Year 6 Annual Report

New Hampshire Small MS4 General Permit

Reporting Period: July 1, 2023 - June 30, 2024

University of New Hampshire

EPA NPDES Permit Number NHR042001

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."

Printed Name: William Janelle	
Title: Associate Vice President – UNH Facilities	
Signature: 	Date: 09/27/24

Authorized Representative:

The authorization letter is:

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

☒ Publicly available at the website:

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

Primary MS4 Program Manager Contact Information:

Name: William Powers	Title/Position: Utilities Distribution Superintendent	
Department: Facilities – Energy and Utilities		
Street Address: 6 Leavitt Lane		
City: Durham	State: New Hampshire	Zip Code: 03824
Email: will.powers@unh.edu	Phone Number: (603)815-2257	

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 (document name or web address):

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

Compliance activities have been identified and described in University of New Hampshire'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:

SWMP: See attached submission
Date SWMP was Last Updated: 06/14/2024
IDDE Program Plan: See attached submission
Updated System Map: See attached submission
Progress on Completion of System Map: Phase I complete
Updated SSO Inventory: See IDDE Program Plan, pg. 6
Updated Inventory and Ranking of Outfalls/Interconnections: See IDDE Program Plan, pg. 25
Dry Weather Screening Data: See IDDE Program Plan, Attachment A
Wet Weather Screening Data: See IDDE Program Plan for schedule of completion.
Catchment Investigation Data: See IDDE Program Plan pg. 11
System Vulnerability Factors: See IDDE Program Plan Attachment B
Illicit Discharge Removal Report: N/A, no new Illicit Discharges were found during this Permit Year.
Results from additional stormwater or receiving water quality monitoring reports or studies: Not Applicable
PTAP 2024 Nutrient Reduction Report: See attached submission
Salt Reduction Plan: https://www.unh.edu/facilities/about/energy-utilities/storm-water-management
Annual Salt Usage Report: See attached submission
Updated Nitrogen Source Identification Report: See attached submission.

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.

Impairment(s)		
☒ Bacteria/Pathogens	☒ Chloride	☒ Nitrogen
☐ Phosphorus	☐ Solids/Oil/Grease (Hydrocarbons)/Metals	
TMDL(s)		
☐ Bacteria and Pathogens	☐ Chloride	☐ 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 8 outfall(s) have been added.

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

☐ No

University of New Hampshire 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:

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.

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 University created flyers. "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. These materials are made available at Dimond Library, as well as at "U Day", an annual event representing all communities at the University of New Hampshire.

Targeted Audience:

Residential, business, and institutional.

Responsible Department/Parties:

UNH Facilities

Measurable Goal(s):

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

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

Year 6 = 100 flyers

Approximately 50 students and town residents engaged with staff members or viewed the public display at U-Day ***during this reporting period.***

Goal was achieved.

Message Date: UNH U-Day: 09/07/2023, materials available year-round at Dimond Library

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

Targeted Audience:

Residents - Pet Owners

Responsible Department/Parties:

UNH Facilities

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

Year 6 = 100 flyers

Goal was achieved.

Message Date: UNH U-Day: 09/07/2023, materials available year-round at Dimond Library.

BMP: Disposal of Leaf and Grass Clippings

Outreach Resources:

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

Description:

Distribution and promotion of Rake It or Leaf It? 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.

Materials are distributed annually at UNH U-Day and available year-round at Dimmond Library.

Targeted Audience:

Residential, Business, and Institutional

Responsible Department/Parties:

UNH Facilities

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 6 = 100 brochures

Goal was achieved.

Message Date: UNH U-Day: 09/07/2023, materials available year-round at Dimond Library.

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 Is It Flushable? educating New Hampshire homeowners with septic systems on how to identify, locate and maintain those systems. Get Pumped NH is a collaborated effort between the New Hampshire Association of Septage Haulers (NHASH) and the NHDES.

Targeted Audience:

Septic System Owners

Responsible Department/Parties:

UNH Facilities

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 6 = 40 brochures

Goal was achieved.

Message Date: UNH U-Day: 09/07/2023, materials available year-round at Dimond Library.

BMP: Construction/Developers Outreach

Outreach Resources:

Construction/developers related letter and fact sheets found on the MCM #1 webpage of the NH MS4 website.

Description:

☒ Provide the Construction General Permit (CGP) outreach letter and 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.

☒ 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:

UNH Facilities

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.

Following is the number of fact sheets that were distributed to contractors, developers, and municipal or local organizations ***during this reporting period***:

Year 6 = 4 CGP fact sheets

Year 6 = 4 BMP fact sheets

Following is the number of outreach letters that were distributed to contractors, developers, and municipal or local organizations ***during this reporting period***:

Year 6 = 10 letters

University of New Hampshire held 12 pre-construction meetings, representing 100% of projects that received approval and began construction ***during this reporting period*.**

Goal was achieved.

Message Date: Message is distributed to contractors and developers on a continual basis as new projects are bid and awarded.

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 UNH SWMP.

☒ Kept records relating to the permit 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 the UNH EcoTaskforce – Watershed Subcommittee meetings. Documents and records relating to the permit are retained and available for 5 years to the public at the following web page:

https://www.unh.edu/facilities/about/energy-utilities/storm-water-management

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

☒ No.

☐ Yes.

Measurable Goal(s):

Input was received and records are maintained.

Goal was achieved.

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

Public involvement or participation opportunities are ancillary to daily operations.

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.

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 **Phase 1** system map due in Year 2 as necessary:

Provide additional status information regarding your map:

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

☒ Updated **Phase 2** system map (due in Year 10):

Percent of Phase 2 map completed: 80% 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)***: 100%

The inventory and ranking of outfalls/interconnections was not updated during Year 6 because outfalls/interconnections were not inspected.

Wet Weather Screening

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

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

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

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

Catchment Investigations

☐ No catchment investigations were conducted ***during this report period***. Catchment investigations include investigations associated with Problem, High Priority, and Low Priority Outfalls/Interconnections within the MS4 regulated area.

☒ Catchment investigations were conducted, data can be found in the IDDE Program Plan, pg. 11

Number of catchment investigations ***during this reporting period***: 10. 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 6)****:* 0%

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.

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

Employee Training

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

University of New Hampshire Facilities 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, UNH Facilities 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.

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

Wet weather sampling due in Year 7 has not been completed therefore Catchment Investigation data is limited to Dry Weather Screening, SVF identification, and visual manhole inspections.

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***: 4

Number of inspections completed ***during this reporting period***: 68

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

University of New Hampshire works closely with contractors to address environmental concerns for the least environmental impact.

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

Not applicable

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

Ordinance or Regulatory Mechanism

☒ University of New Hampshire has a regulatory mechanism(s) consistent with permit requirements.

Date regulatory mechanism(s) was adopted: July 1st 2021. The regulatory document can be found at: https://scholars.unh.edu/facilities/

☐ University of New Hampshire 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***: 0

Street Design and Parking Lots Report

☒ The **Assessment Report** was evaluated and no updates were recommended ***during this reporting period***.

☐ The **Assessment Report** was evaluated and updates were recommended ***during this reporting period***. Following are the recommended updates:

☒ No updates were made ***during this reporting period*** because all required updates have been made to make low impact designs allowable as outlined in the **Assessment Report**.

☒ No updates were made 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:

☒ 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 Reports

☒ The **Assessment Report** was evaluated and no updates were recommended ***during this reporting period***.

☐ The **Assessment Report** was evaluated and updates were recommended ***during this reporting period***. Following are the recommended updates:

☒ No updates were made ***during this reporting period*** because all required updates have been made to make green infrastructure practices allowable as outlined in the **Assessment Report**.

☒ No updates were made or planned to be made to **Local Regulations** ***during this reporting period***.

☐ Updates were made to the **Local Regulations** ***during this reporting period***. Progress includes updating the ordinance, regulation **and/or** code.

☒ 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

☒ University of New Hampshire has identified the remaining 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:

Retrofit Priority	Location	Retrofit Priority	Location
1	Gables Lot	22	Edgwood Visitor Lot
2	Lot S	23	Lot T
3	Mast Rd Lot	24	O'Kane Satellite Loop
4	Moiles Lot	25	Horse Stables Lot
5	Lot M	26	Barton/Cole Lot
6	6 Leavitt Lane	27	Forestry Building Driveway
7	Mill Rd Lot	28	Old Dairy Barn Driveway
8	Contractor Lot	29	Horticulture Farm
9	Strafford Lot	30	Grounds and Events Lot
10	Fairchild Dairy	31	Lot P
11	9 Leavitt Lane	32	Waterworks Lot
12	PBS Back Lot	33	Scott/Smith Lot
13	Lot F	34	Nesmith Lot
14	Woodsides Access Loop	35	Field House North Lot
15	Forestry Building Lot	36	Ritzman Lot
16	Farm Machinery	37	Putnam Lot
17	Grounds and Events Yard	38	Whittemore Ctr Service Rd
18	Thompson Sawmill	39	Chase O.E. Service Rd
19	Hamel Rec Lot	40	Leewood Orchards
20	Mathes Lot	41	Printing Services
21	Fire Station Courtyard		

List of Non-MS4 Properties: **Not Applicable.**

☒ University of New Hampshire has modified or retrofitted the following MS4 properties with BMPs to mitigate impervious area that were inventoried as part of 2.3.6.e of the permit. Following is a list of the properties that were modified or retrofitted as well as the type of BMP(s) that were implemented:

List of MS4 Properties:

Date Installed	Property	BMP Type
5/1/2024	Huddleston Hall	Filtration Chamber

List of Non-MS4 Properties: **Not Applicable**

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

Not Applicable

MCM 6: Good Housekeeping

Catch Basin Cleaning

☒ Stored and disposed of catch basin cleanings so they did not discharge to receiving waters.

☒ Report on the actions taken if a catch basin sump is more than 50% full during two consecutive routine inspections/cleaning events:

A schedule for catch basin cleaning has been established with the goal of ensuring that a catch basin should not be more than 50% full.

Number of catch basins inspected ***during this reporting period***: 335

Number of catch basins cleaned ***during this reporting period***: 245

Total volume **or** mass of material removed from **all** catch basins ***during this reporting period***: 22.34 Tons

Total number of catch basins within the MS4 system: 728

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***: 42 lane miles

Volume of swept material ***during this reporting period***: 30 cubic yards

Mass of swept material ***during this reporting period***: N/a

Stormwater Pollution Prevention Plan (SWPPP)

University of New Hampshire 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***: 36

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

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

No corrective actions necessary.

Operations and Maintenance (O & M) Programs

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

- ☒ Implemented all maintenance procedures for permittee owned facilities in accordance with O&M programs.
- ☒ Updated inventory of all permittee owned facilities as necessary.

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

Not Applicable

Chloride Impairment (Appendix H)

☐ Permittee **does not** have a chloride impairment.

☒ Permittee **has** a chloride impairment.

☒ Fully implemented Salt Reduction Plan which 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- Update

Structural BMPs

☒ The Nitrogen Source Identification Report was reviewed and there were no updates required ***during this reporting period*** because there were no revisions. The Nitrogen Source Identification Report can be found in submission.

☐ The Nitrogen Source Identification Report was ***updated during this reporting period*** and can be found in submission. An updated list of the planned structural BMPs and a plan and schedule for implementation can be found in *Section 2: Potential Structural BMPs Report (Year 5) part I.1.c.ii* of the Nitrogen Source Identification Report.

☐ University of New Hampshire 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.***

☐ University of New Hampshire 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, ***but the structural BMP was installed after the end of this reporting period.***

☒ University of New Hampshire 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.*** UNH has installed the following types of structural BMP's on the Durham Campus: **Permeable Pavement, Infiltration Basins & Trenches, Sediment Filter Chambers, Bioretention, Retention, Sub-Surface Gravel Wetlands, and Water Quality Swales.** Information regarding the installed BMP(s) can be found in *Section 2: Potential Structural BMPs Report (Year 5) in Part I.1.c.iii* of the Nitrogen Source Identification Report.

☒ Structural BMP(s) listed in Attachment 3 to Appendix F already existing or installed in the regulated area by University of New Hampshire 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** found in submission. The total estimated nitrogen removed from the installed BMP(s) is **279.39 lbs. per year.**

University of New Hampshire is utilizing the Pollutant Tracking and Account Project, better known a**s** 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 University of New Hampshire 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 University of New Hampshire 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 **Municipal Tracking Program** in submission. The total estimated nitrogen removed from the installed BMP(s):

☐ No BMPs were installed ***during this reporting period***. The implementation schedule is outlined in *Section 2: Potential Structural BMPs Report (Year 5) in Part I.1.c.i* of the Nitrogen Source Identification Report. The total estimated nitrogen removed from the installed BMP(s):

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

Not Applicable

Phosphorus Impairment (Appendix H)

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

☐ Permittee **has** a phosphorus impairment.

- ☐ Distributed an annual message that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release fertilizers ***during this reporting period***.
- ☐ Distributed an annual message encouraging the proper management of pet waste, including noting any existing ordinances where appropriate ***during this reporting period.***
- ☐ Distributed an annual message encouraging the proper disposal of leaf litter ***during this reporting period***.
- ☐ Increased street sweeping frequency of all municipal owned streets and parking lots subject to Permit part 2.3.7.d.iii to a minimum of two times per year (spring and fall) ***during this reporting period***.
- ☐ Increased street sweeping frequency of all municipal owned streets and parking lots subject to Permit part 2.3.7.d.iii to a minimum of one time per year (spring) and implemented a fall leaf litter collection program in lieu of post-drop street sweeping ***during this reporting period.***

Phosphorus Source Identification Report- Update

Structural BMPs

- ☐ The Phosphorus Source Identification Report was reviewed and there were no updates required ***during this reporting period*** because there were no revisions. The Phosphorus Source Identification Report can be found in submission**.**
- ☐ The Phosphorus Source Identification Report was ***updated during this reporting period*** and can be found in submission. An updated list of the planned structural BMPs and a plan and schedule for implementation can be found in *Section 2: Potential Structural BMPs Report (Year 5) part II.1.c.ii* of the Phosphorus Source Identification Report.
- ☐ University of New Hampshire 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.*** UNH plans to install a structural BMP(S) on:

☐ University of New Hampshire 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, ***but the structural BMP was installed after the end of this reporting period.*** The structural BMP(s) was installed on: The type of structural BMP(s) that was installed was: Information regarding the installed BMP(s) can be found in *Section 2: Potential Structural BMPs Report (Year 5) in Part II.1.c.iii* of the Phosphorus Source Identification Report.

☐ University of New Hampshire 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: Information regarding the installed BMP(s) can be found in *Section 2: Potential Structural BMPs Report (Year 5) in Part II.1.c.iii* of the Phosphorus Source Identification Report.

☐Structural BMP(s) listed in Attachment 3 to Appendix F already existing or installed in the regulated area by UNH 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: lbs/year.

UNH is utilizing the Pollutant Tracking and Account Project, better known a**s** 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 UNH 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 UNH 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 **##MUNICIPAL Tracking Program** in submission**.** 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) in Part II.1.c.i* of the Phosphorus Source Identification Report. The total estimated phosphorus removed from the installed BMP(s) is: 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.*** University of New Hampshires 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 which 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

☐ University of New Hampshire 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: UNH 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

UNH plans to complete the outstanding items noted above by:

☐ University of New Hampshire **completed** a written Lake Phosphorus Control Plan ***during the Year 5 reporting period*** and was reported in the UNHYear 5 Annual Report. The completed plan can be found in submission. The plan is available to the public at: 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

☐ University of New Hampshire **completed** a written Lake Phosphorus Control Plan ***during this reporting period***. UNH 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 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**]:

Total phosphorus reduction from all implemented nonstructural controls **during this reporting period** (lbs/year) [**B**]:

Total phosphorus reduction from all structural controls installed **during this reporting period and all previous years** (lbs/year) [**C**]:

Phosphorus load increase due to development incurred since baseline loading was calculated in lbs/year [**D**]:

UNH is utilizing the resources developed by the New Hampshire Stormwater Coalition. Resources have been developed but the **phosphorus load increase due to development incurred since baseline loading** was not calculated **during this reporting period**. The New Hampshire Stormwater Coalition is in the process of calculating the **phosphorus load increase due to development incurred since baseline loading** and will be available during Year 7. UNH will provide an update on the progress in the Year 7 Annual Report.

Current phosphorus export rate from the LPCP Area in lbs/year **[=A-(B+C)+D from above**]:

Non-Structural Controls

☐ UNH 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 UNH's written Lake Phosphorus Control Plan which can be found in submission.

☐ UNH 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 UNH written Lake Phosphorus Control Plan which can be found in submission.

UNH is utilizing the Pollutant Tracking and Account Project, better known a**s** PTAP, to track nutrient reductions associated with 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 UNH 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 Controls

☐ UNH 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 UNH 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.

☐ UNH has installed **structural control measure(s)** within the Lake Phosphorus Control Plan area **during this reporting period or during previous reporting periods**. UNH 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**.**

UNH is utilizing the Pollutant Tracking and Account Project, better known a**s** PTAP, to track nutrient reductions associated with 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 UNH the benefit of utilizing a uniform, defensible and consistent method for tracking reductions so that a common, weight of evidence based approach can be shared with other entities including EPA, NHDES, and other MS4 communities and interest groups. The consistent and systematic tracking and accounting framework also allows for routine updates when improved science becomes available.

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

Not Applicable

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.

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

Not applicable

Description of Any Changes in Identified BMPs or Measurable Goals

University of New Hampshire 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

University of New Hampshire will continue to implement activities in accordance with the permit and SWMP.