Stormwater Pollution Prevention Plan

Township of Oxford
County of Warren
Permit Number - NJG0151904
Date: December 18, 2023

Stormwater Program Coordinator: Michael S. Finelli, P.E.

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Appendix A – BMP Inventory List

Appendix B – Outfall Location Map (map available at m3.mappler.net/oxfordtwp)

Appendix C – Street Sweeping Map (Reserved)

Form 1 – Team Members

	Stormwater Program Coordinator (SPC)						
Name an	Name and Title Michael S. Finelli, P.E., Township Engineer						
Phone	908-835-9500		Email	mikef@f	inellicon.com		
	Individual(s) Responsible for Major Development Project Stormwater Management Review						
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		ther Municipal		ater Tear	m Members		
Name an	nd Title	Lee Geller, Cle	rk				
Phone	908-453-3098		Email	towncl	erk@oxfordtwpnj.org		
Name an	nd Title	Lou Accetturo,	DPW Dir	rector			
Phone	908-453-3303		Email	dpw@	oxfordtwpnj.org		
Name an	nd Title						
Phone			Email				
		Shared/Cont					
Provider Name Service		e Provided		Term of Service			
Musconetcong Education Cre Watershed Association		Education Cred	lits Yearly		Yearly		
Washington Borough Street Sweepin		g		Yearly			

Form 2 – Revision History

Revision Date	Form # Changed	Reason for Revision (Updates to staff, policy, webpage, etc.)
December 2023	All	Create SPPP per 2023 Tier A Permit

Form 3 – Public Announcements

Part IV.B. and C.

1.	Provide the link to the dedicated stormwater webpage for your municipality.
	oxfordtwpnj.org/index.php/about-oxford-township-2-3-3/
2.	List the name and title of person(s) responsible for stormwater webpage postings/updates.
	Lee Geller, Clerk
3.	List the newspapers, social media outlets, websites, direct mailings (Email or postal), and other communication approaches typically used to inform/educate the public on stormwater program information and related events/activities.
	Express Times & Star Ledger Township website Direct mail

Form 4 – Post-Construction Stormwater Management in New Development and Redevelopment

Part IV.E.

- 1. How does the municipality define "major development"? If it is different from the definition in N.J.A.C. 7:8, explain the difference.
- A. An individual development, as well as multiple developments that individually or collectively result in:
 - 1. The disturbance of one or more acres of land since February 2, 2004;
 - 2. The creation of 1/4 acre or more of regulated impervious surface since February 2, 2004;
 - 3. The creation of 1/4 acre or more of regulated motor vehicle surface since March 2, 2021; or
 - 4. A combination of Subsection $\underline{A(2)}$ and $\underline{(3)}$, above, that totals an area of 1/4 acre or more. The same surface shall not be counted twice when determining if the combination area equals 1/4 acre or more.
- B. Major development includes all developments that are part of a common plan of development or sale (for example, phased residential development) that collectively or individually meet any one or more of Subsection A.1, 2, 3 or 4 above. Projects undertaken by any government agency that otherwise meet the definition of "major development" but which do not require approval under the Municipal Land Use Law, N.J.S.A. 40:55D-1 et seq., are also considered "major development."
- 2. Is the municipality's stormwater control ordinance (SCO) the same as or more stringent than NJDEP's model SCO? If more stringent, explain the difference.

The adopted SCO contains additional provisions as required by the NJ Highlands Council for lands within the Preservation Area.

3. Describe the process for reviewing major development project applications for compliance with the SCO and Residential Site Improvement Standards (RSIS).

Review is completed by the Township Engineer/Land Use Board Engineer in accordance with the SCO, 7:8 and RSIS.

4. Does your municipality have a mitigation plan included in your Municipal Stormwater Management Plan and Stormwater Control Ordinance? Indicate the location of records of all variances granted.

Yes. Records of any granted variances are located within LU Board Engineer's technical review reports and LU Board approval resolutions.

5. Indicate the dates of each iteration of the township's Stormwater Control Ordinance, starting with the initial adoption and including revisions.

The SCO was initially adopted on March 3, 2021.

6. Indicate the dates of each iteration of the township's Municipal Stormwater Management Plan, starting with the initial adoption and including revisions.

Ordered Transporting / Western Corn	/ AMPREC AMCC	0151004/D 1 16	2022	

The SWMP was initially adopted in July 2005. Most recent revision is January 2022.

Form 5 – Ordinances

Part IV.F.1.

Ordinance	Date Adopted	Was the DEP model adopted without change? If not, explain how the municipality's is more stringent.	Entity Responsible for Enforcement	Fees & Fines
1. Pet Waste		Ordinance to be adopted prior to January 1, 2024	Code Enforcement	\$
2. Wildlife Feeding		Ordinance to be adopted prior to January 1, 2024	Code Enforcement	\$
3. Litter Control		Ordinance to be adopted prior to January 1, 2024	Code Enforcement	\$
4. Improper Disposal of Waste		Ordinance to be adopted prior to January 1, 2024	Code Enforcement	\$
5. Yard Waste		Ordinance to be adopted prior to January 1, 2024	Code Enforcement	\$
6. Private Storm Drain Inlet Retrofitting		Ordinance to be adopted prior to January 1, 2024	Code Enforcement	\$
7. Illicit Connections		Ordinance to be adopted prior to January 1, 2024	Code Enforcement	\$
8. Privately- Owned Salt Storage		Ordinance to be adopted prior to January 1, 2024	Code Enforcement	\$
9. Tree Removal-Replacement		Ordinance to be adopted prior to January 1, 2024	Code Enforcement	\$

List any additional stormwater-related ordinances the municipality has adopted that address issues beyond the scope of the MS4 permit. Include adoption date, entity responsible for enforcement, and related fees and fines.

None.

Indicate the location of records associated with ordinances and related violations and enforcement actions below.

Records are located in the Clerk's office.

Form 6 – Street Sweeping

Part IV.F.2.a.i. and ii.

- 1. Provide a written description and/or attach a map outlining the sweeping schedule for the following:
 - Segments of municipal roads with storm drain inlets that discharge to surface water (required at least 3 times each year)
 - Segments of municipal roads that do <u>not</u> have storm drain inlets but <u>do</u> discharge to surface water (required at least 1 times each year)

Note: Only asphalt and concrete roads need to be swept. Roads that do not have storm drain inlets and do not discharge to surface water do <u>not</u> need to be swept.

See attached street sweeping map. FCE TO PREAPRE A MAP

Municipally owned roads that have storm drain inlets will be swept 3x a year, and municipally owned roads that do not have storm drain inlets but DO discharge to surface water will be swept 1x a year.

2. Indicate if sweeping work is outsourced and if so, describe the arrangement.

Oxford does a shared service with Washington Boro and all sweepings are brought to the Warren County Landfill.

Form 7 – MS4 Infrastructure

Part IV.F.2-4, and Part IV.G.2-3.

1. Municipal Storm Drain Inlets

- a. Describe how you ensure that municipal inlets without permanent wording cast into the design have been properly labelled.
- b. Describe how you ensure that municipal and private storm drain inlets have been retrofitted.
- c. Describe how you ensure that newly installed storm drain inlets include corresponding catch basins or other BMPs to collect solids.
- d. Describe when and how you conduct inspections of storm drain inlets and the criteria used to determine when they need to be cleaned.
 - a. "Discharges to Waterway" labels have been installed on all inlets. The DPW checks the labels annually and replaces them when necessary.
 - b. The Township is in the process of preparing a stormwater infrastructure map which will identify all inlets. A schedule will be prepared to retrofit all inlets for solids collection by December 1, 2028.
 - c. All newly installed inlets shall be equipped with grates and curb openings that comply with the Appendix B standards for collection of solids.
 - d. The DPW inspects all Township owned inlet grates on an annual basis and any debris is removed.

2. Municipal Catch Basins

- a. Describe when and how you conduct inspections of catch basins.
- b. Describe the criteria used to determine when catch basins need to be cleaned.
 - a. The DPW inspects all Township owned inlet boxes (catch basins) over a 5-year period with a minimum of 20% of the catch basins inspected annually.
 - b. Catch basins are cleaned when there is debris within the basin or sediment deposits which extend above the invert of the discharge pipe.

3. Municipal Conveyance System

Describe when and how inspections of MS4 conveyance systems are conducted, and the criteria used to determine when they need to be cleaned. Include a description of the equipment and techniques used.

The DPW inspects conveyance systems, mainly ditches and swales, during their annual inspection of inlet grates. These facilities will be scheduled for cleaning if there is trash or debris restricting flows. Conveyance systems which are downstream of areas exhibiting flooding and which include pipes are inspected with a sewer camera. Maintenance is scheduled if required.

4. Municipal Outfall Inspections – Stream Scouring

Describe the program in place to detect, investigate, and control localized steam scouring from stormwater outfalls. Include a description of the equipment and techniques used.

The DPW inspects all Township owned stormwater outfalls for scour over a 5-year period with a minimum of 20% of the outfalls inspected annually. The inspections are to identify scouring of the stream bank or stream bottom caused by the outfall. The source or cause of the scour shall be determined and corrected, and the scour shall be scheduled for repair. Repairs shall conform with the Standards for Soil Erosion and Sediment Control in New Jersey and the NJDEP Flood Hazard Area Control Act Rules.

5. Municipal Outfall Inspections – Illicit Discharge Detection and Elimination
Describe the program in place for conducting visual dry weather inspections of municipally owned or operated outfalls. Include a description of the equipment and techniques used.
Record cases of illicit discharges using the DEP's Illicit Connection Inspection Report Form from the Department's main stormwater webpage.

The DPW inspects all outfalls for illicit discharges during its inspections for scour. Any identified illicit connections will be reported, and measures taken to identify the source of the connections and eliminate it.

6. Other Municipal Infrastructure

List the types of MS4 infrastructure in your town that require inspection but are not noted above in items 1-5. Describe when and how you conduct inspections of this infrastructure and the criteria used to determine when they need to be maintained and/or cleaned.

The Township owns or is responsible for the operation of two (2) stormwater detention basins. The DPW inspects these facilities at least 4 times per year and after significant rainfall events. An inventory of the basins is kept along with logs of inspection and maintenance activities. Inspection and maintenance is conducted in accordance with the approved Operations and Maintenance Plan, if one exists, otherwise the NJDEP Field Manual for detention basins is used. Maintenance activities include the removal of sediment, trash and debris, mowing, pruning of vegetation, restoration of any eroded areas, elimination of any mosquito breeding areas and repair or replacement of any damaged structural components.

7. Stormwater Facilities Not Owned or Operated by the Municipality

Describe your program for ensuring adequate long-term cleaning, operation, and maintenance of stormwater facilities not owned or operated by the municipality. This should include your plan for ensuring annual inspections are being done on these private properties and describe how you record the locations and logs associated with private infrastructure.

There is one (1) privately owned SWM BMP within the Township. The Township sends a letter to the owners annually to ensure that they are being operated and maintained in accordance with the Operations and Maintenance Plans approved by the Township. A log of the inspections is kept and the owner is notified in writing if maintenance or repairs are required. If maintenance is not performed the Township may perform the work and bill the owner.

8. Infrastructure Records

Indicate the location of records related to stormwater infrastructure inspection, cleaning, maintenance, and repair activities.

Inventory logs of stormwater facilities and logs documenting inspections, cleaning and repairs are kept by the DPW Director.

Form 8 – Community-wide Measures *Part IV.F.2.*

1. Herbicide Application Management

Describe your program for preventing herbicides from being washed into the waters of the State and to prevent erosion caused by de-vegetation.

The DPW does not apply herbicides. Unwanted vegetation is controlled by mowing.

2. Excess Deicing Material Management

Describe your program for ensuring that excess salt piles are removed in a timely manner after storm events.

The DPW removes any significant accumulation of salt on the roads within 72-hours of a storm event. The material is collected by hand with shovels, placed in a container and returned to the Township's salt storage building.

3. Roadside Vegetative Waste

Describe your program for ensuring proper pickup, handling, storage, and disposal of wood waste and yard trimmings generated by the permittee along municipal roads or on municipal properties (trimming trees, mowing, etc.).

Roadside mowing is completed several times a year. The township uses a flail roadside mower along municipal roads. Vegetative waste is mulched and composted in place, the mower has guards to contain all vegetation underneath the mower to completely chop the vegetative waste.

4. Roadside Erosion Control

Describe your program to detect and repair erosion along municipal roadways.

The DPW checks for erosion along the roadways during its travels and during its annual inspection of inlet grates. Maintenance is scheduled as required. Stabilization is conducted in accordance with the Standards for Erosion and Sediment Control in New Jersey.

Form 9 – Municipal Maintenance Yards & Other Ancillary Operations Part IV.F.5.

Please complete a separate Form 9 for each yard or site. Indicate the number of yards/sites the municipality owns or operates:

1. Site Name and Address

Oxford Township DPW 153 Mt. Pisgah Avenue Oxford, NJ. 07863

2. Monthly Site Inspections

Describe the nature of inspections conducted at this site and the location of inspection logs.

Site inspection of the maintenance yard is conducted in the course of daily operations to ensure that any materials or machinery stored outdoors have a minimal exposure to stormwater and are situated on impervious surfaces and covered. Any bulk liquid storage is checked to make sure that it is protected by secondary containment and refuse containers are checked to make sure they are covered. Confirmation is made that a spill kit is available in the event of some type of spillage. Inspection logs are kept by the DPW Director.

3. Inventory List

List all materials and machinery that are potentially exposed to stormwater.

Materials	Machinery/Equipment
Diesel Fuel	All equipment is stored inside.
Road Salt (Sodium Chloride)	

4. Discharge of Stormwater from Secondary Containment

Describe the process in place for discharging stormwater from secondary containment areas where outdoor containers are stored.

There are no secondary containment areas on this site.

5. Fueling Operations

Does fueling occur on site? If so, describe the BMPs in place to minimize contamination of stormwater from fueling activities. If not, explain where fueling takes place.

Gasoline fuel is purchased at the local gas station and diesel fuel is on site with the use of a 1000 gallon tank. Fuel nozzles are equipped with automatic shutoff valves to prevent overfilling. Drip pans are used during bulk fuel transfers. The following signs are posted: (1) Topping off of vehicles, mobile fuel tanks or storage tanks is prohibited, (2) Stay in view of fuel nozzle during dispensing, and (3) Contact information for the person responsible for

spill response. A spill kit with absorbent spill clean-up materials is available in the event of a spill. Spills are cleaned with a dry, absorbent material (i.e., kitty litter, sawdust, etc.) and swept and the material is properly disposed of.

6. Vehicle/Equipment Maintenance and Repair

Do you perform maintenance and repair on site? Is this conducted indoors or outdoors? If outdoors, describe the BMPs in place to minimize contamination of stormwater from maintenance and repair activities.

Vehicle maintenance is conducted indoors with drip plans available to collect contaminants.

7. Wash Wastewater Containment

Do you wash vehicles on site? If so, describe the BMPs in place to minimize contamination of stormwater from these activities. Note that on site containment structures require annual inspections by a NJ licensed professional engineer. If not, explain where vehicle washing takes place.

The township does not wash vehicles on site, washing takes place at approved facilities such as car/truck washes.

8. Salt and Other Granular De-icing Materials

Do you store salt and other granular deicing materials on site? If so, describe how they are stored and the BMPs in place to minimize contamination of stormwater from these materials. If not, explain where these materials are stored.

De-icing material is stored within an enclosed building on the site with an impervious floor. No de-icing materials or sand is stored outside. Care is taken to minimize the spillage of materials during loading and unloading. Any spills are immediately cleaned with the material being placed on the truck or within the building. The loading/unloading area is swept as necessary to prevent contamination from stormwater runoff or tracking onto the street.

9. Aggregate Material, Wood Chips, and Finished Leaf Compost

Do you store these materials on site? If so, describe how they are stored and the BMPs in place to minimize contamination of stormwater from these materials. If not, explain where these materials are stored.

None of these materials are stored on site.

10. Cold Patch Asphalt

Do you store these materials on site? If so, describe how they are stored and the BMPs in place to minimize contamination of stormwater from these materials. If not, explain where these materials are stored.

Cold patch Asphalt is not stored on site.



Do you store these materials on site? If so, describe how they are stored and the BMPs in place to minimize contamination of stormwater from these materials. If not, explain where these materials are stored.

No street sweeping or storm drain material is stored on site. It is all brought to the Warren County Landfill.

12. Construction and Demolition Waste, Wood Waste, and Yard Trimmings

Do you store these materials on site? If so, describe how they are stored and the BMPs in place to minimize contamination of stormwater from these materials. If not, explain where these materials are stored.

Not collected thus not stored on site.

13. Scrap Tires

Do you store these materials on site? If so, describe how they are stored and the BMPs in place to minimize contamination of stormwater from these materials. If not, explain where these materials are stored.

We do not collect scrap tires and the townships are taken by the contractor replacing the tires.

14. Inoperable Vehicles and Equipment

Do you store inoperable vehicles or equipment on site? If so, describe how they are stored and the BMPs in place to minimize contamination of stormwater. If not, explain where they are stored.

We have no inoperable vehicles.

Form 10 - Training

Part IV.F.6-10.

Stormwater Program Coordinators

Describe the training provided for the municipal Stormwater Program Coordinator.

The SPC (Township Engineer) attends all NJDEP required training as provided during every permit cycle. Training includes the responsibilities of the SPC, understanding of MS4 permit conditions, required annual reporting and required submissions and documentation.

Topic	Municipal Employees
	Examples: in-person or virtual group sessions, e-Learning, field trainings, and videos
SPPP	Describe the training provided for municipal staff. The Township Engineer conducts ongoing training of staff including the Clerk and DPW Director whose duties support the stormwater program. Training includes applicable specific requirements of the SPPP including record keeping.
Construction Site Stormwater Runoff	Construction inspectors are trained by the Township Engineer to understand and administer Soil Erosion and Sediment Control Plans for developments exceeding 5,000 square feet of disturbance as approved by the Soil Conservation District.
Post-Construction Stormwater Management in New and Redevelopment	Staff responsible for review of post-construction SWM plans are trained by the Township Engineer. Training includes the definition of major development, when SWM plans are required, understanding of the SWM Rules at NJAC 7:8, the Township's SCO, the NJDEP BMP Manual & guidance documents, and recording keeping requirements.
Community-wide Ordinances	Staff including the Clerk, Police, and Zoning Officer receive updates on the need to enforce community wide ordinances regulating Pet Waste, Wildlife Feeding, Litter Control, Improper Disposal of Waste, Yard Waste, Illicit Connections, and Refuse Containers.
Community-wide Measures	The Township DPW has implemented and receives training on the following SWM measures: Street sweeping, inlet labeling noting that inlets discharge to waterways, retrofitting of existing inlets to trap solids, management of excess deicing materials, vegetative waste management, and roadside erosion controls.
Stormwater Facilities Maintenance	The DPW is trained on the MS4 requirements to inspect, clean, maintain and repair inlets, catch basins, pipe systems, and BMP's (primarily detention basins) owned by the Township and to keep a log of the inspection and maintenance activities. Inspection frequencies are per the MS4 permit. Inspections of privately owned BMP's are conducted annually to ensure that private owners are maintaining their facilities. Owners are notified if the facilities are not being properly maintained.

Municipal Maintenance Yards and Other Ancillary Operations	The DPW staff responsible for compliance with SWM requirements at the maintenance yard receive annual training to understand MS4 Permit requirements, best management practices (BMP's), safety equipment & procedures, and record keeping.
MS4 Mapping	The Township Engineer has reviewed and understands the MS4 Permit requirements for infrastructure mapping and has scheduled the production of an electronic map which meets the completion deadline in the permit.
Outfall Stream Scouring	The DPW staff is trained to inspect outfalls for potential scour at least once every five (5) years. If scour is identified a plan is prepared and implemented for repairs. Repairs shall be made in accordance with the Standards for Soil Erosion and Sediment Control in New Jersey.
Illicit Discharge Detection and Elimination	The DPW staff is trained to inspect outfalls for potential illicit connections to the storm drainage system at least once every five (5) years during their inspections for scour. If a potential illicit connection is suspected the source of the discharge shall be investigated and corrected as necessary.

Stormwater Management Design Reviewers

Describe the training provided for individuals responsible for reviews and approvals of stormwater management designs.

The individuals identified within this plan who are responsible for review of SWM plans have completed the mandatory training required by NJDEP and described within the MS4 Permit. The training course covers the Township's stormwater control ordinance (SCO) and NJDEP rule requirements, calculation methodologies, and how to review a major development. The training must be completed at least once every five (5) years.

Municipal Board and Governing Body Members

Describe the training provided for members of the planning/zoning board and municipal council.

Land Use Board and Committee members must complete the "Asking the Right Questions in Stormwater Review Training Tool" posted at www.njstormwater.org/training.htm. This training must be completed by current Land Use Board and Committee members and once per term of service thereafter. In addition, Land Use Board and Committee members must review at least one of the other training tools offered under Post-Construction Stormwater Management found at the website above.

Training Records

Indicate the location of training records for the above required training.

Logs of training records including the type of training, date of training and attendees are kept either in the Clerk's office or in the DPW Director's office where the training involves DPW staff.

Form 11 – MS4 Mapping

Part IV.G.1.

1. Provide a link to the most current MS4 outfall/infrastructure map.				
www.greenwichtownship.org/stormwater-management/				
2. Indicate the total of each type of MS4 infrastructure listed below (d	ue 01 Jan 2026).			
a. MS4 outfalls	Undetermined			
b. MS4 ground water discharge points (basins or overland	0			
flow infiltration areas)				
c. MS4 interconnections	0			
d. MS4 storm drain inlets	Undetermined			
e. MS4 manholes	Undetermined			
f. Length of conveyance (channels, pipes, ditches, etc.)	Undetermined			
g. MS4 pump stations	0			
h. MS4 stormwater facilities (any that are not listed above)	3			
i. Maintenance yard(s) and other ancillary operations	1			
3. Describe how the municipality's outfall/infrastructure map is reviewed and updated to				
reflect any new or newly identified MS4 infrastructure (e.g., an out	fall is closed, a new			

The Township Engineer at the end of each year will prepare a list of private developments and municipal projects which have been constructed during the year. The final development plans or as-built plans for those projects will be collected and all new stormwater infrastructure will be added to the MS4 Infrastructure Map.

4. Describe how the municipality will create and update its MS4 Infrastructure Map.

basin is constructed, ownership of an outfall has changed, etc.).

The Infrastructure Map will be developed by the Township Engineer as required by the 2023 MS4 Permit. The map will be prepared utilizing development plans and roadway improvement plans which are available within the files of the Township. Field surveys will be performed by the Township Engineer's survey staff to locate infrastructure which is not available within the existing mapping.

Form 12 – Watershed Improvement Plan *Part IV.H.*

1. Describe how your municipality is developing its Watershed Improvement Plan.

The Township Engineer is in the process of preparing the Watershed Inventory Report. The Township's existing outfall map will be updated to include the new information required for the Watershed Inventory Report.

2. Describe any regional projects or collaboration efforts with other municipalities.

The Township is not aware of any regional SWM projects and the Township does not anticipate any collaboration with adjoining municipalities.

3. Indicate the location of records related to all public information sessions and meetings for discussions of the Watershed Improvement Plan.

Records of any public information sessions and other meetings regarding the Watershed Improvement Plan will be filed in the Township Clerk's office.

APPENDIX A

BMP INVENTORY LIST

BMP INSPECTION LOG

BMP MAINTENANCE LOG

ILLICIT CONNECTION

MAJOR DEVELOPMENT

OUTFALL INSPECTION

STREAM SCOUR INSPECTION

Oxford Township Inventory of Stormwater BMP's

The following is a list of BMP's within the Township including both Township owned BMP's and privately owned BMP's.

Name of Development	Owner	Street Address	Block	Lot	Type of BMP	Location of BMP
Spring Meadows	Oxford Township	Pequest Road & Robeson Ridge Road	33.01	8	Detention Basin	Lat. 40.826 Long. 74.976
Spring Meadows	Oxford Township	230 Pequest Road	33	25	Detention Basin	Lat. 40.820 Long. 74.974
Cambridge East						

Franklin Township Stormwater BMP Inspection Log

The Township DPW shall conduct quarterly inspections of Township owned BMP's and annual inspections of privately owned BMP's to ensure that the BMP's are being properly maintained by the responsible party. Inspections shall be logged below.

Date of Inspection	Name of Development	Street Address	Block	Lot	Type of BMP	Location of BMP	Owner	Comments

Franklin Township Stormwater BMP Maintenance Log

The Township DPW shall conduct required maintenance of Township owned BMP's and shall inspect privately owned BMP's and notify the owners if required maintenance is not being performed. Maintenance activities and notifications shall be logged below.

Illicit Connection Inspection Report Form

For additional information regarding illicit discharge investigations, refer to Chapter 3.6 of the <u>Tier A Guidance</u>

<u>Document</u>.

If a dry weather flow or other evidence of an intermittent illicit discharge is observed, this form shall be used to document the illicit discharge investigation in accordance with the current MS4 NJPDES Permit. This completed form shall be uploaded with the permittee's Annual Report and Certification and be kept with the permittee's SPPP as per the recordkeeping requirements of the permit. Initial illicit connection inspections must be performed during dry weather, which is at least 72 hours after the end of the previous precipitation or snowmelt event.

It is required to attach photos of the investigation to this form.

Illicit discharges must be reported immediately to the NJDEP Hotline at 1-877-WARNDEP (1-877-927-6337).

SECTION 1: PERMITTEE INFORMATION					
MS4 Permittee:	Permittee: NJPDES #: NJG0				
SECTION 2: OUTFALL SUMMARY INFO	RMATION				
If this outfall is newly ide	ntified, be sure to add it to your electronic outfall pipe map.				
Outfall ID:	Outfall Location Description:				
Municipality:	County:				
Receiving Waterbody:					
	t delivers the stormwater to the receiving waterbody (concrete or .):				
If the ultimate discharge into the receive partially submerged?	ving water is from an enclosed pipe , is the end of the pipe fully or □ NEVER □ SOMETIMES* □ ALWAYS*				
*If 'Sometimes' or 'Always,' describe su	ubmerged condition at time of inspection:				
_	ving water is not from an enclosed pipe , what is the approximate nclosed stormwater conveyance pipe to the receiving waterbody				
Do any other NJPDES permittees discha	arge through this MS4 outfall? ☐ YES* ☐ NO ☐ UNKNOWN				
*If 'YES', list Permittee Name(s), NJPDE	S #(s), and Location of Connection:				
If 'YES',	please contact your MS4 Case Manager.				

SECTION 3: OUT	FALL INSPECTION			
Date of current	inspection:/			
Latest precipitat	ion/snowmelt event:/ Amount of Precipitation (in.):			
Date dry weather flow or other evidence of an intermittent illicit discharge was first discovered://				
List the date(s) of	of previous inspection(s) and describe the actions taken, if applicable:			
	· · · · · · · · · · · · · · · · · · ·			
SECTION 4: PHV	SICAL OBSERVATIONS			
	either partially or fully submerged, dry weather flow observations must be made at the next ream point (e.g. manhole) above the influence of the receiving surface waterbody.			
If applicable: M	anhole ID: Approximate distance upstream from outfall (ft.):			
The permittee sl	hall use the table below to describe 1) the observed dry weather flow and/or 2) when there			
are indications of	of intermittent illicit discharges present.			
	(Potential illicit discharge sources are listed in parentheses.)			
Odor	□ None			
	☐ Sewage (stale/septic sanitary wastewater)			
	☐ Petroleum/Gas (petroleum refineries, vehicle maintenance facilities, petroleum			
product storage)				
	☐ Rancid/Sour (food preparation facilities, e.g. restaurants, hotels, etc.)			
☐ Sulfide (industries discharging sulfide compounds or organics, e.g. meat packers, canneries, dairies, etc.)				
	☐ Other:			
Color	☐ Brown (meat packers, printing plants, metal works, concrete or stone operations,			
	fertilizer facilities, and petroleum refining facilities)			
	☐ Gray (dairies, sewage)			
	☐ Yellow (chemical plants, textile and tanning plants)			
	☐ Red (meat packers)			
	☐ Other:			
Turbidity	□ Clear			
,	\square Cloudy (sanitary wastewater, concrete or stone operations, fertilizer facilities, and			
	automotive dealers)			
	Opaque (food processors, lumber mills, metal works, pigment plants)			
Floatable	Floatables of industrial origin may include animal fats, spoiled foods, solvents, sawdust, foams, packing materials, or fuel. Floatables in sanitary wastewater include fecal matter,			
Matter (Does	toilet paper, sanitary napkins, and condoms.			
not include	□ None			
litter)	☐ Sewage (toilet paper, etc.)			
	□ Suds			
	☐ Petroleum (oil sheen)			
	□ Other:			

Deposits and		residues or fragments of material may be indicators of a potential intermittent				
Stains within	non-stormwater discharge					
outfall	□ None					
	☐ Grayish-Black (leather tanneries)					
	☐ White crystalline powder (Nitrogenous fertilizers)					
		ve sediments (construction sites)				
	☐ Oily residues (petroleum refineries, storage facilities, vehicle service areas)					
Vegetation	-	Other:				
Vegetation	As compared to surrounding Riparian bank and/or stream vegetation ☐ Normal					
		ve growth and/or algal presence (Food processing plants)				
		ed Growth (Industrial operation effluent, CAFOs)				
of the water o	*If the Physical Observations have been conducted and it was determined there was no odor, no discoloration of the water or no deposits and stains left on the outfall, turbidity was clear, no floatable matter, and the vegetation surrounding outfall appears normal, then the dry weather discharge is likely from a groundwater source, but the "Field Monitoring" section below must still be completed for verification.					
	_	analyses in Sections 5 & 6, the source may be traced back upstream in the storm location by various methods, such as opening manholes, using a camera and/or performing dye tests or smoke tests.*				
SECTION 5: FIEL	D MONITO	RING				
Field c	alibrate ins	truments in accordance with manufacturer's instructions prior to testing.				
_	Estimated Dry Weather Flow Rate The Tier A guidance document recommends taking the estimate flow rate during physical observations. GPM					
Deterge	Detergents Potential discharge types include sewage, washwater, industrial or commercial liqu					
Examples include		waste				
and methylene k	olue active	Measurement: mg/L				
Temperature	e of dry	Temperatures >70°F may indicate cooling water discharges depending on the season				
weather dis	•	Measurement:°F				
*Proceed to Section 6 in accordance with the Guidance Document recommendations. *						
SECTION 6: DRY	WEATHER	FLOW ANALYSIS - WATER QUALITY				
* Based on the potential discharge types determined in the 'Physical Observation' and 'Field Monitoring' sections, <u>further testing must be conducted</u> using the appropriate subset of parameters below. The following parameters are recommended by the EPA for specific types of discharges as noted in the table below. For more information, refer to Chapter 12 of the EPA's Illicit Discharge Detection and Elimination guidance document (https://www3.epa.gov/npdes/pubs/idde manualwithappendices.pdf). Indicate the location of your measurements (e.g. outfall, manhole number, etc.):						

Parameter	Potential Discharge Type (EPA Guidance)	Discharge Measurement
Ammonia	Sewage, washwater	mg/L
Potassium	Sewage, industrial or commercial liquid waste	mg/L
Boron	>0.35 mg/L likely indicates sewage or washwater	mg/L
Chlorine	Industrial or commercial liquid waste	mg/L
Conductivity	Sewage, washwater, and industrial or commercial liquid waste	S/m
E. coli (FW & PL waters)**	>12,000 Count/100 mL is likely Sanitary Wastewater	Count/100 mL
Enterococci (SC & SE1 waters)**	>5,000 Count/100 mL is likely Sanitary Wastewater	Count/100 mL
Fecal Coliform (SE2 & SE3 waters)**	Sewage	Count/100 mL
Fluoride	Distinguishes potable water from natural or irrigation water	mg/L
pH of Dry Weather Discharge	Washwater	SU

^{**}The abbreviations FW, PL, SC, SE 1, SE2, and SE3 refer to the surface water quality classification of the receiving surface waterbody where the outfall discharges, as defined in N.J.A.C. 7:9B. FW=Freshwater, PL=Pinelands, SC=Saline Coastal, SE=Saline Estuary. Map coverage of these classifications is available on NJ-GeoWeb (https://njdep.maps.arcgis.com/apps/webappviewer/index.html?id=02251e521d97454aabadfd8cf168e44d) using the layer under 'Water' of 'Surface Water Quality Classification.'

SECTION 7: ILLICIT DISCHARGE INVESTIGATION

*The investigation is not complete until the source of the dr	•	r flow is	found, and an	y illicit discharg	e is
Based on the latest results from the investigation, including	the resul	ts in Sec	ctions 4, 5 and	6, is/was this d	ry
weather flow from an illicit connection?	☐ YES	□ NO	☐ INVESTIGA	TION IS ONGOI	NG
If the investigation has been completed, what was the sour	ce of the	dry wea	ther flow or illi	cit connection?)

_	ods that were/will be used to identify the suspected source of	
the illegal discharge, or conclude there was no	illicit discharge, along with the timeline of the steps of the	
investigation. Attach additional pages if neces	ssary.	
		_
		_
		_
		_
		_
		_
		_
		_
		_
		_
		_
SECTION 8: ILLICIT DISCHARGE ELIMINATION		
If it was an illicit discharge, has the source bee	en eliminated?	0
detail who is/was responsible for the discharg	llowed to eliminate the illicit connection. This plan should e, what methods were/will be used to fix it, how long it onfirmed and rechecked:	=
		_
		_
		_
		_
		_
		_
SECTION 9: INSPECTOR INFORMATION		
Inspector's Name:		_
Title:	Affiliation:	_
Signature:	Date:	_

Attachment D – Major Development Stormwater Summary

Ger	neral Informat	ion		
1. Project Name:			Lot & E	Block Info:
2. Municipality:	County:			
3. Site Location (State Plane Coordinates – NAD83)	E:	N:		
4. Date of Final Approval for Construction by Municipa	ality (MM/DD/Y	YYY):		
Date of Certificate of Occupancy (MM/DD/YYYY): _				
5. Project Type (place an "x" after all that apply) Residential Commercial Industrial	Other	(please specify)		
6. Soil Conservation District Project #:				
7. Did the project require a NJDEP Land Use Permit?	Yes No	Land Use Per	mit #:	
8. Did the project require any mitigation measures? If yes, which standard was mitigated?	Yes No			
Site D	esign Specifica	ations		
1. Site Area (acres): Area of Disturbance	(acres):	Area of Proposed	Impervious (a	acres):
2. List all Hydrologic Soil Groups:		<u> </u>		
3. Identify the Quantities of Each Type of Best Manage	ement Practices	(BMPs) Incorporated i	nto the Site D	esign:
Bioretention Systems Constructed Wetlar Infiltration Basins Combination Infiltration/ Pervious Paving Systems Sand Filters Grass Swales Subsurface Gravel Wetlands	Detention Basir Vegetative	ns Manufactu	red Treatmer Wet Ponds	nt Devices
1. Storm Event – Rainfall (inches) / Duration (hours)	n Event Inform		ity Design Sto	rm:
2 year:	10 year:	water quan	100 ye	
2. Runoff Computation Method (mark one):	<u> </u>			
NRCS Dimensionless Unit Hydrograph	NRCS Delmarva	a Unit Hydrograph	Ratio	nal Method
Modified Rational Method		Other (describe		
BMP Specifications (answer all tha	t apply) - If mo	ore than one BMP. se	ee reverse si	de
1. BMP Name:		Type of BMP:		
Location (mark one): Surface Subsurface		Is forebay part of	the design?	Yes No
2. Owner (mark one): Public Private				
If private, Owner's Name:		Owner's Telephone N	o.:	
3. BMP Completion Date (MM/DD/YYYY):				
4. Does the BMP have an underdrain? Yes No	0			
What is the Water Quality Design Storm Drain Dow What is the Design Soil Permeability (inches/hour):	• •			
6. What is the Seasonal High Water Table Depth from	the BMP botto	n (feet)?	Month Obtair	ned:
7. Groundwater Recharge Methodology (mark one):	2-Year Differen	ce NJGRS	Other	N/A
8. Was Groundwater Mounding analyzed? Yes	No If yes	, Methodology:		
9. Was a Maintenance Plan submitted? Yes N	lo	Is the BMP deed re	estricted?	Yes No
Name of Person Completing This Form:		Signature:		
Title:		Date:		

Comments:	
BMP Specifications (answer all that ap	nly) - Attach more pages if pecessary
1. BMP Name:	Type of BMP:
Location (mark one): Surface Subsurface	Is forebay part of the design? Yes No
2. Owner (mark one): Public Private	, , ,
If private, Owner's Name:	Owner's Telephone No.:
3. BMP Completion Date (MM/DD/YYYY):	
4. Does the BMP have an underdrain? Yes No	
5. What is the Water Quality Design Storm Drain Down Time (h	ours)?
What is the Design Soil Permeability (inches/hour):	_
6. What is the Seasonal High Water Table Depth from the BMP	bottom (feet)? Month Obtained:
7. Groundwater Recharge Methodology (mark one): 2-Year Di	fference NJGRS Other N/A
8. Was Groundwater Mounding analyzed? Yes No I	f yes, Methodology:
9. Was a Maintenance Plan submitted? Yes No	Is the BMP deed restricted? Yes No
BMP Specifications (answer all that ap	nly) - Attach more pages if necessary
1. BMP Name:	Type of BMP:
Location (mark one): Surface Subsurface	Is forebay part of the design? Yes No
2. Owner (mark one): Public Private	
If private, Owner's Name:	Owner's Telephone No.:
3. BMP Completion Date (MM/DD/YYYY):	
4. Does the BMP have an underdrain? Yes No	
5. What is the Water Quality Design Storm Drain Down Time (h	ours)?
What is the Design Soil Permeability (inches/hour):	
What is the Seasonal High Water Table Depth from the BMP	· · · —————
7. Groundwater Recharge Methodology (mark one): 2-Year Di	fference NJGRS Other N/A
8. Was Groundwater Mounding analyzed? Yes No	If yes, Methodology:
9. Was a Maintenance Plan submitted? Yes No	Is the BMP deed restricted? Yes No
BMP Specifications (answer all that ap	ply) - Attach more pages if necessary
1. BMP Name:	Type of BMP:
Location (mark one): Surface Subsurface	Is forebay part of the design? Yes No
2. Owner (mark one): Public Private	
If private, Owner's Name:	Owner's Telephone No.:
3. BMP Completion Date (MM/DD/YYYY):	
4. Does the BMP have an underdrain? Yes No	
5. What is the Water Quality Design Storm Drain Down Time (h	ours)?
What is the Design Soil Permeability (inches/hour):	
What is the Seasonal High Water Table Depth from the BMP	
7. Groundwater Recharge Methodology (mark one): 2-Year D	ifference NJGRS Other N/A
8. Was Groundwater Mounding analyzed? Yes No	If yes, Methodology:
9. Was a Maintenance Plan submitted? Yes No	Is the BMP deed restricted? Yes No
Name of Person Completing This Form:	Signature:
Title:	Date:

Outfall Inspection Form

This form is provided to assist MS4 permittees with appropriate recordkeeping for their routine outfall inspections as required by the current MS4 NJPDES permit. Initial illicit connection inspections must be performed during dry weather, which is at least 72 hours after the previous precipitation or snowmelt event.

It is recommended to attach photo(s) of the inspection of the outfall to this form.

Upon discovery of stream scouring, you may use "Stream Scouring Investigation Record Keeping Form" for required documentation.

Upon discovery of any possible illicit connections, you MUST use "Illicit Connection Inspection Report Form."

SECTION 1: PERMITTEE INFORMATION MS4 Powerittees:
MS4 Permittee:NJPDES #: NJG0
SECTION 2: OUTFALL SUMMARY INFORMATION
If this outfall is newly identified, be sure to add it to your electronic outfall pipe map.
Outfall ID: Outfall Location Description:
Municipality:County:
Receiving Waterbody:
Describe the type of conveyance(s) that delivers the stormwater to the receiving waterbody (concrete or corrugated pipe, concrete channel, etc.):
If the ultimate discharge into the receiving water is from an enclosed pipe , is any part of the end of the pipe fully or partially submerged? \[\begin{align*} \text{NEVER} \Bigcircle SOMETIMES* \Bigcircle ALWAYS* \\ *If 'Sometimes' or 'Always,' describe submerged conditions and condition at time of inspection:
If the ultimate discharge into the receiving water is not from an enclosed pipe , what is the approximate distance between the end of the last enclosed stormwater conveyance pipe to the receiving waterbody (ft): Do any other NJPDES permittees discharge through this MS4 outfall?
If 'YES', please contact your MS4 Case Manager.
SECTION 3: INSPECTION CONDITIONS
Date of current inspection:/ Date of previous inspection://
Latest precipitation/snowmelt event:/ Amount of Precipitation (in.):

Outfall condition: PROPER CONDITION NEEDS MAINTENANCE NEEDS REPAIR If applicable, describe the type of maintenance or repair needed:
Bank Stability around outfall: GOOD FAIR NEEDS STABILIZATION If applicable, describe problem and the work needed to stabilize the outfall:
Is there a dry weather flow present at the outfall or other evidence that a previous illicit discharge may have occurred? (If the outfall is partially or fully submerged, dry weather flow observations must be made at the next upstream point (e.g. manhole) above the influence of the receiving surface waterbody.)
☐ PRESENT ☐ EVIDENCE ☐ NEITHER If applicable: Manhole ID: Approximate distance upstream from outfall (ft.):
If a dry weather flow is present at the outfall or there is other evidence that a previous illicit discharge may have occurred, the permittee must document the illicit discharge investigation on the "Illicit Connection Inspection Report Form" at the link above.
SECTION 4: STREAM SCOURING
Is stream scouring present? $\ \square$ YES* $\ \square$ NO *If 'YES', describe the scouring, including where the scouring is occurring relative to the outfall:
If you answered 'YES,' you must document sources of stormwater that contribute to the outfall. The Department has created the "Stream Scouring Investigation Record Keeping Form" for your use at the link above.
SECTION 5: INSPECTOR INFORMATION
Inspector's Name:
Title: Affiliation:
Signature: Date:

Stream Scouring Investigation Recordkeeping Form

This form is provided to assist MS4 permittees with appropriate recordkeeping throughout the investigation process of outfall stream scouring. This form is to be kept with the permittee's SPPP, as per the recordkeeping requirements of the MS4 NJPDES permit. It is recommended to attach photo(s) of the outfall and scouring to this form.

SECTION 1: PERMITTEE INFORMATION	
MS4 Permittee:	NJPDES #: NJG0
SECTION 2: OUTFALL SUMMARY INFORM	MATION
If this outfall is newly identifi	ed, be sure to add it to your electronic outfall pipe map.
Outfall ID:	Outfall Location Description:
Municipality:	County:
Receiving Waterbody:	
	delivers the stormwater to the receiving waterbody (concrete or
If the ultimate discharge into the receivir partially submerged?	ng water is from an enclosed pipe , is the end of the pipe fully or □ NEVER □ SOMETIMES* □ ALWAYS*
*If 'Sometimes' or 'Always,' describe sub	merged conditions and condition at time of inspection:
	ng water is not from an enclosed pipe , what is the approximate losed stormwater conveyance pipe to the receiving waterbody
Do any other NJPDES permittees discharg	ge through this MS4 outfall? ☐ YES* ☐ NO ☐ UNKNOWN
*If 'YES', list Permittee Name(s) or NJPDE	ES #(s):
If 'VFS' nle	ease contact your MS4 Case Manager.
SECTION 3: INSPECTION CONDITIONS	ase contact your wist case manager.
When was the stream scouring first ident	tified?/
Date of current inspection:/	/ Date of previous inspection:/
Latest precipitation/snowmelt event:	/ / Amount of Precipitation (in.):

Provide a description of the stream scouring and outfall condition:		
Describe investigation and findings, including suspected sources and action(s) being taken t volume or rate of flow from the sources contributing stormwater to the outfall, including dataken:		
Was stream scouring identified during the previous inspection? *If 'YES', describe previous actions taken:	□ YES*	□ NO
Since the date of last inspection, has the stream scouring worsened? *If 'YES', describe any potential causes, including new source(s) contributing stormwater to discharging at this outfall since previous inspection (e.g. new housing developments, commetc.):		
SECTION 4: SCHEDULING OF STREAM REMEDIATION		
Description of the remediation project:		
List milestones and dates of remediation (i.e. applied for permit, advertised for bid, awarde completed project, etc.):	d bid for p	oroject,

SECTION 5: PERMITS OBTAINED (Flood Hazard, Freshwater Wetlands, Soil Conservation District, etc.)				
<u>Permit Type</u>	Permit Authorization #	Application date	Authorization date	
SECTION 6: INSPECTOR INFORMATION				
Inspector's Name:				
Title:	Affiliation:			
Signature:		Date:		

APPENDIX B

OUTFALL LOCATION MAP (m3.mappler.net/harmonytwp)

APPENDIX C

STREET SWEEPING MAP (RESERED)