

Year 5 Annual Report

New Hampshire Small MS4 General Permit

EXISTING PERMITTEES


Reporting Period: July 1, 2022 - June 30, 2023

RYE, New Hampshire

EPA NPDES Permit Number NHR041030

Certification of Small MS4 Year 5 Annual Report

"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: Jason M. Rucker	
Title: Public Works Director	
Signature: 	Date: 9/27/23

Authorized Representative:

The authorization letter is:

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

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☒ Publicly available at the website:

https://www.town.rye.nh.us/sites/g/files/vyhlf3751/f/uploads/designation_of_authorized_rep_2022.pdf

Primary MS4 Program Manager Contact Information:

Name: Jason M. Rucker	Title/Position: Public Works Director		
Department: Public Works			
Street Address: 10 Central Road			
City: Rye	State: New Hampshire	Zip Code: 03870	
Email: jrucker@town.rye.nh.us	Phone Number: (603) 964-5300		

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, 2022, through June 30, 2023**, 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> or
https://www.town.rye.nh.us/sites/g/files/vyhlf3751/f/uploads/notice_of_intent_noi.pdf

Compliance activities have been identified and described in the Rye Stormwater Management Program Plan (SWMP) and Illicit Discharge Detection and Elimination (IDDE) Plan. These documents and other pertinent Year 5 information can be found in submission or at the following websites, and will be referred to throughout this report:

SWMP: https://www.town.rye.nh.us/sites/g/files/vyhlf3751/f/uploads/stormwater_management_program_swmp.pdf
Date SWMP was Last Updated: September 2022
IDDE Program Plan: https://www.town.rye.nh.us/sites/g/files/vyhlf3751/f/uploads/final-idde_program-2019.pdf
Updated System Map https://www.town.rye.nh.us/public-works/pages/town-rye-stormwater-maps
Progress on Completion of System Map: The Stormwater System Map is currently being updated, and will be posted on the Public Works webpage when available.
Updated SSO Inventory: Not applicable – zero SSO events
Updated Inventory and Ranking of Outfalls/Interconnections: Being updated in Year 6 and will be posted on Public Works webpage when available. https://www.town.rye.nh.us/sites/g/files/vyhlf3751/f/uploads/final-idde_program-2019.pdf
Dry Weather Screening Data: Not applicable – none completed in Year 5; included in Year 3 submission
Wet Weather Screening Data: Not applicable – none completed to date
Catchment Investigation Data: Not applicable – none completed to date
Illicit Discharge Removal Report: Not applicable – zero removals
Results from additional stormwater or receiving water quality monitoring reports or studies: Not applicable

Salt Reduction Plan:

https://www.town.rye.nh.us/sites/g/files/vyhlif3751/f/uploads/salt_reduction_plan.pdf

Annual Salt Usage Report: **See attached submission**

Updated Nitrogen Source Identification Report:

https://www.town.rye.nh.us/sites/g/files/vyhlif3751/f/uploads/nitrogen_source_identification_report_0.pdf

Updated Phosphorus Source Identification Report: **Not applicable**

Street Sweeping Schedule (for solids, oil and grease (hydrocarbons), or metals impairments): **Not applicable**

Chloride Reduction Plan: **Not applicable**

Annual Salt Usage Report **Not applicable**

Lake Phosphorus Control Plan: **Not applicable**

Lake Phosphorus Control Plan (Items 1-4): **Not applicable**

Self-Assessment

Select the impairment(s) and/or TMDL(s) that are applicable to your MS4. Make sure you are referring to the 2020/2022 EPA approved Section 303(d) Impaired Waters List which was used for the Year 5 reporting period and can be found on the [NHDES webpage](#).

All **Appendix F and H requirements** can be found under “Appendix F and H: Water Quality Limited Waters & TMDLs” section of this report.

Impairment(s)		
<input checked="" type="checkbox"/> Bacteria/Pathogens	<input checked="" type="checkbox"/> Chloride	<input checked="" type="checkbox"/> Nitrogen
<input type="checkbox"/> Phosphorus	<input type="checkbox"/> Solids/Oil/Grease (Hydrocarbons)/Metals	
TMDL(s)		
<input type="checkbox"/> Bacteria and Pathogens	<input type="checkbox"/> Chloride	<input type="checkbox"/> Lake and Pond Phosphorus

Receiving Waters/Impaired Waters/TMDL

Have you made any changes to your lists of receiving waters, outfalls, or impairments since the NOI was submitted?

☒ Yes

Rye has made changes to the list of receiving waters, outfalls, or impairments since the NOI submission. The following impairments and/or TMDLs have been added or delisted:

Water Quality Impaired Waters:

- **Water body segments NHEST600031001-05 Back Channel and NHEST600031002-02 Little Harbor were removed from the 2020/2022 section 303(d) list for nitrogen.**
- **Water body segment NHEST600031001-04 Lower Sagamore Creek was added to the 2020/2022 section 303(d) list for nitrogen.**

TMDL: **Not applicable.**

Describe progress made on any **incomplete requirements** listed above or optionally provide any additional relevant details, in the box below:

The NOI indicates 2 outfalls discharge to Sagamore Creek and 1 to Little Harbor; however, it has been determined that 3 outfalls discharge to Sagamore Creek and 0 to Little Harbor.

Minimum Control Measures

MCM 1: Public Education

Total number of all MS4 related educational efforts completed *during this reporting period*: **12**

Were any of the messages below different than what was proposed in your NOI?

☐ No

☒ Yes. Although the overall messages stayed the same, Rye made changes to align better with the Seacoast Stormwater Coalition's public education efforts. Changes included how the "Disposal of Leaf Litter" message was delivered (Town Newsletter articles and brochures instead of posting notices) and what "Septic System Maintenance" resources were used (brochures and pamphlets – primarily "Get Pumped! New Hampshire" instead of an existing Septic Systems and Water Quality factsheet).

BMP: Grass and Fertilizer

Outreach Resources:

Grass and fertilizer related flyers, mailers, postcards, videos, and social media posts found on the [MCM #1 webpage](#) of the NH MS4 website.

Description:

Distribution and promotion of "Green Grass and Clean Water" flyer. "Green Grass and Clean Water" materials were produced by UNH Cooperative Extension, NH Sea Grant, and NHDES outlining simple recommendations to keep lawns healthy while reducing water quality impacts - including proper fertilizer techniques and disposal of grass clippings.

Targeted Audience:

Residential, Businesses, and Institutions

Responsible Department/Parties:

Department of Public Works

Measurable Goal(s):

Residents that are lawn care enthusiasts 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.

Following are the number of flyers that were distributed *during this reporting period*:

Year 5 = 30 flyers

Goal was achieved.

Message Date: Annually in spring

BMP: Pet Waste Disposal

Outreach Resources:

Pet waste related flyers, mailers, postcards, and videos found on the [MCM #1 webpage](#) of the NH MS4 website.

Description:

Distribution and promotion of “Every Drop” flyers and municipally created brochures with educational information about proper pet waste management, impacts of improper management, pet waste ordinance, and disposal requirements messaging. May include the “Every Drop” pledge to pick up pet waste to be made available during dog registration and other events or venues (veterinarians, dog training, groomers, etc.). Every Drop is a collaborative education effort with PREP, NHDES and other partners.

Targeted Audience:

Residents - Pet Owners

Responsible Department/Parties:

Department of Public Works

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.

Following is the number of residents that pledged through the PREP “Every Drop” website *during this reporting period:*

Year 5 = 0

Following are the number of flyers and brochures that were distributed *during this reporting period:*

Year 5 = All new dog owners and dog owners at license renewal received an “Every Drop” flyer. The actual number of flyers distributed was not recorded.

Year 5 = “Scoop the Poop” brochures and “Every Drop” flyers are available at the Public Works Office and Transfer Station. The actual number of brochures and flyers distributed was not recorded.

Goal was achieved.

Message Date: At the time of license renewal

BMP: Disposal of Leaf and Grass Clippings

Outreach Resources:

Leaf and grass clippings related flyers, brochures, pledges, door hangers, and videos found on the [MCM #1 webpage](#) of the NH MS4 website.

Description:

Distribution and promotion of municipally created flyers and brochures with messaging about impacts from yard waste to waterbodies, alternatives to dumping yard waste, and laws against dumping yard waste near or in waterbodies.

Rye has implemented a composting effort/program by allowing the public to drop off compostable materials (leaves and vegetation) at the transfer station at no cost to residents five days a week. Screened, mature compost is available at no cost to residents. The Town also offers food waste composting at no cost to residents. The Town provided outreach on the water quality benefits of composting in the December 2022 and June 2023 Town Newsletter.

Targeted Audience:

Residential and Businesses

Responsible Department/Parties:

Department of Public Works

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.

Following are the number of brochures that were distributed *during this reporting period*:

Year 5 = 20-30 brochures

Goal was achieved.

Message Date: Annually in fall

BMP: Septic System Maintenance

Outreach Resources:

Septic system related brochures, letters, videos found on the [MCM #1 webpage](#) of the NH MS4 website.

Description:

Distribution and promotion of Get Pumped NH educating 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

Responsible Department/Parties:

Department of Public Works

Measurable Goal(s):

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

Following are the number of brochures that were distributed *during this reporting period*:

Year 5 = 20-30 brochures

Goal was achieved.

Message Date: Annually in fall

BMP: Industrial Outreach

Outreach Resources:

Industrial facilities related letter and fact sheets found on the [MCM #1 webpage](#) of the NH MS4 website.

Description:

- ☒ Rye does not have any industrial facilities located within the NH MS4 regulated area that are permitted under the NPDES Multi-Sector General Permit. This has been documented in Rye's SWMP that this audience is absent from the municipality. No education or outreach efforts were conducted *during this reporting period* for the industrial audience as a result.
- ☐ Provided an outreach letter and Industrial Facilities Fact Sheet to the permittees that fall under the Multi-Sector General Permit and whose facilities are located within the NH MS4 regulated area to educate them on both the new and updated requirements within the EPA 2021 Multi-Sector General Permit, and the 2017 NH MS4 General Permit.

BMP: Developers (Construction) Public Education

Outreach Resources:

Construction/Developers outreach letter and fact sheets found on the [MCM #1 webpage](#) of the NH MS4 website.

Description:

Provide Construction General Permit outreach letter and brochure to developers, construction contractors, and other municipal or local organizations to educate them on both the new and updated requirements within the EPA 2022 Construction General Permit.

Target Audience:

Developer/Construction

Responsible Department/Parties:

Department of Public Works

Measurable Goal(s):

Contractors, developers, and municipal or local organizations are made aware of the updates and changes made to the EPA 2022 Construction General Permit including the requirement that those who wish to be considered a qualified person to conduct inspections must meet EPA training standards. Contractors and developers are also made aware of the need for proper erosion control practices during construction work.

Following is the number of brochures and outreach letters that were distributed to local developers *during this reporting period*:

Year 5 = 9

Describe progress made on any **incomplete requirements** listed above or optionally provide any additional relevant details, in the box below:

The Town quarterly mails out the Town's Newsletter to every town resident, homeowner, and business. An article related to Best Management Practices (BMP) for Lawn Care was included in the March 2023 edition of the Newsletter; articles related to disposal of leaves and grass clippings were included in the December 2022 and June 2023 editions of the Newsletter; an article related to dog waste was included in the June 2023 edition of the Newsletter, and an article related to septic system maintenance was included in the September 2022 edition of the Newsletter.

Several brochures and flyers including, "Scoop the Poop", "Every Drop Matters" pledge, "Get Pumped! New Hampshire", "Green Grass & Clean Water", "Rake It or Leave It", and "New Hampshire Homeowner's Guide to Stormwater Management" are posted on the Public Works Department webpage (<https://www.town.rye.nh.us/stormwater-drainagems4>) and made available at the Public Works Office and Transfer Station. Also available at the Public Works Office and Transfer Station are "Septic Smart" and "What's Flushable" flyers. It is estimated that 20-30 brochure/flyers were distributed from the brochure racks between both offices.

MCM 2: Public Participation

- ☒ Provided an opportunity for public participation in review and implementation of SWMP and complied with State Public Notice requirements as described in the Rye SWMP.
- ☒ Kept records relating to the permit available for 5 years and made available to the public.

Describe the opportunity provided for public involvement in the development of the Stormwater Management Program (SWMP) *during this reporting period*:

Description:

The Stormwater Management Program (SWMP) was publicly reviewed by the Public Works Director at a Rye Select Board Meeting on May 8, 2023 in the form of an MS4/SWMP update. The SWMP is also available for the public to view on the Public Works webpage. 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.

Was this opportunity different than what was proposed in your NOI?

☐ No

☒ **Yes. The Public Works Director presented an MS4/SWMP Update at a Select Board meeting in addition to the SWMP being publicly available on the Town's website.**

Measurable Goal(s):

An opportunity for the public to provide input was provided, and records were maintained.
Goal was achieved.

Describe any other public involvement or participation opportunities conducted *during this reporting period*:

Public involvement or participation opportunities are ancillary to daily operations.

Rye has conducted the following public involvement or participation opportunities: **A Household Hazardous Waste Collection day was held September 24, 2022.**

Describe progress made on any **incomplete requirements** listed above or optionally provide any additional relevant details, in the box below:

Not applicable

MCM 3: Illicit Discharge Detection and Elimination (IDDE)

Sanitary Sewer Overflows (SSOs)

- ☐ This SSO section is NOT applicable because we DO NOT have sanitary sewer.
- ☒ This SSO section is NOT applicable because we DID NOT find any new SSOs.
- ☐ The SSO inventory has been updated, including the status of mitigation and corrective measures implemented or was addressed and can be found in submission **and/or** at the following website.

Below, report on the number of SSOs identified in the MS4 system and removed:

Number of SSOs identified **during this reporting period: 0**

Number of SSOs removed **during this reporting period: 0**

MS4 System Mapping

- ☒ Updated system map due in Year 2 as necessary:

Provide additional status information regarding your map:

Map of storm sewer system and associated outfalls is continually updated to reflect findings and changes.

Screening of Outfalls/Interconnections

Dry Weather Screening

- ☒ No outfalls were inspected for dry weather screening **during this report period.**
- ☐ Outfalls were inspected for dry weather screening **during this report period** and data can be found in submission **and/or** at the following website.

Below, report on the number of outfalls screened in the MS4 system:

Number of outfalls/interconnections screened **during this reporting period: 0**

Percent of total known outfalls/interconnections screened **to date (Year 1 – Year 5): 100**

The inventory and ranking of outfalls/interconnections was not updated during Year 5 because outfalls/interconnections were not inspected.

Wet Weather Screening

- ☒ No outfalls/interconnections were inspected for wet weather screening **during this report period.**

- ☐ Wet weather outfall/interconnection screening data can be found in submission **and/or** at the following website.

Number of outfalls screened *during this reporting period*: 0

Percent of total known outfalls/interconnections screened *to date (Year 1 – Year 5)*: 0

Catchment Investigations

- ☒ No catchment investigations were conducted ***during this report period***. Catchment investigations include investigations associated with Problem, High Priority, and Low Priority Outfalls/Interconnections within the MS4 regulated area.
- ☐ Catchment investigations were conducted and data can be found in submission **and/or** at the following website.

Number of catchment investigations *during this reporting period*: 0. Catchment Investigations were conducted as outlined in Part 2.3.4.8. of the permit and include investigations associated with Problem, High Priority, and Low Priority Outfalls and Interconnections within the MS4 regulated area.

Percentage of total catchments investigated *to date (Year 1 - Year 5)*: 0

IDDE Progress

- ☒ No illicit discharges were found ***during this reporting period***.
- ☐ Illicit discharges were found but not removed ***during this reporting period***. ##Schedule for illicit discharge removal or explanation.
- ☐ Illicit discharges were removed ***during this reporting period*** and the illicit discharges removal report can be found in submission **and/or** at the following website ##website link.

Number of illicit discharges identified *during this reporting period*: 0

Number of illicit discharges removed *during this reporting period*: 0

Estimated gallons of flow removed *during this reporting period*: 0 gallons/day

Total number of illicit discharges identified *since the effective date of the permit (July 1, 2018 – June 30, 2023)*: 0

Total number of illicit discharges removed *since the effective date of the permit (July 1, 2018 – June 30, 2023)*: 0

Employee Training

- ☒ Provided training to employees involved in IDDE program *during the reporting period*:

Rye held an IDDE training session for municipal staff on June 20, 2023; 8 staff members completed the training. The training included a video from the Pioneer Valley Planning Commission's IDDE MS4 Compliance Workshop, a review of the IDDE Manual, and IDDE and SSO identification.

In addition, Rye routinely makes IDDE materials and training, including information on how to identify illicit discharges and SSOs available to applicable employees in accordance with IDDE Program Plan. Training logs are included in Appendix F of the IDDE Program Plan and kept on file at the Public Works Office.

Describe progress made on any **incomplete requirements** listed above or optionally provide any additional relevant details, in the box below:

Not applicable

MCM 4: Construction Site Stormwater Runoff Control

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

Number of site plan reviews completed *during this reporting period*: 6

Number of inspections completed *during this reporting period*: 12

Number of enforcement actions taken *during this reporting period*: 0

The Town of Rye works closely with contractors to address environmental concerns for the least environmental impact.

Describe progress made on any **incomplete requirements** listed above or optionally provide any additional relevant details, in the box below:

Rye's Construction Site Runoff – Erosion and Sediment Control Standards are included as Article VIII in Chapter 202 Land Development Regulations
(https://www.town.rye.nh.us/sites/g/files/vyhli3751/f/pages/ldr_codification_into_booklet_for_m_9-25-22_0.pdf)

MCM 5: Post-Construction Stormwater Management in New Development and Redevelopment

Ordinance or Regulatory Mechanism

- ☒ Rye has a regulatory mechanism(s) consistent with permit requirements 2.3.6.a.ii.

Date regulatory mechanism was adopted: **Prior to July 1, 2021**. The regulatory document (**Chapter 202 Land Development Regulations, Article IX Post-Construction Stormwater Management Standards**) can be found at:

https://www.town.rye.nh.us/sites/g/files/vyhlf3751/f/pages/ldr_codification_into_booklet_form_9-25-22_0.pdf

- ☐ ##MUNICIPALITY has not drafted or adopted a Post-Construction Ordinance. ##Update of ordinance progress.

As-built Drawings

Number of as-built drawings received **during this reporting period: 6**

Street Design and Parking Lots Report

- ☒ **During Year 4**, Rye developed a report assessing current street design and parking lot regulations to determine the feasibility of making low impact design options allowable when appropriate site conditions exist and made it available as part of the SWMP.
- ☐ **During this reporting period**, ##MUNICIPALITY developed a report assessing street design and parking lot regulations to determine the feasibility of making low impact design options allowable when appropriate site conditions exist and made it available as part of the SWMP and
- ☒ No updates were recommended to the **Assessment Report during this reporting period**.
- ☐ Updates were recommended to the **Assessment Report during this reporting period**. Following are the recommended updates: ##MUNICIPALITY to note recommended or planned changes here. The anticipated date or date of completion for updates is ##date outlined in the report.
- ☐ No updates were made **during this reporting period** because all required updates have been made to make low impact designs allowable as outlined in the **Assessment Report**.
- ☒ No updates were made made or planned to be made to **local regulations and/or guidelines during this reporting period**.
- ☐ Updates were recommended and/or planned to be made to **local regulations and/or guidelines during this reporting period**. Following are the recommended updates: ##MUNICIPALITY to note

recommended or planned changes here. The anticipated date or date of completion for updates is ##date outlined in the report.

- ☐ No updates were made **during this reporting period** because all required **local regulation and/or guidelines** updates have been made to make low impact designs allowable as outlined in the Local Regulations Assessment Report.

Green Infrastructure Reports

- ☒ **During Year 4**, Rye developed a report assessing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist and made it available as part of the SWMP.
- ☐ **During this reporting period**, ##MUNICIPALITY developed a report assessing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist, made it available as part of the SWMP
- ☐ No progress was made **during this reporting period** towards making green infrastructure practices allowable as outlined in the **Assessment Report**.
- ☐ Progress was made **during this reporting period** as outlined in the **Assessment Report**. ##MUNICIPALITY has made progress on Green Roofs, Infiltration Practices, **and/or** Water Harvesting. Progress includes updating the ordinance, regulation, code.
- ☒ No updates were made **during this reporting period** because there are no required updates to be made to make green infrastructure practices allowable as outlined in the **Assessment Report**.
- ☒ No updates were made or planned to be made to **local regulations during this reporting period**.
- ☐ Updates were made to the **local regulations during this reporting period** to reflect ##revision.
- ☐ No updates were made **during this reporting period** because all required **local regulation** updates have been made to make green infrastructure practices allowable as outlined in the Local Regulations Assessment Report.

Retrofit Properties Inventory

- ☒ Identified permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious cover in **Year 4**. The following was completed **during the reporting period**:
- ☐ Identified permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious cover **during this reporting period** because ##MUNIUCIPALITY did not complete this requirement during Year 4. The following was also completed **during the reporting period**:

- ☒ Rye has identified the remaining permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious area and of which are not included in the list below:
 Remaining permittee-owned properties identified: **None**

List of MS4 Properties identified in Year 4:

Priority	IC (ac)	NH GIS ID	Street Address
1	2.57	08187-011-134-000	309 Grove Road
2	1.28	08187-012-055-000	20 Central Road
3	1.15	08187-016-007-000	555 Washington Road
4	0.69	08187-012-043-000	575 Washington Road
5	0.51	08187-012-054-000	10 Central Road
6	0.48	08187-012-053-000	0 Washington Road
7	0.14	08187-012-038-000	37 Central Road
8	0.13	08187-012-042-000	581 Washington Road

- ☒ Rye has modified or retrofitted the following MS4 and Non-MS4 properties with BMPs to mitigate impervious area that were inventoried as part of 2.3.6.e as part of the permit in Year 4. Following is a list of the properties that were modified or retrofitted **during this reporting period**:

List of MS4 Properties: **None**

List of Non-MS4 Properties: **None**

Describe progress made on any **incomplete requirements** listed above or optionally provide any additional relevant details, in the box below:

Not applicable

MCM 6: Good Housekeeping

Catch Basin Cleaning

- ☒ Stored and disposed of catch basin cleanings so they did not discharge to receiving waters.
- ☒ Report on the actions taken if a catch basin sump is more than 50% full during two consecutive routine inspections/cleaning events:

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 inspection reports of catch basin sumps more than 50% full are recorded on a list and scheduled for cleaning the next year.

Number of catch basins inspected *during this reporting period*: 128

Number of catch basins cleaned *during this reporting period*: 128

Total volume of material removed from all catch basins *during this reporting period*: 25 cubic yards

Total number of catch basins within the MS4 system: 800+/-

Street Sweeping

- ☒ Stored and disposed of street sweepings so they did not discharge to receiving waters.
- ☒ All curbed roadways were swept at least once within the reporting period.

Number of (lane) miles swept *during this reporting period*: 90

Volume of swept material *during this reporting period*: 6 cubic yards

Stormwater Pollution Prevention Plan (SWPPP)

- ☒ Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities, that are not currently covered under another NPDES Permit.

Number of site inspections completed for *during this reporting period*: 4

Number of corrective actions taken *during this reporting period*: 0

Describe any corrective actions taken at a facility with a SWPPP:

No corrective actions necessary.

Operations and Maintenance (O & M) Programs

- ☒ O&M programs for all permittee owned facilities have been completed and/or updated as noted below:

☒ Implemented all maintenance procedures for permittee-owned facilities in accordance with O&M programs.

☒ Updated inventory of all permittee-owned facilities, as necessary.

**All permittee owned facilities, including an inventory, are included in our SWMP.
There were no changes to report during Year 5.**

☒ Implemented program for MS4 infrastructure maintenance to reduce the discharge of pollutants as outlined in the SWMP.

☒ Inspected all permittee owned treatment structures (excluding catch basins) as outlined in the SWMP.

☒ Enclosed all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt as outlined in the SWMP.

Describe progress made on any **incomplete requirements** listed above or optionally provide any additional relevant details, in the box below:

Not applicable

Appendix H and F:

Water Quality Limited Waters & TMDLs

Bacteria/Pathogens Impairment (Appendix H) and TMDL (Appendix F)

- ☒ Annual message was distributed encouraging the proper management of pet waste, including noting any existing ordinances where appropriate *during this reporting period*.
- ☒ Permittee or its agent(s) disseminated educational material to dog owners at the time of issuance or renewal of dog license, or other appropriate time *during this reporting period*.
- ☒ Provided information to owners of septic systems about proper maintenance in any catchment that discharges to a water body impaired for bacteria *during this reporting period*.

Describe progress made on any **incomplete requirements** listed above or optionally provide any additional relevant details, in the box below:

Not applicable

Chloride Impairment (Appendix H)

- ☐ Permittee **does not** have a chloride impairment.
- ☒ Permittee **has** a chloride impairment.
 - ☒ Fully implemented Salt Reduction Plan *during this reporting period* and can be found at the following website:
https://www.town.rye.nh.us/sites/g/files/vyhlf3751/f/uploads/salt_reduction_plan.pdf.
 - The Municipal Green SnowPro Certification Program bill was passed during the 2021 legislation session. NHDES developed rules and regulations *during this reporting period*. Final approval of the rules and regulations is anticipated in 2023/2024.
 - ☒ Reported amount of salt applied to all municipally-owned and maintained surfaces by completing the New Hampshire DES Annual Salt Usage reporting form and submitting it to NHDES, and can be found in submission. The UNH Technology Transfer Center online tool is non-functional and has not been for several years.

Describe progress made on any **incomplete requirements** listed above or optionally provide any additional relevant details, in the box below:

No applicable

Nitrogen Impairment (Appendix H)

- ☐ Permittee **does not** have a nitrogen impairment.
- ☒ Permittee **has** a nitrogen impairment.
- ☒ Distributed an annual message that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release fertilizers **during this reporting period.**
 - ☒ Distributed an annual message encouraging the proper management of pet waste, including noting any existing ordinances where appropriate **during this reporting period.**
 - ☒ Distributed an annual message encouraging the proper disposal of leaf litter **during this reporting period.**
 - ☐ Increased street sweeping frequency of all municipal owned streets and parking lots subject to Permit part 2.3.7.d.iii to a minimum of two times per year (spring and fall) **during this reporting period.**
 - ☒ Increased street sweeping frequency of all municipal owned streets and parking lots subject to Permit part 2.3.7.d.iii to a minimum of one time per year (spring) and implemented a fall leaf litter collection program in lieu of post-drop street sweeping **during this reporting period.**

Nitrogen Source Identification Report- Update

Structural BMPs

- ☒ The Nitrogen Source Identification Report can be found at the following website:
https://www.town.rye.nh.us/sites/g/files/vyhlif3751/f/uploads/nitrogen_source_identification_report_0.pdf.
- The updates to the Nitrogen Source Identification Report can be found in *Section 2: Potential Structural BMPs Report (Year 5)* and include the following: - **Not applicable**
- 1.) Completed the evaluation of all permittee-owned properties identified as presenting retrofit opportunity or areas for structural BMP installation under permit part 2.3.6.d as identified in the Nitrogen Source Identification Report update that are within the drainage area of the impaired water or its tributaries. The report includes the next planned infrastructure, resurfacing, or redevelopment activity planned for the property (if applicable) or planned project; Estimated cost of redevelopment or retrofit BMPs, and; Engineering and regulatory feasibility of redevelopment or retrofit BMPs.

2.) Completed a listing of planned structural BMPs and a plan and schedule for implementation.

3.) Method of tracking and accounting for nitrogen, and metrics associated with individual BMPs.

☐ Structural BMPs listed in Attachment 3 to Appendix F already existing or installed in the regulated area by ##MUNICIPALITY or its agents was tracked and the nitrogen removal by the BMP was estimated consistent with Attachment 3 to Appendix F. The BMP type, total area treated by the BMP, the design storage volume of the BMP, and the estimated nitrogen removed in mass per year by the BMP were documented in *Section 2: Potential Structural BMPs Report (Year 5)* of the Nitrogen Source Identification Report. The total estimated nitrogen removed from the installed BMP(s) is ##lbs/year.

☐ No BMPs were installed **during this reporting period**. The implementation schedule is outlined in *Section 2: Potential Structural BMPs Report (Year 5)* of the Nitrogen Source Identification Report. The total estimated nitrogen removed from the installed BMP(s) is 0 lbs/year.

Describe progress made on any **incomplete requirements** listed above or optionally provide any additional relevant details, in the box below:

Following the development of the Nitrogen Source Identification Report in Year 4, it was determined the waterbodies identified in Rye's SWMP as water quality limited waters impaired by nitrogen (Back Channel, NHEST600031001-05 and Little Harbor, NHEST600031002-02) were removed from the section 303(d) list in 2020-2022. Per Appendix H.I.3 of the MS4 General Permit, Rye was relieved from additional requirements in Appendix H Part I.1 (Structural BMPs). However, during the development of this Annual Report, it was determined that in addition to the two waterbody segments that were removed for nitrogen, Lower Sagamore Creek, NHEST600031001-04, was added to the section 303(d) list in 2020-2022. Since the Lower Sagamore Creek is tributary to Back Channel and Little Harbor, it was included in the original Nitrogen Source Identification Report; however, potential structural BMPs were not formally evaluated.

Phosphorus Impairment (Appendix H)

☒ Permittee **does not** have a phosphorus impairment.

Solids, Oil and Grease (Hydrocarbons), or Metals Impairment(s) (Appendix H)

☒ Permittee **does not** have a solids, oil and grease, or metals impairment(s).

Chloride TMDL (Appendix F)

☒ Permittee **does not** have a chloride TMDL.

Lake and Pond Phosphorus TMDL (Appendix F)

☒ Permittee **does not** have a lake and pond phosphorus TMDL.

Additional Required Information

Monitoring or Study Results

Results from all stormwater or receiving water quality monitoring or studies conducted **during the reporting period** and **not otherwise mentioned above**, where the data is being used to inform permit compliance or permit effectiveness is:

☒ Not applicable.

☐ The results from additional reports or studies are in submission **and/or** at the following website.

If such monitoring or studies were conducted on your behalf or if monitoring or studies conducted by other entities were reported to you, a brief description of the type of information gathered or received shall be described below:

Not applicable

Description of Any Changes in Identified BMPs or Measurable Goals

Rye made changes as noted below to the following BMPs and/or measurable goals that were outlined in the permit and identified in the SWMP.

- **BMP 1-2 Septic System Maintenance; used resources provided by Seacoast Stormwater Coalition rather than existing Septic Systems and Water Quality factsheet (used in Parsons Creek watershed) to encourage septic system owners to maintain their septic systems.**
- **BMP 1-4 Disposal of Leaf Litter Notice; provided brochures at the Public Works Office and Transfer Station, and published articles in Town Newsletter to encourage the proper disposal of leaf litter and yard waste rather than posting notices at the Transfer Station.**

Activities Planned for Next Reporting Period

Rye will continue to implement activities in accordance with the permit and SWMP.