



Sussex County  
2019 SPPP  
Highway Agency Stormwater Permit  
NJPDES Permit # NJ0141887

Stormwater Pollution Prevention Plan

Prepared by the  
Sussex County Division of Engineering  
One Spring Street  
Newton, NJ 07860  
Developed October 2004  
Plan Revision February 2021

William Koppenaal, P.E.  
County Engineer

Plan Data Update: February 2021

# SPPP

Sussex County  
2019 SPPP  
Highway Agency Stormwater Permit  
NJPDES Permit # NJ0141887

NJPDES Highway Agency Stormwater  
General Permit

## Stormwater Pollution Prevention Team Members

Number of team members may vary.



Sussex County Division of Engineering  
October 14, 2004

Completed by: Bill Koppenaal

Title: County Engineer

Highway Agency Name: County of Sussex

NJPDES #: NJG0149730

PIID #: 222158

Effective Date of Permit Authorization  
(EDPA): 04/01/2004

Date form complete: Oct 14, 2004

Date of most recent update: 2/10/2021

Program Coordinator: Bill Koppenaal

Title: County Engineer

Office Phone #: 973-579-0430

Program Manager: Bill Koppenaal

Title: County Engineer

Office Phone #: 973-579-0430

Emergency Phone #: 973-903-8410

Public Notice Coordinator: Michelle Mezger

Title: Department Head Secretary - Division of Engineering

Office Phone #: 973-579-0430

Emergency Phone #: \_\_\_\_\_

Post-Construction Stormwater Management Coordinator: Bill Koppenaal

Title: County Engineer

Office Phone #: 973-579-0430

Emergency Phone #: \_\_\_\_\_

Local Public Education Coordinator: Bill Koppenaal and Thor Carlson Web Mngr

Title: County Engineer and County Web Administrator

Office Phone #: 973-579-0430

Emergency Phone #: \_\_\_\_\_

Regulatory Mechanism Coordinator: Bill Koppenaal

Title: County Engineer

Office Phone #: 973-579-0430

Emergency Phone #: \_\_\_\_\_

Physical Operations Coordinator: Scott House

Title: Superintendent - Division of Public Works Office of Roads and Bridges

Office Phone #: 973-579-0430

Emergency Phone #: \_\_\_\_\_

Employee Training Coordinator: Scott House

Title: Superintendent - Division of Public Works Office of Roads and Bridges

Office Phone #: 973-579-0430

Emergency Phone #: \_\_\_\_\_

Other: John Bazelewich and Joe Biuso

Title: Fleet Manager & Facilities Manager

Office Phone #: 973-579-0350

Emergency Phone #: \_\_\_\_\_

## SPPP Form 2 – Public Notice

Highway Agency  
Information

Highway Agency Name: County of Sussex

NJPDES # :NJG0149730 PI ID #: 222158

Team Member/Title: Bill Koppenaar, County Engineer

Effective Date of Permit Authorization (EDPA): 04/01/2004

Date of Completion: 10/21/2004 Date of most recent update: February 10, 2021

### Local Public Education Program

*Sussex County's Public Notice compliance efforts shall comply with:*

- For any meetings where public notice is required under the Open Public Meetings Act ("Sunshine Law," N.J.S.A. 10:4-6 et seq.), the County of Sussex provides public notice in a manner that complies with the requirements of that Act.*
- When adopting a county budget the County of Sussex provide public notice in a manner that complies with the requirements of the Local Budget Law, N.J.S.A. 40A:4-1 et seq.*
- Resolutions of the County of Sussex Board of County Commissioners that provide a penalty for violation thereof, the County of Sussex provides public notice in a manner that complies with the requirements of N.J.S.A. 40:24-3.*

# SPPP Form 3 – New Development and Redevelopment Program

Highway Agency Information

Highway Agency Name: County of Sussex  
NJPDES # :NJG0149730 PI ID #: 222158  
Team Member/Title: Bill Koppenaal, County Engineer  
Effective Date of Permit Authorization (EDPA): 04/01/2004  
Date of Completion: 03/7/2005 Date of most recent update: February 10, 2021

## Local Public Education Program

*The Sussex County Division of Engineering designs or oversee the design of all transportation projects which are considered be "New Development and Redevelopment" by this permit. The Division strives to ensure all projects on lands owned or operated by the County will comply with current design standards for stormwater runoff. As such, it is our goal, whenever possible, projects disturbing one or more acres of land or creating an additional one-quarter acre or more of impervious surface be design and constructed in compliance with the design and performance standards found in N.J.A.C. 7:8 for major development unless exempted. Stormwater inlets used in the construction of these projects will, whenever possible, comply with attachment "C" entitled "Design Standard - Storm Drain Inlets" of the R12-highway Agency Stormwater General Permit.*

*Sussex County employs the design and performance standards of N.J.A.C 7:8 and permit attachment "C" as noted above.*

*County design efforts will include a focus on:*

- 1.) nonstructural stormwater management*
- 2.) infiltration and groundwater recharge*
- 3.) stormwater runoff quality*
- 4.) maintenance*

*Sussex County will maintain an active list of ongoing and planned projects which can be utilized to identify project compliance with the performance and design standards. This list will be maintained and certified annually.*

*The County of Sussex will strive to ensure all stormwater management systems on property owned and operated by the County are maintained in proper working order. Maintenance recommendations developed through design development will be followed to the best of our ability. The county will use the BMP manual's maintenance recommendations as guidance in developing a maintenance and operating procedure. The County will develop and maintain maintenance records for related activities.*

# SPPP Form 4 - Local Public Education Program

Highway Agency  
Information

Highway Agency Name: County of Sussex

NJPDES # :NJG0149730 PI ID #: 222158

Team Member/Title: Bill Koppenaar, County Engineer

Effective Date of Permit Authorization (EDPA): 04/01/2004

Date of Completion: 10/21/2004 Date of most recent update: February 10, 2021

## Local Public Education Program

*Local public education requires that the highway agency educate appropriate system users and employees on impacts their activities have on stormwater quality. Education is to be accomplished through distribution of appropriate materials to users and employees. Distribution materials can take the form of calendars, brochures, signs, sheets or booklets. Educational information shall be provided on the following topics:*

- 1. Wildlife Feeding*
- 2. Pet waste control*
- 3. Improper disposal of waste*
- 4. The agencies Storm Drain Inlet Labeling Program*

*The recommended place of distribution is for a highway agency to make this information available at service areas and rest stops.*

*Sussex County does not own or operate any service areas along the County highway system. The county has determined that the most efficient way to provide for public education on required topics is as follows:*

- Post information at District County Maintenance Facilities warning about improper disposal of waste.*
- Include information to educate the public about non-point source pollution on the Official County Map. The, when available, map will be distributed to the general public through the Sussex County Chamber of Commerce, through the Division of Engineering, and at the county building during the Sussex County Farm and Horse Show.*
- Provide links on the Sussex County Web site to [www. Njstormwater.org](http://www.Njstormwater.org) along with the "Solutions to Stormwater Pollution"*
- Post signs at the county maintenance facilities with information pertaining to the storm drain inlet labeling program and proper disposal of waste.*

# SPPP Form 5 – Storm Drain Inlet Labeling

Highway Agency  
Information

Highway Agency Name: County of Sussex

NJPDES # :NJG0149730 PI ID #: 222158

Team Member/Title: Bill Koppenaar, County Engineer

Effective Date of Permit Authorization (EDPA): 04/01/2004

Date of Completion: 10/21/2004 Date of most recent update: February 10, 2021

## Storm Drain Inlet Labeling

*The county is aware the permit requires storm drain labeling at rest areas, service areas, maintenance facilities, and streets with sidewalks. Sussex County does not own or operate any rest areas or service areas.*

*Sussex County conducted a survey of the roadway network and identified sections of roads that are governed by this permit requirement. Sussex County developed a manageable schedule for the labeling of the required inlets located along both roadways and within our maintenance facilities.*

*Markers including a label “NO DUMPING DRAINS TO WATERWAY”, or similar have been placed on storm drain inlets. Current County labels include the following types:*

- *cast object markers placed with either adhesive or mechanical anchors*
- *grate castings with the label incorporated into the grate casting.*

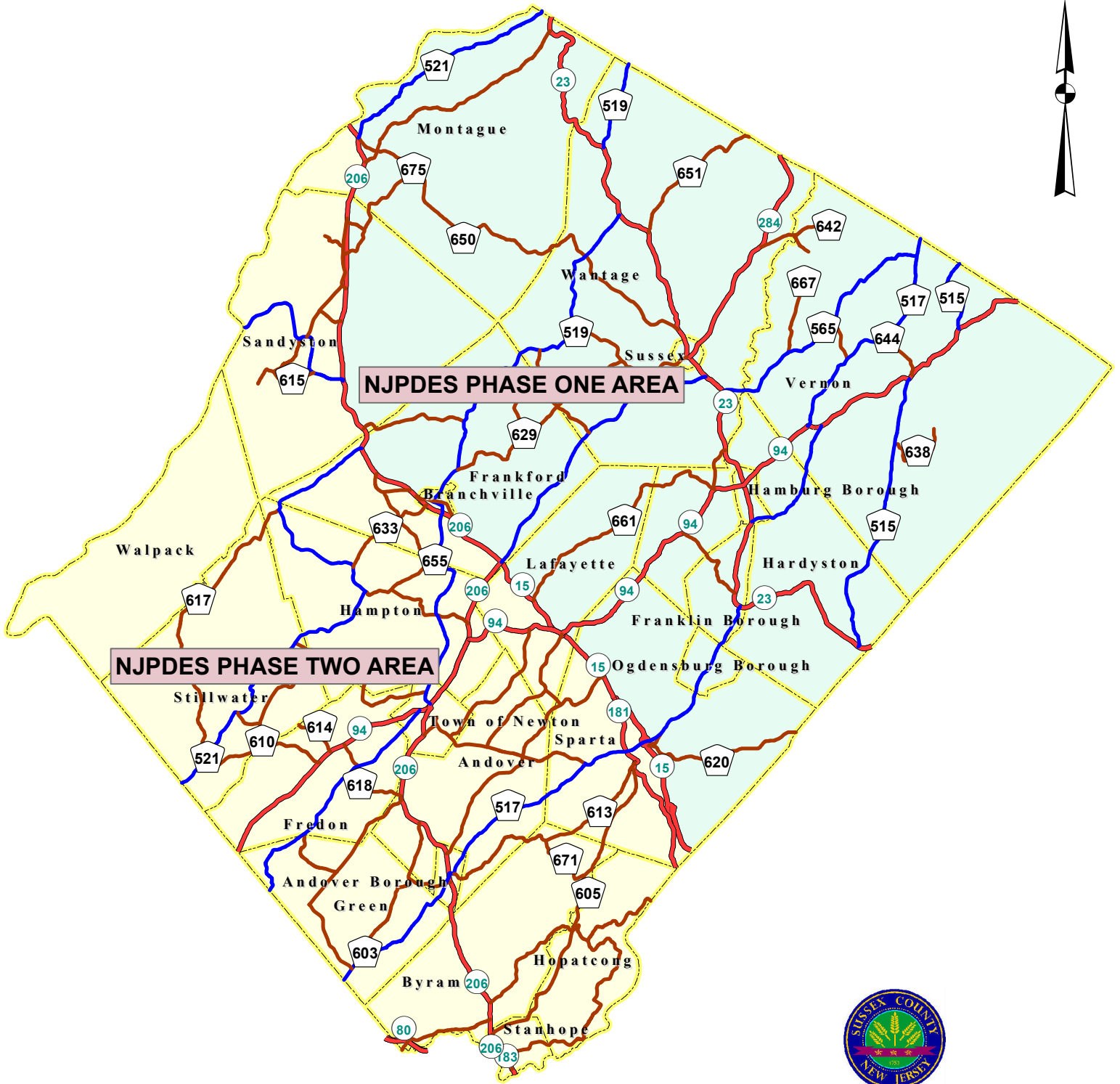
*Safety concerns dictate that high speed/high risk roadways be labeled by Sussex County Division of Public Works personnel. Employees also labeled storm drains located within our maintenance yards.*

*As storm drain inlets are replaced, the new inlets will have a stamped message from the foundry.*

*Scheduling complied with the permit requirements indicating that at least 50% of the inlets be labeled no later than April 2007 and the remaining inlets completed by April 2009.*

*All storm drain inlet labels will be inspected periodically as resources permit and maintain actions scheduled and prioritized with other Sussex County Division of Public Works demands.*

*The County is investigating automation of the annual inspection and O&M tasks through interactive GIS mapping applications and work flow methodologies. Ideally an automated system will be incorporated into the annual operations in the near future.*



Sussex County Division of Engineering  
GIS Mapping  
NJPDES Permit NJG0149730  
Subareas  
Printed: April 19, 2018



# SPPP Form 6 – MS4 Outfall Pipe Mapping

Highway Agency  
Information

Highway Agency Name: County of Sussex

NJPDES # :NJG0149730 PI ID #: 222158

Team Member/Title: Bill Koppenaar, County Engineer

Effective Date of Permit Authorization (EDPA): 04/01/2004

Date of Completion: 10/26/2004 Date of most recent update: February 10, 2021

*Sussex County Division of Engineering and Bridge and Sign employees mapped known and discovered outfall locations utilizing GPS location equipment. Mapping included identification of County Stormwater Collection System outfall pipe terminus. Each Outfall was assigned a unique alphanumeric identifier which links to the county route, point coordinates, type and condition, flow, name and location of the surface water body(ies)receiving discharge from the system outfall. In accordance with the Highway Agency permit, Sussex County Division of Engineering divided the county in two subareas. The first subarea, was comprised of the section of Sussex County north of the State Route 15/State Route 206 corridor, and was mapped within the allotted 36 months (that is by April 2007). The section subarea comprised the portion of the county south of the State Route 15/State Route 206 corridor and was mapped within the remainder of the allotted 60 months (that is by April 2009). (See attached map entitled "Sussex County Division of Engineering, GIS Outfall Mapping, NJPDES PERMIT NJG0149730, County Subareas".)*

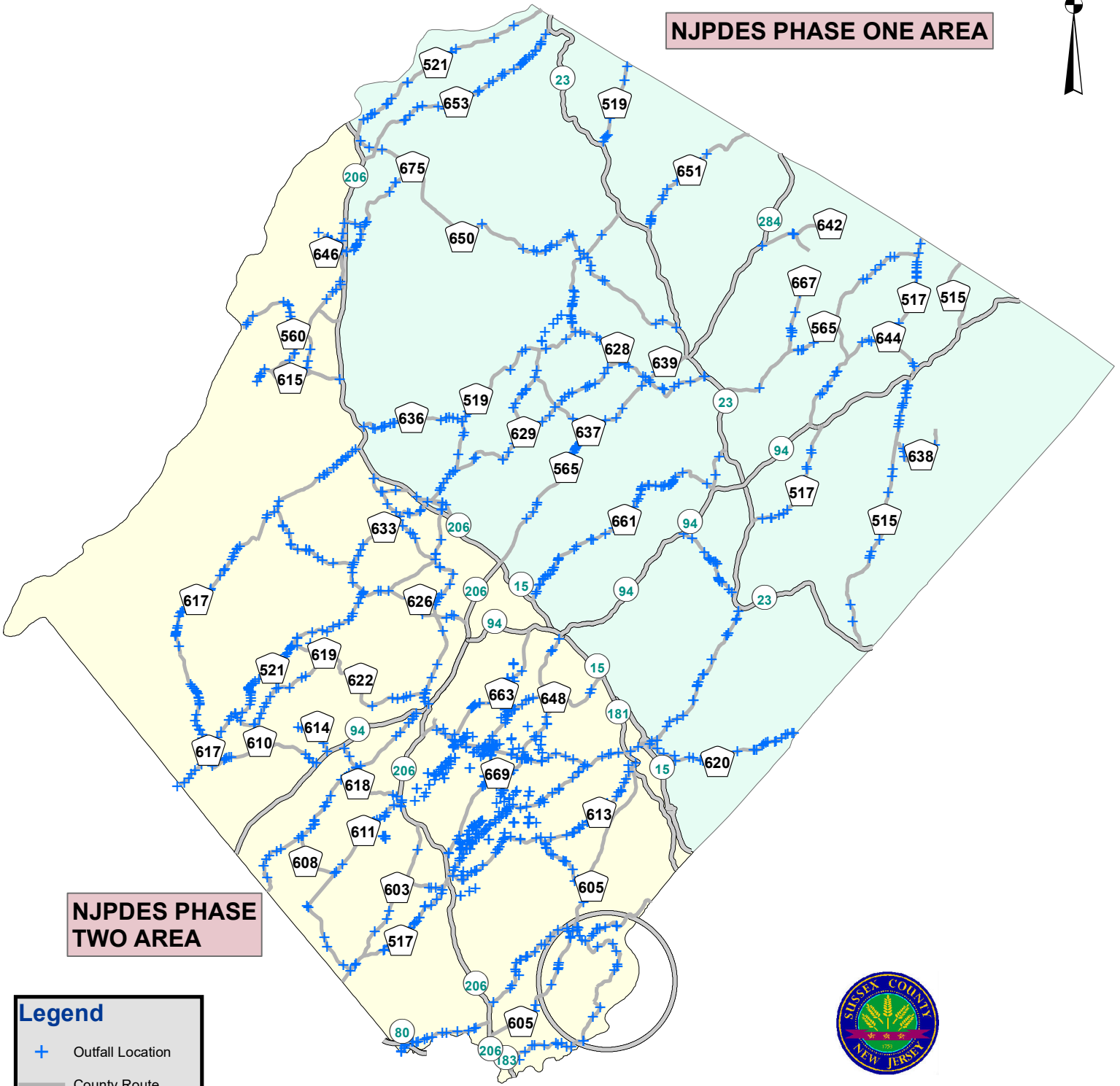
*Outfall data is updated as newer information becomes available. The data is used as a base for O&M efforts.*

*GIS systems are investigated which could be used to validate the inventory and conduct annual inspections and track work tasks. Ideally these systems will become available for use in the near future.*

*Sussex County uses this data to manage the infrastructure outfall assets. Mapping was generated using the GIS system at a scale in compliance with Tax Map regulations at N.J.A.C. 7:18-23A.*



**NJPDES PHASE ONE AREA**



**NJPDES PHASE TWO AREA**

**Legend**

- + Outfall Location
- County Route
- State Route

NJPDES Phase

- PHASE ONE AREA
- PHASE TWO AREA



**Sussex County Division of Engineering  
GIS Mapping  
NJPDES Permit NJG0149730  
Subareas  
Printed: April 23, 2019**

# SPPP Form 7 – Illicit Connection Elimination Program

Highway Agency Information

Highway Agency Name: County of Sussex

NJPDES # :NJG0149730 PI ID #: 222158

Team Member/Title: Bill Koppenaar, County Engineer

Effective Date of Permit Authorization (EDPA): 04/01/2004

Date of Completion: 10/26/2004 Date of most recent update: February 10, 2021

*Sussex County Division of Engineering and Bridge and Sign employees conducted an initial physical inspection of all of County outfall pipes during the mapping process. Outfall pipes found to have a dry weather flow or intermittent non-stormwater flow were rechecked for illicit connections by the Division of Engineering. The County used the Illicit Connection Inspection Report form provided by the NJDEP to record the observed information. The following guided effort:*

- *As appropriate, identified potential illicit connections would be referred to the respective local Health Department.*
- *Illicit connections discovered which originate from the County's own activities will be eliminated within six months.*
- *If, after the appropriate amount of inspection, the Division is unable to locate the source of the illicit connection it will be noted on the Closeout Investigation Form.*
- *Potential illicit connections from a public source (e.g., a neighboring municipality), would initiate notification to potential owner with written explanation sent to the NJDEP detailing the results of the investigation.*
- *Sussex County will only alert the NJDEP of illicit connections found to be from a private entity. If the illicit connection poses an immediate threat, employees have been instructed to call the NJDEP hotline. Separate written notification of such action will also be sent to the NJDEP.*

*Sussex County had previously established a hotline for the use of reporting spills and illegal dumping through the Sussex County Sherriff and Hazmat Team. The hotline will now be made available for reporting illicit connections.*

*Day forward review and inspections will be performed in conjunction with scheduled operational work conducted by the Division of Public Works as well as the Division of Engineering responding to reported concerns or reports of possible illicit connections.*

*Work will also be monitored through the Sussex County Road Opening Permit process.*

## SPPP Form 8 – Illicit Connection Records

Highway Agency Information	Highway Agency Name: <u>County of Sussex</u> NJPDES # : <u>NJG0149730</u> PI ID #: <u>222158</u> Team Member/Title: <u>Bill Koppenaar, County Engineer</u> Effective Date of Permit Authorization (EDPA): <u>04/01/2004</u> Date of Completion: <u>10/26/2004</u> Date of most recent update: <u>February 10, 2021</u>
Prior to July 1, 2006 <b>Note:</b> Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow.	
Total number of inspections performed this year? <u>Program inspection began summer 2005</u>	
Number of outfalls found to have a dry weather flow? <u>35</u>	
Number of outfalls found to have an illicit connection? <u>617</u>	
How many of the Highway Agency's own illicit connections were eliminated? <u>0</u>	
Of the Highway Agency's own illicit connections found, how many remain? <u>0</u>	
How many illicit connections found to emanate from another entity were reported to NJDEP? <u>0</u>	
July 1, 2006 – June 30, 2007 <b>Note:</b> Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow.	
Total number of inspections performed this year? <u>307</u>	
Number of outfalls found to have a dry weather flow? <u>1</u>	
Number of outfalls found to have an illicit connection? <u>0</u>	
How many of the Highway Agency's own illicit connections were eliminated? <u>0</u>	
Of the Highway Agency's own illicit connections found, how many remain? <u>0</u>	
How many illicit connections found to emanate from another entity were reported to NJDEP? <u>0</u>	
July 1, 2007 – June 30, 2008 <b>Note:</b> Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow.	
Total number of inspections performed this year? <u>68</u>	
Number of outfalls found to have a dry weather flow? <u>17</u>	
Number of outfalls found to have an illicit connection? <u>0</u>	
How many of the Highway Agency's own illicit connections were eliminated? <u>0</u>	
Of the Highway Agency's own illicit connections found, how many remain? <u>0</u>	
How many illicit connections found to emanate from another entity were reported to NJDEP? <u>0</u>	

July 1, 2008 – June 30, 2009

**Note: Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow.**

Total number of inspections performed this year? 115

Number of outfalls found to have a dry weather flow? 39

Number of outfalls found to have an illicit connection? 0

How many of the Highway Agency's own illicit connections were eliminated? 0

Of the Highway Agency's own illicit connections found, how many remain? 0

How many illicit connections found to emanate from another entity were reported to NJDEP? 0

July 1, 2011 – June 30, 2012

**Note: Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow.**

Total number of inspections performed this year? 1127

Number of outfalls found to have a dry weather flow? 0

*Note: Outfalls are inspected during inlet cleaning process. No new dry weather flow observed.*

Number of outfalls found to have an illicit connection? 0

How many of the Highway Agency's own illicit connections were eliminated? 0

Of the Highway Agency's own illicit connections found, how many remain? 0

How many illicit connections found to emanate from another entity were reported to NJDEP? 0

**July 1, 2012 – June 30, 2013**

**Note: Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow.**

Total number of inspections performed this year? 1127

Number of outfalls found to have a dry weather flow? 0

*Note: Outfalls are inspected during inlet cleaning process. No new dry weather flow observed.*

Number of outfalls found to have an illicit connection? 0

How many of the Highway Agency's own illicit connections were eliminated? 0

Of the Highway Agency's own illicit connections found, how many remain? 0

How many illicit connections found to emanate from another entity were reported to NJDEP? 0

**July 1, 2013 – June 30, 2014**

**Note: Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow.**

Total number of inspections performed this year? 1127

Number of outfalls found to have a dry weather flow? 0

*Note: Outfalls are inspected during inlet cleaning process. No new dry weather flow observed.*

Number of outfalls found to have an illicit connection? 0

How many of the Highway Agency's own illicit connections were eliminated? 0

Of the Highway Agency's own illicit connections found, how many remain? 0

How many illicit connections found to emanate from another entity were reported to NJDEP? 0

**July 1, 2014 – June 30, 2015**

**Note: Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow.**

Total number of inspections performed this year? 1127

Number of outfalls found to have a dry weather flow? 0

*Note: Outfalls are inspected during inlet cleaning process. No new dry weather flow observe.*

Number of outfalls found to have an illicit connection? 0

How many of the Highway Agency's own illicit connections were eliminated? 0

Of the Highway Agency's own illicit connections found, how many remain? 0

How many illicit connections found to emanate from another entity were reported to NJDEP? 0

**July 1, 2015 – June 30, 2016**

**Note: Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow.**

Total number of inspections performed this year? 1127

Number of outfalls found to have a dry weather flow? 0

*Note: Outfalls are inspected during inlet cleaning process. No new dry weather flow observed.*

Number of outfalls found to have an illicit connection? 0

How many of the Highway Agency's own illicit connections were eliminated? 0

Of the Highway Agency's own illicit connections found, how many remain? 0

How many illicit connections found to emanate from another entity were reported to NJDEP? 0

**July 1, 2016 – December 31, 2017**

**Note: Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow.**

Total number of inspections performed this year? +/-560

Number of outfalls found to have a dry weather flow? 0

*Note: Outfalls are inspected during inlet cleaning process. No new dry weather flow observed.*

Number of outfalls found to have an illicit connection? 0

How many of the Highway Agency's own illicit connections were eliminated? 0

Of the Highway Agency's own illicit connections found, how many remain? 0

How many illicit connections found to emanate from another entity were reported to NJDEP? 0

**May 1, 2018 – December 31, 2018**

**Note: Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow.**

Total number of inspections performed this year? +/-400

Number of outfalls found to have a dry weather flow? 0

*Note: Outfalls are inspected during inlet cleaning process. No new dry weather flow observed.*

Number of outfalls found to have an illicit connection? 0

How many of the Highway Agency's own illicit connections were eliminated? 0

Of the Highway Agency's own illicit connections found, how many remain? 0

How many illicit connections found to emanate from another entity were reported to NJDEP? 0

**January 1, 2019 – December 31, 2019**

***Note: Attach a copy of each illicit connection report form for outfalls found to have a dry weather flow.***

Total number of inspections performed this year? 978

Number of outfalls found to have a dry weather flow? 0

*Note: Outfalls are inspected during inlet cleaning process. No new dry weather flow observed.*

Number of outfalls found to have an illicit connection? 0

How many of the Highway Agency's own illicit connections were eliminated? 0

Of the Highway Agency's own illicit connections found, how many remain? 0

How many illicit connections found to emanate from another entity were reported to NJDEP? 0



## SPPP Form 9 – Litter Pick Up Program

Highway Agency  
Information

Highway Agency Name: County of Sussex

NJPDES # :NJG0149730 PI ID #: 222158

Team Member/Title: Bill Koppenaar, County Engineer

Effective Date of Permit Authorization (EDPA): 04/01/2004

Date of Completion: 10/26/2004 Date of most recent update: February 10, 2021

*Sussex County has, in the past, worked collaboratively with the community to promote and complete roadside clean-up tasks.*

*Past efforts have included cooperation with both the Adopt-A-Highway volunteers and the Sussex County Sheriffs SWAP program. Over the past few years both of these programs have been phased out.*

*With the elimination/suspension of these programs the task has fallen exclusively on the limited resources of the Sussex County Division of Public Works. County Routes are monitored as part of the normal maintenance practices for debris which would result in a public safety issue. As identified and prioritized, debris thought to be a public safety threat will be removed and disposed of at the land fill.*

*Division of Public Works operations include a county wide roadside clean-up work task programmed, as resources permit, on an annual basis.*

*Roadside clean-up efforts are monitored and records maintained including a cleaning schedule and amount of trash collected.*

*Sussex County does not operate any rest or service areas.*

# SPPP Form 10 – Regulatory Mechanisms

Highway Agency  
Information

Highway Agency Name: County of Sussex

NJPDES # : NJG0149730 PI ID #: 222158

Team Member/Title: Bill Koppenaal, County Engineer

Effective Date of Permit Authorization (EDPA): 04/01/2004

Date of Completion: 10/26/2004 Date of most recent update: February 10, 2021

Pet Waste *Sussex County will not be adopting a pet waste regulatory mechanism because the County does not own or operate any rest or service areas.*

Improper Disposal of Waste - Date of Adoption: *7/12/2006*

Remarks:

Wildlife Feeding - Date of Adoption: *n/a*

Remarks: *not applicable*

Illicit Connections – Date of Adoption: *7/12/2006*

Remarks:

*The above noted resolutions were adopted by County Commissioner Resolution. Enforcement will be through employee management and include disciplinary actions for violations.*

# SPPP Form 11 – Storm Drain Inlets (Retrofitting)

Highway Agency Information

Highway Agency Name: County of Sussex  
 NJPDES # :NJG0149730 PI ID #: 222158  
 Team Member/Title: Bill Koppenaar, County Engineer  
 Effective Date of Permit Authorization (EDPA): 01/01/2004  
 Date of Completion: 10/15/2004 Date of most recent update: February 10, 2021

What type of storm drain inlet design will generally be used for retrofitting?

*Most Sussex County projects will incorporate the NJDOT bicycle safe grate for inlet type A, type E and type B. Type B will also utilize curb heads with a 2” clear space in the smallest dimension.*

Repaving, repairing, reconstruction or alteration project name (attach additional pages as necessary)	Projected start date	Start date	Date of completion	# of storm drain inlets	# of storm drains with exemptions
<i>Resurfacing CR 517, Rudetown Road (SR 23 to SR 94)</i>	<i>September 9, 2019</i>	<i>September 9, 2019</i>	<i>September 16, 2019</i>	<i>53</i>	<i>0</i>
<i>Resurfacing CR 565, Ross’s Corner (US 206 to CR 639)</i>	<i>September 17, 2019</i>	<i>September 17, 2019</i>	<i>October 4, 2019</i>	<i>82</i>	<i>0</i>
<i>Resurfacing CR 661, Beaver Run Road (SR 15 Lafayette to SR 94 Hardyston)</i>	<i>October 7, 2019</i>	<i>October 7, 2019</i>	<i>October 22, 2019</i>	<i>121</i>	<i>0</i>
<i>Resurfacing CR 630 Branchville Culver’s Lake Road (US 206 to US 206)</i>	<i>October 23, 2019</i>	<i>October 23, 2019</i>	<i>October 25, 2019</i>	<i>24</i>	<i>0</i>
<i>Resurfacing CR 602, Stanhope Hopatcong Road (Lloyd Avenue to CR 607 Hopatcong)</i>	<i>October 28, 2019</i>	<i>October 28, 2019</i>	<i>November 1, 2019</i>	<i>25</i>	<i>0</i>
<i>Resurfacing CR 627, Branchville Lawson Corner Road (CR 626 to 519)</i>	<i>November 4, 2019</i>	<i>November 4, 2019</i>	<i>November 6, 2019</i>	<i>18</i>	<i>0</i>
<i>Resurfacing CR 669, Limecrest Road (US 206 to CR 616)</i>	<i>May 26, 2019</i>	<i>May 26, 2019</i>	<i>June 2, 2019</i>	<i>37</i>	<i>0</i>

<i>Resurfacing CR 631, Franklin Ave. (SR 23 Franklin to Fowler Street)</i>	<i>June 3, 2019</i>	<i>June 3, 2019</i>	<i>June 5, 2019</i>	24	0
<i>Resurfacing CR 607, Lakeside Blvd. (Lakeside Blvd. to CR 602)</i>	<i>June 8, 2019</i>	<i>June 8, 2019</i>	<i>June 10, 2019</i>	42	0
<i>Resurfacing CR 616, Newton Sparta Road (CR 616 Bridge A-10 RR Underpass HMA Repair)</i>	<i>June 12, 2019</i>	<i>June 12, 2019</i>	<i>June 12, 2019</i>	0	0

Are you claiming any alternate device exemptions or historic place exemptions for any of the above projects? No

Please explain.

# SPPP Form 12 – Street Sweeping and Road Erosion Control Maintenance

Highway Agency Information

Highway Agency Name: County of Sussex

NJPDES # :NJG0149730 PI ID #: 222158

Team Member/Title: Bill Koppenaal, County Engineer

Effective Date of Permit Authorization (EDPA):04/01/2004

Date of Completion: 10/15/2004 Date of most recent update: February 10, 2021

## Street Sweeping

*Sussex County has determined which roads within the network require monthly sweeping under the Highway Permit. A program was initiated in 2005 and has been managed by the Division of Public Works which, as resources and conditions permit, provides for the monthly street sweeping of the identified county route sections. Additionally, the program includes for the annual street sweeping of all county routes. The Division of Engineering created performance logs which aid in the management and tracking of the program. The performance logs are compiled and an annual report prepared by the Division of Engineering.*

## Road Erosion Control Maintenance

*Sussex County through the Division of Public Works has an active program to identify stabilize roadside erosion. Upon identification of a shoulder or buffer area exhibiting roadside erosion the remediation needs will be defined and prioritized into the work queue to be advanced as resources permit. Repairs will be completed in compliance with the Standards for Soil Erosion and Sediment Control in New Jersey. The County will maintain a Roadside Erosion Inspection Log that will include a list of erosion locations, priorities, repairs and project dates. Logs will be maintained by the Division of Public Works and used by the Division of Engineering to compile annual work reports.*

# SPPP Form 13 – Stormwater Facility Maintenance

Highway Agency  
Information

Highway Agency Name: County of Sussex

NJPDES # :NJG 0149730 PI ID #: 222158

Team Member/Title: Bill Koppenaal, County Engineer

Effective Date of Permit Authorization (EDPA): 04/01/2004

Date of Completion: 10/15/2004 Date of most recent update: February 10, 2021

*Sussex County maintains its annual catch basin cleaning schedule in compliance with the minimum standard set forth in the Highway Agency Permit. The task is assigned to the Sussex County Division of Public Works with program guidance generally including:*

- *Annually, as staffing resources and conditions allow, each catch basin will be inspected for accumulations of sediment, trash or debris. Debris observed will be cleaned.*
- *Catch basins will be inspected annually, unless evidence would support an alternate schedule, either shorter or longer interval durations*
- *During the inspection, the catch basins will be reviewed for proper function and structural issues.*
- *Identified maintenance needs will prioritized into the Division of Public workload queue and as resources and conditions permit be scheduled.*
- *Debris collected will be staged at one of the Sussex County Road Maintenance District Garages. Staging will be completed in consideration of standards established in guidance provided by the NJDEP Division of Solid and Hazardous Waste.*
- *Litter will be sorted from clean up material staging piles for recycling.*
- *Pending available recourses, on a monthly basis the staging piles will be hauled to the Sussex County Municipal Utilities Authority landfill for disposal. Permission has been granted by the Sussex County Sewage Authority to discharge water from catch basin cleaning into their sanitary sewers.*
- *Waste will be tested as needed for hazardous materials.*

*The program is has been active since April 2005.*

***Stormwater Management Facilities:***

*In addition to the stormwater collection system catch basis the County owns and operates a few stormwater management facilities designed to:*

- Enhance water quality.*
- Promote infiltration.*
- Manage stormwater collection and release.*

*Sussex County Division of Engineering has developed and the Division of Public Works manages a program to inspect and maintain these facilities. This program is intended to assure the short and long term operation and function of the facility. The program generally includes:*

- Inspection in consideration of the recommended operation manual.*
- Maintenance in consideration of the recommended operation manual.*
- Prioritization of maintenance and repairs within the Division of Public Works work queue with advancement as resources permit.*

# SPPP Form 14 - Roadside Vegetation Management

Highway Agency  
Information

Highway Agency Name: County of Sussex

NJPDES # :NJG0149730 PI ID #: 222158

Team Member/Title: Bill Koppenaal, County Engineer

Effective Date of Permit Authorization (EDPA): 04/01/2004

Date of Completion: 10/15/2004 Date of most recent update: February 10, 2021

*The County of Sussex manages roadside vegetation through the use of mechanical removal, i.e. mowers and weed trimmers. The County does not utilize herbicides or mulch to control roadside vegetation.*



# SPPP Form 15 - Outfall Pipe Stream Scouring Remediation

Highway Agency  
Information

Highway Agency Name: County of Sussex

NJPDES # :NJG0149730 PI ID #: 222158

Team Member/Title: Bill Koppenaal, County Engineer

Effective Date of Permit Authorization (EDPA):04/01/2004

Date of Completion: 10/15/2004 Date of most recent update: February 10, 2021

*Sussex County has developed and implement a stormwater outfall pipe stream scouring detection, remediation, and maintenance program to detect and control localized stream and stream bank scouring in the vicinity of the highway system outfall pipes operated by the County.*

*The program utilizes inventory data collected and compiled during the outfall pipe mapping task. Generally the program includes:*

- *As resources permit, annual inspections of the outfalls.*
- *Data collection for those locations exhibiting scour.*
- *Identification and prioritization of outfall pipe scour distress. Higher priority will be provided to those outfall pipes most in need of remediation, NJDEP permitting and/or other permitting needs, and those with easy access.*
- *Development of a remediation schedule for repairs,*
- *Repairs will be made in consideration of guidance provided within the Standards for Soil Erosion and Sediment Control in New Jersey.*

# SPPP Form 16 – De-icing Material Storage

Highway Agency  
Information

Highway Agency Name: County of Sussex

NJPDES # : NJG0149730 PI ID #: 222158

Team Member/Title: Bill Koppenaar, County Emgineer

Effective Date of Permit Authorization (EDPA): April 01, 2004

Date of Completion: 2005 Date of most recent update: February 10, 2021

## De-icing Material Storage

*The County of Sussex upgraded our existing deicing materials storage buildings located at the district maintenance facilities.*

*This upgrade provides for the adequate storage capacity capable of containing all raw salt materials and mixed materials used in our deicing operations.*

# SPPP Form 17 – Standard Operating Procedures

Highway Agency Information	Highway Agency Name: <u>County of Sussex</u> NJPDES # : <u>NJG0149730</u> PI ID #: <u>222158</u> Team Member/Title: <u>Bill Koppenaar, County Engineer</u> Effective Date of Permit Authorization (EDPA): <u>April 01, 2005</u> Date of Completion: _____ Date of most recent update: <u>February 10, 2021</u>	
BMP	Date SOP went into effect	Describe your inspection schedule
<b>Fueling Operations</b> (including the required practices listed in Attachment D of the permit)	2005	<i>Inspection will be performed periodically by management staff.</i>  <i>Internal Best Management Practices are being developed to assist management in complying with the SOP.</i>
<b>Vehicle Maintenance</b> (including the required practices listed in Attachment D of the permit)	2005	<i>Inspection will be performed periodically by management staff.</i>  <i>Internal Best Management Practices are being developed to assist management in complying with the SOP.</i>
<b>Good Housekeeping Practices</b> (including the required practices listed in Attachment D of the permit)	2005	<i>Inspection will be performed periodically by management staff.</i>  <i>Internal Best Management Practices are being developed to assist management in complying with the SOP.</i>

## SPPP Form 18 – Employee Training

Highway Agency  
Information

Highway Agency Name: County of Sussex

NJPDES # : NJG0149730 PI ID #: 222158

Team Member/Title: Bill Koppenaar, County Engineer

Effective Date of Permit Authorization (EDPA): April 01, 2004

Date of Completion: 03/11/2005 Date of most recent update: February 10, 2021

*For Employee training, Sussex County groups the required topics together based upon similarities in context. Any questions should be directed to the Employee Training Coordinator, Scott House and Bill Koppenaar, who can be reached at 973-579-0430.*

*Primary permit training was completed. Refresher training will be a seminar type forum held at various county facilities and in conjunction with regularly scheduled Forman meetings. Only employees directly involved in the specific task will participate in the refresher training.*

*Training will include discussion on the following topics:*

*Construction Activity: Post –construction Stormwater Management in new development and redevelopment. Refresher Training will be provided to the design and maintenance foremen on stormwater controls and maintenance needs.*

*Storm System Outfall Pipes: Refresher Training sessions will include reviews on Illicit connections, outfall pipe inventory mapping, outfall scour remediation.*

*Highway System Operations: Refresher Training will include direction on roadside vegetative management, street sweeping, stormwater facility maintenance, storm drain inlet labeling and maintenance yard operations.*

*Waste Disposal refresher training will include overviews of Improper waste disposal and illicit connection prohibition.*

*The Department is now utilizing the services of Environmental Safety Management Corporation to assist with the updating, implementation, and training of the permit elements and SOP's.*



# Sussex County Standard Operating Procedures Vehicle and Equipment Fueling

## Introduction and Purpose

This SOP is intended to introduce persons to the proper care and use of fueling equipment for the purpose of maintaining a safe workplace and for the protection of the environment. Vehicle and equipment fueling procedures and practices are designed to minimize pollution of surface or ground waters. Understanding the procedures for delivering fuel into vehicles, mobile fuel tanks, and storage tanks is critical for this purpose. Safety is always the priority.

## Scope

These procedures are to be implemented at all maintenance yards with fuel dispensing systems, including mobile fueling operations.



## VEHICLE FUELING

- Shut the engine off
- Ensure that the fuel is the proper type
- Absorbent spill clean-up materials and spill kits shall be available in fueling areas and on mobile fueling vehicles and shall be disposed of properly after use. Spill kits shall be inspected periodically and renewed as needed
- Nozzles used in vehicle and equipment fueling shall be equipped with an

automatic shut-off to prevent overflow.

- Fuel tanks shall **not** be “topped off.”
- Mobile fueling shall be minimized. Whenever practical, vehicles and equipment shall be transported to the designated fueling area in the maintenance yard. Mobile fueling shall have on-board spill kits
- Clearly post, in a prominent area of the facility, instructions for safe operation of fueling equipment, and appropriate contact information for the person(s) responsible for spill response. **See typical example of signage (attached)**

## BULK FUELING

- Drip pans or absorbent pads shall be used under all hose and pipe connections and other leak-prone areas during bulk fueling.
- As applicable, block storm sewer inlets, or contain tank trucks used for bulk transfer, with temporary berms or temporary



absorbent booms during the transfer process. If temporary berms are being used instead of blocking the storm sewer inlets, all hose connection points associated with the transfer of fuel must be within the temporary berms during the loading/unloading of bulk fuels.

- Protect fueling areas with grading, berms and/or dikes to prevent run-on, runoff, and to contain spills.
- A trained employee must always be present to supervise during bulk transfer.

### **Spill Response**

- Provide spill containment dikes or secondary containment around stored oils and other fluid storage drum(s). Or, use dual wall storage systems with periodic interstitial monitoring and written log of activities
- Conduct cleanups of any fuel spills immediately after discovery. Refer to the Spill Response Standard Operating Procedure for standard cleanup methods and requirements.

### **Maintenance and Inspection**

- Fueling areas, spill and delivery kits and storage tanks shall be visually inspected monthly. Apparent Hazards or other problems are to be reported in-writing to the facility supervisor.
- Keep an ample supply of spill cleanup material on the site.
- Any equipment, tanks, pumps, piping and fuel dispensing equipment found to be leaking or in disrepair must be taken out of service, then repaired or replaced immediately.
- Refer to the Sussex County Highway Agency Stormwater Permit Best Management Practices Guide for information on Maintenance and Inspection.



# Sussex County Standard Operating Procedures Vehicle Maintenance

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## Maintenance Yard BMP Objectives

1. Waste Management
2. Spill Prevention, Containment and Countermeasures
3. Pollution Control



## **Introduction and Purpose**

This SOP contains the basic practices of vehicle maintenance to be implemented at all maintenance yards including maintenance activities at ancillary operations for all County operations where vehicle maintenance is a part of the work. The purpose of this SOP is to provide a set of guidelines for vehicle maintenance at yards, garages or other facilities including maintenance activities at ancillary operations.

## **Scope**

This SOP applies to all maintenance of vehicles and equipment on County properties and job sites.

## **Standards and Specifications**

- Conduct vehicle maintenance operation only in designated areas on impervious surface
- Whenever possible, perform all vehicle and equipment maintenance at an indoor location with a paved floor.
- Always use drip pans.
- Absorbent spill clean-up materials shall be available in maintenance areas and shall be disposed of properly after use.
- Maintenance areas shall be protected from stormwater run-on and runoff, and shall be located at least 50 from feet downstream drainage facilities and watercourses.
- Use portable tents or construct a roofing-device over long-term maintenance areas for projects that must be performed outdoors.
- Do not dump or dispose oils, grease, fluids, and lubricants onto the ground, into catch basins or other structures like sanitary systems, and floor drains.

- Do not dump or dispose batteries, used oils, antifreeze, parts cleaning solution and/or other toxic fluids into a floor or yard drain, toilets, storm drains or watercourse.
- Do not bury tires or other materials. Use proper/legal disposal methods
- Collect waste fluids in properly labeled containers and dispose properly.
- Vehicle Rinsing shall only be permitted following de-icing application. Prior to rinsing, all loose materials shall be hand swept from equipment and returned to storage material storage facility. Rinsing is limited to cold water, no under-body or under-hood and the use of other products (soaps, detergents, degreasers) are *not* permitted during post storm vehicle rinsing,

### **Spill Response and Reporting**

- Provide spill containment dikes or secondary containment around stored oils and other fluid storage drum(s). Or, use dual wall storage systems with periodic interstitial monitoring and written log of activities
- Conduct cleanups of any fuel spills immediately after discovery. Refer to the Spill Response Standard Operating Procedure for standard cleanup methods and requirements.

### **Maintenance and Inspection**

- Refer to the Sussex County Highway Agency Stormwater Permit Best Management Practices Guide for information on Maintenance and Inspection.





# Sussex County Standard Operating Procedures Good Housekeeping

## Good Housekeeping Goals

1. Proper Recycling
2. Proper Waste Disposal
3. Pollution Prevention

## **Introduction and Purpose**

The purpose of this SOP is to introduce workers and others to the basic practices of good housekeeping implemented at maintenance yards including maintenance activities at ancillary operations. Additionally, the purpose of this SOP is to provide a set of guidelines to County employees for Good Housekeeping Practices at their maintenance yards including ancillary operations.

## **Scope**

This SOP applies to all maintenance yards including maintenance activities at ancillary operations in the Sussex County Division of Public Works.

## **Standards and Specifications (General)**

- All containers should be properly labeled and marked, and the labels must remain clean and visible.
- All containers must be kept in good condition and tightly closed when not in use.
- Unless impractical, chemicals, fluids and supplies should be kept indoors.
- If containers are stored outside, they must be covered and placed on spill containment platforms.
- Keep storage areas clean and well organized.
- Spill kits and drip pans must be kept near any liquid transfer areas, protected from rainfall.
- Absorbent spill clean-up materials must be available in maintenance areas and shall be disposed of properly after use.
- Place contaminated trash, dirt and other debris in the trash receptacle.
- Collect waste fluids in properly labeled containers and dispose of them properly within the disposal cube(s).



- Establish and maintain a recycling program by disposing of papers, cans, bottles and trash in designated bins.



### **Standards and Specifications (Salt and Deicing Material Handling)**

- During loading and unloading of salt and de-icing materials, prevent and/or minimize spills. If salt or de-icing materials are spilled, remove the materials using dry cleaning methods. All collected materials shall be either reused or properly discarded.

- Sweeping should be conducted once a week to get rid of dirt and other debris. Sweeping should also be conducted immediately following loading/unloading activities, when practical.
- Minimize the tracking of materials from storage and loading/unloading areas.
- Minimize the distance that salt and de-icing materials are transported during loading/unloading activities.
- Any materials that are stored outside must be tarped when not actively being used and placed on an impervious surface
- If interim seasonal tarping is being implemented, de-icing materials may be stored outdoors only between October 15<sup>th</sup> through April 30<sup>th</sup>.

### **Spill Response and Reporting**

- Conduct cleanups of any fuel spills immediately after discovery. Refer to the Spill Response Standard Operating Procedure for standard cleanup methods and requirements.

### **Refuse Containers and Dumpsters**

- Outdoor refuse containers and dumpsters owned and operated by the County shall be protected from stormwater and covered at all times.
- Outdoor refuse containers and dumpsters owned and operated by the County shall be managed so as to prevent the spilling, dumping, leaking, or otherwise discharge of liquids, semi-liquids, or solids from the containers.
- The use of temporary demolition containers, litter receptacles, and containers which hold large bulky items may be excluded from these standards.

### **Maintenance and Inspection**

- Refer to the Sussex County Highway Agency Stormwater Permit Best Management Practices Guide for information on Maintenance and Inspection.
- Perform monthly inspections of all (indoor and outdoor if applicable) storage locations and maintenance yards.



# Sussex County Standard Operating Procedures Spill Response

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## Spill Response BMP Objectives

1. Spill Prevention, Containment and Countermeasures
2. Pollution Control



## **Introduction and Purpose**

This SOP contains the basic guidelines which can be applied in response to a spill.

## **Spill Classifications**

Small: Generally, one (1) or less gallons discharged into the environment.

Large: Generally, in excess of one (1) gallons. – Call Hazmat (973-940-5500), work to contain the product if it can be done safely.

### Classes of Materials

- Hazardous Chemicals: acids, solvents, Reference the Right-to-Know / Safety Data Sheets for safety related data, employ appropriate PPE
- Petroleum: Petroleum Products (oils, gas, diesel, etc.)
- Solid: deicing chemicals
- Other Liquids: coolants, cutting fluids, oil-based paints and stains

## **Storage:**

- Provide spill containment dikes or secondary containment around stored oils and other fluid storage drum(s). Or, use dual wall storage systems with periodic interstitial monitoring and written log of activities

## **Spill Response and Reporting – If a Spill Occurs**

- Identify the materials and approximate amounts.
- Be aware of your surroundings, specifically, weather conditions, stormwater facilities, wind direction, and ground slope.
- Spills in excess of one (1) gallon or of a hazardous nature require notification of Hazmat (973-940-5500)
- Locate and open the Spill Kit. Proceed with basic small spill containment and cleanup.

- Most common spills encountered on county property would be petroleum products for which granular absorbents, oil absorbent pads, and universal absorbent pads can be used.
- The spread of spills can be contained using booms, drain protectors, and rolls.
- Conduct cleanups of any spills immediately after discovery.
- Spills are to be cleaned using dry cleaning methods only. Spills shall be cleaned up with a dry, absorbent material (e.g., granular absorbent and absorbent pads) and the rest of the area is to be swept. These materials are readily available in the on-site spill kits.

### **Disposal Guidelines**

- Package the waste for proper dispose, dry absorbents used to contain and clean small petroleum small spills can be bagged and disposed of in a trash receptacle or as directed by Hazmat.

### **Equipment Inspection & Kit Inspections**

- On a monthly basis inspect Spill Response kits for functionality.
- Maintain a written log at the facility.
- Refer to the Sussex County Highway Agency Stormwater Permit Best Management Practices Guide for information on Maintenance and Inspection.

# Annual Impacted Employee Training

(Represents general training provided to applicable DPW, OBTS, Engineering, and Fleet employees. Supplemented as needed on a case-by-case basis for specific tasks / needs)

Sussex County  
2019 SPPP  
Highway Agency Stormwater Permit  
NJPDES Permit # NJ0141887

# Stormwater Pollution Prevention & Best Mgt Practices

## Sussex County

Richard M. Lynch, Ph.D.  
CIH, CMC, CMRS, CHFM

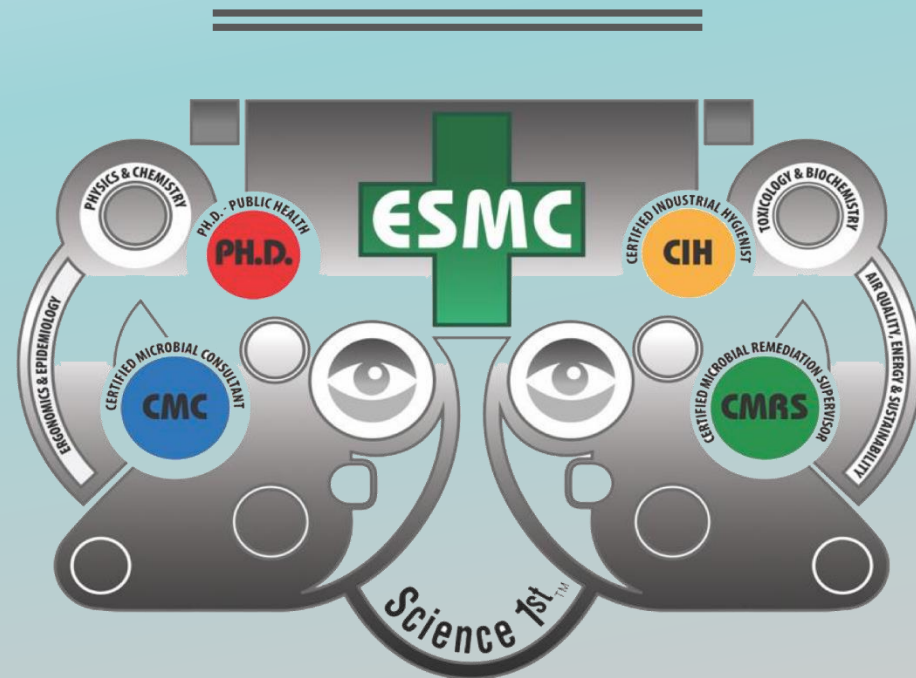
President  
Environmental Safety  
Management Corporation

[www.esmcorp.com](http://www.esmcorp.com)

**Environmental Safety  
Management Corporation**

AIR QUALITY, MOLD TESTING, ERGONOMICS, OSHA

21 SCOTT STREET  
RIVERSIDE, NJ 08075  
TEL: (856) 764-3557  
FAX: (856) 764-3558  
[WWW.ESMCCORP.COM](http://WWW.ESMCCORP.COM)



# Training Outline

## Introduction to Stormwater

- Diagrams and Definitions

## Stormwater Pollution

- Statistics
- Health Effects (Personal, Animal, Environmental)

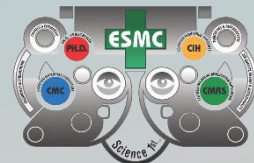
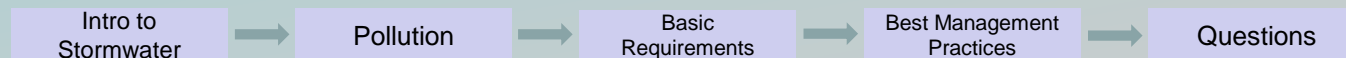
## Basic Requirements

- Federal/State Regulatory Compliance
- EPA, NJDEP, OSHA

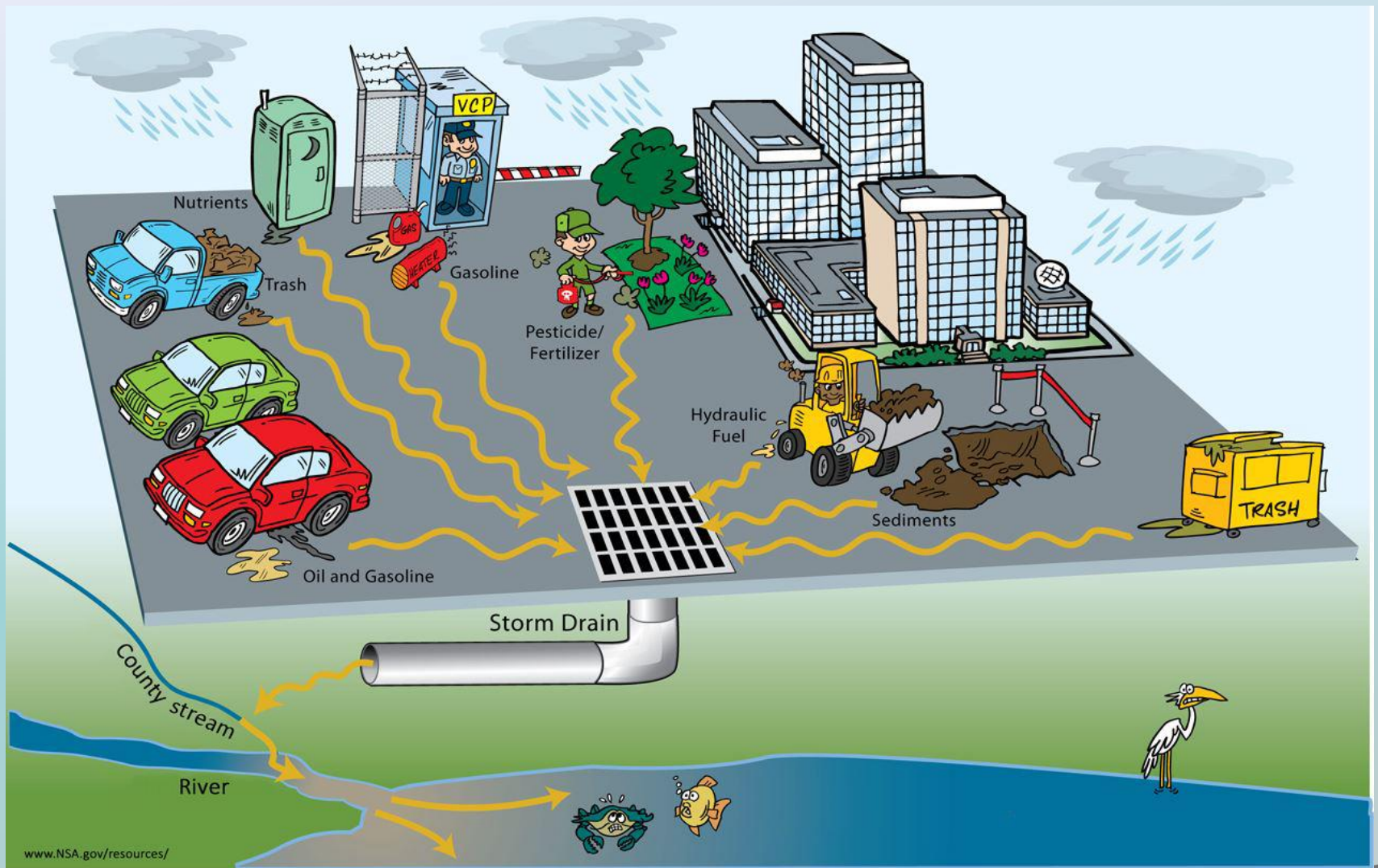
## Sussex County Best Management Practices

- General Housekeeping
- Vehicle and Equipment Fueling
- Vehicle Maintenance
- Equipment Cleaning
- Loading and Unloading
- Salt/De-Icing Storage
- Liquid, Solid and Waste Storage
- Spill Response

## Questions



# Introduction to Stormwater



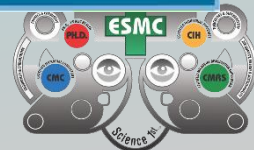
Intro to Stormwater

Pollution

Basic Requirements

Best Management Practices

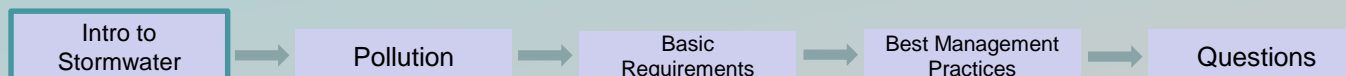
Questions





# Introduction to Stormwater

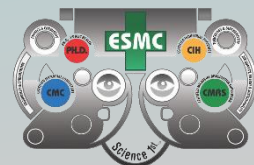
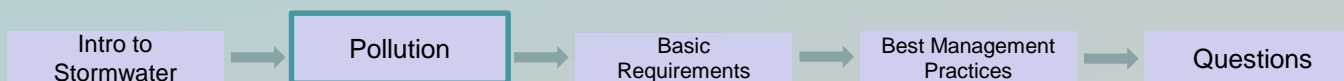
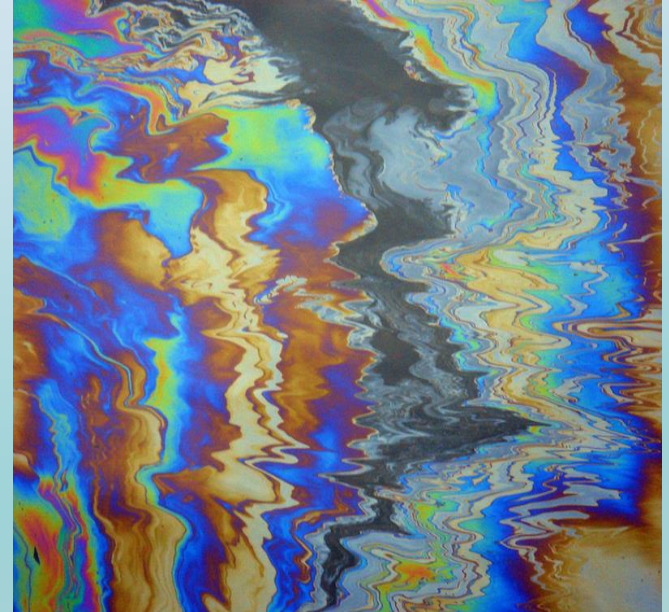
- Stormwater – Water generated by rain or melted snow/ice that does not get filtered by soil or water treatment facilities. Typically seen on roof sidings, pavement, construction facilities, etc.
- Runoff – Stormwater swept across impervious surfaces due to non-absorption.
- Pollutants – Any chemical, mineral or waste product introduced to runoff that can cause adverse effects to the environment.
- MS4 – Municipal Separate Storm Sewer System
- NJPDES – New Jersey Pollution Discharge Elimination System
- [Improper Disposal of Waste Impacts Stormwater, Surface and Groundwater Quality](#)



# Stormwater Pollution

## Oil

- One quart of oil can contaminate 250,000 gallons of water = 2 acres
- Animals' wings and fur are naturally waterproof and insulative; oil damages the separative barrier between the harsh elements and their insides. Death occurs through hypothermia or preening (grooming).
- Detrimental to human health
  - Physical Contact
  - Environmental factors
  - Eating fish



# Potential Stormwater

## Contamination by County Activities

### Contamination of Waterways by:

- Waste Oil Runoff
- Gasoline or Oil Spills at Fueling Stations
- Salt Contamination of soils and surface water
- Fertilizers and Pesticide Spills
- Soaps and Detergents in Storm Sewers and Surface Waters
- Asphalt, Concrete and Cold Patch leachate

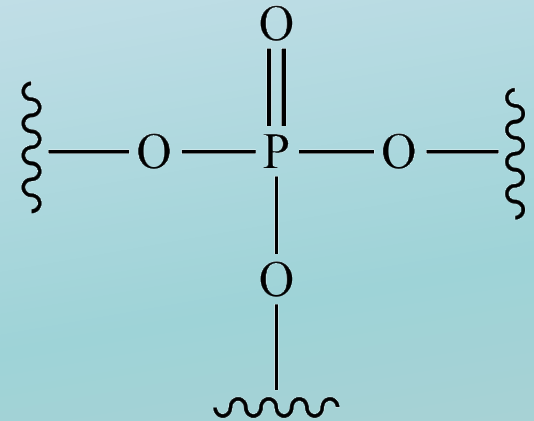


# Stormwater Pollution

## Phosphates (Detergents)

Phosphates are often used in heavy soaps and detergents

- Drastically increases algae
- Depletes oxygen
- Pollutes food supply and water supply
  - Rashes, liver illness, respiratory and neurological problems



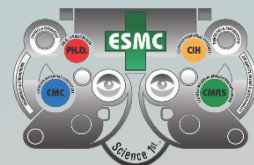
Intro to Stormwater

Pollution

Basic Requirements

Best Management Practices

Questions



# Stormwater Pollution

## (Acidification and De-Icers)

- [Acidification](#) of soils and surface waters as a result of elevated sulphur (S) and nitrogen (N) deposition has been widely documented from many sites in Europe and North America
- The [acidification](#) process is related to [leaching](#) of atmospheric-derived [sulphate](#) ( $\text{SO}_4^{2-}$ ) and excess [nitrate](#) ( $\text{NO}_3^-$ ) from soils to surface waters.
- In acid-sensitive ecosystems with slow-weathering [bedrock](#) and limited or depleted pools of base cations,  $\text{SO}_4^{2-}$  and  $\text{NO}_3^-$  in [runoff](#) will be accompanied by acidifying [hydrogen ions](#) ( $\text{H}^+$ ) and inorganic aluminium ( $\text{Al}_i$ ) that are toxic for many [aquatic organisms](#).
- [De-Icer Contamination to water, soils and vegetation](#)

# Stormwater Pollution (Total Suspended Solids)

Cause increased turbidity, which can significantly impact surface water ecology;

- reduction of light penetration,
- clogging of gills
- smothering of benthic communities,
- alteration of substrate, filling in channels and ponds.

Additionally, TSS may also include toxins and metals, further impacting the aquatic ecosystem.

# Stormwater Pollution (Nutrients)

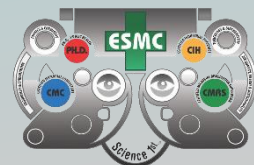
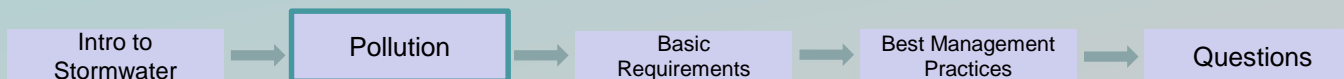
- Nutrients in stormwater runoff are generally a result of agriculture, fertilizers used on lawns and animal waste.
- Phosphorous and Nitrogen are main nutrients of concern in stormwater:
- Phosphorous and nitrogen over-stimulate plant growth in the aquatic environment, resulting in dense algal blooms. When the algae die, microorganisms break down the organic matter, consuming large amounts of oxygen in the process and reducing the dissolved oxygen concentration of the water.
- This process, known as eutrophication, can result in water discoloration, strong odors and the release of toxins.

# Stormwater Pollution

Other common worksite pollutants



- Sediment
- Grease
- Pesticides
- Chlorine
- Gasoline
- Paint
- Plastic
- Animal Waste



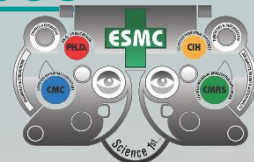
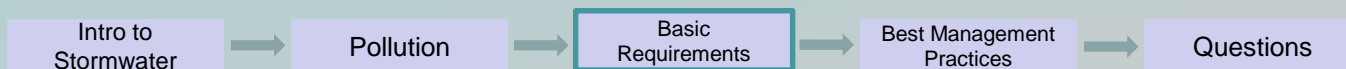


# Regulatory Requirements



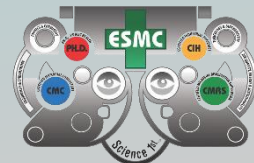
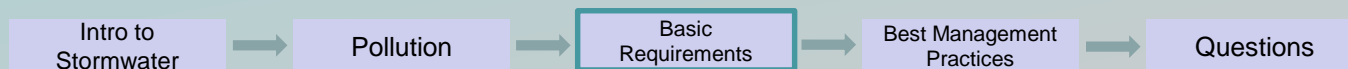
- NJ Department of Environmental Protection  
NJAC 7:14-25
- <https://www.cleanwater.nj.org/posters.htm>
- [Sussex County Storm Water Pollution Prevention Program](#)
- [Sussex County Best Management Practices](#)

<https://www.njstormwater.org/training.htm>



# Statewide Basic Requirements

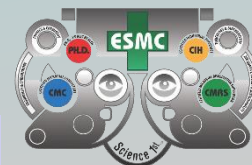
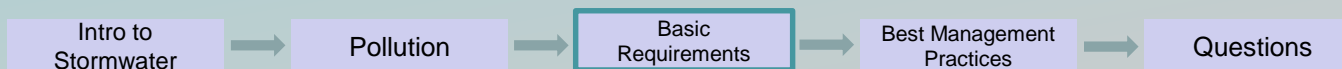
1. Comply with public notice requirements when providing for public participation in stormwater programs
2. Construction Site Stormwater runoff Control
  1. Responsible for creating and enforcing stormwater pollution prevention program
3. New and redevelopment areas
  1. Comply with State Regulations
  2. Any new or redevelopment of more than 1 acre needs a program to address stormwater runoff
4. Inform public about impacts of improper discharges
  1. Employees, Local Businesses and General Public
5. Prohibit improper disposal of Waste
  1. Create Map of MS4s Outfall Pipes
6. Control Solid and Floatable Materials



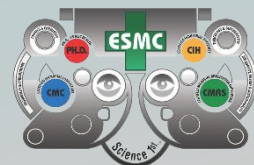
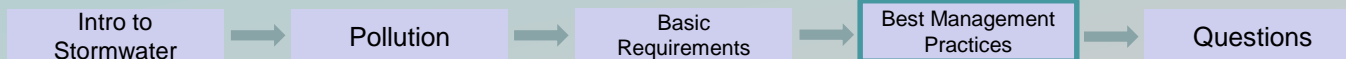
# Statewide Basic Requirements

(cont.)

7. Maintenance Yards and Highway Service Areas
  1. Develop and implement operations and maintenance program to prevent or reduce runoff pollution
8. Conduct Employee Training to reduce or prevent stormwater pollution



# Sussex County Best Management Practices



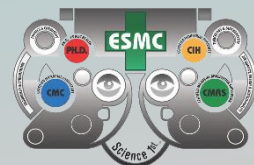
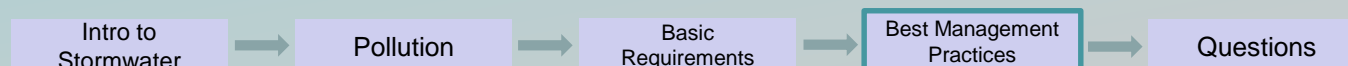
# 8 Best Management Practices

Activities, Prohibitions, Procedures

Prevent or reduce the release of pollutants to surface waters

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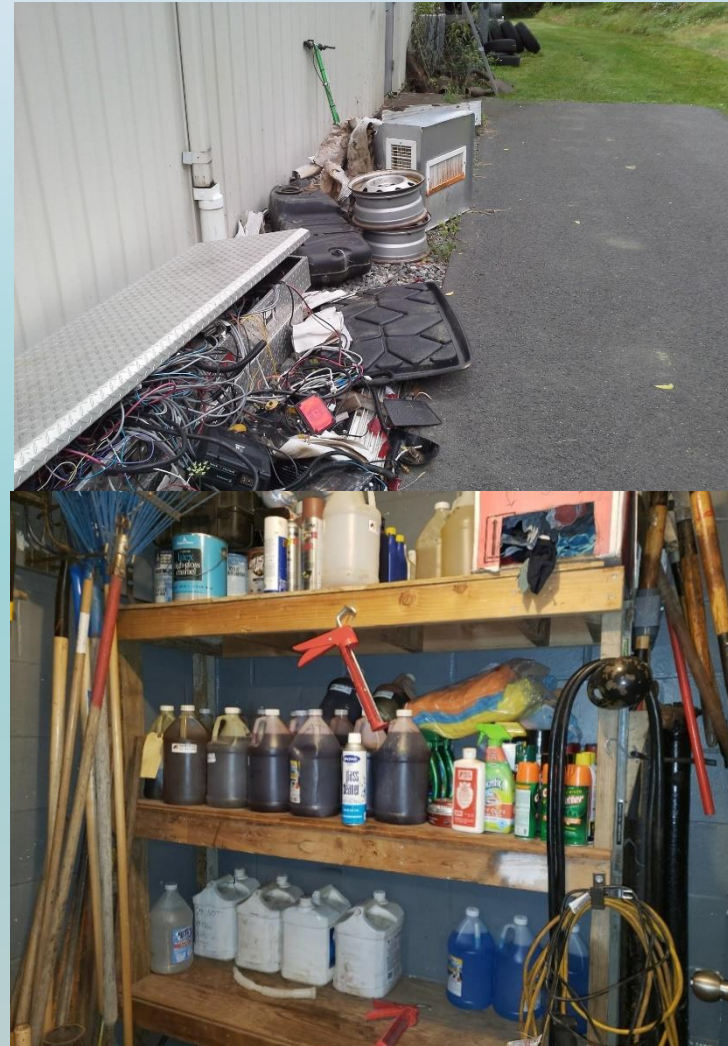
1. General Housekeeping
2. Vehicle and Equipment Fueling
3. Vehicle Maintenance, Inspection and Repair
4. Vehicle and Equipment Cleaning
5. Loading and Unloading of Materials
6. Salt/De-icing and Raw Materials Storage
7. Storage of Liquids, Solid Waste and Hazardous Materials
8. Spill Response



# Best Management Practices

## 1. General Housekeeping

- Keep all facilities and storage areas clean
- Label, organize and tightly seal materials
- Store materials indoors
- Conduct regular inspections
- Spill kits should be easily accessible
- Collect and dispose waste/recycling appropriately
- Outdoor Refuse containers shall always be covered and managed to prevent spilling
  - exceptions for temporary demolition containers, litter receptacles, and containers which hold large bulky items



# Best Management Practices

## 2. Vehicle and Equipment Fueling

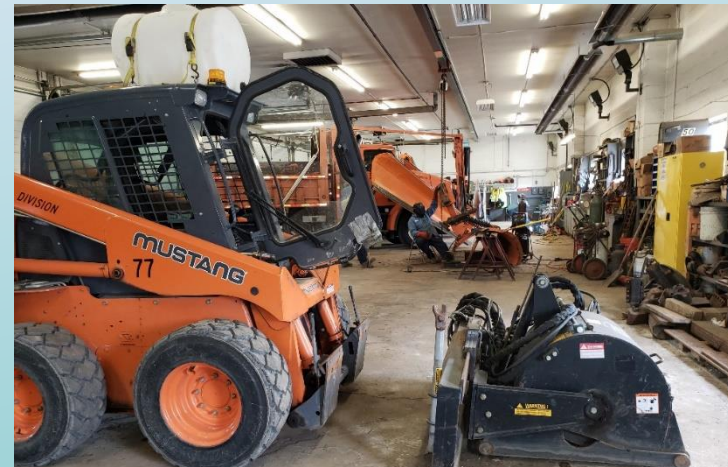
- Provide ample and accessible supply of spill kits
- Emergency Shut-off Nozzles
- Clearly display Safe-Fueling instructions
- Equip fluid storage drums with spill containment dikes protecting from runoffs and spills
- Dual Wall Storage Systems
- Follow regular vehicle fueling procedure
  - Shut the engine off
  - Ensure that the fuel is the proper type
  - Eliminate all Ignition Sources and Prohibit Smoking
  - Fuel tanks shall not be “topped off.”
  - Report Any Spills to the Number Posted the Fueling Sign
- Minimize Mobile Fueling
- Rapidly and effectively respond to spills



# Best Management Practices

## 3. Vehicle Maintenance, Inspection and Repair

- Proper Site Preparation
  - Vehicle Maintenance areas protected from storm water run-on and runoff
  - Located Downstream of drainage facilities
  - Ample and accessible supply of spill kits
- Conduct vehicle maintenance operation in designated locations
- Use drip pans
- Properly dispose oils, grease, fluid, batteries, tires, containers, etc
- Properly collect waste fluids in labeled containers





# Best Management Practices

## 4. Vehicle and Equipment Cleaning

- Regularly inspect vehicles for oil leakage
- Remove snow and ice at Wheatsworth facility only
- Vehicle Rinsing shall only be permitted following de-icing application.
  - Prior to rinsing, all loose materials shall be hand swept from equipment and returned to storage material storage facility.
- Rinsing is limited to cold water.
  - Soaps, detergents, degreasers are not permitted during post storm vehicle rinsing. No Rinsing of engine or other enclosed machinery is permitted.
  - Clear water underbody rinsing is permitted

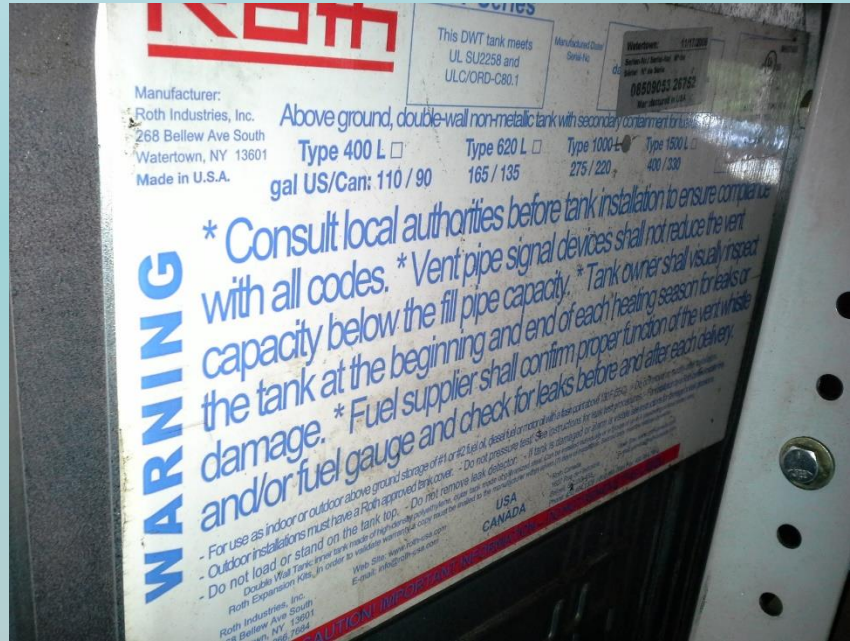


# Best Management Practices

## 5. Loading and Unloading of Materials

- Provide ample and accessible supply of spill kits
- Transfer Liquids indoors away from drains with adequate ventilation
- Dike drains
- Transfer flammable liquids with bonding and grounding techniques
  - Bond: equalize static electric charge between containers
  - Ground: drain excess charge to ground
- Do not smoke
- Remove all ignition sources





# Best Management Practices

## 6. De-icing Material Storage

- All Salt shall be stored in a permanent structure with an impermeable floor and completely roofed
- If temp outdoor storage required, use plastic sheeting or tarp
- Clean spills with dry cleaning method
- Regularly sweep loading area, especially after loading/unloading activities
- Minimize material transport distance
- Minimize tracking of materials



# Best Management Practices

## 7. Storage of Liquids, Solid Waste and Hazardous Materials

- Cover waste oil storage tanks with roofs to prevent rain water contact
- All exterior waste storage tanks shall have secondary containment
- Keep tops and lids on waste storage containers closed
- Monitor storage tank levels and do not overfill tanks, report full tank to your supervisor
- Inspect storage tanks regularly for signs of leakage.
- Maintain records of inspections and findings
- Maintain ready availability of spill kits including sorbents, dikes, shovels

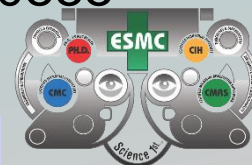
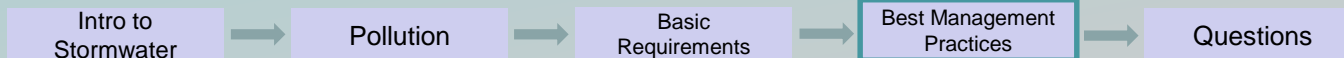


# Best Management Practices

## 8. Spill Response



- Small: Generally, one (1) or less gallons onto impervious surfaces with no potential for storm water or soil contamination
- Medium: 1-5 Gallons discharged into the environment with no potential for storm water or soil contamination
- Large: Generally, in excess of one (5) gallons.
- Notify Sussex County Sherrif for Assistance 973-579-0888



# Spill Response Continued

## Classes of Materials

- Hazardous Chemicals: acids, solvents, Reference the Right-to-Know / Safety Data Sheets for safety related data, employ appropriate PPE
  - Petroleum: Petroleum Products (oils, gas, diesel, etc.)
  - Solid: deicing chemicals
  - Other Liquids: coolants, cutting fluids, oil-based paints and stains
- Conduct cleanups of any spills immediately after discovery.
  - Spills are to be cleaned using dry cleaning methods only. Spills shall be cleaned up with a dry, absorbent material (e.g., granular absorbent and absorbent pads) and the rest of the area is to be swept.
  - These materials are readily available in the on-site spill kits.
  - On a monthly basis inspect Spill Response kits for functionality.
  - Maintain a written log at the facility.