

**Year 6 Annual Report**  
**New Hampshire Small MS4 General Permit**  
**NEW PERMITTEES**

**Reporting Period: July 1, 2023 - June 30, 2024**  
**Town of Newmarket**

EPA NPDES Permit Number NHR041040

# Certification of Small MS4 Year 6 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."

<b>Printed Name:</b>	Stephen R. Fournier
<b>Title:</b>	Town Manager
<b>Signature:</b>	
	<b>Date:</b> 09/30/2024

## Primary MS4 Program Manager Contact Information:

<b>Name:</b>	Lyndsay Butler, PE	<b>Title/Position:</b> Town Engineer
<b>Department:</b>	Department of Public Works / Engineering	
<b>Street Address:</b>	4 Young Lane	
<b>City/Town:</b>	Newmarket	<b>State:</b> New Hampshire <b>Zip Code:</b> 03857
<b>Email:</b>	LButler@newmarketnh.gov <b>Phone Number:</b> 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, 2023, through June 30, 2024**, in accordance with the Permit.

The Notice of Intent (NOI) can be found at the following 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 Plan (SWMP) and Illicit Discharge Detection and Elimination (IDDE) Plan. Those documents and other pertinent Year 6 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/engineering/pages/stormwater-management-program-swmp">https://www.newmarketnh.gov/engineering/pages/stormwater-management-program-swmp</a>
<b>Date SWMP was Last Updated:</b> June 2024
<b>IDDE Program Plan:</b> See attached Illicit Discharge Detection and Elimination Program document
<b>Updated System Map</b> See Section 3.0 on page 3-1 of attached IDDE Program document
<b>Progress on Completion of System Map</b> See 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:</b> See Appendix B of attached IDDE Program document
<b>Dry Weather Screening Data:</b> None provided at this time, see description of IDDE Program progress in MCM3: Illicit Discharge Detection and Elimination section of this annual report.
<b>Wet Weather Screening Data:</b> Not Applicable
<b>Catchment Investigation Data:</b> Not Applicable
<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.lampreyriver.org/application/files/4816/7424/5935/2022_bacterial_tracking_FINAL_report.pdf">https://www.lampreyriver.org/application/files/4816/7424/5935/2022_bacterial_tracking_FINAL_report.pdf</a> . <a href="https://www.lampreyriver.org/application/files/2317/0541/4342/2023_bact_tracking_FINAL_report.pdf">https://www.lampreyriver.org/application/files/2317/0541/4342/2023_bact_tracking_FINAL_report.pdf</a>
<b>Town-Owned Properties Retrofit Inventory:</b> See attached memorandum dated May 2022
<b>Nitrogen Source Identification Report:</b> See attached Nitrogen Source Identification Report (NSIR)
<b>PTAP 2024 Nutrient Reduction Report:</b> See attached PTAP BATT Report
<b>Street Sweeping Schedule:</b> See attached Town-Wide Operation and Maintenance (O&M) Program
<b>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 6 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 **15** 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, 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 2,156 emails, with an average of 1,207 recipients opening it/reading it. The Town Newsletter is also shared on social media where it reaches an additional 5,884 users on Facebook and Instagram. ***This flyer reached an audience of approx. 7,000 people during this reporting period.***

**Goal was achieved.**

**Message Date:** Spring 2024

## **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 6 = **0**

The Town Newsletter is published weekly and distributed to approximately 2,156 emails, with an average of 1,207 recipients opening it/reading it. The Town Newsletter is also shared on social media where it reaches an additional 5,884 users on Facebook and Instagram. ***The municipally created flyer reached an audience of approx. 7,000 people during this reporting period.***

### **Goal was achieved.**

**Message Date:** Spring 2024

## **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 2,156 emails, with an average of 1,207 recipients opening it/reading it. The Town Newsletter is also shared on social media where it reaches an additional 5,884 users on Facebook and Instagram. ***The municipally created flyer reached an audience of approx. 7,000 people during this reporting period.***

**Goal was achieved.**

**Message Date:** Fall 2023

## **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 (NASH) 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 2,156 emails, with an average of 1,207 recipients opening it/reading it. The Town Newsletter is also shared on social media where it reaches an additional 5,884 users on Facebook and Instagram. ***The municipally created flyer reached an audience of approx. 7,000 people during this reporting period.***

**Goal was achieved.**

**Message Date:** September 2023

## **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 2 pre-construction conferences, 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 is transitioning to a new website in the coming months 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 21, 2024, in which over 50 people participated and 106 bags of trash were collected. The Town will continue to support these efforts and work with volunteers to expand the program and track success with tangible data.

The Town holds a Household Hazardous Waste (HHW) Collection event every two years. There was no HHW Collection event held 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.

# 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:*** 1

Number of SSOs removed ***during this reporting period:*** 2

## MS4 System Mapping

- Updated **Phase 1** system map due in Year 5 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.

- Updated **Phase 2** system map (due in Year 13):

Percent of Phase 2 map completed: **100% of known and verified system assets have been incorporated as of June 30, 2024.**

Provide additional status information regarding your map:

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

## 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.

*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 6):*** 0%

The inventory and ranking of outfalls/interconnections was updated in Year 6 and the IDDE Program Plan 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.

## **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.

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

Percent of total known outfalls/interconnections screened ***to date (Year 1 – Year 6):*** 0%

Provide additional information regarding your dry **and/or** wet weather screening:

The Town of Newmarket is working with assistance from consulting engineers to develop a Stormwater Asset Management program, which includes data collection, records review and expansion of the stormwater system asset inventory. This work also includes development of electronic inspection forms (e.g. outfall inspection, inlet inspection, manhole inspection) that will be used in conducting dry weather outfall inspections/screenings. Through this effort, additional MS4 outfalls have been identified, mapped, and the Town's GIS database has been updated with associated attributes and features. Additionally, the Town of Newmarket is partnering 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 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 PY6 on establishing a solid foundation (more detailed stormwater system asset inventory) for efficiently implementing this program and capitalizing on available funding for planned outfall inspection/screening and catchment investigation projects.

## **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.

Number of catchment investigations ***during this reporting period:*** 0

Percentage of total catchments investigated ***to date (Year 1 - Year 6):*** 0%

Provide additional information regarding catchment investigations: Not Applicable.

## 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.

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

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, 2024)***: 2

Total number of illicit discharges removed ***since the effective date of the permit (July 1, 2018 – June 30, 2024)***: 2

Provide additional information regarding IDDE progress requirements:

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 monitoring data in mind, during Permit Year 6 Town staff got involved to support this ongoing monitoring effort and strategically select additional sample sites within the Moonlight Brook watershed to bracket segments of the receiving water for focusing/prioritizing outfall inspection and screening efforts.

## Employee Training

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

Town of Newmarket DPW/Engineering staff were trained using IDDE training videos and a written IDDE SOP created by UNH, the City of Dover, and NHDES. Video 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 Screening of Outfalls/Interconnections section of this report, the Town of Newmarket is working with assistance from consulting engineers to develop a Stormwater Asset Management program, which includes data collection, records review and expansion of the stormwater system asset inventory. This work also includes development of electronic inspection forms (e.g. outfall inspection, inlet inspection, manhole inspection) that will be used in conducting dry weather outfall inspections/screenings. Through this effort, additional MS4 outfalls have been identified, mapped, and the Town's GIS database has been updated with associated attributes and features. Additionally, the Town of Newmarket is partnering 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 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 PY6 on establishing a solid foundation (more detailed stormwater system asset inventory) for efficiently implementing this program and capitalizing on available funding for planned outfall inspection/screening and catchment investigation projects. The Town intends to proceed with these planned projects and efficiently complete dry weather inspections/screenings at 100% of known and verified outfalls during Permit Year 7.

## 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:*** 64

Number of enforcement actions taken ***during this reporting period:*** 3

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 64 construction site inspections completed during Permit Year 6. 42 of those inspections were foundation inspection (with no written report) conducted by the Code Enforcement Officer, 12 were site inspections conducted by the Code Enforcement Officer, and 10 were site inspections conducted by a third-party engineering consultant.

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

## Ordinance or Regulatory Mechanism

- The Town of Newmarket has a regulatory mechanism(s) consistent with permit requirements.
  - Date regulatory mechanism(s) was adopted: Last updated May 24, 2023.
  - The regulatory document can be found at:  
[https://library.municode.com/nh/newmarket/codes/code\\_of\\_ordinances](https://library.municode.com/nh/newmarket/codes/code_of_ordinances).
- The Town of Newmarket has not drafted **or** adopted a regulatory mechanism(s) consistent with permit requirements.

## As-built Drawings

Number of as-built drawings received ***during this reporting period:*** 1

## Street Design and Parking Lots Report

- The Town of Newmarket developed a report ***during this reporting period*** 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.
- No updates were 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 **and/or** planned updates: Not Applicable. The anticipated date of completion for updates is: Not Applicable.
- 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 Report

- The Town of Newmarket developed a report ***during this reporting period*** 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.**

- Updates were recommended **and/or** planned to be made to **Local Regulations during this reporting period**. Following are the recommended **and/or** planned updates: Not Applicable. The anticipated date of completion for updates is: Not Applicable.
- 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 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. 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.

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: 20***

Number of catch basins cleaned ***during this reporting period: 17***

Total volume **or** mass of material removed from **all** catch basins ***during this reporting period: 4.5 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: 221***

Volume of swept material ***during this reporting period: 216 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***

Number of corrective actions taken ***during this reporting period: 5***

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

2 corrective actions were taken at the DPW/Fire & Rescue Facility and 3 corrective actions were taken at the WWTF.

## 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 6.

- 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.
  - Updated Salt Reduction Plan as necessary ***during this reporting period*** and can be found in submission.

The Municipal Green SnowPro Certification Program's (Program) rules and regulations were approved and adopted in 2024. The Program anticipates they will be ready to accept voluntary applications from municipalities in fall of 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 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

- 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/sites/g/files/vyhlif3536/f/pages/final\\_newmarket\\_nitrogen\\_control\\_plan\\_0.pdf](https://www.newmarketnh.gov/sites/g/files/vyhlif3536/f/pages/final_newmarket_nitrogen_control_plan_0.pdf).

### 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 ***by the end of this reporting period.*** The type of structural BMP(s) that was installed was a gravel wetland. 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 2024 Nutrient Reduction Report** in submission. The total estimated nitrogen removed from the installed BMP(s) is **110.34 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.

- 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 the Town of Newmarket **Tracking Program** in submission. The total estimated nitrogen removed from the installed BMP(s) is 0 lbs/year.
- No BMPs were installed **by the end of this reporting period** because the requirement to plan and install a minimum of one structural BMP is **not due until Year 8**. 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.
- 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

- The Phosphorus Source Identification Report can be found in submission.

### ***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 ***by the end of this reporting period.*** The type of structural BMP(s) that was installed was Not Applicable. 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 2024 Nutrient Reduction Report** in submission. The total estimated phosphorus removed from the installed BMP(s) is 0 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.

- 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 the Town of Newmarket **Tracking Program** in submission. The total estimated phosphorus removed from the installed BMP(s) is 0 lbs/year.
- No BMPs were installed **by the end of this reporting period** because the requirement to plan and install a minimum of one structural BMP is **not due until Year 8**. The total estimated phosphorus 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.

## 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 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 Municipal Green SnowPro Certification Program's (Program) rules and regulations were approved and adopted in 2024. The Program anticipates they will be ready to accept voluntary applications from municipalities in fall of 2024.

Reported amount of salt applied to all municipally-owned and maintained surfaces by completing the New Hampshire DES 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.

### **Year 5 Lake Phosphorus Control Plan Reporting Requirements**

The Town of Newmarket has **not fully completed the Year 5 requirements** of the written Lake Phosphorus Control Plan **during this reporting period**. The partially completed plan can be found in submission. The plan is available to the public at the DPW Facility at 4 Young Lane, Newmarket, NH 03857. The Town of Newmarket has completed the following sections of the written Lake Phosphorus Control Plan **during this reporting period**:

- Description of Planned Non-structural Controls
- Description of Planned Structural Controls
- Description of Operation and Maintenance (O&M) Program
- Implementation Schedule
- Cost and Funding Source Assessment

The Town of Newmarket plans to complete the outstanding items noted above.

The Town of Newmarket **completed** a written Lake Phosphorus Control Plan **during the Year 5 reporting period** and was reported in the Town of Newmarket Year 5 Annual Report. The completed plan can be found in submission. The plan is available to the public at the DPW

Facility at 4 Young Lane, Newmarket, NH 03857. The completed written Lake Phosphorus Control Plan contains the following information:

- Description of Planned Non-structural Controls
  - Description of Planned Structural Controls
  - Description of Operation and Maintenance (O&M) Program
  - Implementation Schedule
  - Cost and Funding Source Assessment
- The Town of Newmarket **completed** a written Lake Phosphorus Control Plan **during this reporting period**. The Town of Newmarket utilized the resources developed by the New Hampshire Stormwater Coalition. Resources, including the written Lake Phosphorus Control Plan template, were not developed until after the Year 5 reporting period. The completed plan can be found in submission. The plan is available to the public at the DPW Facility at 4 Young Lane, Newmarket, NH 03857. The completed written Lake Phosphorus Control Plan contains the following information:
- Description of Planned Non-structural Controls
  - Description of Planned Structural Controls
  - Description of Operation and Maintenance (O&M) Program
  - Implementation Schedule
  - Cost and Funding Source Assessment

### ***Year 6 Lake Phosphorus Control Plan Reporting Requirements***

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.

# 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 websites:  
[https://www.lampreyriver.org/application/files/4816/7424/5935/2022\\_bacterial\\_tracking\\_FINAL\\_report.pdf](https://www.lampreyriver.org/application/files/4816/7424/5935/2022_bacterial_tracking_FINAL_report.pdf).  
[https://www.lampreyriver.org/application/files/2317/0541/4342/2023\\_bact\\_tracking\\_FINAL\\_report.pdf](https://www.lampreyriver.org/application/files/2317/0541/4342/2023_bact_tracking_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. Project reports from 2022 and 2023 summarizing monitoring efforts and results can be found at this links 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.