided in this section.

6. Proposed compliance methods such as, but not limited to, the following:
   a. Option A. Infiltration.
   b. Option B. Biofiltration swale.
   c. Option C. Driveway drain storage.

7. A geotechnical investigation report containing at a minimum, boring log and reporting, an adequate description of the soils on site with conclusions and recommendations regarding:
   a. The infiltration rate.
   b. Depth to groundwater.

(b) Stormwater controls and measures guidelines. Each plan must include a description of appropriate stormwater controls and measures that will be implemented at the construction site. If the following guidance is sufficient to meet specific site constraints, the drawings in the section can suffice.

1. Option A—Infiltration; purpose. Infiltration systems are used primarily as water quality management practices. Stored runoff gradually infiltrates into the surrounding soil. The surface of the system can be covered with grating and/or consist of stone, gabion, sand or a grassed area with a surface inlet. Utilizing underground pipes within the trench can increase the temporary storage capacity of the system and can sometimes provide storage for flooding control.
a. Infiltration systems are suitable for use where the subsoil is sufficiently permeable to provide a reasonable rate of infiltration. They are also practical where the water table is sufficiently lower than the design depth of the facility to prevent pollution of the groundwater.

b. Infiltration systems are not practical for large drainage areas. Generally, infiltration systems should be limited to five (5) acres. Multiple systems can be considered.

c. Infiltration practices are generally suited for low to medium density development (thirty-eight (38) percent to sixty-six (66) percent impervious cover).

d. Determine if the development conditions and drainage area are appropriate for an infiltration system application.

e. Infiltration systems are assumed to have rectangular cross-sections.

f. All systems should be designed to capture sediment prior to entering the reservoir.

g. Backfill material for the system should be clean aggregate with a maximum diameter of three and one-half (3.5) inches and a minimum of one and one-half (1.5) inches. Void space should be forty (40) percent.

h. An eight (8) inch deep bottom sand layer is required for all systems to promote better drainage and reduce the risk of soil compaction when backfilled with stone.

i. The aggregate fill material should be surrounded with an engineered filter fabric.

j. A nonerosive overflow channel leading to a stabilized watercourse should be provided, as necessary, to insure that uncontrolled, erosive, concentrated flow does not develop.

k. Provide for maintenance and inspection. A catch basin should be installed for every fifty (50) feet of infiltration system. The catch basin should be placed in the middle of the system.

l. No fencing, landscaping, or any other permanent establishment of any kind can be set within or upon the infiltration system.

(2) Option B—Biofiltration swale; purpose. The purpose of a biofiltration swale is to convey stormwater runoff at a nonerosive velocity in order to enhance its water quality through infiltration, sedimentation and filtration. Check dams are used within the swale to slow the rate and create small, temporary retention areas.

a. A biofiltration swale is a broad and shallow earthen channel vegetated with erosion-resistant and flood-tolerant grasses. Check dams are strategically placed in the swale to encourage retention behind them. The swale must be underlain by an appropriate or engineered soil to provide for infiltration.

b. Grassed swales engineered for enhancing water quality control cannot convey large flows. The contributing drainage areas must be kept small. Grassed swales are generally suited to densities of development (sixteen (16) percent to thirty-seven (37) percent impervious).

c. Soils should have moderate to high infiltration rates of twenty-seven hundredths (0.27) inches per hour or greater.

d. Depth to water table should be at least three (3) feet.

e. Determine if the development conditions and drainage area are appropriate for an infiltration system application.

f. A swale should have a trapezoidal cross-section to spread flows across its flat bottom. Minimum bottom width should be two (2) feet and maximum six (6) feet in order to maintain sheet flow across the bottom and to avoid concentration of low flows.

g. Flow depth is determined by vegetation height and hydraulics.

h. Velocity should be no greater than one and one-half (1.5) feet per second. Maximum design velocity is five (5) feet per second.

i. The minimum slope is between three-fourths (0.75) and one (1) percent. The maximum slope depends upon what is needed to maintain the desired flow velocities to provide adequate storage. Generally, longitudinal slope should be between one (1) to three (3) percent. The slope should never exceed five (5) percent.
j. A swale should have the capacity to convey the peak flows from a ten-year event without exceeding the maximum permissible velocities.

k. Vegetation must be maintained to design standards with a dense cover of water-tolerant, erosion-resistant species. Appropriate vegetative species for use in the swale are, but not limited to, tall fescue, reed canary grass, redtop, bulls tongue, and others.

l. Check dam maximum height is eighteen (18) inches and should not exceed one-half (½) the height of the swale bank. Filter fabric is required under riprap check dams. Dams should be placed at the discharge point of the swale.

m. Provide for maintenance and inspection.

n. No fencing, landscaping or any other permanent establishment of any kind can be set within or upon the infiltration system

(3) Option C—Driveway drain storage. The purpose of driveway drain storage is to store and treat stormwater runoff through infiltration, sedimentation and filtration, the grades, subsoils, drainage characteristics, and groundwater conditions are suitable.

a. Slopes must be less than five (5) percent.

b. Soils must be verified.

c. The contributing drainage areas must be kept small. Soils should have moderate to high infiltration rates of twenty-seven hundredths (0.27) inches per hour or greater.

d. Depth to water table should be at least three (3) feet.

e. Any other stormwater entering area must be pretreated.

f. Driveway drains must be placed over a highly permeable layer of open-graded gravel or crushed stone. The void spaces in the aggregate layers act as the storage reservoir for stormwater.

g. Filter fabric is placed beneath the gravel and stone layers to screen out fine soil particles.

h. Perforated pipe may be added to discharge excess stormwater after the reservoir is filled.

i. Provide for maintenance and inspection.
DIVISION 2. - DESIGN REQUIREMENTS FOR PLANS

Sec. 14-70. Responsibility of applicant.

Sec. 14-71. Required information from applicant.

Sec. 14-72. Performance Objectives.

Sec. 14-73. General Requirements.

Sec. 14-74. Hydraulic Design.

Sec. 14-75. System management system design requirements.

Sec. 14-76. Soil erosion and sediment control plan.

Sec. 14-70. - Responsibility of applicant.

It is the responsibility of an applicant to include sufficient information in the stormwater management plan to enable evaluation of the potential and predicted impact of the proposed activity on all affected lands and water, and the effectiveness and acceptability of the measures proposed by the applicant of preventing or reducing adverse impact.

Sec. 14-71. - Required information from applicant.

All items listed in SCDHEC Standards for Stormwater Management and Sediment Reduction Regulation 72-300 through 72-316, and including the following:

1. Stormwater management plan application form.
   a. The name, address and telephone number of the applicant, and the owner if different from the applicant;
   b. Name, address and phone number of the professional engineer; and
   c. The legal description of the property or plat with location map.

2. Predevelopment site information.
   a. Location sketch showing the parcel, major adjacent roads, water bodies and existing drainage patterns through and around the site at a scale of one (1) inch equals one hundred (100) feet or greater;
   b. Topographic map of the site at a scale of at least one (1) inch equals one hundred (100) feet or greater with one-foot contour intervals and spot elevations, as needed, tied into an approved U.S.G.S. datum;
   c. Identification of Soil Conservation Service (SCS) soils characteristics of the site indicating seasonal water table elevations and general soils suitability;
   d. Infiltration tests and soil borings performed by a third-party licensed geotechnical professional, if infiltration or subsurface systems are proposed, representative of design conditions, a minimum of one soil boring log is required for every fifty (50) feet of trench length. A minimum of two (2) soil boring logs will be required for each trench location.
   e. Location of 100-year floodplain with known floodways identified on a map at a scale of one (1) inch equals one hundred (100) feet or greater, using flood insurance data published by the Federal Emergency Management Agency (FEMA) or its successors. This information may be recorded upon the topographic map of the site required pursuant to subsection (2) b.

3. Stormwater management plan. Stormwater management and sediment control plans shall include as a minimum the following:
a. A vicinity map, using the appropriate USGS quadrangle sheet, indicating a north arrow, scale, boundary lines of the site, and other information necessary to locate the development site.

b. The maximum scale shall be one (1) inch equals one hundred (100) feet.

c. The existing and proposed topography of the development site except for individual lot grading plans in single-family subdivisions to include a minimum of one hundred (100) feet outside all property lines.

d. Physical improvements on the site, including present development and proposed development.

e. Location, dimensions, elevations, and characteristics of all existing and proposed stormwater management facilities.

f. All areas within the site, which will be included in the land disturbing activities, shall be identified and the total disturbed area calculated.

g. The location of BMPs for stormwater quality and sediment control including temporary and permanent vegetative and structural measures.

h. An anticipated starting and completion date of the various stages of land disturbing activities and the expected date the final stabilization will be completed.

i. A determination that no occupied first floor elevation of any structure is below the 100-year plus three (3) feet flood elevation.

j. For subdivisions, directional arrows should be shown on the plan for each planned lot in the subdivision to show the drainage direction. The direction of flow cannot be changed without a revision to the plan.

k. Stormwater management and sediment control plans shall include designation of all easements needed for inspection and maintenance of the drainage system and stormwater management facilities and BMPs. As a minimum, easements shall have the following characteristics:

   1. Provide adequate access to all portions of the drainage system, stormwater management structures and BMPs.

   2. Provide sufficient land area for maintenance equipment and personnel to adequately and efficiently maintain the system, as outlined in the Horry County Stormwater Design Criteria Manual.

   3. Restriction on easements shall include prohibiting all fences, berms and structures, which would interfere with access to the easement areas and/or the maintenance function of the drainage system.

l. To improve the aesthetic aspects of the drainage system, a landscape plan for all portions of the drainage system shall be part of the stormwater management and sediment control plan. This landscape plan shall address the following.

   1. Tree saving and planting plan.

   2. Types of vegetation that will be used for stream bank stabilization, erosion control, sediment control, aesthetics and water quality improvement.

   3. Any special requirements related to the landscaping of the drainage system and efforts necessary to preserve the natural aspects of the drainage system.

   4. Landscaping shall not be installed within the easement unless it is a part of the drainage system (for example, low impact development).

m. The stormwater management and sediment control plan shall include all engineering calculations needed to design the system and associated structures including existing and developed velocities, peak rates of discharge, and hydrographs of stormwater runoff at all existing and proposed points of discharge from the site. A table on the front of the plans shall be utilized to provide the following information:

   1. Pre-development and post-development discharges for the 2-year, 10-year, 25-year and 100-year storms.
2. Tail water conditions must be considered.
3. Rainfall intensities used.
4. Shape factors (peaking factors used).
5. Pond information [Normal Water Level (NWL), Top of Bank (TOB), bottom of pond, 25-year and 100-year water elevations].

n. Description of site conditions around points of all surface water discharge including vegetation and method of flow conveyance from the land disturbing activity.
o. Construction and design details for structural controls.
p. All stormwater management and sediment control plans submitted for approval shall contain a statement by the person responsible for the land disturbing activity that the land disturbing activity will be accomplished pursuant to the approved plan and that responsible personnel will be assigned to the project.
q. All stormwater management and sediment control plans shall contain a statement by the person responsible for the land disturbing activity, of the right of the town engineer to conduct on-site inspections.
r. Stormwater ponds and lakes shall be constructed with an aquatic bench/shelf at least ten (10) feet wide, one (1) foot in depth under the NWL, and shall be provided around the entire perimeter of the pond or lake.
s. All ponds and conveyance channels shall be constructed to have one (1) foot of freeboard from the 25-year storm elevation.
t. A Stormwater pollution prevention plan as per SCDHEC guidelines, to include all elements as required by SCDHEC regulations.

(4) Calculations.

a. Average slopes and hydraulic length for both the present condition and for the future developed condition;
b. The predevelopment conditions of the site;
c. The amount of pervious and impervious surface for both the predevelopment conditions of the site and the post-development conditions of the site;
d. Calculations of the peak rate of discharge for the required design storms and management of the first one (1) inch of runoff, all in accordance with the methods outlined in section 14-75.
e. Runoff routing calculations for detention basins showing discharges, elevations, and volumes retained and/or detained during applicable storm events and for storm events of more frequent return period to ensure the effectiveness of the system in controlling lesser events;
f. For surface storage facilities, stage-storage computations and stage-discharge computations for the major discharge structure, based on the appropriate hydraulics;
g. Depth to water table and infiltration rates performed by a third-party licensed geotechnical professional; and
h. Calculations supporting the design of any subsurface percolation system proposed.

(5) Legal and institutional information including:

a. Every stormwater management plan shall identify the person or entity responsible for construction, operation and maintenance of the stormwater management facility from the date of commencement of the project through the later of the date of completion of the project or the date of acceptance of responsibility for maintenance of the project's stormwater management facility by another person or legal entity.

b. If the project involves the subdivision of a site, the developer must submit a proposed declaration of restrictions for the site which shall contain affirmative perpetual covenant running with the land imposing upon each of the owners of the site, and their respective successors and assigns, the obligation to appropriately maintain the stormwater management facility. The declaration of restrictions may provide for the establishment of an owners'
association and delegate to the owners' association the responsibility for appropriate maintenance of the stormwater management facility located upon the site; provided, however, that the establishment of an owners' association and the delegation to the owners' association of the responsibility for appropriate maintenance of the stormwater management facility shall not relieve the owners of the site from their obligation to appropriately maintain the stormwater management facility if the owners' association fails to adequately maintain the stormwater management facility. The declaration of restrictions shall be reviewed by the town attorney to ensure compliance with the letter and the intent of this article. No stormwater management plan shall be approved unless and until the town has notified the applicant and the town Building department that the proposed declaration of restrictions complies with the letter and intent of this article. Any amendments to the proposed declarations of restrictions shall also be submitted to the town attorney for review to ensure compliance of the declaration of restrictions with the letter and intent of this article. Upon recording the declaration of restrictions and any amendments thereto in the office of the clerk of the court for the county, the developer shall deliver to the town Building department a certified copy of the declaration of restrictions and any amendments thereto attested as true and correct by the clerk of the court for the county, which certified copies shall be maintained by the town Building department as part of its permanent records pertaining to the project.

c. If the proposed project involves the establishment of a horizontal property regime, sometimes termed "condominium", upon a site pursuant to the Horizontal Property Act, Code of Laws of South Carolina, 1976, as amended, the developer must submit for review by the town attorney, a proposed master deed for the horizontal property regime as well as a proposed declaration and petition for incorporation and proposed bylaws for an owners' association to be formed for the purpose of administering the horizontal property regime. The master deed shall contain affirmative covenants which shall clearly set forth the obligation and the responsibility incident to ownership of each unit in the horizontal property regime and its appurtenant interest in the common elements of the horizontal property regime to appropriately maintain the stormwater management facility. The master deed shall clearly indicate that the obligation and responsibility to appropriately maintain the stormwater management facility is a covenant running with the land which is binding upon all unit owners and their respective successors and assigns. The master deed shall delegate to the owners' association the responsibility for appropriate maintenance of the stormwater management facility located upon the site; provided, however, that the delegation to the owners' association of the responsibility for appropriate maintenance of the stormwater management facility shall not relieve the unit owners of their obligation to appropriately maintain the stormwater management facility if the owners' association fails to adequately maintain the stormwater management facility. The master deed declaration and petition for incorporation and bylaws of the owners' association shall be reviewed by the town attorney to ensure compliance with the letter and the intent of this article and no stormwater management plan shall be approved unless and until the town attorney has notified the applicant and the town Building department, in writing, that the proposed master deed, charter for incorporation and bylaws of the owners' association complies with the letter and intent of this article. Any amendments to the proposed master deed, charter for incorporation and bylaws of the owners' association shall also be submitted to the town attorney for review to ensure compliance of the master deed, charter for incorporation and bylaws of the owners' association with the letter and intent of this article. Upon recording the master deed, charter for incorporation and bylaws of the owners' association and any amendments thereto in the office of the clerk of the court for the county, the developer shall deliver to the town Building department a certified copy of the master deed, charter of incorporation and bylaws of the owners' association and any amendments thereto, attested as true and correct by the clerk of the court for the county, which certified copies shall be maintained by the town Building department as part of its permanent records pertaining to the project.
Sec. 14-72. - Performance objectives.

The purpose of this section is to establish engineering objectives for the design, construction, and maintenance activities of stormwater management plans. It is the intent of this article that the performance objectives be satisfied by all stormwater management plans. Stormwater management plans will be approved, consistent with procedures in this article when the applicant has demonstrated that the proposed development activity has been designed to be constructed and maintained to meet each of the following performance objectives:

1. To encourage the maximum use of on-site storage facilities to reduce runoff rates and volumes, and minimize erosion and sedimentation;
2. To design, construct, and maintain stormwater management facilities in a manner which regulates and controls post-development runoff to levels equivalent to or less than predevelopment conditions;
3. To design, construct, and maintain stormwater management facilities in such a manner that erosion or sedimentation does not exceed natural or predevelopment conditions;
4. To ensure that no adverse impact on the existing system results from improper location, design and construction of stormwater management facilities;
5. To design, construct and maintain stormwater management facilities to minimize stagnant water conditions;
6. To further reduce adverse impacts to water quality and aquatic habitat by instituting the use of controls on the sources of stormwater discharges that have a likelihood of causing aquatic environment degradation; and
7. Satisfy all items listed in SCDHEC Standards for Stormwater Management and Sediment Reduction Regulation 72-300 through 72-316.

Sec. 14-73. - General requirements.

(a) Stormwater concept and stormwater management and sediment control plans and design reports that are incidental to the overall or ongoing site design shall be prepared and stamped/sealed by a qualified, registered professional engineer, tier 2B land surveyor or landscape architect, using acceptable engineering standards and practices. All other stormwater concept and stormwater management and sediment control plans and design reports shall be prepared and stamped/sealed by a qualified registered professional engineer, using acceptable engineering standards and practices.

The engineer, surveyor, or landscape architect shall perform services only in areas of his/her competence, and shall undertake to perform engineering or land surveying assignments only when qualified by education and/or experience in the specific technical field. In addition, the engineer, surveyor, or landscape architect must verify that the plans have been designed in accordance with this article and the standards and criteria stated or referred to in this article.

(b) Innovative approaches to stormwater management shall be encouraged and the concurrent control of flooding, erosion, and sedimentation and water pollution shall be mandatory.

(c) The developer of a project that is to be developed in phases shall submit a master plan of the developer's contiguous landholdings.

(d) Development should maximize the amount of on-site rainfall infiltration and minimize direct overland runoff onto adjoining property, public drainage facilities, adjoining streets, water bodies, watercourses, and wetlands. Channeling runoff directly into watercourses shall be prohibited; instead, runoff shall be routed to decrease velocity, increase infiltration, allow suspended solids to settle, and remove pollutants.

(e) A drainage facility for discharging runoff in excess of that retained shall be provided to a watercourse.

(f) The soil types of a site and the contiguous watershed area shall be of prime consideration in the design and maintenance of all stormwater management facilities.

(g) A soil erosion and sediment control plan shall be prepared and submitted as part of the stormwater management plan.
Sec. 14-74. - Hydraulic design.

The hydrologic criteria to be used for the stormwater concept and stormwater management and sediment control plans shall be as follows, at a minimum:

(a) Tailwater conditions must be considered in the design of any stormwater practice that will discharge into tidally influenced systems.

(b) Twenty-five-year (25) design storm for all culverts, open channels (including streams, creeks, etc.), stormwater conveyance systems and drainage designs. Culverts and other stormwater conveyance systems under arterial roads shall be designed using the 50-year design storm.

(c) 10-year and 25-year design storms for all detention and retention storage facilities using procedures contained in the Horry County Stormwater Management Design Manual, SCDHEC BMP Handbook (latest edition), and/or the SC Coastal Low Impact Development (LID) Manual.

(d) All drainage designs shall be checked using the 100-year storm, plus one (1) feet, for analysis of local flooding and possible flood hazards to adjacent structures and/or property.

(e) Stormwater management practices shall be designed, constructed and maintained to manage rainfall on-site, and prevent the off-site discharge of one (1) inch of runoff from the site/s disturbed area.

(f) For the design of storage facilities, a secondary outlet device or emergency spillway shall be provided to discharge the excess runoff in such a way that no danger or loss of life or facility failure is created. The size of the outlet device or emergency spillway shall be designed to pass the 100-year storm as a minimum requirement.

(g) All stormwater best management designs shall be in accordance with the Horry County Stormwater Management Design Manual, SCDHEC BMP Handbook (latest edition), and/or the SC Coastal LID Manual. All calculations used to determine these designs shall be included in the design plan.

(g) The precipitation values for each frequency storm to be analyzed (two-year, ten-year, 25-year and 100-year) shall be the precipitation frequency estimates developed by the National Oceanic and Atmosphere Administration as set forth in the NOAA Atlas 14, Volume 2.

Sec. 14-75. – Stormwater management system design requirements.

All items listed in SCDHEC Standards for Stormwater Management and Sediment Reduction Regulation 72-300 through 72-316, and include the following:

(a) Methods of runoff computations. Accepted methods of computation are as follows:

   (1) Rational method hydrograph procedure, limited in use to developments with watershed areas of one (1) acre or less;

   (2) Soil conservation service method (see U. S. Department of Agriculture, Soil Conservation Service, National Engineering Handbook, Section 4, "Hydrology") using antecedent moisture condition II;

   (3) Unit hydrograph method; and

   (4) Other methods will be accepted only with prior approval by the building department.

(b) Receiving water stage.

   (1) Regulated systems. Existing design and maintained stage elevations will be available from the building department.

   (2) Nonregulated systems. The applicant should compute receiving water states for such systems from the best available data and submit the results to the building department for review and concurrence before utilizing such results in further computations.

   (3) Any system. Tail water stages should be considered if they have a significant influence on the design.

All stormwater management system designs should address the following at a minimum:

Must be designed, constructed and maintained in a manner which regulates and controls post-development runoff to levels equivalent to or less than pre-development conditions for the 2-year, 10-year, 25-year and 100-year design storms.
Must be designed, constructed and maintained to manage rainfall on-site and prevent the off-site discharge of one (1) inch of runoff from the site’s disturbed area.

(a) Detention/retention.

(1) At a minimum, adequate storage volume shall be provided to manage rainfall on-site and prevent the off-site discharge of one (1) inch of runoff from the site’s disturbed area. For soil conditions or groundwater table conditions which do not permit the percolation of this volume within the three (3) days following a storm event, the Building department may approve detention with filtration systems in lieu of retention.

(2) Outlet facilities shall be designed in accordance with accepted engineering principles, with particular attention given to appropriate hydraulics, including orifice, weir, and culvert hydraulics.

(3) Outlet facilities shall be so designed to attenuate the post-development peak discharge rates of 2-year, 10-year, and 25-year, 24-hour storms to be less than or equal to the peak rates of the pre-developed state of the site.

(4) Where the detention/retention basin discharges into a stream, ditch, swale, or water body, an energy dissipater may be required by the Building department to reduce discharge velocities in order to minimize soil erosion and sediment transport.

(5) For detention and retention basins, an emergency spillway may be required by the Building department to discharge flows in excess of the 25-year, 24-hour storm event. The spillway shall be designed to accommodate the peak discharge rate occurring from a 100-year, 24-hour storm event. The spillway shall be so located that the discharge does not erode the basin or receiving channel.

(6) The design of retention/detention areas shall incorporate considerations for regular maintenance and vegetation management procedures.

(b) Subsurface infiltration systems.

(1) Subsurface infiltration shall be designed on the basis of actual test data completed by a licensed geotechnical professional. Tests shall be consistent as to soils, elevations, locations, and water table depths with the system design to which the test data will be applied.

(2) Subsurface percolation systems shall be designed for prevention of clogging by fine material and for ease of cleaning with conventional sewer cleaning equipment. This may include, but not necessarily be limited to, wrapping of the perforated pipe and the seepage trench with an appropriate fabric and providing sufficient cleanouts to the system.

(3) Systems shall have an overflow with a control device to a watercourse between the subsurface percolation system and the discharge pipe. The overflow or control device shall be sized for the allowable discharge.

(c) Impervious areas. Runoff shall be discharged from impervious surfaces through retention areas, detention devices, filtering and cleansing devices prior to discharge from the project site.

(d) Stagnant water conditions. Configurations which create stagnant water conditions, such as hydraulically dead-end canals, are to be avoided regardless of the type of development.

(e) Stormwater management areas. Areas to be utilized for the conveyance or storage of stormwater shall be legally reserved for that purpose by plat, easement, etc., so that subsequent owners or others may not remove such areas from their intended use.

(f) Runoff from adjacent lands. Runoff from adjacent or upstream lands shall be considered, and provision for unimpeded conveyance of such runoff shall be included in drainage plans.

(g) Plan wetlands criteria. Wetlands areas shall not be disturbed until documentation is provide to the town engineer to show that the applicant has received approval from the U.S. Army Corps of Engineers regarding appropriate permits and approval of development activities. No stormwater shall be discharged directly into any wetlands unless first being treated through an approved water quality BMP.
Sec. 14-76. - Soil erosion and sediment control plan.

(a) **Purpose.** The purpose of the soil erosion and sediment control plan is to provide effective measures to control erosion and sedimentation generated by removal of ground surface cover.

(b) **General principles:**

1. Erosion and sedimentation control requires consideration of stormwater control and soil to be encountered in order to be effective.

2. Proper design shall include measures for erosion control and provide for the early establishment of vegetation that will help to avoid erosion problems during and after development activities.

3. Alignment, grades, area of disturbed soil and bank slopes shall be based on soil erodibility, climatic exposure, geology, proposed vegetative restoration and expected maintenance.

(c) **Guidelines for design.**

1. Slopes should be protected from erosion by quick establishment of vegetative cover, benches or terraces, slope protection structures, mulches, or a combination of these practices as required. Sod is the preferred method of stabilization.

2. Drainage channels should be designed to avoid erosion problems. Wide channels with flat side slopes lined with grass or other vegetation shall be utilized where feasible. Where channel gradients are steep, concrete linings or grade control structures, such as stone check dams, may be required. Every effort should be made to preserve natural channels.

3. Sediment basins shall be constructed to discharge stormwater runoff while trapping sediment loads. Sediment basins may either be temporary or permanent, as required by the Building department.

4. Detention basins may also be used to trap sediment during and after development. Where used for this purpose, the basins shall continue to detain stormwater in accordance with the hydraulic design criteria, but allow for the settlement and containment of sediment in the basin. Sediment shall be removed periodically to ensure the intended performance of the detention basin.

5. Existing vegetation, adequate to control erosion, shall be preserved. Regeneration of wood plants shall be encouraged.

6. Sediment tubes, riprap, or silt fences may be placed around storm sewer inlets and at the boundaries of disturbed areas to trap sediment on site.

(d) **Contents.** Each soil erosion and sediment control plan shall contain the following:

1. Location, scope, and manner of performing sediment and erosion control measures;

2. Proposed construction sequence and time schedule for all earth disturbing activities and installation of provisions for sediment and erosion control. The sequence and phasing shall take into account exposing the smallest practical areas for the shortest period of time and retain as much natural vegetation as possible to prevent erosion;

3. Design computations and applicable assumptions for all structural measures for sediment and erosion control. Volume and velocity must be given for all surface water conveyance measures and piped outfalls;

4. All components of a stormwater pollution prevention plan as outlined by DHEC. Sediment control practices shall be used around the perimeter of the site to prevent off-site sediment damage;

5. Methods to be used for controlling dust during construction;

6. Proposed construction sequence and time schedule for all earth disturbing activities and installation of provisions for erosion and sediment control and stormwater management; and

7. Design computations and applicable assumptions for all structural measures for erosion and sediment control. Volume and velocity must be given for all surface water conveyance measures and pipe discharges.
Appendix C
The Town of Surfside Beach
TMDL Monitoring and Assessment Plans
Appendix D
The Town of Surfside Beach
Dry Weather Screening and Field Investigations for Illicit Discharges Document
Appendix E
The Town of Surfside Beach
Enforcement Response Plan
Appendix F
The Town of Surfside Beach
Contract with Waccamaw Stormwater Education Consortium
Coastal Waccamaw Stormwater Education Consortium

Funding Contract

CONTRACT AGREEMENT NUMBER: CA-SB-CWSEC-0714

EFFECTIVE DATES: July 1, 2014 – June 30, 2015

Project Title: Coastal Waccamaw Stormwater Education Consortium

This Agreement is entered into by and between the COASTAL CAROLINA UNIVERSITY, hereinafter referred to as 'CCU', and the TOWN OF SURFSIDE BEACH, hereinafter referred to as 'Partner' with terms and conditions as follows:

Partner will pay eight thousand dollars ($8,000) to CCU as its share of funding to cover stormwater educational services on behalf of the Coastal Waccamaw Stormwater Education Consortium (CWSEC). The principal objective of this Agreement is for CCU and Partner to combine resources to accomplish work requested by Partner in regards to meeting NPDES Phase II stormwater permit requirements for Minimum Control Measures 1 (Public Education and Outreach) and 2 (Public Involvement/Participation).

A. Scope of Work
This scope of work is for stormwater educational services performed by the CWSEC coordinator and/or part-time assistant and student intern(s) on behalf of the Town of Surfside Beach. Services the coordinator will oversee include the following: serve as liaison between Consortium members and the education providers; coordinate and facilitate biannual meetings including delegation of duties to education service providers as needed; cover logistics of scheduling and organizing presentations for the participating SMS4 communities; perform and delegate, when appropriate, other administrative duties; and coordinate and facilitate activities included in the annual activity plan. Specific educational services that CCU will perform will be based on prioritized feedback from the Partner on the annual activity plan. In addition to paying for the coordinator's efforts, funding will support salary for a part-time assistant and/or student intern(s). The fee will also be used for travel to local, regional and national conferences, workshops, presentations and meetings; creation of exhibit materials such as brochure cards and posters; and supplies and equipment for educational programming, storm drain marking and office as needed.

In addition to the above services, CCU would provide to Partner an annual report of its activities in a format suitable for submission by each SMS4 community in their annual NPDES Phase II stormwater program report.

B. Schedule
The Contract Agreement is for a one year period beginning July 1, 2014 and ending June 30, 2015.

C. Billing
The Town of Surfside Beach will be invoiced for $8,000 upon signing of this contract.
CA-SB-CWSEC-0714

FOR COASTAL CAROLINA UNIVERSITY

Signature: 

Name: Dr. Edgar L. Dyer

Title: Executive Vice President and Chief Operating Officer

Witness:

FOR TOWN OF SURFSIDE BEACH

Signature: 

Name: Micki Fellner

Title: Town Administrator

Witness: Ann Maxwell