



Madison County Stormwater Management Plan

NYR20A281

For coverage under the
New York State Pollutant Discharge Elimination System (SPEDES)
From Municipal Separate Storm Sewers (MS4s)
General Permit No. GP-0-24-001

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Program Coordinator. Contact information for the Stormwater Program Coordinator will be available on the Madison County Website.

Please Note: This is not an emergency contact and is not continuously monitored. If you have an emergency, please contact Emergency Services (e.g. police, EMS, fire).

SWMP – Mapping

Madison County Highway Department maintains a comprehensive map of its storm sewer systems that include:

- Outfall pipe locations
- Location of conveyance system (i.e., pipes, catch basins, manholes)
- Receiving water body name(s)
- Roads

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Minimum Control Measures (Non-traditional)

The Public Education and Outreach minimum control measure (MCM) consists of an education and outreach program to increase public awareness of pollutant generating activities and behaviors. The MCM is designed to inform the public about the impacts of stormwater on water quality, the general sources of stormwater pollutants, and steps that the general public can take to reduce pollutants in stormwater runoff.

General Permit Requirements

Minimum Control Measure 1 Public Education and Outreach

1.A. Focus Areas.

Prior to January 2, 2027, identify focus areas of concern as follows:

- i. Areas discharging to waters with Class AA-S, A-S, AA, A, B, SA, or SB (mapped in accordance with Part IV.D.1.e.ii.a of the General MS4 Permit));
- ii. Sewersheds for impaired waters listed in Appendix C of the General MS4 Permit (Subject to Part VIII. requirements; mapped in accordance with Part IV.D.1.c. for MS4 Operators continuing coverage and Part IV.D.2.a. ii. for newly designated MS4 Operators);
- iii. TMDL watersheds (subject to Part IX. Requirements of the General MS4 Permit; mapped in accordance with Part IV.D.1.e.ii.c));
- iv. Areas with construction activities;
- v. Areas with on-site wastewater systems (subject to Part VIII. or Part IX. Requirements of the General MS4 Permit);
- vi. Residential, commercial, and industrial areas (mapped in accordance with Part IV.D.1.e.iii. of the General MS4 Permit);
- vii. Stormwater hotspots; and
- viii. Areas with illicit discharges

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v. How to report illicit discharges they may observe.

1.E. Distribution Method of Educational Materials

Once every five (5) years, the MS4 Operator must identify and document in the SWMP Plan the methods used for distribution of educational materials.

1.F. Frequency of Delivery of Educational Messages

Once every five (5) years and once every five (5) years thereafter, the MS4 Operator must deliver an educational message to each target audience for each focus area based on the education and outreach topics.

1.G. Updates to the Public Education and Outreach Program

Annually, the identified focus areas, target audiences, and education topics will be reviewed for any changes and documented in the SWMP Plan.

Identify Focus Areas 1.A – 1.G

To comply with permit requirement MCM 1., Madison County identified the following focus areas:

1.A

1.B - The target audiences for public education and outreach include businesses, public employees, and the general public.

1.C / 1.D – Madison County identified the following education and outreach topics to reduce the potential for pollutants to be generated by the target audience for the focus areas and for illicit discharge education. These topics are:

- General Stormwater Management Information
- Household Hazardous Waste Disposal
- Recycling
- Trash Management

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v. Reporting concerns about activities or behaviors observed; or vi. Stewardship activities.

2.B. Additionally, and on an annual basis, the MS4 Operator must inform the public of the opportunity for their involvement / participation in the development and implementation of the SWMP and how they can become involved. The MS4 Operator must document the method for distribution of this information in the SWMP Plan. The methods for distribution of this information are as follows:

i. Public notice;

ii. Printed materials (e.g., mail inserts, brochures, and newsletters);

iii. Electronic materials (e.g., websites, email listservs);

iv. Mass media (e.g., newspapers, public service announcements on radio or cable);

v. Workshops or focus groups;

vi. Displays in public areas (e.g., town halls, library, parks); or,

vii. Social media (e.g., Facebook).

2.C. Local Stormwater Public Contact.

Prior to July 2, 2024, the MS4 Operator must identify a local point of contact to receive and respond to public concerns regarding stormwater management and compliance with permit requirements. The name or title of this individual, with contact information, must be published on public outreach and public participation materials and documented in the SWMP Plan. Branden Burns is the Stormwater Management Coordinator for Madison County. Office Number 315-366-2221.

2.D. Public Notice and Input Requirements for SWMP Plan.

Annually, the MS4 Operator must provide an opportunity for the public to review and comment on the publicly available SWMP Plan. The public must have the ability to ask questions and submit comments on the SWMP Plan. The completion of this permit requirement must be documented in the SWMP Plan and may be satisfied by 2.A. or 2.B.

2.E. Public Notice and Input Requirement for Draft Annual Report.

Annually, the MS4 Operator must provide an opportunity for the public to review and comment on the draft Annual Report. The completion of this requirement must be documented in the SWMP Plan. This requirement may be satisfied by either:

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2.C. – The public can find the contact information of the Stormwater Management Coordinator on the Madison County website.

<http://www.madisoncounty.ny.gov/highway/stormwater-management>

Please Note: This is not an emergency contact and is not continuously monitored. If you have an emergency, please contact Emergency Services (i.e. police, EMS, fire).

2.E/2.F. – The County posts a public notice on the County’s home page under the meetings tab stating that the draft annual report will be made available to the public for their review and comment.

<http://www.madisoncounty.ny.gov>

Minimum Control Measure 3 Illicit Discharge Detection and Elimination

Public Reporting of Illicit Discharges.

Prior to July 2, 2024, the MS4 Operator must establish and document in the SWMP Plan an email or phone number (with message recording capability) for the public to report illicit discharges. Within thirty (30) days of an illicit discharge, the MS4 Operator must document each report of an illicit discharge in the SWMP Plan with the following information:

- a. Date of the report;
- b. Location of the illicit discharge;
- c. Nature of the illicit discharge;
- d. Follow-up actions taken or needed (including response times); and,
- e. Inspection outcomes and any enforcement taken.

3.B. Monitoring Locations.

The monitoring locations used to detect illicit discharges are identified as follows:

- i. MS4 outfalls;
- ii. Interconnections; and,
- iii. Municipal facility intra-connections.

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- v. Name of MS4 Operator's municipal facility, if located at a municipal facility; and
- vi. Receiving waterbody name and class (mapped in accordance with Part IV.D.1.e.ii.a)).

3.D. Monitoring Locations Prioritization.

Prior to January 2, 2027, the MS4 Operator must
prioritize monitoring locations which are included in the monitoring locations inventory as follows:

- a. High priority monitoring locations include the following:
 - i. At a high priority municipal facility as defined by Part VI.F.2.c in the MS4 General Permit;
 - ii. Discharging to impaired waters;
 - iii. Discharging within a TMDL watershed;
 - iv. Discharging to waters with Class AA-S, A-S, AA, A, B, SA, or SB;
 - v. Confirmed citizen complaints on three or more separate occasions in the last twelve (12) months.
- b. All other monitoring locations are considered low priority.

Within thirty (30) days or when a monitoring location is constructed or the MS4 Operator discovers it, the MS4 Operator must prioritize those monitoring locations.

Annually, after the initial prioritization, the MS4 Operator must update the monitoring location prioritization of the inventory based on information gathered as part of the monitoring location inspection and sampling program. The completion of this permit requirement must be documented in the SWMP Plan.

3.E. Monitoring Locations Inspection and Sampling Program.

Prior to January 2, 2026, the MS4 Operator must develop and implement a monitoring locations inspection and sampling program. The monitoring locations inspection and sampling program must document the following:

The monitoring locations inspection and sampling procedures including:

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Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assistance, October 2004 (CWP 2004) or equivalent.

- i. If those same physical indicators persist, the MS4 Operator must initiate illicit discharge track down procedures.
- ii. The training provisions for the MS4 Operator's monitoring locations inspection and sampling procedures:
 - o If new staff are added, training on the MS4 Operator's monitoring locations inspection and sampling procedure must be given prior to conducting monitoring locations inspections and sampling procedures;
 - o For existing staff, training on the MS4 Operator's monitoring locations inspection and sampling procedures must be given prior to conducting monitoring locations inspections and sampling and once every five (5) years, thereafter; and, c. If the monitoring locations inspection and sampling procedures are updated, training on the updates must be given to all staff prior to conducting monitoring locations inspections and sampling.
- iii. The names, titles, and contact information for the individuals who have received monitoring locations inspection and sampling procedures training and update annually; and,
- iv. Annually, by April 1, the MS4 Operator must:
 - o Review and update the monitoring location inspection and sampling procedures based on monitoring location inspection results (e.g., trends, patterns, areas with illicit discharges, and common problems): and,
 - o Document the completion of this requirement in the SWMP Plan.

Illicit Discharge Elimination Program. Prior to January 2, 2026, the MS4 Operator must develop and implement an illicit discharge elimination program. The illicit discharge elimination program must be documented in the SWMP Plan specifying:

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iv. Annually, by April 1, the MS4 Operator must:

- Review and update the illicit discharge elimination procedures; and,
- Document the completion of this requirement in the SWMP Plan.

MCM 3 Requirements Implemented or Underway

Public Reporting of Illicit Discharges

On the County's stormwater management webpage, the public are directed to notify the Highway Department of identified illicit discharges.

Please Note: This is not an emergency contact and is not continuously monitored. If you have an emergency, please contact Emergency Services (i.e. police, EMS, fire).

Outfall Mapping and Storm Sewer Map

The County has prepared and maintained a map showing the locations of the storm sewer infrastructure, including outfalls, storm sewer pipes, manholes, catch basins, and drywells.

IDDE Surveys

The County has conducted dry weather outfall inspections on an annual basis.

A dry weather flow survey form is being considered for development for use during the dry weather outfall inspections.

These surveys will be used to prioritize outfalls for both track down and corrective measures.

Minimum Control Measure 4 Construction Site Stormwater Runoff Control

Minimal Control Measure four (4) is not applicable to Madison County Highway Department. The Town of Sullivan maintains legal authority over all construction activity within the MS4 area.

Minimum Control Measure 5 Post-Construction Stormwater Management

Minimal Control Measure five (5) is also not applicable to Madison County Highway Department. The Town of Sullivan maintains legal authority over all construction activity within the MS4 area.

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b. The MS4 Operator must consider:

- Structural and/or non-structural controls found in the NYS E&SC 2016;
- Areas that, due to topography, land disturbance (e.g., construction), or other factors, have potential for significant soil erosion;
- Whether structural, vegetative, and/or stabilization BMPs are needed to limit erosion;
- Whether velocity dissipation devices (or equivalent measures) are needed at discharge locations and along the length of any channel to provide a non-erosive flow velocity from the structure to a water course; and,
- Address erosion or areas with poor vegetative cover, especially if the erosion is within fifty (50) feet of a surface water of the State.

v. Manage Vegetated Areas and Open Space on Municipal Property

a. Maintain vegetated areas on MS4 Operator owned/operated property and right of ways:

- Specify proper use, storage, and disposal of pesticides, herbicides, and fertilizers including minimizing the use of these products and using only in accordance manufacturer's instruction;
- Use lawn maintenance and landscaping practices that are protective of water quality. Protective practices include: reduced mowing frequencies; proper disposal of lawn clippings; and use of alternative landscaping materials (e.g., drought resistant planting);
- Place pet waste disposal containers and signage concerning the proper collection and disposal of pet waste at all parks and open space where pets are permitted; and,
- Address waterfowl congregation areas where needed to reduce waterfowl droppings from entering the MS4.

Waste, Garbage, and Floatable Debris.

a. Keep all dumpster lids closed when not in use. For dumpsters and roll off boxes that do not have lids and could leak, ensure that discharges have a control (e.g., secondary containment, treatment); and,

b. Keep exposed areas free of waste, garbage, and debris or intercept them before they are discharged:

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municipal facility training and update annually; and,

d. Annually, by April 1, the MS4 Operator must:

- i. Review and update the municipal facility procedures; and,
- ii. Document the completion of this requirement in the SWMP Plan

6.C. Municipal Operations & Maintenance

Municipal Operations Program.

Municipal operations are: street and bridge maintenance; winter road maintenance; MS4 maintenance; open space maintenance; solid waste management; new construction and land disturbances; right-of-way maintenance; marine operations; or hydrologic habitat modification. Prior to January 2, 2027, the MS4 Operator must develop and implement a municipal operations program. The municipal operations program must be documented in the SWMP Plan specifying:

a. The municipal operations procedures including:

- i. The BMPs incorporated into the municipal operations program;
- ii. The municipal operations corrective actions requirements;
- iii. Catch basin inspection and maintenance requirements;

iv. Roads, bridges, parking lots, and right of way maintenance requirements; and,

v. All other municipal operations maintenance requirements.

b. The training provisions for the MS4 Operator's municipal operations procedures.

- i. If new staff are added, training on the MS4 Operator's municipal operations procedure must be given prior to conducting municipal operations procedures;
- ii. For existing staff, training on the MS4 Operator's municipal operations procedures must be given prior to conducting municipal operations procedures and once every five (5) years, thereafter; and,
- iii. If the municipal operations procedures are updated, training on the updates must be given to all staff prior to conducting municipal operations procedures.

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- iii. Recurring or history of issues; or
- iv. Confirmed citizen complaints on three or more separate occasions in the last twelve (12) months.
- b. Inventory catch basin inspection information including:
 - i. Date of inspection;
 - ii. Approximate level of trash, sediment, and/or debris captured at time of cleanout (no trash, sediment, and/or debris, <50% of the depth of the sump, >50% of the depth of the sump);
 - iii. Depth of structure;
 - iv. Depth of sump; and,
 - v. Date of clean out, if applicable.
- c. Based on inspection results, clean out catch basins within the following timeframes:
 - i. Within six (6) months after the catch basin inspection, catch basins which had trash, sediment, and/or debris exceeding 50% of the depth of the sump as a result of a catch basin inspection must be cleaned out;
 - ii. Within one (1) year after the catch basin inspection, catch basins which had trash, sediment, and/or debris at less than 50% of the depth of the sump as a result of a catch basin inspection must be cleaned out; and,
 - iii. MS4 Operators are not required to clean out catch basins if the catch basins are operating properly and,
 - There is no trash, sediment, and/or debris in the catch basin; or,
 - The sump depth of the catch basin is less than or equal to two (2) feet. \
 - Properly manage (handling and disposal) materials removed from catch basins during clean out so that:
 - Water removed during the catch basin cleaning process will not reenter the MS4 or surface waters of the State;
- ii. Material removed from catch basins is disposed of in accordance with any applicable environmental laws and regulations; and,

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iv. Contain pollutants associated with bridge maintenance activities (e.g., paint chips, dust, cleaning products, other debris).

c. Winter Road Maintenance. Prior to January 2, 2027, in addition to the BMPs, the MS4 Operator must implement the following provisions:

- i. Routinely calibrate equipment to control salt/sand application rates;
- ii. Ensure that routine snow disposal activities comply with the Division of Water Technical and Operation Guidance Series 5.1.11, Snow Disposal.

MCM 6 Requirements Implemented or Underway

Municipal Best Management Practices Plan

Over the years, Madison County Highway Department has conducted Best Management Practices (BMP) and good housekeeping efforts all across Madison County for all county roads. Madison County Highway department has been implementing these BMPs and good housekeeping efforts to all roads, streets, and highway operations within the MS4 areas.

Catch Basin and Storm Drain Cleaning

The purpose of this BMP is to reduce sediment and suspended solid discharges by routinely cleaning municipal catch basins and stormwater inlet structures. The Highway Department will do this by:

- Identifying areas where catch basins, surface inlets, and/or storm sewer manholes that should be periodically cleaned to reduce discharge of suspended solids, sediment, and other materials
- Focusing on catch basins, surface inlets, and/or storm sewer manholes that accumulate sediment and debris on a frequent basis

Municipal Training Program

The Stormwater Management Program Coordinator provides training on stormwater pollution prevention and good housekeeping to Public Works Department employees on an annual basis.

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National Pollutant Discharge Elimination System (NPDES) – This is the Environmental Protection Agency’s regulatory program to control the discharge of pollutants to waters and waterways of the United States.

Nutrients – The term typically refers to nitrogen and phosphorous or compounds containing free amounts of the two elements. These elements are essential for growth of plant life but can create problems in the form of algal blooms, depletion of dissolved oxygen, and pH changes in streams and other water bodies when higher concentrations are allowed to enter drainage systems and lakes.

Ordinance – A law based on state statutory authority developed and approved by a governmental agency to allow them to regulate the enforcement of criteria contained within the specific law and to invoke sanctions and other enforcement measures to comply with the criteria.

Pathogens – Microbes that cause disease. They include a few types of bacteria, viruses, protozoa, and other organisms. Some pathogens are often found in water, frequently as a result of fecal matter from sewage discharges, leaking septic tanks, and runoff from animal feedlots into bodies of water.

Point Source Pollution – This is pollution coming from a single, definable source, such as a factory.

Runoff – Any drainage that leaves an area as surface flow.

State Pollutant Discharge Elimination System (SPDES) – The State’s regulatory program to control the discharge of pollutants to waters of the United States.

Storm Drain – Any drain which drains directly into the storm sewer system, usually found along roadways or in parking lots.

Storm Sewer – Is an underground pipe system that carries runoff from streets and other surfaces.

Stormwater – Rain or snow melt runoff, and surface runoff from drainage.

Stormwater Management – Any measure associated with the planning, maintenance, and regulation of facilities which collect, store, or convey stormwater.

Stormwater Pollution Prevention Plan (SWPPP) – A plan developed by a facility or entity that thoroughly evaluates potential pollutant sources at a site and selects and implements

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SPDES State Pollutant Discharge and Elimination System

SWM Stormwater Management

SWMP Stormwater Management Program

SWPPP Stormwater Pollution Prevention Plan

TMDL Total Maximum Daily Load