

Year 5 Annual Report

New Hampshire Small MS4 General Permit

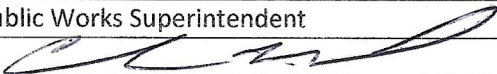
Reporting Period: July 1, 2022 - June 30, 2023

Town of New Castle

EPA NPDES Permit Number NHR041022

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: Chris Robillard	
Title: Public Works Superintendent	
Signature: 	Date: 9/28/23

Authorized Representative:

The authorization letter is:

Attached to this document (document name listed below):

MS4 Authorized Representative Letter

Publicly available at the website:

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Primary MS4 Program Manager Contact Information:

Name: Chris Robillard	Title/Position: Public Works Superintendent		
Department: Public Works			
Street Address: 49 Main St			
City: New Castle	State: New Hampshire	Zip Code: 03854	
Email: publicworks@newcastlenh.org	Phone Number: 603-766-3613		

Small MS4

Authorization

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

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

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

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

SWMP: <https://www.newcastlenh.org/home/storm-water>

Date SWMP was Last Updated: 06/19/2023

IDDE Program Plan: See Attached Submission.

Updated System Map: See Attached Submission.

Progress on Completion of System Map: See Attached Submission.

Updated SSO Inventory: Incorporated in IDDE Program Plan in Submission.

Updated Inventory and Ranking of Outfalls/Interconnections: See Attached Submission.

Dry Weather Screening Data: Not Applicable.

Wet Weather Screening Data: Not Applicable.

Catchment Investigation Data: Not Applicable.

Illicit Discharge Removal Report: Not Applicable.

Results from additional stormwater or receiving water quality monitoring reports or studies: Not Applicable.

Updated Nitrogen Source Identification Report: See Attached Submission.

Updated Phosphorus Source Identification Report: Not Applicable

Street Sweeping Schedule: Not Applicable

Chloride Reduction Plan: Not Applicable

Annual Salt Usage Report Not Applicable

Lake Phosphorus Control Plan: Not Applicable

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

Self-Assessment

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

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

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

Receiving Waters/Impaired Waters/TMDL

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

Yes

Town of New Castle 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

Town of New Castle 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*: 4

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

No

Yes. Town of New Castle made changes due to ##Reason changes were made.

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:

Town of New Castle distributed educational materials related to yard waste and fertilizer use in its quarterly "Island Items" newsletter.

Targeted Audience:

Residential and Business

Responsible Department/Parties:

Public Works Department

Measurable Goal(s):

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

The Island Items Newsletter was distributed through the Town's website via email. There are over 500 subscribers to this newsletter, equaling over half of the resident population during this reporting period.

Goal was achieved.

Message Date: May 2023

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:

Town of New Castle distributed educational materials related to yard waste and fertilizer use in its quarterly "Island Items" newsletter.

Targeted Audience:

Residents - Pet Owners

Responsible Department/Parties:

Public Works Department

Measurable Goal(s):

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

The Island Items Newsletter was distributed through the Town's website via email. There are over 500 subscribers to this newsletter, equaling over half of the resident population during this reporting period.

Goal was achieved.

Message Date: May 2023

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:

Town of New Castle distributed educational materials related to yard waste and fertilizer use in its quarterly "Island Items" newsletter.

Targeted Audience:

Residential and Business

Responsible Department/Parties:

Public Works Department

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.

The Island Items Newsletter was distributed through the Town's website via email. There are over 500 subscribers to this newsletter, equaling over half of the resident population during this reporting period.

Goal was achieved.

Message Date: May 2023

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:

Town of New Castle mailed brochures to all residences that have a septic system along with a letter outlining the importance of regular septic system maintenance.

Targeted Audience:

Septic System Owners

Responsible Department/Parties:

Public Works Department

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 = 119 of brochures

Year 5 = 119 of letters

Goal was achieved.

Message Date: January 2023

BMP: Industrial Outreach

Outreach Resources:

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

Description:

Town of New Castle does not have any industrial facilities located within the NH MS4 regulated area that are permitted under the NPDES Multi-Sector General Permit. This has

been documented in Town of New Castle'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:

Public Works Department

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 = 0 of letters

Year 5 = 0 of fact sheets

Goal was achieved.

Message Date: Not Applicable.

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

The Town of New Castle mistakenly believed that it had a waiver from compliance with the 2017 NH Small MS4 Permit based on population size. Upon confirming the Town's status regarding the permit, the Town submitted an NOI on December 19, 2022. As a result, this is the Town's first annual report, and the Town continues to strive toward complying with all Year 1-5 requirements under the permit.

MCM 2: Public Participation

- Provided an opportunity for public participation in review and implementation of SWMP and complied with State Public Notice requirements as described in the Town of New Castle 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 a Board of Selectmen's meeting on June 5, 2023. Documents and records relating to the permit are retained and available for 5 years to the public at town hall and at <https://www.newcastlenh.org/home/storm-water>

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

No

Yes. Town of New Castle made the following changes: Not Applicable

Measurable Goal(s):

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

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

Town of New Castle has conducted the following public involvement or participation opportunities:

The Town of New Castle participated with the Town of Hampton for a Household Hazardous Waste Day on September 17, 2022.

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*: 1

Number of SSOs removed *during this reporting period*: 1

MS4 System Mapping

- Updated system map due in Year 2 as necessary:

Provide additional status information regarding your map:

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

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 5)*: 0%

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

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 and/or at the following website.

Number of outfalls screened *during this reporting period*:

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 in submission.

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)*: 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 **and/or** at the following website.

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)*: 0

Total number of illicit discharges removed *since the effective date of the permit (July 1, 2018 – June 30, 2023)*: 0

Employee Training

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

Town of New Castle 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, Town of New Castle 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:

Not Applicable.

MCM 4: Construction Site Stormwater Runoff Control

The following tasks are in progress in accordance with the permit:

Number of site plan reviews completed *during this reporting period*: Data Not Available.

Number of inspections completed *during this reporting period*: Data Not Available.

Number of enforcement actions taken *during this reporting period*: Data Not Available.

Town of New Castle 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:

Historically, these metrics had not been tracked. This data will be incorporated in the Year 6 annual report.

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

Ordinance or Regulatory Mechanism

- Town of New Castle has a regulatory mechanism(s) consistent with permit requirements 2.3.6.a.ii.
- Town of New Castle has not adopted a Post-Construction Ordinance. The town is working on ordinance language through the Planning Board and will present a Post-construction Ordinance at the May 2024 town meeting.

As-built Drawings

Number of as-built drawings received *during this reporting period*: Data Not Available.

Street Design and Parking Lots Report

- During this reporting period*, Town of New Castle 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*.
- No updates were made or planned to be made to **local regulations and/or guidelines** *during this reporting period*.

Green Infrastructure Reports

- During this reporting period*, Town of New Castle 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.
- No progress was made *during this reporting period* towards making green infrastructure practices allowable as outlined in the **Assessment Report**.
- Progress was made *during this reporting period* as outlined in the **Assessment Report**. Town of New Castle has made progress on Green Roofs, Infiltration Practices, **and/or** Water Harvesting. Progress includes updating the ordinance, regulation, code.
- 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*.

- 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

- 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*:
- Identified permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious cover *during this reporting period* because Town of New Castle did not complete this requirement during Year 4. The following was also completed *during the reporting period*:
- Town of New Castle 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: Town Hall/Public Safety, Dog Park, Public Works, Recreation Center/Library

List of Non-MS4 Properties: None

- Town of New Castle 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 Non-MS4 Properties:

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:
No actions were taken because no catch basin sumps were more than 50% full during two consecutive routine inspections/cleaning events.

Number of catch basins inspected *during this reporting period*: 10

Number of catch basins cleaned *during this reporting period*: 0

Total volume or mass of material removed from all catch basins *during this reporting period*: 0 cubic yards

Total number of catch basins within the MS4 system: approximately 48

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*: 11 miles

Volume of swept material *during this reporting period*: 5 cubic yards

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*: 0

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

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

No corrective actions necessary.

Operations and Maintenance (O & M) Programs

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

- Implemented all maintenance procedures for permittee owned facilities in accordance with O&M programs.
- Updated inventory of all permittee owned facilities as necessary.
All permittee owned facilities, including an inventory, are included in our SWMP. There were no changes to report during Year 5.
- Implemented program for MS4 infrastructure maintenance to reduce the discharge of pollutants as outlined in the SWMP.
- Inspected all permittee owned treatment structures (excluding catch basins) as outlined in the SWMP.
- Enclosed all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt as outlined in the SWMP.

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

Catch basin cleaning to be done spring 2024 due to issues sourcing adequate access equipment for the town's narrow, historic streets in the village area.

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 *during this reporting period* and can be found in submission **and/or** at the following website.

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

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 Town of New Castle 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 ##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 Nitrogen Source Identification Report. The total estimated nitrogen removed from the installed BMP(s) is 0 lbs/year.

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

Not Applicable.

Phosphorus Impairment (Appendix H)

- Permittee **does not** have a phosphorus impairment.
- 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. 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 Town of New Castle 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 0 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**. Town of New Castle 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:

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.

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. 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:

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.
 - Town of New Castle 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 in submission.
 - During Years 1-4**, Town of New Castle 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 in submission.

Town of New Castle 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. Town of New Castle will complete a written Lake Phosphorus Control Plan during Year 6 and provide an update on the progress in the Year 6 Annual Report. Town of New Castle 's plan will be available to the public once it is completed.

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.

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:

Description of Any Changes in Identified BMPs or Measurable Goals

Town of New Castle has implemented activities in accordance with the permit and outlined in the SWMP. All BMPs and measurable goals outlined in the SWMP are appropriate.

Activities Planned for Next Reporting Period

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