

Year 5 Annual Report

New Hampshire Small MS4 General Permit

EXISTING PERMITTEES

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

GREENLAND

EPA NPDES Permit Number NHR041009

Certification of Small MS4 Year 5 Annual Report

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

Printed Name: Paul Sanderson	
Title: Town Administrator	
Signature:	Date:

Authorized Representative:

The authorization letter is:

Attached to this document (document name listed below):

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Publicly available at the website:

www.greenland-nh.com

Primary MS4 Program Manager Contact Information:

Name: Paul Sanderson	Title/Position: Town Administrator		
Department:			
Street Address: 11 Town Square			
City: Greenland	State: New Hampshire	Zip Code: 03840	
Email: psanderson@greenland-nh.com	Phone Number: 603-431-7111		

Small MS4 Authorization

The following annual report, which serves as a self-assessment, is intended to document the activities undertaken over the **reporting period from July 1, 2022, through June 30, 2023**, in accordance with the Permit.

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

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

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

SWMP: MS-4 Stormwater Resources Greenland NH (greenland-nh.com) and 11 Town Square, Greenland, NH
Date SWMP was Last Updated: June 2022
IDDE Program Plan: MS-4 Stormwater Resources Greenland NH (greenland-nh.com)
Updated System Map
Progress on Completion of System Map
Updated SSO Inventory: Not applicable because we do not have sanitary sewer
Updated Inventory and Ranking of Outfalls/Interconnections:
Dry Weather Screening Data:
Wet Weather Screening Data:
Catchment Investigation Data:
Illicit Discharge Removal Report:
Results from additional stormwater or receiving water quality monitoring reports or studies:

Salt Reduction Plan:
Annual Salt Usage Report: submitted to NH DES at HPV-QZVK-04ZY6 6/28/23

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

Street Sweeping Schedule:
[MS-4 Stormwater Resources](#)
[| Greenland NH \(greenland-nh.com\)](#)

Chloride Reduction Plan:
Not applicable
Annual Salt Usage Report:
Not applicable

- *Merrimack*
- *Newton*
- *Sandown*

Lake Phosphorus Control Plan: Not applicable

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

Self-Assessment

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

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

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

Receiving Waters/Impaired Waters/TMDL

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

Yes

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

Water Quality Impaired Waters:

TMDL:

No

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

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

Not applicable

Minimum Control Measures

MCM 1: Public Education

Total number of all MS4 related educational efforts completed *during this reporting period*: 3

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

No

Yes. Greenland changes due to.

BMP: Grass and Fertilizer

Outreach Resources:

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

Description:

Distribution and promotion of “Green Grass and Clean Water” **and/or** municipally created flyers, mailers, postcards, videos **and/or** social media posts. “Green Grass and Clean Water” materials were produced by UNH Cooperative Extension, NH Sea Grant, and NHDES outlining simple recommendations to keep lawns healthy while reducing water quality impacts - including proper fertilizer techniques and disposal of grass clippings.

Greenland Campaign (Display at event, public presentation etc.)

Targeted Audience:

Residential **and/or** Business and Institutions

Responsible Department/Parties:

The Town Administrator is responsible for this MS4 outreach effort.

Measurable Goal(s):

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

Following are the number of flyers, mailers, **and/or** postcards that were distributed *during this reporting period*:

Year 5 = Number of flyers = 0

Year 5 = Number of mailers = 0

Year 5 = Number of postcards = 0

Following is the number of impressions the social media posts received **during this reporting period:**

Year 5 = Number of impressions = 0

Following is the number of views the videos received **during this reporting period:**

Year 5 = Number of views = 0

Greenland Campaign Metrics (Location and number of people who viewed display at event, number of people who attended the public presentation, etc.) **during this reporting period = 0.**

Goal was not achieved.

Message Date:

BMP: Pet Waste Disposal

Outreach Resources:

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

Description:

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

Greenland Campaign involving display of pet waste flyers on town website [MS-4 Stormwater Resources | Greenland NH \(greenland-nh.com\)](#)

Targeted Audience:

Residents - Pet Owners

Responsible Department/Parties:

Town Administrator

Measurable Goal(s):

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

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

Year 5 = 0

Following are the number of flyers, mailers, postcards, **and/or** brochures that were distributed **during this reporting period:**

Year 5 = Number of flyers= 0

Year 5 = Number of mailers= 0

Year 5 = Number of postcards= 0

Year 5 = Number of brochures = 0

Following is the number of views the videos received **during this reporting period:**

Year 5 = Number of views = 0

Greenland Campaign Metrics (Location and number of people who viewed display at event, number of dog waste stations installed, etc.) during this reporting period is number of people who viewed the material on the town website, which number is unclear.

Goal was partially achieved.

Message Date: continual

BMP: Disposal of Leaf and Grass Clippings

Outreach Resources:

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

Description:

There has been no campaign of distribution and promotion of municipally created flyers, brochures, pledges, door hangers, and videos with messaging about impacts from yard waste to waterbodies, alternatives to dumping yard waste, and laws against dumping yard waste near or in waterbodies.

Greenland has implemented a composting effort/program by allowing the public to drop off compostable materials at the municipally owned transfer station property. This material is accepted two days per week on a year-round basis and was accepted during the entire reporting period.

Greenland Campaign (Display at event, public presentation etc.)

Targeted Audience:

Residential

Responsible Department/Parties:

The Town Administrator is responsible for this MS4 outreach effort through efforts of staff at the transfer station.

Measurable Goal(s):

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

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

Year 5 = The number of flyers = 0

Year 5 = The number of brochures = 0

Year 5 = The number of door hangers = 0

Following is the number of residents that signed a yard waste pledge **during this reporting period:**

Year 5 = Number of residents = 0

Following is the number of views the videos received **during this reporting period:**

Year 5 = Number of views = 0

Greenland Composting Campaign Metrics (Number of the composting bins provided or sold, amount of compostable material received from residents at municipally-owned properties, or number of composting related outreach materials disperse, etc.) **during this reporting period. Is available at [MS-4 Stormwater Resources | Greenland NH \(greenland-nh.com\)](#)**

Greenland Campaign Metrics (Location and number of people who viewed display at event, number of people who attended the public presentation, etc.) **during this reporting period.**

Goal was partially achieved.

Message Date: The availability of composting at the transfer station is continuous throughout the reporting period.

BMP: Septic System Maintenance

Outreach Resources:

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

Description:

Distribution and promotion of Get Pumped NH, EPA, **and/or** municipally created brochures, letters, videos **and/or** social media posts educating New Hampshire homeowners with septic systems on how to identify, locate and maintain those systems. Get Pumped NH is a collaborated effort between the New Hampshire Association of Septage Haulers (NHASH) and the New Hampshire Department of Environmental Services (NHDES).

Greenland Campaign Metrics (Location and number of people who viewed display at event, number of people who attended the public presentation, etc.).

Targeted Audience:

Septic System Owners

Responsible Department/Parties:

The Town Administrator is responsible for this MS4 outreach effort through management of the town website, found at [MS-4 Stormwater Resources | Greenland NH \(greenland-nh.com\)](http://MS-4 Stormwater Resources | Greenland NH (greenland-nh.com))

Measurable Goal(s):

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

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

Year 5 = Number of brochures = 0

Year 5 = Number of letters = 0

Following is the number of impressions the social media posts received **during this reporting period:**

Year 5 = Number of impressions =

Following is the number of views the videos received **during this reporting period:**

Year 5 = Number of views = 0

Greenland Campaign Metrics (Location and number of people who viewed display at event, etc.) **during this reporting period.**

Goal was partially achieved.

Message Date: The message on the town website is maintained continuously through the reporting period.

BMP: Industrial Outreach

Outreach Resources:

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

Description:

- Greenland does not have any industrial facilities located within the NH MS4 regulated area that are permitted under the NPDES Multi-Sector General Permit. This has been documented in Greenland’s NOI and SWMP that this audience is absent from the municipality. No education or outreach efforts were conducted **during this reporting period** for the industrial audience as a result.
- Provided an outreach letter and Industrial Facilities Fact Sheet to the permittees that fall under the Multi-Sector General Permit and whose facilities are located within the NH MS4

regulated area (and outside of the NH MS4 regulated area) to educate them on both the new and updated requirements within the EPA 2021 Multi-Sector General Permit, and the 2017 NH MS4 General Permit.

Targeted Audience:

Industrial facilities regulated under the Multi-Sector General Permit located within the regulated NH MS4 area and outside of the NH MS4 regulated area.

Responsible Department/Parties:

The Town Administrator is responsible for this MS4 outreach effort

Measurable Goal(s):

Operators and managers of industrial facilities are made aware of the updates and changes made to the EPA 2021 Multi-Sector General Permit including the requirements to additional monitoring, updated benchmark thresholds and monitoring schedules, monitoring of impaired waters, and specific additional monitoring depending on the industry sector. In addition, noted the overlapping requirements with the NH MS4 General Permit.

Following are the number of outreach letters **and/or** fact sheets that were distributed to municipal or local organizations ***during this reporting period:***

Year 5 = Number of letters = 0

Year 5 = Number of fact sheets = 0

Goal was not achieved.

Message Date:

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

A new Town Administrator was appointed in October 2022, midpoint of the reporting period, who is learning of these requirements, and commits to improvement in the next reporting period. The 2022-2023 budgeting year did not adequately provide funding for these efforts, which funding will be sought in the 2024 year.

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 Greenland's SWMP.
- Kept records relating to the permit available for 5 years and made available to the public.

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

Description:

The Stormwater Management Program (SWMP) was publicly reviewed at Greenland to enter information on how the SWMP was made available to the public. Documents and records relating to the permit are retained and available for 5 years to the public at Town Hall, 11 Town Square, Greenland, NH **and/or** on website.

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

No

Yes. Greenland made the following changes:

Measurable Goal(s):

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

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

XXXX Public involvement or participation opportunities are ancillary to daily operations.

Greenland has conducted the following public involvement or participation opportunities: Household Hazardous Waste Collection Days were conducted on November 11, 2022, and April 21, 2023, in conjunction with the City of Portsmouth NH.

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

Details of the results of the Hazardous Waste Collection days are posted at [MS-4 Stormwater Resources | Greenland NH \(greenland-nh.com\)](#)

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:

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

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

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

MS4 System Mapping

Updated system map due in Year 2 as necessary:

Provide additional status information regarding your map:

XX Map of storm sewer system and associated outfalls was completed in Year 2 and there have been no updates since that time.

Map of storm sewer system and associated outfalls was updated in Year(s) and there were no updates in Year 5.

Map of storm sewer system and associated outfalls was updated in Year(s) and there were updates in Year 5.

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

Screening of Outfalls/Interconnections

Dry Weather Screening

No outfalls were inspected for dry weather screening **during this report period.**

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

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

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

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

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

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

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:

Number of outfalls screened during this reporting period: 0

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

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 .

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

Percentage of total catchments investigated to date (Year 1 - Year 5): 100%

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 .

Number of illicit discharges identified during this reporting period: 0

Number of illicit discharges removed during this reporting period: 0

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

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

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

Employee Training

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

Greenland 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 F of the IDDE Program Plan.

In addition, Greenland routinely provides IDDE materials and training, including information on how to identify illicit discharges and SSOs are made available to applicable employees in accordance with IDDE Program Plan.

Greenland held an IDDE training session for municipal staff on June 28, 2022. In addition, Greenland routinely provides IDDE materials and training, including information on how to identify illicit discharges and SSOs are made available to applicable employees in accordance with IDDE Program Plan. Training logs are included in Appendix F of the IDDE Program Plan.

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

This goal is incomplete during the reporting period. Greenland does not have any public works staff, and performs all work in the MS4 using contracted services. A new contractor has been hired in 2023, and training efforts will be conducted during the 2023-2024 reporting period.

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*: see below

Number of inspections completed *during this reporting period*: see below

Number of enforcement actions taken *during this reporting period*: see below

Greenland 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:

This goal has been partially met. The metrics of inspection are available at [MS-4 Stormwater Resources | Greenland NH \(greenland-nh.com\)](#). All subdivision and commercial site review projects are inspected during construction by the building inspector and the town's consulting engineering firm for compliance to plan approvals, field modifications, and responses to reports of deficiencies.

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

Ordinance or Regulatory Mechanism

- Greenland has a regulatory mechanism(s) consistent with permit requirements 2.3.6.a.ii.
Date regulatory mechanism was adopted: Prior to July 1st 2021 or ##date adopted. The regulatory document can be found at: ##website link
- Greenland has not drafted or adopted a Post-Construction Ordinance. The issue was brought to the attention of the Planning Board at the September 2023 work session. The proposal will be drafted in conjunction with the Town's consulting engineering firm and the contractor used by the Town for professional planning services.

As-built Drawings

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

Street Design and Parking Lots Report

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

Green Infrastructure Reports

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

Retrofit Properties Inventory

- Identified permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious cover in **Year 4**. The following was completed **during the reporting period**: none
- Identified permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious cover **during this reporting period** because Greenland did not complete this requirement during Year 4. The following was also completed **during the reporting period**:

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

List of MS4 Properties: ##List of permittee-owned properties within the MS4 regulated area.

List of Non-MS4 Properties: ##List of permittee-owned properties outside the MS4 regulated area.

- Greenland 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 as part of the permit in Year 4 **or** Year 5. Following is a list of the properties that were modified or retrofitted **during this reporting period:**

List of MS4 Properties: ##List of permittee-owned properties within the MS4 regulated area.

List of Non-MS4 Properties: ##List of permittee-owned properties outside the MS4 regulated area.

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

The permittee properties identified previously are being examined by a Facilities Committee incident to a Capital Improvement Plan pending in the Planning Board. Substantial additional data about the use and condition of the properties has been and continues to be obtained in order to determine the most appropriate usage of the facilities and recommended physical changes. These reports will be compiled and made available in the 2023-2024 reporting year.

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:

No actions were taken because no catch basin sumps were 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:**

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

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

Total number of catch basins within the MS4 system:

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:** ##Number

Volume of swept material **during this reporting period:** 8 cubic yards

Mass of swept material **during this reporting period:** ##Number Units

Stormwater Pollution Prevention Plan (SWPPP)

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

Number of site inspections completed for **during this reporting period:** 2

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

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

No corrective actions necessary.

##Corrective actions taken and note the facility or facilities.

Operations and Maintenance (O & M) Programs

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

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

Updated inventory of all permittee owned facilities as necessary.

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

A review of all permittee owned facilities was completed and the inventory has been updated. The SWMP has been updated to reflect this and includes the following additional facilities:

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:

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:

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 **and/or** at the following website ##website link.

The Municipal Green SnowPro Certification Program bill was passed during the 2021 legislation session. NHDES developed rules and regulations *during this reporting period*. Final approval of the rules and regulations is anticipated in 2023/2024.

- Reported amount of salt applied to all municipally owned and maintained surfaces by completing the New Hampshire DES Annual Salt Usage reporting form and submitting it to NHDES, and can be found in submission HPV-QZVK-04ZY6. 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:

Nitrogen Impairment (Appendix H)

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

Nitrogen Source Identification Report- Update

Structural BMPs

- The Nitrogen Source Identification Report can be found in submission **and/or** at the following website ##website link.
The updates to the Nitrogen Source Identification Report can be found in *Section 2: Potential Structural BMPs Report (Year 5)* and include the following:
 - 1.) Completed the evaluation of all permittee-owned properties identified as presenting retrofit opportunity or areas for structural BMP installation under permit part 2.3.6.d as identified in the Nitrogen Source Identification Report update that are within the drainage area of the impaired water or its tributaries. The report includes the next planned infrastructure, resurfacing, or redevelopment activity planned for the property (if applicable) or planned project; Estimated cost of redevelopment or retrofit BMPs, and; Engineering and regulatory feasibility of redevelopment or retrofit BMPs.
 - 2.) Completed a listing of planned structural BMPs and a plan and schedule for implementation.
 - 3.) Method of tracking and accounting for nitrogen, and metrics associated with individual BMPs.

- Structural BMPs listed in Attachment 3 to Appendix F already existing or installed in the regulated area by Greenland or its agents was tracked and the nitrogen removal by the BMP was estimated consistent with Attachment 3 to Appendix F. The BMP type, total area treated by the BMP, the design storage volume of the BMP, and the estimated nitrogen removed in mass per year by the BMP were documented in *Section 2: Potential Structural BMPs Report (Year 5)* of the Nitrogen Source Identification Report. The total estimated nitrogen removed from the installed BMP(s) is.
- No BMPs were installed **during this reporting period**. The implementation schedule is outlined in *Section 2: Potential Structural BMPs Report (Year 5)* of the Nitrogen Source Identification Report. The total estimated nitrogen removed from the installed BMP(s) is 0 lbs/year.

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

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

Structural BMPs

- The Phosphorus Source Identification Report was updated during this reporting period and can be found in submission **and/or** at the following website **##website link**. 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 listed in Attachment 3 to Appendix F already existing or installed in the regulated area by Greenland or its agents was tracked and the phosphorus removal by the BMP was estimated consistent with Attachment 3 to Appendix F. The BMP type, total area treated by the BMP, the design storage volume of the BMP, and the estimated phosphorus removed in mass per year by the BMP were documented in *Section 2: Potential Structural BMPs Report (Year 5)* of the Phosphorus Source Identification Report. The total estimated phosphorus removed from the installed BMP(s) is **##lbs/year**.
- No BMPs were installed **during this reporting period**. The implementation schedule is outlined in *Section 2: Potential Structural BMPs Report (Year 5)* of the Phosphorus Source Identification Report. 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:

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**. Greenland street sweeping schedule can be found in submission **and/or** at ##website.

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

Greenland understands the need to increase the frequency of street sweeping efforts and will implement a revised schedule in the next reporting year.

Chloride TMDL (Appendix F)

- Permittee **does not** have a chloride TMDL.
- Permittee **has** a chloride TMDL.
 - Fully implemented Chloride Reduction Plan **during this reporting period** and can be found in submission **and/or** at the following website ##website link.

The Municipal Green SnowPro Certification Program bill was passed during the 2021 legislation session. NHDES developed rules and regulations **during this reporting period**. Final approval of the rules and regulations is anticipated in 2023/2024.
 - Reported amount of salt applied to all municipally owned and maintained surfaces by completing the New Hampshire DES Annual Salt Usage reporting form, submitting it to NHDES, and can be found in submission HPV-QZVK-04ZY6. The UNH Technology Transfer Center online tool is non-functional and has been for several years.

This goal is incomplete during the reporting period. The Town has changed its winter maintenance provider and contracted with a new year-round provider who is fully GreenPro certified and has a duty to report all salt usage in a more meaningful way. The Town has adopted new winter maintenance policies which will be reported in the 2023-2034 reporting year.

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.

Greenland completed a written Lake Phosphorus Control Plan **during the reporting period**. The completed plan includes items 1-8 in Appendix F, Table F-3 and can be found. The plan is available to the public at

During Years 1-4, Greenland completed the following items 1-4 of the Lake Phosphorus Control Plan and as outlined in Appendix F, Table F-3: 1.) Legal analysis, 2.) Funding source assessment, 3.) Define LPCP scope (LPCP area), and, 4.) Calculated baseline phosphorus, allowable phosphorus load and phosphorus reduction requirement. The documents can be found:

Greenland is utilizing the resources developed by the New Hampshire Stormwater Coalition. Resources have been developed but the written Lake Phosphorus Control Plan template was not available **during this reporting period**. The New Hampshire Stormwater Coalition is in the process of finalizing the written Lake Phosphorus Control Plan template during the summer of 2023 and is offering a workshop on August 21, 2023, for permittees to obtain information on how to fill out the template and associated spreadsheets. Greenland will complete a written Lake Phosphorus Control Plan during Year 6 and provide an update on the progress in the Year 6 Annual Report. Greenland 's plan will be available to the public once it is completed at.

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

Additional Required Information

Monitoring or Study Results

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

- Not applicable.
- The results from additional reports or studies are in submission **and/or** at the following website
If such monitoring or studies were conducted on your behalf or if monitoring or studies conducted by other entities were reported to you, a brief description of the type of information gathered or received shall be described below:

##Brief description of the type of information gathered or received.

Description of Any Changes in Identified BMPs or Measurable Goals

Greenland has implemented activities in accordance with the permit and outlined in the SWMP. All BMPs and measurable goals outlined in the SWMP are appropriate.

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

Activities Planned for Next Reporting Period

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

Annual Report Submission

Your completed Annual Report and all associated documents must be sent to EPA by September 28, 2023. It is optional to send your completed Annual Report to NHDES as well.

Your Annual Report can be submitted either by email or mail:

Submittal Method	EPA	NHDES (Optional)
Email (preferably in pdf with all attachments as separate documents)	stormwater.reports@epa.gov	Deborah.Loiselle@des.nh.gov
Mail (postage)	Newton Tedder US EPA– 06-4 5 Post Office Square, Suite 100 Boston, MA 02109	Deborah Loiselle Watershed Management Bureau 29 Hazen Drive; PO Box 95 Concord, NH 03302-0095

Certification of Small MS4 Year 5 Annual Report

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

Printed Name: Paul Sanderson	
Title: Town Administrator	
Signature: <i>Paul Sanderson Town Administrator</i>	Date: 9-27-23

Authorized Representative:

The authorization letter is:

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

- Publicly available at the website:

www.greenland-nh.com

Primary MS4 Program Manager Contact Information:

Name: Paul Sanderson	Title/Position: Town Administrator	
Department:		
Street Address: 11 Town Square		
City: Greenland	State: New Hampshire	Zip Code: 03840
Email: psanderson@greenland-nh.com	Phone Number: 603-431-7111	