

# **Year 5 Annual Report**

**New Hampshire Small MS4 General Permit**


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

**Town of Durham**

EPA NPDES Permit Number NHR041006

# 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: Rich Reine	
Title: Director of Public Works	
Signature: 	Date: 9/28/23

## Authorized Representative:

The authorization letter is:

Attached to this document (document name listed below):

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Publicly available at the website:

<a href="https://www.ci.durham.nh.us/sites/default/files/fileattachments/public_works/page/55264/nh_ms4_authorization_durham_nhr041006.pdf">https://www.ci.durham.nh.us/sites/default/files/fileattachments/public_works/page/55264/nh_ms4_authorization_durham_nhr041006.pdf</a>
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## Primary MS4 Program Manager Contact Information:

Name: Richard Reine	Title/Position: Director of Public Works		
Department: Public Works Department			
Street Address: 100 Stone Quarry Drive			
City: Durham	State: New Hampshire	Zip Code: 03824	
Email: rreine@ci.durham.nh.us	Phone Number: 603-868-5578		

# 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>

Compliance activities have been identified and described in the Town of Durham’s Stormwater Management Program Plan (SWMP) and Illicit Discharge Detection and Elimination (IDDE) Plan. Those 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: <a href="https://www.ci.durham.nh.us/publicworks/stormwater">https://www.ci.durham.nh.us/publicworks/stormwater</a>
Date SWMP was Last Updated: September 28, 2023
IDDE Program Plan: <a href="https://www.ci.durham.nh.us/publicworks/stormwater">https://www.ci.durham.nh.us/publicworks/stormwater</a>
Updated System Map: Durham Public Works Office
Progress on Completion of System Map: Durham Public Works Office
Updated SSO Inventory: Not Applicable
Updated Inventory and Ranking of outfalls/Interconnections: See attached submission
Dry Weather Screening Data: See attached submission
Wet Weather Screening Data: See attached submission
Catchment Investigation Data: See attached submission
Illicit Discharge Removal Report: Not Applicable
Results from additional stormwater or receiving water quality monitoring reports or studies: Not Applicable
Salt Reduction Plan: <a href="https://www.ci.durham.nh.us/publicworks/stormwater">https://www.ci.durham.nh.us/publicworks/stormwater</a>
Updated Nitrogen Source Identification Report: <a href="https://www.ci.durham.nh.us/publicworks/stormwater">https://www.ci.durham.nh.us/publicworks/stormwater</a>
Updated Phosphorus Source Identification 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 checked="" 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?

No

Town of Durham has not made changes to the list of receiving waters, outfalls, or impairments since the NOI submission.

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

Not Applicable

# Minimum Control Measures

## MCM 1: Public Education

Total number of all MS4 related educational efforts completed *during this reporting period*: 28

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

No

Yes.

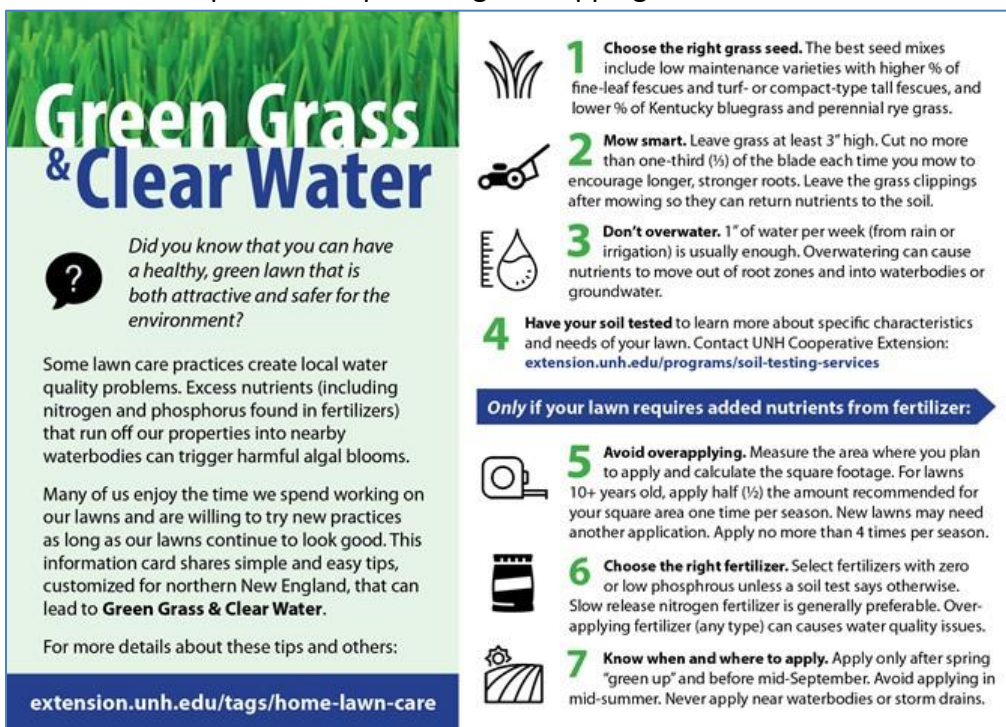
### BMP: Grass and Fertilizer

#### 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” and municipally created flyers, mailers, postcards, videos and social media posts. “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.



**Green Grass & Clear Water**

*Did you know that you can have a healthy, green lawn that is both attractive and safer for the environment?*

Some lawn care practices create local water quality problems. Excess nutrients (including nitrogen and phosphorus found in fertilizers) that run off our properties into nearby waterbodies can trigger harmful algal blooms.

Many of us enjoy the time we spend working on our lawns and are willing to try new practices as long as our lawns continue to look good. This information card shares simple and easy tips, customized for northern New England, that can lead to **Green Grass & Clear Water**.

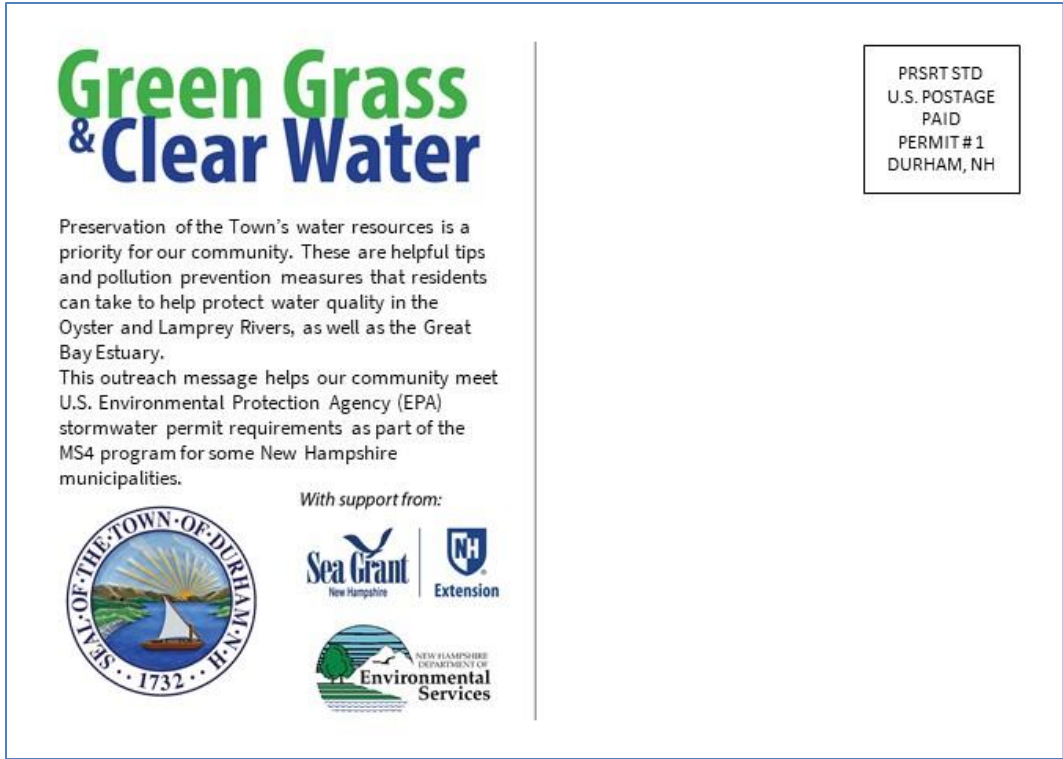
For more details about these tips and others:

[extension.unh.edu/tags/home-lawn-care](http://extension.unh.edu/tags/home-lawn-care)

- 1 Choose the right grass seed.** The best seed mixes include low maintenance varieties with higher % of fine-leaf fescues and turf- or compact-type tall fescues, and lower % of Kentucky bluegrass and perennial rye grass.
- 2 Mow smart.** Leave grass at least 3" high. Cut no more than one-third (1/3) of the blade each time you mow to encourage longer, stronger roots. Leave the grass clippings after mowing so they can return nutrients to the soil.
- 3 Don't overwater.** 1" of water per week (from rain or irrigation) is usually enough. Overwatering can cause nutrients to move out of root zones and into waterbodies or groundwater.
- 4 Have your soil tested** to learn more about specific characteristics and needs of your lawn. Contact UNH Cooperative Extension: [extension.unh.edu/programs/soil-testing-services](http://extension.unh.edu/programs/soil-testing-services)

**Only if your lawn requires added nutrients from fertilizer:**

- 5 Avoid overapplying.** Measure the area where you plan to apply and calculate the square footage. For lawns 10+ years old, apply half (1/2) the amount recommended for your square area one time per season. New lawns may need another application. Apply no more than 4 times per season.
- 6 Choose the right fertilizer.** Select fertilizers with zero or low phosphorus unless a soil test says otherwise. Slow release nitrogen fertilizer is generally preferable. Over-applying fertilizer (any type) can cause water quality issues.
- 7 Know when and where to apply.** Apply only after spring "green up" and before mid-September. Avoid applying in mid-summer. Never apply near waterbodies or storm drains.



(\*Note that Post Card was personalized for Town of Durham to recognize our connection with the Oyster River, Lamprey River and Great Bay\*)

**Targeted Audience:**

Residential and Business and Institutions

**Responsible Department/Parties:**

Public Works Department

**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, mailers, or postcards that were distributed during this reporting period:

Year 5 = 2,048 postcards

**Goal was achieved.**

**Message Date:** Postcards were mailed June 13, 2023.

Messaging featured in Spring 2023 Durham Public Works Newsletter issued March 2023

[https://www.ci.durham.nh.us/sites/default/files/fileattachments/public\\_works/page/21231/tod\\_pw\\_spring\\_2023\\_newsletter.pdf](https://www.ci.durham.nh.us/sites/default/files/fileattachments/public_works/page/21231/tod_pw_spring_2023_newsletter.pdf)

Also promoted in Durham Friday Updates July 1, 2022, July 8, 2022. The weekly Durham Friday Updates email is sent to 3,528 email addresses (subscribers). See

<https://www.ci.durham.nh.us/fridayupdates>

## 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” and municipally created flyers, mailers, postcards, 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:

Durham 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.



The above messaging was featured in Spring 2023 Durham Public Works Newsletter issued March 2023 [https://www.ci.durham.nh.us/sites/default/files/fileattachments/public\\_works/page/21231/tod\\_pw\\_spring\\_2023\\_newsletter.pdf](https://www.ci.durham.nh.us/sites/default/files/fileattachments/public_works/page/21231/tod_pw_spring_2023_newsletter.pdf)

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

Year 5 = 20

**Goal was achieved.**

**Protect the community’s outdoor playgrounds for yourself, your pooch, and the environment. Add your name and the Town (Durham!) in the form at the link [HERE](#) and take the pledge to scoop the poop, every time. Did you know that NHDES reports out which Towns have received the most pledges!? Please help to show how much our community cares.**

**Also, if you see that someone has left their pooch’s poop behind, please pick it up!**

**As a reminder Durham Ordinance #2018-5 and Chapter 49 of the Town Code requires the removal of dog excrement/feces. 1st offense is \$25, 2nd offense is \$50 and 3rd offense is \$150.**

**Message Date:** Summer or time of license renewal, “Scoop the Poop” Town Regulation message posted in Durham Community Friday Updates on July 1, 2022, February 3, 2023, February 24, 2023, March 3, 2023, May 19, 2023, May 26, 2023 found here <https://www.ci.durham.nh.us/fridayupdates>

## **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, brochures, pledges, door hangers, and videos with messaging about impacts from yard waste to waterbodies, alternatives to dumping yard waste, and laws against dumping yard waste near or in waterbodies.

## **FALL LEAF AND BRUSH CURBSIDE COLLECTION BEGINS ON MONDAY, NOVEMBER 7TH AT 7AM**

Durham Public Works would like to remind residents that the annual curbside Fall leaf and brush collection begins on Monday, November 7th at 7:00am.

During this curbside collection program, Durham Public Works crews collect brush (natural material from trees) first followed by the collection of leaves. It is important to note that this program runs independently from the regular curbside solid waste and recycling collection.

Leaves must be placed in paper leaf bags (plastic bags are not recyclable and will not be picked up). Paper bags may be purchased at Aubuchon Hardware and stores such as Lowe's or Home Depot. Loose leaves will not be accepted but may be brought to the Raymond A. LaRoche Sr. Transfer Station & Recycling Center on Durham Point Road during public open hours.

Brush should be placed in one direction, bundled and tied with string (no wire please).


- **Brush and limbs must be no greater than 5 feet in length and 5 inches in diameter. No stumps will be accepted.**
- The amount of brush and limbs is limited to **ONE TRUCKLOAD PER HOUSEHOLD.**
- Cutting off small limbs from branches will help maximize each load.
- Remember, backyard composting of your leaves and brush reduces the flow of waste, while at the same time, produces valuable organic matter for the soil. It improves your soil and the plants growing in it.

Message Featured in Friday Updates October 21, 2022 and May 26, 2023 found here <https://www.ci.durham.nh.us/fridayupdates>

Town of Durham has implemented a composting effort/program by Composting Campaign (Supplying the composting bins for free or at a reduced rate, allowing the public to drop off compostable materials at municipally-owned properties, and/or providing educational materials on the water quality benefits of composting, etc.).

**BACKYARD COMPOSTING BINS AVAILABLE FOR PURCHASE FROM THE PUBLIC WORKS DEPARTMENT UNTIL APRIL 18**

**PRODUCT INFORMATION**



**Compost Bin**

In 2018, approximately 146.1 million tons of MSW were landfilled, with food being the largest component at about 24% and yard waste at about 7%, according to the Environmental Protection Agency (EPA). The use of backyard composting systems by residents can help divert this waste and while benefitting from fresh compost.

**\$63.00 each**

- Easy snap together assembly
- Twist locking lid
- Harvest door, for easy compost removal
- Vertical and horizontal ventilation
- User guide, harvest door, lid and screws included
- Made from recycled content: BPA free
- UV stabilizer is added to resist deterioration from sunlight
- 10-year warranty

- Unit dimensions when assembled: 33" diameter by 33" high
- Weight: 15 lbs.; Volume: 10.5 cubic feet (80 gallons or 300 liters)

The Northeast Resource Recovery Association (NRRA) is holding their annual backyard compost bin sale. If you are interested in starting your own backyard compost and would like to purchase a bin, please bring a check for \$68 (a great price!) made out to NRRA to the Durham Public Works office and reserve your bin. If we receive 20 orders by April 18th we will place the order and you will receive your bin between May 12th – 20th. The bins will be delivered to the Durham Public Works office and you will be contacted once your bin has arrived.

Please see the information above for more details about the bin. It does come with a user's manual. **NOTE:** The deadline to purchase a backyard compost bin is April 18th.

Message posted in Durham Community Friday Updates on March 24, 2023, March 31, 2023 and April 14, 2023 found here

<https://www.ci.durham.nh.us/fridayupdates?page=1>

**Targeted Audience:**

Residential and Business and Institutions

**Responsible Department/Parties:**

Durham 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 flyers, brochures, and door hangers that were distributed during this reporting period:

Year 5 = 75 flyers 75 flyers were distributed at Household Hazardous Waste Collection Day on October 22, 2022.

Durham Composting Campaign Metrics - 20 composting bins were sold during this reporting period.

**Goal was achieved.**

**Message Date:** Messaging posted in Durham Community Friday Updates on September 30, 2022, October 7, 2022, October 14, 2022, October 21, 2022, October 28, 2022, found here <https://www.ci.durham.nh.us/fridayupdates>

In Year 6, flyers will be distributed at Household Hazardous Waste Collection Day on October 21, 2023. This information will be shared on the Town's website and via the communities Friday Updates.

## **BMP: Septic System Maintenance**

**Outreach Resources:**

Septic system related brochures, letters, videos **and/or** social media posts found on the [MCM #1 webpage](#) of the NH MS4 website.

**Description:**

Distribution and promotion of Get Pumped NH, EPA, **and/or** municipally created brochures, letters, videos **and/or** social media posts 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:**

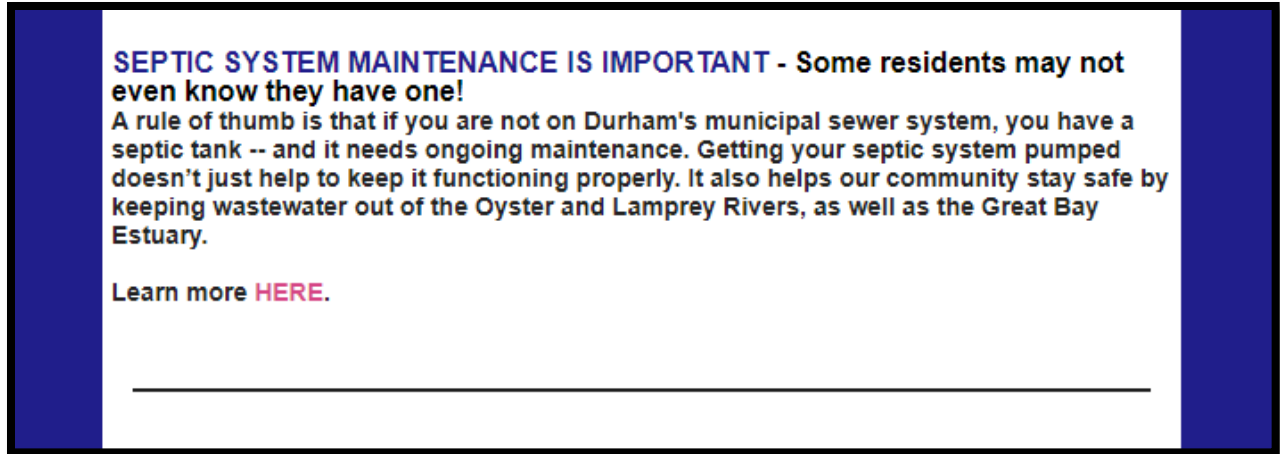
Septic System Owners

**Responsible Department/Parties:**

Durham 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.



**Goal was achieved.**

**Message Date:** Septic System Maintenance and getpumpednh.com messaging posted in Durham Community Friday Updates on May 26, 2023 found here <https://www.ci.durham.nh.us/fridayupdates>

The Building/Code Enforcement Office reported that 20 septic systems were reconstructed between July 1, 2022 and June 30, 2023. They also reported that there are some cases where the State approved replacements that the Town did not review. Brochures are available at Building/Code Enforcement Office/Public Works Office.

## **BMP: Industrial Outreach**

### **Outreach Resources:**

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

### **Description:**

- Town of Durham 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 Town of Durham's NOI and 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.

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

Not Applicable.

## 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 Town of Durham 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 at Durham Public Works office. Documents and records relating to the permit are retained and available for 5 years to the public at Durham Public Works office and at <https://www.ci.durham.nh.us/publicworks/stormwater>

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

- No
- Yes.

**Measurable Goal(s):**

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

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

Town of Durham provided notification of available documents related to the MS4 permit on Durham Community Friday Updates September 30, 2022 and October 7, 2022 found here <https://www.ci.durham.nh.us/fridayupdates>

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.

## MS4 System Mapping

In Year 3, the remainder of the Phase I mapping requirements were mapped, including stormwater BMPs, open channel conveyances, interconnections with other MS4s, and initial catchment delineations. Additionally, previously unidentified outfalls were added to the Town's outfall inventory, and the GIS location of all outfalls were improved. In Year 4 and Year 5, the Town continued to make improvements to mapping as a result of Year 5 Catchment Investigation efforts. The connectivity and feature information of stormwater structures within some catchments were improved based on field activities. Two memorandums summarizing the GIS improvements completed by the Town of Durham in Year 3 are available upon request.

The Town has hired a GIS Program Administrator who has been working to improve the Town's stormwater GIS. The Town has made significant progress on their GIS and will continue to make improvements ahead of the Year 10 deadline for Phase II mapping elements.

## Screening of Outfalls/Interconnections

### Dry Weather Screening

Outfalls were inspected for dry weather screening **during this report period** and data can be found in this submission.

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

Number of outfalls/interconnections screened **during this reporting period**: 5

Percent of total known outfalls/interconnections screened **to date (Year 1 – Year 5)**: 48%

The inventory and ranking of outfalls/interconnections was updated in Year 5 and the IDDE Program Plan was revised as a result. The revised inventory and ranking of outfalls/interconnections can be found in this submission.

## Wet Weather Screening

Wet weather outfall/interconnection screening data can be found in this submission.

**Number of outfalls screened *during this reporting period*: 3**

**Percent of total known outfalls/interconnections screened *to date (Year 1 – Year 5)*: 48%**

## Catchment Investigations

Catchment investigations were conducted and data can be found in this submission. **Number of catchment investigations *during this reporting period*: 18**

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)*: 29%**

## IDDE Progress

No illicit discharges were found ***during this reporting period***.

Number of illicit discharges identified ***during this reporting period***: 0 (Catchment investigations during the reporting period identified a potential for X illicit discharges, however, this will need to be confirmed with additional testing during Year 6. Thus, we are reporting 0 for the number of illicit discharges identified during this reporting period.)

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***:

Town of Durham held an IDDE training session for municipal staff on June 9, 2023. In addition, Town of Durham routinely provides IDDE materials and training, including information on how to identify illicit discharges and SSOs are made available to applicable employees in accordance with IDDE Program Plan. Training logs are included in Appendix F of the IDDE Program Plan.

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*: 3

Number of inspections completed *during this reporting period*: 6

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

Town of Durham 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:

Not Applicable.

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

### Ordinance or Regulatory Mechanism

- Town of Durham has a regulatory mechanism(s) consistent with permit requirements 2.3.6.a.ii. Date regulatory mechanism was adopted: Prior to July 1<sup>st</sup> 2021. The regulatory document can be found at: <https://www.ci.durham.nh.us/planning/site-plan-regulations>

### As-built Drawings

Number of as-built drawings received *during this reporting period*: 0

### Street Design and Parking Lots Report

- During Year 4**, Town of Durham 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.
- No updates were recommended to the **Assessment Report** *during this reporting period*.

- No updates were made or planned to be made to **local regulations and/or guidelines during this reporting period.**

### Green Infrastructure Reports

- During Year 4,** Town of Durham 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.
- No updates were made or planned to be made to **local regulations during this reporting period.**

### 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:**
- Town of Durham has identified the remaining permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas and of which are not included in the list below:

List of MS4 Properties: 16 – See below

Street Address	Facility name	Is this property located in the MS4 area?	Impervious Cover Area
50 Piscataqua Road	Wastewater Treatment Facility	Yes	4.19
100 Stone Quarry Drive	DPW	Yes	2.18
6 Meserve Road	Woodridge Park	No	1.29
49 Madbury Road	Library	Yes	0.77
8 Newmarket Road	Town Hall	Yes	0.69
86 Dover Road	Police Department	Yes	0.64
10 Old Piscataqua Road	Churchill Rink	Yes	0.63
8 Old Piscataqua Road	Jackson's Landing	Yes	0.63

Pettee Brook Parking Lot	Pettee Brook Parking Lot	Yes	0.62
Newmarket Road		Yes	0.61
Old Landing Road	Durham Landing	Yes	0.53
46 Dover Road	Dover Pump Station	Yes	0.43
Old Piscataqua Road	Old Piscataqua Road Parking Lot	Yes	0.40
9 Depot Road	Depot Road Parking Lot	Yes	0.33
45 Mill Pond Road	Smith Chapel	Yes	0.33
Oyster River Road	Oyster River Park	Yes	0.27

List of Non-MS4 Properties: 1 – Woodridge Park (see table above)

- Town of Durham has modified or retrofitted the following 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: 0

Street Address	Facility name	Is this property located in the MS4 area?	Impervious Cover Area
50 Piscataqua Road	Wastewater Treatment Facility (2025, 2026, we have preliminary designs)	Yes	4.19
100 Stone Quarry Drive	DPW (BMP's constructed September 2023)	Yes	2.18

List of Non-MS4 Properties: 0

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.

Number of catch basins inspected **during this reporting period:** 129

Number of catch basins cleaned **during this reporting period:** 129

Total volume **or** mass of material removed from **all** catch basins **during this reporting period:** 40 CY

Total number of catch basins within the MS4 system: 642

## 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. Downtown core roadways are swept every weekday in the month of March and twice per week during the remaining 11 months of the year.

Volume of swept material **during this reporting period:** 42 loads or 126 CY

## 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 F and H: 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 **has** a chloride impairment.
  - Fully implemented Salt Reduction Plan *during this reporting period* and can be found at the following website <https://www.ci.durham.nh.us/publicworks/stormwater>  
  
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 this submission. The UNH Technology Transfer Center online tool is non-functional and has been for several years.

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

Not Applicable.

## Nitrogen Impairment (Appendix H)

- ☒ 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.***

### Nitrogen Source Identification Report- Update

#### Structural BMPs

- ☒ The Nitrogen Source Identification Report can be found here <https://www.ci.durham.nh.us/publicworks/stormwater>

The updates to the Nitrogen Source Identification Report can be found in *Section 2: Potential Structural BMPs Report (Year 5)* and include the following:

- 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.

- 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:

Not Applicable.

## 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.

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

Town of Durham 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 Planned for Next Reporting Period

Town of Durham will continue to implement activities in accordance with the permit and SWMP.