

**Year 7 Annual Report**  
**New Hampshire Small MS4 General Permit**  
**NEW PERMITTEES**

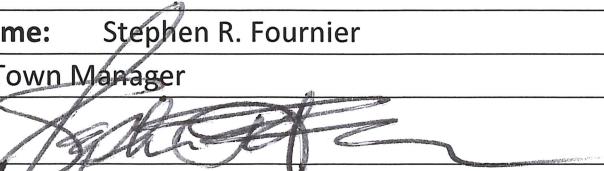
**Reporting Period: July 1, 2024 - June 30, 2025**

**Town of Newmarket**

EPA NPDES Permit Number NHR041040

# Certification of Small MS4 Year 7 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:	Stephen R. Fournier
Title:	Town Manager
Signature:	
	Date: 9/22/25

## Primary MS4 Program Manager Contact Information:

Name:	Lyndsay Butler, PE	Title/Position:	Town Engineer
<b>Department:</b> Department of Public Works / Engineering			
<b>Street Address:</b> 4 Young Lane			
City:	Newmarket	State:	New Hampshire
Email:	LButler@newmarketnh.gov	Phone Number:	603-659-3617 x1804

# 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, 2024, through June 30, 2025**, 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 Newmarket's Stormwater Management Program (SWMP) and Illicit Discharge Detection and Elimination (IDDE) Program documents. Those documents and other pertinent Year 7 information can be found in submission or at the following websites, and will be referred to throughout this report:

<b>SWMP:</b> <a href="https://www.newmarketnh.gov/DocumentCenter/View/283/Stormwater-Management-Program-SWMP">https://www.newmarketnh.gov/DocumentCenter/View/283/Stormwater-Management-Program-SWMP</a>
<b>Date SWMP was Last Updated:</b> June 2025
<b>IDDE Program:</b> See attached Illicit Discharge Detection and Elimination (IDDE) Program document
<b>Updated System Map:</b> See Section 3.0 and Appendix A of attached IDDE Program document
<b>Updated SSO Inventory:</b> See Table 4.1 on page 4-2 of attached IDDE Program document
<b>Updated Inventory and Ranking of Outfalls/Interconnections with System Vulnerability Factors:</b> See Appendix B of attached IDDE Program document
<b>Dry Weather Screening Data:</b> See Appendix D of attached IDDE Program document
<b>Wet Weather Screening Data:</b> Not Applicable
<b>Catchment Investigation Data:</b> See Appendix D of attached IDDE Program document
<b>Illicit Discharge Removal Report:</b> See Table 7.1 on page 7-2 of attached IDDE Program document
<b>Results from additional stormwater or receiving water quality monitoring reports or studies:</b> <a href="https://www.lampreiriver.org/application/files/3117/3660/6932/bacterial_tracking_2024_final_report.pdf">https://www.lampreiriver.org/application/files/3117/3660/6932/bacterial_tracking_2024_final_report.pdf</a>
<b>Updated Nitrogen Source Identification Report:</b> See attached Nitrogen Source Identification Report
<b>PTAP 2025 Nutrient Reduction Report:</b> See attached PTAP Report
<b>Street Sweeping Schedule:</b> See attached Town-Wide Operation and Maintenance (O&M) Program
<b>Updated Phosphorus Source Identification Report:</b> Not Applicable
<b>Lake Phosphorus Control Plan:</b> Not Applicable
<b>Salt or Chloride Reduction Plan:</b> Not Applicable
<b>Annual Salt Usage Report:</b> 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 7 reporting period and can be found on the [New Hampshire Department of Environmental Services \(NHDES\) webpage](#).

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

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

# Receiving Waters/Impaired Waters/TMDL

Have there been any changes to your lists of **receiving waters or impairments** since the NOI was submitted?

Yes

Changes have been made to the lists of receiving waters or impairments since the NOI submission. The following **impairments and/or TMDLs** have been added or delisted:

Water Quality Impaired Waters:

TMDL:

No

There have been no changes to the lists of **receiving waters or impairments** since the NOI submission.

Have there been any changes to your **list of outfalls** since the NOI was submitted?

Yes

Changes have been made to the **list of outfalls** since the NOI submission.

A total of **20** outfall(s) have added.

A total of **0** outfall(s) have removed.

No

The Town of Newmarket has not made changes to the **list of outfalls** since the NOI submission.

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

The Town of Newmarket is working with assistance from consulting engineers to develop a Stormwater Asset Management program and conduct dry weather outfall inspections/screening, which includes data collection, records review and expansion of the stormwater system asset inventory. Through this effort, additional MS4 outfalls have been identified, mapped, and the Town's GIS database has been updated with associated attributes and features.

# Minimum Control Measures

## MCM 1: Public Education

Total number of all MS4 related educational efforts completed ***during this reporting period: 6***

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

No

Yes. The Town of Newmarket created a new position for a full-time Engineer to join Town Staff during Permit Year 5. The new Town Engineer serves as the SWMP Team Coordinator and manages implementation of the SWMP. In review of the existing BMPs under MCM1, it was determined that updated educational materials could be added to cover various stormwater related topics and enhance the public education resources made available by the Town. BMP 1-6 was added to the SWMP to incorporate the general stormwater management educational materials.

### **BMP: 1-1 Grass and Fertilizer**

#### **Description:**

Distribution and promotion of “Green Grass and Clean Water” flyer 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. This activity is part of the Town’s program to meet MCM1 requirements for nitrogen impaired water bodies (Appendix H, Part I). The flyer was posted to the Town website and published in the Town Newsletter.

#### **Targeted Audience:**

Residents; Business, Institutions, and Commercial Facilities

#### **Responsible Department/Parties:**

DPW / Engineering

#### **Measurable Goal(s):**

Lawn care enthusiasts are aware of the potential water quality impacts from fertilizer and improper disposal of grass clippings and learn how to employ proper lawn care management techniques for reducing those impacts.

The Town Newsletter is published weekly and distributed to approximately 1,250 emails. The Town Newsletter is also shared on social media where it reaches an additional 1,000 to 3,000 users on Facebook and Instagram. ***This flyer reached an audience of approx. 3,000 people during this reporting period.***

#### **Goal was achieved.**

**Message Date:** Spring 2025

## **BMP: 1-2 Pet Waste Disposal**

### **Description:**

Distribution and promotion of “Every Drop” or municipally created flyers, mailers, postcards, brochures, or videos with educational information about proper pet waste management, impacts of improper management, and local ordinance. 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. This activity is part of the Town’s program to meet MCM1 requirements for nitrogen impaired water bodies (Appendix H, Part I) and water bodies with a bacteria TMDL (Appendix F, Part II). Post cards and flyers were posted to the Town website, published in the Town Newsletter and posted on the bulletin board in the Town Clerk’s office for viewing when renewing dog licenses.

### **Targeted Audience:**

Residents; Businesses, Institutions, and Commercial Facilities

### **Responsible Department/Parties:**

Engineering; Planning & Community Development

### **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 understand the importance of proper pet waste disposal. If pledges are signed, there will be an increase in awareness and commitment to proper pet waste handling/disposal.

Following is the number of residents that pledged through the PREP “Every Drop” website ***during this reporting period:*** Year 7 = 0

The Town Newsletter is published weekly and distributed to approximately 1,250 emails. The Town Newsletter is also shared on social media where it reaches an additional 1,000 to 3,000 users on Facebook and Instagram. ***This flyer reached an audience of approx. 3,000 people during this reporting period.***

### **Goal was achieved.**

**Message Date:** Spring 2025

## **BMP: 1-3 Disposal of Leaf and Grass Clippings**

### **Description:**

Distribution and promotion of municipally created flyers, brochures, pledges, door hangers, and videos with information about proper yard waste management, impacts of improper management, and options for disposal including drop off at the Transfer Stations. This activity is part of the Town’s program to meet MCM1 requirements for nitrogen impaired water bodies (Appendix H, Part I). The flyer was posted to the Town website and published in the Town Newsletter.

**Targeted Audience:**

Residents; Businesses, Institutions, and Commercial Facilities

**Responsible Department/Parties:**

Engineering

**Measurable Goal(s):**

Residents and business owners are aware of the water quality impacts of dumping yard waste in or near water bodies, understand the importance of proper yard waste disposal and dispose of yard waste using one of the alternative methods outlined in the flyer.

The Town Newsletter is published weekly and distributed to approximately 1,250 emails. The Town Newsletter is also shared on social media where it reaches an additional 1,000 to 3,000 users on Facebook and Instagram. *This flyer reached an audience of approx. 3,000 people during this reporting period.*

**Goal was achieved.**

**Message Date:** Fall 2024

## **BMP: 1-4 Septic System Maintenance**

**Description:**

Distribution and promotion of Get Pumped NH, EPA, and/or municipally created flyers, 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 NHDES. This activity is part of the Town's program to meet MCM1 requirements for water bodies with a bacteria TMDL (Appendix F, Part II). The flyer was posted to the Town website and published in the Town Newsletter.

**Targeted Audience:**

Septic System Owners - Residents; Businesses, Institutions, and Commercial Facilities

**Responsible Department/Parties:**

Engineering

**Measurable Goal(s):**

Residents and business owners are aware of water quality impacts of septic systems, understand the importance of maintaining them, and perform necessary maintenance.

The Town Newsletter is published weekly and distributed to approximately 1,250 emails. The Town Newsletter is also shared on social media where it reaches an additional 1,000 to 3,000 users on Facebook and Instagram. *This flyer reached an audience of approx. 3,000 people during this reporting period.*

**Goal was achieved.**

**Message Date:** September 2024

## **BMP: 1-5 Stormwater Management at Construction Sites – MS4 Fact Sheet**

### **Description:**

- Provide the Construction General Permit (CGP) fact sheets to developers, construction contractors, and other municipal or local organizations to educate them on the EPA 2022 Construction General Permit along with information on the selection, installation, and maintenance of construction related best management practices. Materials/fact sheets were distributed to Developers and Contractors at pre-construction conferences and posted to the Town website.
- Review the construction checklist with developers and construction contractors prior to the beginning of construction projects (pre-construction) to identify responsible parties, erosion control practices, other best management practices, and requirements for the EPA Construction General Permit as appropriate.

### **Targeted Audience:**

Construction/Developers

### **Responsible Department/Parties:**

Engineering; Planning & Community Development

### **Measurable Goal(s):**

Contractors, developers, and municipal or local organizations are made aware of the EPA 2022 Construction General Permit and its associated requirements including that those who wish to be considered a qualified person to conduct inspections must meet EPA training standards. Contractors, developers, and municipal or local organizations are also educated on how to properly select, install, and maintain construction related best management practices.

The Town of Newmarket held 1 pre-construction conference, representing 100% of projects that received planning board approval and began construction ***during this reporting period.***

### **Goal was achieved.**

**Message Date:** On-going activity beginning Spring 2021

## **BMP: 1-6 General Stormwater Management**

### **Description:**

Update the Town website to include information on general stormwater management including lawn care, chemical/fertilizer use, pet waste, yard waste, septic systems, winter road maintenance, pool draining. Materials/fact sheets were posted to the Town website and periodically published in the Town Newsletter.

### **Targeted Audience:**

Residents; Businesses, Institutions, and Commercial Facilities

### **Responsible Department/Parties:**

Engineering; Planning & Community Development

**Measurable Goal(s):**

Update the Town website and track the number of visitors to the website.

Town Staff doesn't have the ability to track the number of visitors to the current website. The Town transitioned to a new website this year and may have the ability to track visits going forward. The Town will consider alternative options for measuring effectiveness for this BMP in future permit years.

**Goal was achieved.**

**Message Date:** On-going activity beginning PY5

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 Newmarket 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 Town makes the Stormwater Management Program (SWMP), Annual Reports, and other NH MS4 General Permit related documents available to the public by posting to the Town website. Documents and records relating to the permit will be retained for 5 years and can be made available to the public at the DPW Facility, upon request. In Permit Year 5, the Town developed a webform for submitting comments on the SWMP and related documents to the SWMP Coordinator and made this webform available to the public.

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

- No
- Yes. The Town of Newmarket made the following changes: Not Applicable.

**Measurable Goal(s):**

No comments were received during this reporting period. Records are maintained.

**Goal was achieved.**

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

There is a grassroots volunteer effort conducting annual roadside cleanups. These cleanups have been supported by various Town departments. There was an organized roadside cleanup event held on April 27, 2025, in which over 35 people participated and 46 bags of trash were collected. It was a rainy day, so participation and bag collection numbers were a bit lower than in recent years. The Town will continue to support these efforts and work with volunteers to expand the program and track success with tangible data.

The Town held a Household Hazardous Waste (HHW) Collection event on August 17, 2024. 140 households participated and the Town collected hazardous liquids, boxes of aerosols and paint related materials and 55 fire extinguishers.

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. See Table 4.1 on page 4-2 of attached IDDE Program document.

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

Number of SSOs identified ***during this reporting period:*** 3

Number of SSOs removed ***during this reporting period:*** 3

## MS4 System Mapping

- MS4 System Map was updated ***during this reporting period:***
  - Percent of Phase 1 elements incorporated into MS4 System Map: **100% of Phase 1 system mapping completed as of June 30, 2025.**
  - Percent of Phase 2 elements incorporated into MS4 System Map: **40% of Phase 2 system mapping completed as of June 30, 2025.**
- MS4 System Map was updated in Year(s) 5 and 6 and there were no updates in Year 7.
- The Town of Newmarket's MS4 System Map is continually updated to incorporate findings and changes from catchment investigations.

Describe any additional details regarding phase 1 and phase 2 MS4 System Mapping requirements, in the box below:

Map of storm sewer system, catchments and related elements is continually updated to incorporate findings and changes from catchment investigations and construction projects.

## 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. See Appendix D of attached IDDE Program document.

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

**Number** of outfalls/interconnections screened ***during this reporting period:*** 24

**Percent** of total known outfalls/interconnections screened ***to date (Year 1 – Year 7):*** 42%

The inventory and ranking of outfalls/interconnections was updated in Year 7 and the IDDE Program document was revised as a result. The revised inventory and ranking of outfalls/interconnections can be found in submission. See Appendix B of attached IDDE Program document.

Describe any additional details regarding dry weather screening requirements, in the box below:

Through the Town's work to develop a Stormwater Asset Management Program, additional MS4 outfalls have been identified, mapped, and the Town's GIS database has been updated with associated attributes/features and electronic outfall inspection forms. Town Staff conducted 15 dry weather outfall inspections/screening. Additionally, the Town of Newmarket partnered with a local engineering consultant to conduct dry weather screening and catchment investigation, with funding from NHDES Clean Water State Revolving Fund (CWSRF) Loan Program, for 9 outfalls/catchments located in a watershed that has been ranked as a "Problem Area". Due to limited staff availability and resources, the Town decided to focus IDDE Program efforts for PY7 on efficiently implementing this program and capitalizing on available funding for planned outfall inspection/screening and catchment investigation within a previously identified "Problem Area". The Town has an executed agreement with a local engineering consultant to continue dry weather outfall inspections/screening for the remaining 33 MS4 outfalls in PY8.

## **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.

*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 7):*** 0%

Describe any additional details regarding wet weather screening requirements, in the box below:

Not Applicable.

## **Catchment Investigations**

- No catchment investigations were completed ***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 ***during this reporting period***, and data can be found in submission.

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

**Number** of catchment investigations ***during this reporting period:*** 9

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.

**Percent of total catchments investigated *to date (Year 1 - Year 7)*: 16%**

Describe any additional details regarding catchment investigations requirements, in the box below:

The Town of Newmarket partnered with a local engineering consultant to conduct dry weather screening and catchment investigation, with funding from NHDES Clean Water State Revolving Fund (CWSRF) Loan Program, for 9 outfalls/catchments located in a watershed that has been ranked as a "Problem Area". Due to limited staff availability and resources, the Town decided to focus IDDE Program efforts for PY7 on efficiently implementing this program and capitalizing on available funding for planned outfall inspection/screening and catchment investigation within a previously identified "Problem Area".

## IDDE Progress

- No illicit discharges were found ***during this reporting period***.
- Illicit discharges were found but not removed ***during this reporting period***.
- Illicit discharges were removed ***during this reporting period*** and the illicit discharges removal report can be found in submission. See Table 7.1 on page 7-2 of attached IDDE Program document.

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

**Number of illicit discharges identified *during this reporting period*: 2**

**Number of illicit discharges removed *during this reporting period*: 2**

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

Total **number** of illicit discharges identified ***since the effective date of the permit (July 1, 2018 – June 30, 2025)***: 4

Total **number** of illicit discharges removed ***since the effective date of the permit (July 1, 2018 – June 30, 2025)***: 4

Describe any additional details regarding illicit discharge requirements, in the box below:

The Town is currently performing investigations when they are notified of potential illicit discharges/connections to the municipal storm drain system. Researchers from UNH, in partnership with the Lamprey River Advisory Committee, are currently monitoring and tracking bacterial contamination in the Lamprey River Watershed. This work has identified the Moonlight Brook watershed tributary to the Lamprey River as a "Problem Area". With this work in mind, the Town has focused IDDE Program efforts in the Moonlight Brook watershed to conduct outfall inspections/screening, catchment investigation, and construction site monitoring.

## Employee Training

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

The Town of Newmarket DPW/Engineering staff were trained using IDDE training videos and hands-on outfall inspection/screening and data collection training. Video and hand-on training topics included collecting data and water samples in the field, analyzing for pertinent parameters as identified in the permit, how to identify an illicit discharge, and general IDDE sampling protocols. Training logs are included in Appendix E of the IDDE Program document.

In addition, the Town of Newmarket 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 document.

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

As previously noted in the Dry Weather Screening section of this report, Town Staff conducted 15 dry weather outfall inspections/screening during this reporting period. Additionally, the Town of Newmarket partnered with a local engineering consultant to conduct dry weather screening and catchment investigation, with funding from NHDES Clean Water State Revolving Fund (CWSRF) Loan Program, for 9 outfalls/catchments located in a watershed that has been ranked as a “Problem Area”. Due to limited staff availability and resources, the Town decided to focus IDDE Program efforts for PY7 on efficiently implementing this program and capitalizing on available funding for planned outfall inspection/screening and catchment investigation within a previously identified “Problem Area”. The Town has an executed agreement with a local engineering consultant to continue dry weather outfall inspections/screening for the remaining 33 known and verified MS4 outfalls in PY8.

## 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*: 2**

**Number of inspections completed *during this reporting period*: 79**

**Number of enforcement actions taken *during this reporting period*: 1**

The Town of Newmarket 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:

There were 79 construction site inspections completed during Permit Year 7. 32 of those inspections were conducted by the Code Enforcement Officer and 47 were site inspections conducted by a third-party engineering consultant.

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

## As-built Drawings

Number of as-built drawings received *during this reporting period*: 2

## Local Regulations Assessment Report

- The **Assessment Report** was evaluated and no updates were recommended *during this reporting period*.
- The **Assessment Report** was evaluated and updates were recommended *during this reporting period*. Following are the recommended updates: No updates recommended. The anticipated date of completion for updates is N/A.
- 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**.

## Street Design, Parking Lots, and Creation of Impervious Cover

- No updates were made or planned to be made to **Local Regulations and/or Guidelines** that affect the creation of imperious cover *during this reporting period*.
- Updates were recommended **and/or** planned to be made to **Local Regulations and/or Guidelines** that affect the creation of imperious cover *during this reporting period*. Following are the recommended updates: No updates recommended. The anticipated date of completion for updates is N/A.
- No updates were made *during this reporting period* because all required **Local Regulation and/or Guideline** updates have been made to make low impact designs allowable as outlined in the Local Regulations Assessment Report.

## Green Infrastructure

- No updates were made or planned to be made to **Local Regulations** regarding green infrastructure practices *during this reporting period*.
- Updates were recommended **and/or** planned to be made to **Local Regulations** regarding green infrastructure practices *during this reporting period*. Following are the recommended **and/or** planned updates: No updates recommended. The anticipated date of completion for updates is N/A.
- 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 Assessment Report.

## Retrofit Properties Inventory

- The Town of Newmarket has identified the permittee-owned properties that **could be** modified or retrofitted with BMPs to mitigate impervious areas and of which are included in the list below:

List of MS4 Properties: Police Department; Town Hall; Beanie Howcroft Field; Newmarket Community Center; Newmarket Historical Society; Snow Dump (Beech St Ext.); 1 Prescott St; Fire Dept./DPW Facility; Trotter Park; Arbor Park; Library; Public Roadways. The complete list of 34 properties evaluated for potential stormwater BMP retrofits is provided in submission.

List of Non-MS4 Properties: The complete list of 34 properties evaluated for potential stormwater BMP retrofits is provided in submission.

- The Town of Newmarket has modified or retrofitted the following MS4 and/or Non-MS4 properties with BMPs to mitigate impervious area that were inventoried as part of 2.3.6.e of the permit. Following is a list of the properties that were modified or retrofitted as well as the type of BMP(s) that were implemented:

List of MS4 Properties: Fire Dept./DPW Facility – Bio-Retention Swale (2023) and High-Rate Biofiltration Unit (2024); Public Roadways [New Rd – Gravel Wetland (2022)]

List of Non-MS4 Properties: Not Applicable.

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:*** 40

**Number** of catch basins cleaned ***during this reporting period:*** 32

Total volume **or** mass of material removed from **all** catch basins ***during this reporting period:*** 5 yd<sup>3</sup>

Total **number** of catch basins within the MS4 system: 320

## 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:*** 416

Volume of swept material ***during this reporting period:*** 186 yd<sup>3</sup>

## Stormwater Pollution Prevention Plan (SWPPP)

The Town of Newmarket has 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:*** 12

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

A transient illicit discharge to the Newmarket MS4 was discovered during a routine SWPPP inspection (03/28/25) at the WWTF. The unauthorized discharge, enforcement action, and mitigation was reported to NHDES and EPA Region 1 and is included in the Illicit Discharge Inventory, Table 7.1 of the IDDE Program document.

## 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 Town-Wide Operation & Maintenance (O&M) Program, which is included as Appendix F of the SWMP. There were no changes to report during Year 7.
- 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:

Messages are made available throughout the year on the Town website. Seasonal stormwater related messages are published in the Town's weekly newsletter when relevant to the time of year.

### 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 in submission.

The Town of Newmarket is utilizing some of the Voluntary Municipal Green SnowPro Certification Program resources and trainings as outlined in the Town of Newmarket's Salt Reduction Plan to reduce their winter salt application and to prevent increased concentrations of chlorides in their community's surface and ground waters.
  - Reported amount of salt applied to all municipally-owned and maintained surfaces by completing the NHDES 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 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 **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

- The Nitrogen Source Identification Report can be found in submission **and** the Town of Newmarket's Nitrogen Control Plan can be found at the following website:  
<https://www.newmarketnh.gov/DocumentCenter/View/349/Nitrogen-Control-PDF>.

The updates to the Nitrogen Source Identification Report can be found in *Section 2: Potential Structural BMPs Report (Year 7)* 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.

### Structural BMPs

- The Town of Newmarket **has not installed** a minimum of one structural BMP(s) as a demonstration project within the drainage area of the water quality limited water or its

tributaries **by the end of this reporting period** because this requirement is **not** due until Year 8.

- The Town of Newmarket has installed a minimum of one structural BMP(s) as a demonstration project within the drainage area of the water quality limited water or its tributaries, **during this reporting period**. The structural BMP(s) was installed in September 2024. The type of structural BMP(s) that was installed was a FocalPoint high-rate biofiltration unit. The Town of Newmarket is reporting the installation of the structural BMP(s) ahead of Year 8 in order to make EPA aware that the requirement has been completed early.
- Structural BMP(s) listed in Attachment 3 to Appendix F already existing or installed in the regulated area by the Town of Newmarket or its agents was tracked and the nitrogen removal by the BMP(s) was estimated consistent with Attachment 3 to Appendix F. The BMP(s) type, total area treated by the BMP(s), the design storage volume of the BMP(s), and the estimated nitrogen removed in mass per year by the BMP(s) were documented in **PTAP 2025 Nutrient Reduction Report** in submission. The total estimated nitrogen removed from the installed BMP(s) is **130.64 lbs/year**.

The Town of Newmarket is utilizing the Pollutant Tracking and Account Project, better known as PTAP, to track nutrient reductions associated with stormwater structural and non-structural best management practices. PTAP was developed by the University of New Hampshire Stormwater Center and New Hampshire Department of Environmental Services utilizing the EPA Region 1 approved performance curves, to provide New Hampshire communities with a way to track their nutrient reductions. PTAP allows the Town of Newmarket the benefit of utilizing a uniform, defensible and consistent method for tracking reductions so that a common, weight-of-evidence based approach can be shared with other entities including EPA, NHDES, and other MS4 communities and interest groups. The consistent and systematic tracking and accounting framework also allows for routine updates when improved science becomes available.

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.
- Permittee **has** a phosphorus 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***.

## **Phosphorus Source Identification Report -Update**

- The Phosphorus Source Identification Report was updated during this reporting period and can be found in submission. The updates to the Phosphorus 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 Phosphorus 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 phosphorus, and metrics associated with individual BMPs.

## ***Structural BMPs***

- The Town of Newmarket **has not installed** a minimum of one structural BMP(s) as a demonstration project within the drainage area of the water quality limited water or its tributaries ***by the end of this reporting period*** because this requirement is **not** due until Year 8.
- The Town of Newmarket has installed a minimum of one structural BMP(s) as a demonstration project within the drainage area of the water quality limited water or its tributaries ***during this reporting period***. The structural BMP(s) was installed on Not Applicable. The type of structural BMP(s) that was installed was Not Applicable. Information regarding the installed BMP(s) can be found in *Section 2: Potential Structural BMPs Report (Year 5) in Part II.1.c.iii* of the Phosphorus Source Identification Report. The Town of

Newmarket is reporting the installation of the structural BMP(s) ahead of Year 8 in order to make EPA aware that the requirement has been completed early.

- Structural BMP(s) listed in Attachment 3 to Appendix F already existing or installed in the regulated area by the Town of Newmarket or its agents was tracked and the phosphorus removal by the BMP(s) was estimated consistent with Attachment 3 to Appendix F. The BMP(s) type, total area treated by the BMP(s), the design storage volume of the BMP(s), and the estimated phosphorus removed in mass per year by the BMP(s) were documented in **PTAP 2025 Nutrient Reduction Report** in submission. The total estimated phosphorus removed from the installed BMP(s) is Not Applicable.

The Town of Newmarket is utilizing the Pollutant Tracking and Account Project, better known as PTAP, to track nutrient reductions associated with stormwater structural and non-structural best management practices. PTAP was developed by the University of New Hampshire Stormwater Center and New Hampshire Department of Environmental Services utilizing the EPA Region 1 approved performance curves, to provide New Hampshire communities with a way to track their nutrient reductions. PTAP allows the Town of Newmarket the benefit of utilizing a uniform, defensible and consistent method for tracking reductions so that a common, weight-of-evidence based approach can be shared with other entities including EPA, NHDES, and other MS4 communities and interest groups. The consistent and systematic tracking and accounting framework also allows for routine updates when improved science becomes available.

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

Not Applicable.

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

- Permittee **does not** have a solids, oil and grease, or metals impairment(s).
- Permittee **has** a solids, oil and grease, or metals impairment(s).
  - Increased street sweeping frequency of all municipal owned streets and parking lots to a schedule that targets areas with potential for high pollutant loads **during this reporting period**. The Town of Newmarket's street sweeping schedule can be found in submission.

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

Not Applicable.

## Chloride TMDL (Appendix F)

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

Permittee **has** a chloride TMDL.

Fully implemented Chloride Reduction Plan can be found in submission.

The Town of Newmarket is utilizing some of the Voluntary Municipal Green SnowPro Certification Program resources and trainings as outlined in the Town of Newmarket's Salt Reduction Plan to reduce their winter salt application and to prevent increased concentrations of chlorides in their community's surface and ground waters.

Reported amount of salt applied to all municipally-owned and maintained surfaces by completing the NHDES Annual Salt Usage reporting form, submitting it to NHDES, and can be found in 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.

## Lake and Pond Phosphorus TMDL (Appendix F)

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

Permittee **has** a lake and pond phosphorus TMDL.

### ***Lake Phosphorus Control Plan Reporting Requirements***

The LPCP was submitted in a previous annual report.

The LPCP can be found in submission.

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

Not Applicable.

Baseline phosphorus export rate required from LPCP Area (lbs/year) [A]: Not Applicable

Total phosphorus reduction from all implemented nonstructural controls **during this reporting period** (lbs/year) [B]: Not Applicable

Total phosphorus reduction from all structural controls installed **during this reporting period and all previous years** (lbs/year) [C]: Not Applicable

Phosphorus load increase due to development incurred since baseline loading was calculated in lbs/year **[D]**: Not Applicable

Current phosphorus export rate from the LPCP Area in lbs/year [=A-(B+C)+D from above]: Not Applicable

### ***Non-Structural Controls***

- The Town of Newmarket has **not** implemented all selected Lake Phosphorus Control Plan **non-structural control measure(s) during this reporting period** and has **not** documented the measure(s) and their phosphorus reductions. The non-structural control measure(s) that have been implemented are recorded within the Town of Newmarket's written Lake Phosphorus Control Plan which can be found in submission.
- The Town of Newmarket has implemented all selected Lake Phosphorus Control Plan **non-structural control measure(s) during this reporting period** and documented the measure(s) and their phosphorus reductions. The **non-structural control measure(s)** are noted within the Town of Newmarket written Lake Phosphorus Control Plan which can be found in submission.

### ***Structural Controls***

- The Town of Newmarket has **not** installed any **structural control measure(s)** within the Lake Phosphorus Control Plan area **during this reporting period or during previous reporting periods**. Therefore the Town of Newmarket has not documented the location, phosphorus reduction in mass/year, and date of last completed maintenance and inspection for each installed control within the written Lake Phosphorus Control Plan.
- The Town of Newmarket has installed **structural control measure(s)** within the Lake Phosphorus Control Plan area **during this reporting period or during previous reporting periods**. The Town of Newmarket has documented the location, phosphorus reduction in weight/year, and date of last completed maintenance and inspection for each installed structural control measure(s). The documented information for each of the installed structural control measure(s) are noted within the written Lake Phosphorus Control Plan which can be found in submission.

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

Not Applicable.
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# 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 at the following website:  
[https://www.lampreyyriver.org/application/files/3117/3660/6932/bacterial\\_tracking\\_2024\\_final\\_report.pdf](https://www.lampreyyriver.org/application/files/3117/3660/6932/bacterial_tracking_2024_final_report.pdf).

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:

The Lamprey River Advisory Committee (LRAC) contracted Dr. Steve Jones from the Dept. of Natural Resources and the Environment at the University of New Hampshire (UNH) to monitor and track bacterial contamination in the Lamprey River Watershed. One of the goals of this work is to provide local and state public health and public works personnel with data to help focus resources and effort on problem areas where water pollution may pose a threat to restrict use. The project report from 2024 summarizing monitoring efforts and results can be found at this link provided above. Town of Newmarket staff got involved during Permit Year 5 and 6 to support this on-going monitoring effort and strategically select additional sample sites within the Moonlight Brook watershed, tributary to the Lamprey River.

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

The Town of Newmarket 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

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