



Greenville County Industrial Users Training Part 1

- NOI is only the first step
- Must follow all non-sector specific and sector specific requirements in IGP
 - Implement a fully developed SWPPP





Non Sector Specific Permit Requirements

- **Maintain an up-to-date SWPPP**
- **Perform Routine Facility Inspections**
- **Perform Quarterly Visual Assessment of Storm Water Discharges**
- **Perform Comprehensive Annual Site Inspections**
- **Perform Analytical Monitoring**
- **Maintain Complete & Accurate Records**
- **Train Employees**



SWPPP

(IGP Part 5)

Storm Water Pollution Prevention Plan

- Identify potential sources of contamination that may reasonably be expected to impact storm water
- Describe and implement practices to be used to eliminate or reduce storm water contamination
- Describe and implement practices to assure compliance with requirements of the permit
- Plan must be signed by responsible corporate officer
- Plan must be retained on-site at the facility
- Plan must be readily available to EPA, SC DHEC, or the operator of the local Municipal Separate Storm water System (MS4), Greenville County, at their request
- Plan must be kept up to date, i.e.- reviewed at least yearly with the review and any changes documented in/with the SWPPP
 - Suggest using a review/change log in the SWPPP



SWPPP

(IGP Part 5)

Plan must be modified if:

- **Changes to facility design, construction, operation or maintenance has a significant effect on the discharge of pollutants to storm water**
- **Plan proves ineffective at eliminating or significantly minimizing storm water contamination**
- **Plan does not meet permit requirements**
- **At minimum the Plan must be reviewed yearly when the Comprehensive Annual Site Inspection is completed**
 - **Document the SWPPP review in the Comprehensive Annual Site Inspection Report**
 - **Even if no changes are necessary the review needs to be documented**
 - **A review/change log should be included in the SWPPP**



Minimum Components of a SWPPP

(IGP Part 5.1)

- **Storm Water Pollution Prevention Team**
- **Site Description**
 - Description of activities at the facility
 - General location map
 - Site map
- **Summary of Potential Pollutant Sources**
- **Description of Control Measures**
- **Schedules and Procedures**
- **Signed and Dated with a Certification Statement**
 - As required in R.61-9.122.22
- **Any other Sector Specific Requirements**
 - IGP Part 8



Storm Water Pollution Prevention Team

(IGP Part 5.1.1)

- Identify team members by name, or title, and responsibility
- Assist facility manager or other authorized individual to develop/revise SWPPP
- Assist with maintenance of control measures
- Take corrective action as necessary
- Must have access to IGP and SWPPP (either digital or paper)
- Help implement SWPPP





Site Description

(IGP Part 5.1.2)

- Describe the nature of the industrial activities at the facility
- General location map
 - Location of facility and all receiving waters for storm water discharges
- Site map (can be more than 1 if necessary to show enough detail)
 - Size of facility in acres
 - Location of structures and impervious surfaces
 - Direction of storm water flow
 - Location of all existing structural control measures
 - Location of all receiving waters - indicate if impaired and if so, is a TMDL established?
 - Location of all storm water conveyances (pipes/open channels)
 - Location of potential pollutant sources as identified in IGP 5.1.3.2
 - Location of past significant spills/leaks as identified in IGP 5.1.3.3
 - Location of all storm water monitoring points



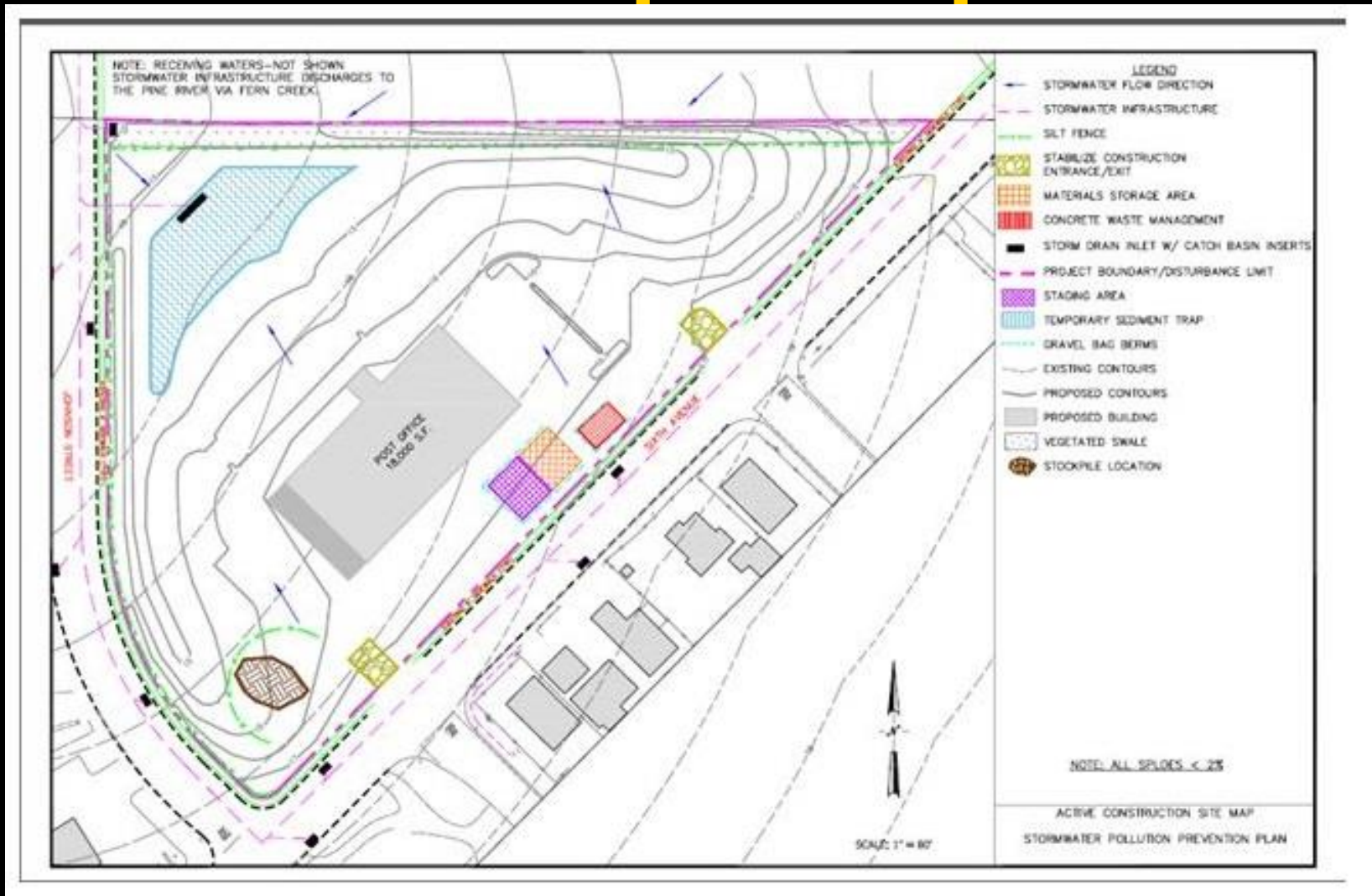
Site Description - Continued

(IGP Part 5.1.2)

- **Site map - continued**
 - **Location of all storm water inlets/outlets with unique identifier**
 - **Location of Municipal Separate Storm Sewer System if your storm sewer system discharges to one**
 - **Location/description of all non storm water discharges**
 - **Location of any of the following**
 - **Fueling stations**
 - **Vehicle maintenance/cleaning areas**
 - **Loading/unloading areas**
 - **Locations used for treatment, storage, or disposal of waste**
 - **Liquid storage tanks**
 - **Process and storage areas**
 - **Immediate access rails/roads used**
 - **Transfer areas for substances in bulk**
 - **Machinery**
 - **Location/source of run-on onto your site that contains significant quantities of pollutants from adjacent property**



Site Map Example





Summary of Potential Pollutant Sources

(IGP Part 5.1.3)

- List all industrial activities exposed to storm water
- List the pollutant(s) or pollutant constituents associated with each activity and all significant materials at the facility in the previous 3 years
- Document where spills or leaks could occur and potentially contribute pollutants to storm water discharges and list which outfall(s) would be affected





Summary of Potential Pollutant Sources - Continued

(IGP Part 5.1.3)

- Document all significant spills or leaks of oil or toxic or hazardous pollutants that occurred in the 3 years prior to the date the SWPPP is prepared or amended
- Document the evaluation of the facility for the presence of non storm water discharges
- Document salt storage and pavement deicing - if applicable
- Summarize all storm water sampling data from the previous permit term





Description of Control Measures

(IGP Part 5.1.4)

- **Document the location and type of control measures installed**
 - to achieve the non-numeric effluent guidelines in Part 2.1.2
 - where applicable, to achieve the effluent guidelines in Part 8
 - to achieve the effluent limits in Part 2.1.3, if applicable
 - to achieve the water quality based effluent limits in Part 2.2
- **For each control measure describe the selection and design considerations used to determine the control measures applicability (Part 2.1.1)**
- **Describe how control measures address pollutants from your site (identified in Part 5.1.3) and any storm water run-on that commingles with discharges covered under the IGP**



Description of Control Measures - Continued (IGP Part 5.1.4)

- Must keep, operate, and maintain any permanent storm water management device (wet/dry pond, bio retention, storm water wetland, etc.) installed under the requirements of the state or local regulatory authority
 - Greenville County requires a signed maintenance agreement on file
 - For more information see Greenville County LDD page:
<http://www.greenvillecounty.org/landdevelopment/>

Greenville County Land Development Division
(864) 467-4610

Maint. Agree Form - 12/2012

COMMERCIAL STORM WATER MANAGEMENT FACILITY MAINTENANCE AGREEMENT
(for Single Properties with one Owner)

PROJECT/ SITE NAME: _____

TAX MAP NO: _____ LAND DISTURBANCE PERMIT NO: _____

SPECIAL POLLUTION ABATEMENT PERMIT NO: _____

TYPE OF STORM WATER MANAGEMENT FACILITY (check all that apply):

NON-STRUCTURAL:

☐ NATURAL STREAM BUFFERS
☐ GRASS OR ALTERNATIVE (PERMEABLE) PAVING SURFACES
☐ GREENROOF

STRUCTURAL:

☐ STORM WATER WET OR DRY POND ☐ SAND FILTER
☐ STORM WATER WETLANDS ☐ INFILTRATION TRENCH
☐ BIORETENTION CELL ☐ MANUFACTURED (PROPRIETARY) BMP
☐ ENHANCED SWALE/GRASS CHANNEL/ FILTER STRIP
☐ OTHER

I accept the responsibility for ownership and proper maintenance of the stormwater management water quantity/quality features and BMP features on the above site per the approved and designated maintenance plan and schedule attached. I will adequately maintain the Stormwater Management facilities and inspect the facility annually and submit an inspector report. The purpose to the inspection is to assure safe and proper functioning of the facility. I will complete any necessary repairs and/or preventive maintenance procedures in a timely manner to ensure proper functioning of the stormwater management facility and/or device.

The Landowner, its successors and assigns, hereby grant permission to the Greenville County, its authorized agents and employees, to enter upon the Property and to inspect the Stormwater Management/BMP facilities whenever it is deemed necessary.

It is my understanding that the maintenance plan may be amended/revised at any time by Greenville County and I will abide by any prescribed changes.

I will continue to own and maintain the above noted stormwater management/water quality feature until the County is notified in writing of a transfer in ownership and maintenance responsibility. The notification will include a date for the transfer of responsibility and a letter of acceptance from the new owner.

This Agreement imposes no liability of any kind whatsoever on Greenville County and the Landowner agrees to hold Greenville County harmless from any liability in the event the stormwater management/BMP facilities fail to operate properly.

I understand that failure to adhere to the signed maintenance agreement may result in fines of up to \$7,500.00 per day, per violation and/or the institution of a court action.

Signature of Owner/Agent _____ Printed Name of Owner/Agent _____ Date _____

Mailing Address: _____ City/State/Zip: _____

Office (daytime) Phone No: _____ Fax Number: _____

County Square • 301 University Ridge • Suite 3900 • Greenville, SC 29601-3681 • Fax (864) 467-7508



Schedules and Procedures - Effluent Limits

(IGP Part 5.1.5.1)

Pertaining to Control Measures Used to Comply with Effluent Limits in Part 2 (5.1.5.1)

- **Document in the SWPPP the following:**
 - **Good Housekeeping (Part 2.1.2.2)**
 - schedule for cleaning and routine inspections
 - **Maintenance (Part 2.1.2.3)**
 - preventative maintenance procedures and schedules
 - **Spill Prevention and Response Procedures (Part 2.1.2.4)**
 - may reference Spill Prevention Control and Countermeasure (SPCC) plan
 - **Employee Training (Part 2.1.2.9)**
 - schedule for all necessary trainings



Schedules and Procedures - Effluent Limits Continued

(IGP Part 5.1.5.1)

Pertaining to Control Measures Used to Comply with Effluent Limits in Part 2 (5.1.5.1)

- **Schedule for Compliance:**
 - Facilities covered by SCR000000, effective date of October 1, 2016
 - Maintain with the SWPPP a report on progress towards meeting effluent limits stated in 2.1.2 and 3 and the applicable sector(s) of Part 8 of the IGP
 - Report must be prepared within 180 days of the effective date of the permit or within 180 days after the first permit year monitoring required in 6.2.2, whichever is later, and must be updated accordingly until compliance is achieved
 - Discharge shall be in compliance with Part 8 limitations
 - BMPs required must be designed and implemented as soon as possible
 - BMPs required by the permit in operation as of the IGP effective date must be maintained in accordance with the IGP
 - Facilities with new coverage under the Industrial General Permit must be in compliance on the effective date of coverage



Schedules and Procedures - Monitoring

(IGP Part 5.1.5.2)

Pertaining to Monitoring and Inspection (5.1.5.2)

- **Document procedures for conducting the types of analytical monitoring**
 - Benchmark monitoring (Part 6.2.1)
 - Effluent limitations guidelines monitoring (Part 6.2.2)
 - Impaired waters monitoring (Part 6.2.4)
 - Other monitoring as required by SCDHEC (Part 6.2.5)
- **For each type of monitoring the SWPPP must document**
 - Locations where samples are collected
 - Parameters for sampling and frequency for each
 - Schedules for monitoring
 - Any numeric control values applicable to discharges from each outfall
 - Procedures for gathering storm event data
 - Responsible staff
 - Logistics
 - Laboratory to be used



Schedules and Procedures - Monitoring Continued

(IGP Part 5.1.5.2)

Pertaining to Monitoring and Inspection (5.1.5.2)

- **If invoking the exception for inactive or unstaffed sites for benchmark monitoring, information to support this must be included in the SWPPP**
- **Exception for substantially identical outfalls for quarterly visual assessment and/or benchmark monitoring must be documented in the SWPPP**
 - **Location of each substantially identical outfall**
 - **Description of industrial activities in the drainage area**
 - **Description of control measures in the drainage area**
 - **Description of exposed materials likely to contribute to pollutants in storm water runoff**
 - **Estimate of the amount of impervious surfaces in each drainage area**
 - **Why the outfalls are expected to discharge substantially identical effluents**



Schedules and Procedures - Inspections

(IGP Part 5.1.5.2)

Pertaining to Monitoring and Inspection (5.1.5.2)

- **Document in SWPPP procedures for inspections**
 - Routine facility inspections (Part 4.1)
 - Quarterly visual assessment of storm water discharges (Part 4.2)
 - Comprehensive site inspections (Part 4.3)
- **For each type of inspection document in the SWPPP**
 - Person(s) or positions of person(s) responsible for inspection
 - Schedules for conducting inspections
 - Specific items to be covered by the inspection, including schedules for specific outfalls
- **Maintain all previous inspections with the SWPPP**
- **If invoking the exception for inactive or unstaffed sites for routine facility inspections or quarterly visual assessments, information to support this claim must be included in the SWPPP**



Signature Requirement

(IGP Part 5.1.7)

SWPPP must be signed and dated in accordance with Appendix B, S.C.R.122.41(k)

- **Must include the following certification statement:**

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”
- **Must be re-signed if a corrective action in Part 3.1 requires the SWPPP to be revised**



SWPPP Availability

(IGP Part 5.3)

- **Copy of the current and up-to-date SWPPP must be immediately available to SCDHEC, local MS4 (Greenville County), and EPA**
- **The inability to provide an up-to-date SWPPP upon request or at the time of an inspection is a permit violation**
- **The SWPPP must also be readily available to all members of the Pollution Prevention Team**



Additional Documentation

(IGP Part 5.4)

The following documentation must also be readily available. All items should be kept with the SWPPP.

- **Signed copy of the NOI submitted to SCDHEC**
- **Acknowledgement letter from SCDHEC with coverage number**
- **Spill/Leak log – include details such as amount, circumstances leading to discharge, corrective actions taken, & SWPPP changes**
- **Employee training records – should include: name, date & topics**
- **All inspection reports**
- **Description of any deviations from the schedule**
- **Description of any corrective actions taken**
- **Document any benchmark exceedances & how responded to**
- **Documentation to support any determination that pollutants of concern are not present above background levels if discharging to impaired waters**
- **Documentation to support any change in facility status**



Consistent with Other Plans

Make sure the SWPPP is consistent with other plans such as:

- SPCC (Spill Prevention Control and Countermeasure)
- BMPs for other NPDES Permits
- OSHA safety plan





Records and Training

- All documentation, including but not limited to SWPPP, NOI, inspection reports, monitoring results, training logs, etc. must be complete, up-to-date, and readily available.
- Training of the pollution prevention team and general employees should be done at least annually and documentation of the training, including date, training topics, and attendees list should be kept with the SWPPP.

Remember the SWPPP is a living document that will change and evolve over time it should not be stuck on a shelf to collect dust.



<http://www.guardian.co.uk/books/2009/nov/13/scientists-preserving-books-smell>



Links

SCDHEC Industrial Storm Water

<http://www.scdhec.gov/HomeAndEnvironment/Water/Stormwater/>

EPA Industrial Storm Water

<https://www.epa.gov/npdes/stormwater-discharges-industrial-activities>



End of Part 1

To determine how much you learned
and to document the completion of this training module,
please complete Quiz 1.