

**New Hampshire Small MS4 General Permit**

**Annual Report**

**RYE, NEW HAMPSHIRE**

**Permit Year 3**

EPA NPDES Permit Number NHR041030

# Certification

## Authorized Representative:

The authorization letter is:

- Attached to this document (document name listed below):

- Publicly available at the website:


[https://www.town.rye.nh.us/sites/g/files/vyhlf3751/f/uploads/designation\\_of\\_authority\\_representative\\_2019.pdf](https://www.town.rye.nh.us/sites/g/files/vyhlf3751/f/uploads/designation_of_authority_representative_2019.pdf)

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

Printed Name

Dennis G. McCarthy

Signature



Date

09/27/21

## Primary MS4 Program Manager Contact Information:

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# Small MS4 Authorization

The following annual report, which serves as a self-assessment, is intended to document the activities undertaken over the reporting period from July 1, 2020, through June 30, 2021 in accordance with the Permit.

The Notice of Intent (NOI) can be found at the following (document name or web address):

<https://www.epa.gov/npdes-permits/regulated-ms4-new-hampshire-communities>

Compliance activities have been identified and described in the Rye Stormwater Management Plan (SWMP) and Illicit Discharge Detection and Elimination Plan (IDDE). Those documents can be found at the following websites and will be referred to throughout this report:

SWMP:

[www.town.rye.nh.us/sites/g/files/vyhif3751/f/uploads/stormwater\\_management\\_program\\_swmp.pdf](http://www.town.rye.nh.us/sites/g/files/vyhif3751/f/uploads/stormwater_management_program_swmp.pdf)

IDDE: [www.town.rye.nh.us/sites/g/files/vyhif3751/f/final\\_idde\\_program\\_2019.pdf](http://www.town.rye.nh.us/sites/g/files/vyhif3751/f/final_idde_program_2019.pdf)

## MCM1 - Public Education and Outreach

### Year 3 Activities

#### BMP: Grass and Fertilizer

**Document Name and/or Web Address:** "Green Grass & Clear Water Brochure":  
[https://www4.des.state.nh.us/nh-ms4/?page\\_id=54](https://www4.des.state.nh.us/nh-ms4/?page_id=54).

**Description:**

Distribution and promotion of flyers produced by UNH Cooperative Extension and NH Sea Grant outlining simple recommendations to keep lawns healthy while reducing water quality impacts - including proper fertilizer techniques and disposal of grass clippings.

**Targeted Audience:**

Residential and/or Business and Institutions

**Measurable Goal(s):**

Lawn care enthusiast residents understand the potential water quality impacts from fertilizer and improper disposal of grass clippings and are aware of the proper lawn care management techniques for reducing those impacts. Measurement includes quantity of materials distributed.

In year three approximately 25 bi-fold information brochures were picked up by residents and businesses at the Transfer Station or Public Works Office.

In addition, articles were published in the Town's Newsletter which is mailed out to every town resident, homeowner and business in March, June, September, and December each year. Articles relative to Yard Waste, Fertilizer BMP's and Lawn Care are published each year.

**Goal was achieved.**

**Message Date:**

Articles were published in June of 2019, March & September of 2020, and September of 2021.

Flyers continue to be available at the Public Works Office and Transfer Station.

#### BMP: Pet Waste Disposal

**Document Name and/or Web Address:** "Citizen Guide to Responsible Dog Ownership" & "Scoop the Poop": [www.town.rye.nh.us/sites/g/files/vyhlif3751/f/uploads/scoop\\_the\\_poop.pdf](http://www.town.rye.nh.us/sites/g/files/vyhlif3751/f/uploads/scoop_the_poop.pdf)

**Description:**

Distribution and promotion of "Citizen Guide" flyers with proper pet waste management, impacts of improper management, pet waste ordinance, and disposal requirements messaging.

**Targeted Audience:**

Residents - Pet Owners

**Measurable Goal(s):**

Dog owners and/or dog walkers are aware of the potential water quality impacts from pet waste, local pet waste ordinances, and how to dispose of pet waste properly. If pledges are signed, there will be an increase of dog owners committed to picking up pet waste.

Every dog owner received a copy of the flyer at time of dog license renewal.

In addition, articles were published in the Town's Newsletter which is mailed out to every town resident, homeowner and business in March, June, September, and December each year. An article relative to Dog Waste is published each year.

**Goal was achieved.**

**Message Date:** At time of license renewal and articles were published in December of 2019, and September of 2021.

"Scoop the Poop" flyers continue to be available at the Public Works Office and Transfer Station.

**BMP: Disposal of Leaf and Grass Clippings**

**Document Name and/or Web Address:** "Rake It or Leave It"

[www.town.rye.nh.us/sites/g/files/vyhli3751/f/uploads/rake\\_it\\_or\\_leave\\_it\\_flyer.pdf.pdf](http://www.town.rye.nh.us/sites/g/files/vyhli3751/f/uploads/rake_it_or_leave_it_flyer.pdf.pdf)

**Description:**

Distribute and promote informational flyers, pledge cards, and/or door hangers, with messaging about impacts from yard waste to waterbodies, alternatives to dumping yard waste and laws against dumping yard waste near or in waterbodies.

**Targeted Audience:**

Residential &/or Business and Institutions

**Measurable Goal(s):**

Residents are aware of the water quality impacts of yard waste dumping near or in water bodies and safe alternatives for yard waste disposal.

In year three approximately 25 bi-fold information brochures were picked up by residents and businesses at the Transfer Station or Public Works Office.

In addition, articles were published in the Town's Newsletter which is mailed out to every town resident, homeowner and business in March, June, September, and December each year. Articles relative to Yard Waste, Fertilizer BMP's and Lawn Care are published each year.

**Goal was achieved.**

**Message Date:** Articles were published in June of 2019, March & September of 2020, and September of 2021.

“Scoop the Poop” flyers continue to be available at the Public Works Office and Transfer Station.

### **BMP: Septic System Maintenance**

**Document Name and/or Web Address:** “Get Pumped – New Hampshire”

[www.town.rye.nh.us/sites/g/files/vyhlf3751/f/uploads/get\\_pumped\\_brouchure\\_o.pdf](http://www.town.rye.nh.us/sites/g/files/vyhlf3751/f/uploads/get_pumped_brouchure_o.pdf)

**Description:**

Distributed and promoted brochure or door hangers, directing to website to educate New Hampshire homeowners with septic systems on how to identify, locate and maintain those systems. Get Pumped NH is a collaborated effort between the New Hampshire Association of Septage Haulers (NHASH) and the New Hampshire Department of Environmental Services (NHDES).

**Targeted Audience:**

Septic System Owners

**Measurable Goal(s):**

Residents are aware of water quality impacts from septic systems, the importance of maintaining septic systems and how to maintain them.

In year three approximately 25 bi-fold information brochures were picked up by residents and businesses at the Transfer Station, Building Inspector or Public Works Office.

In addition, articles were published in the Town’s Newsletter which is mailed out to every town resident, homeowner and business in March, June, September, and December each year. An article relative to proper care and maintenance.

**Goal was achieved.**

**Message Date:** Article was published in September of 2019.

“Septic Smart”, “Get Pumped New Hampshire” and “What’s Flushable” flyers continue to be available at the Public Works Office and Transfer Station.

### **BMP: Industrial Outreach**

**Description:** The town of Rye has no industrial facilities located within its MS4 or municipal boundaries.

**Targeted Audience:** Industrial Facilities

**Measurable Goal(s):** Not Applicable

**Goal was achieved.**

**Message Date:** Not Applicable

## **MCM2 - Public Participation**

### **BMP: Public Participation in Stormwater Management Program Development**

**Description:** The Stormwater Management Program was publicly reviewed at the Town of Rye – Select Board Meeting, held June 14, 2021, at 6:30 pm at the Rye Junior High School Cafeteria.

Documents and records relating to the permit are retained and available for 5 years to the public at the Rye Town Hall, Rye Public Works Department, and the Town of Rye Official Website.

**Measurable Goal(s):**

Input was received and records are maintained. **Goal was achieved.**

## **MCM3 – Illicit Discharge Detection and Elimination**

### **BMP: IDDE Legal Authority**

The municipality has established legal authority as outlined in the IDDE plan.

### **BMP: Sanitary Sewer Overflow (SSO) Inventory**

The Town of Rye, NH has developed the SSO inventory in accordance with permit conditions and in accordance with the applicable regulations and/or municipality's NPDES discharge permit.

Number of SSO's identified Year 3: **None (0)**

Number of SSO's removed Year 3: **None (0)**

### **BMP: Map of Storm Sewer System**

The map of storm sewer system and associated outfalls is still in progress and is constantly being updated as additional data is uncovered.

**BMP: IDDE Program (Screenings of Outfalls/Interconnections, Catchment Investigations, and IDDE Progress)**

All outfalls and interconnections (excluding problem and excluded outfalls) were inspected and screened. Outfall catchments and interconnections priority ranking were updated based on the information collected during the dry weather inspections. A written IDDE plan has been developed and updated, and written catchment investigation procedures are included.

Outfall identification, characterization and prioritization information has been updated and included in the IDDE plan based on dry weather sampling

The following tasks have been completed in accordance with the permit.

Number of dry weather outfall investigations/screenings: **Thirty-Two (32)**

Number of dry weather samples taken: **Six (6)**

**IDDES sampling results and investigation data is included in submission.**

Number of wet weather outfall inspections/sampling events: **None (0)**

Number of wet weather samples taken: **None (0)**

Number of catchment investigations: **None (0)**

Number of illicit discharges: **None (0)**

Number of illicit discharges removed: **None (0)**

Estimated gallons of flow removed: **None (0)** gallons

**BMP: Employee Training**

The Town of Rye held an IDDE training session for public works staff on April 1, 2021. The training offered was the Pioneer Valley Planning Commissions IDDE MS4 Compliance Workshops, Modules 1, 2 & 3. Five staff members satisfactorily completed the training.

In addition, as a routine, IDDE materials and training, including information on how to identify illicit discharges and SSOs are made available to applicable employees in accordance with IDDE plan. Training logs are included in Appendix F of the IDDE report.

## **MCM4 – Construction Site Stormwater Runoff Control**

A written site inspection and enforcement program for erosion and sediment control measures was created and is included in our SWMP.

The following tasks are in progress in accordance with the permit.

Number of site plan reviews completed: **four (4)**

Number of inspections: Twenty (20)

Number of enforcement actions: **None (0)**

## **MCM5 – Post Construction Stormwater Management in New Development and Redevelopment**

### **BMP: Post-Construction Ordinance (due in year 3)**

A Post-Construction Ordinance, consistent with the permit requirements, has been adopted.

### **BMP: As-built Drawings**

A program to address post-construction stormwater runoff from all new development and redevelopment projects has been developed and implemented and includes projects that disturb a minimum of one acre, or less than one acre if part of a larger common plan. Procedures for new development and re-development have been prepared and adopted and are included as part of the Stormwater and Land Development Management Regulations. Submission requirements for stormwater management reports and plans are included in local regulations and can be found at: Town of Rye Official Website. The purpose of stormwater and land development management standards is to provide reasonable guidance for the regulation of stormwater runoff, during planning, design, construction, and post-construction phases; to protect local natural resources from degradation and prevent adverse impacts to adjacent and downstream land, property, facilities, and infrastructure. These standards regulate discharges from stormwater and runoff from land development projects and other construction activities to control and minimize increases in stormwater runoff rates and volumes, soil erosion, stream channel erosion, and nonpoint source pollution associated with stormwater runoff. The stormwater management standards apply to any development or redevelopment projects which are subject to Site Plan Review or Subdivision approval that disturb more than 20,000 square feet or disturb more than 10,000 square feet within 100 feet of a surface water body. These standards apply to disturbances of less than the limits above if that disturbance is part of a large common plan for development that would disturb 20,000 square feet or more. The applicant shall submit as-built drawings of the constructed stormwater management system to the Code Enforcement Department following construction. As-built drawings are required to be submitted at completion of the project.

### **BMP: Long-term Operation and Maintenance Procedures**

The Town of Rye, NH currently does not follow long-term development performance practices.

However, as part of the effort to standardize the long-term O&M and inspection submission requirements across all New Hampshire MS4 communities, as well as standardize any non-compliance actions taken by the municipality, the Seacoast Stormwater Coalition is in the process of working with a selected engineering group (VHB) to develop standardized resources, guidance and an inspection template that towns and municipalities can use to better promote, track and enforce the implementation of best management practices for privately-owned parking areas and drainage infrastructure. These are anticipated to be finalized in the fall of 2021 and will be adopted by the Town of Rye, NH.

### **BMP: Street Design and Parking Lot Guidance Report (due in year 4)**

Deliverables will progress in accordance with the permit and is scheduled for year 4.

### **BMP: Green Infrastructure Report (due in year 4)**

Deliverables will progress in accordance with the permit and is scheduled for year 4.

### **BMP: List of Municipal Retrofit Opportunities (due in year 4)**

Deliverables will progress in accordance with the permit and is scheduled for year 4.

## **MCM6 – Good Housekeeping and Pollution Prevention for Permittee Owned Operations**

### **BMP: Catch Basin Cleaning Program**

A schedule for catch basin cleaning has been established with the goal of ensuring that a catch basin should not be more than 50% full. Catch basin cleanings were properly stored and disposed of so that they did not discharge to receiving waters. This is detailed in the SWMP.

The following tasks are in progress in accordance with the permit.

Number of catch basins within MS4 regulated area: **Approximately eight hundred (+/- 800)**

Number catch basins inspected in accordance with the SWMP: **Two Hundred Twenty-Seven (227)**

Number of catch basins cleaned: **Two Hundred Twenty-Seven (227)**

Total volume or mass of material removed: **Fifteen cubic yards (15c.y.)**

### **BMP: Street Sweeping Program**

A street sweeping program has been established such that all streets with curbing and/or catch basins and permittee-owned parking lots are swept in accordance with permit conditions. Street sweepings were properly stored and disposed so that they did not discharge to receiving waters.

The following tasks are in progress in accordance with the permit.

Number of (lane) miles swept: **Ninety (90)**

Volume or mass of swept material: **Ten cubic yards (10 c.y.)**

### **BMP: Winter Road Maintenance Program**

A winter road maintenance program has been established with a goal of reducing salt usage. Salt reduction strategies have been implemented as outlined in our SWMP. All road salt storage piles are enclosed/covered to prevent runoff into storm drains and water bodies.

The Town of Rye, NH has not adopted a Salt Reduction Plan in accordance with Appendix H that has been implemented in the MS4 regulated area and/or community wide. This failure is due to the impact which Covid had upon the Town of Rye's administrative work force.

The Town's 2021 election, which is normally held in March, and allows budget expenditures by April, was not held until July of this year. As such, town approval was not in hand until August for many budget expenditures.

With said budgetary approval in hand the Town has now contracted with the engineering firm of Wright-Pierce Engineering to prepare a Salt Reduction Plan in accordance with Appendix H of the 2017 NH Small MS4 General Permit.

### **BMP: Permittee Owned Facilities Inventory**

All permittee owned facilities, including inventory, are included in our SWMP. There were no changes to report during Year 3.

### **BMP: O&M Programs and Procedures For Permittee-Owned Properties**

O&M programs for all permittee owned facilities have been completed and are included in our SWMP. All maintenance procedures have been implemented for permittee owned facilities in accordance with O&M programs.

### **BMP: Permittee Owned Treatment Structures**

The Town of Rye, NH has inspected all permittee owned treatment structures (excluding catch basins)

### **BMP: SWPPP (due year 3)**

A SWPPP was implemented for the town's highway garage, transfer station, salt shed, public works yard, and other waste handling facilities where pollutants are exposed to stormwater; all of which are located at the same location at 309 Grove Road and have no stormwater discharge structures.

Inspections are completed, corrective actions taken, and employees regularly trained as outlined in the SWPP. The SWPP and associated documentation is located on the Town of Rye's official web site.

Number of site inspections for facilities that require a SWPP completed: **One (1)**

Number of corrective actions identified: **Zero (0)**

Number of corrective actions taken: **Zero (0)**

### **BMP: Stormwater Treatment Structures Inspection and Maintenance Procedures**

The Town of Rye, NH continues to collect information with a goal of inventorying and formally inspecting all municipally owned BMPs. Maintenance is carried out in accordance with the procedures outlined in the SWMP. Any BMPs that are safety or flooding hazards are dealt with as needed.

## **TMDL's and Water Quality Limited Waters**

### **Bacteria/Pathogens**

Outfalls to these receiving waters have been ranked as high priority for the IDDE implementation in the initial outfall ranking and enhanced BMP's have been implemented in accordance with the SWMP.

### **Phosphorus**

Outfalls to these receiving waters have been ranked as high priority for the IDDE implementation in the outfall ranking and enhanced BMP's have been implemented in accordance with the SWMP.

The Town of Rye, NH through its participation in the Seacoast Stormwater Coalition, and continued involvement with the NHDES led Pollutant Tracking and Accounting Program (PTAP) and the Pollutant Loading Maps (aka Hot Spot Maps), will satisfy the tracking and accounting requirement of the municipally owned structural and non-structural BMP's. Calculations will be in accordance with attachments of Appendix F.

### Nitrogen

Outfalls to these receiving waters have been ranked as high priority for the IDDE implementation in the outfall ranking and enhanced BMP's have been implemented in accordance with the SWMP.

The Town of Rye, NH through its participation in the Seacoast Stormwater Coalition, and continued involvement with the NHDES led Pollutant Tracking and Accounting Program (PTAP) and the Pollutant Loading Maps (aka Hot Spot Maps), will satisfy the tracking and accounting requirement of the municipally owned structural and non-structural BMP's. Calculations will be in accordance with attachments of Appendix F.

### Chloride

Outfalls to these receiving waters have been ranked as high priority for the IDDE implementation in the initial outfall ranking.

Tracking of the amount of salt applied to all municipally owned and maintained surfaces, and reporting of salt use has been completed using the New Hampshire DES MS4 annual salt usage reporting form.

The Town of Rye, NH through its participation in the Seacoast Stormwater Coalition, and continued involvement with the NHDES-led Green Snow Pro Program, have completed winter road maintenance procedures, and continue to develop public education efforts regarding impacts of salt use, methods to reduce salt use on private property, and modifications to driving behavior in winter weather.

The Municipal Green Snow Pro Certification Program bill was delayed during the 2020 legislative session due to COVID-19. The bill was put back into legislation during the 2021 legislative session. In June of 2021, it was noted as "ought to pass" by the House of Representatives.

The Town of Rye, NH has not adopted a Salt Reduction Plan in accordance with Appendix H that has been implemented in the MS4 regulated area and/or community wide. This failure is due to the impact which Covid had upon the Town of Rye's administrative work force.

The Town's 2021 election, which is normally held in March, and allows budget expenditures by April, was not held until July of this year. As such, town approval was not in hand until August for many budget expenditures.

With said budgetary approval in hand the Town has contracted with the engineering firm of Wright-Pierce Engineering to prepare a Salt Reduction Plan in accordance with Appendix H of the 2017 NH Small MS4 General Permit.

### **Additional Required Information**

#### **Monitoring or Study Results**

No additional monitoring or studies were completed.

#### **Description of Any Changes in Identified BMPs or Measurable Goals**

The Town of Rye, NH has implemented activities in accordance with the permit and outlined in the SWMP. All BMPs and measurable goals outlined in the SWMP are appropriate.

#### **Activities for the Next Reporting Cycle**

The Town of Rye, NH will continue to implement activities in accordance with the permit and SWMP.