

**New Hampshire Small MS4 General Permit  
Annual Report  
Town of Durham NH  
Permit Year 2**

EPA NPDES Permit Number NHR041000

# Certification

**Authorized Representative:**

The authorization letter is:

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

- Publicly available at the website:

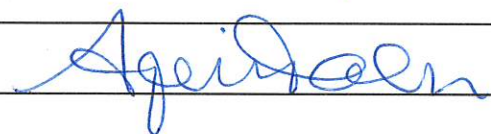
<https://www.ci.durham.nh.us/publicworks/stormwater>

“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

*Apriltalton, P.E. Town Engineer*

Signature



Date

*9/28/20*

**Primary MS4 Program Manager Contact Information:**

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Position/Title: Public Works Director

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# Small MS4 Authorization

The following annual report is intended to document the activities undertaken over the reporting period from July 1, 2019 through June 30, 2020 in accordance with the Notice of Intent (NOI). The 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 Durham's Stormwater Management Plan (SWMP) and Illicit Discharge Detection and Elimination Plan (IDDE). Those documents can be found at the following website and will be referred to throughout this report:

SWMP: <https://www.ci.durham.nh.us/publicworks/stormwater>

IDDE: <https://www.ci.durham.nh.us/publicworks/stormwater>

## **MCM1 - Public Education and Outreach**

**\*\*Note – Due to the COVID-19 pandemic some public education and outreach was affected. While, fliers and handouts were not provided or mailed, messages were shared electronically via the Town’s website, Facebook Page, or Friday Updates community email system.**

### **Year 2 Activities**

#### **BMP: Grass and Fertilizer**

**Document Name and/or Web Address:**

Green Grass & Clear Water Brochure: [https://www4.des.state.nh.us/nh-ms4/?page\\_id=54](https://www4.des.state.nh.us/nh-ms4/?page_id=54).

**Description:**

Promotion of four-fold flyer produced by UNH Cooperative Extension and NH Sea Grant outlining simple recommendations to keep lawns healthy while reducing water quality impacts - including proper fertilizer techniques and disposal of grass clippings.

Promoted Seabrook-Hamptons Estuary Alliance webinar on June 15, 2020, titled “Green Grass, Clear Water” co-hosted with Julia Peterson of UNH Sea Grant / Cooperative Extension

**Targeted Audience:**

Residential &/or Business and Institutions

**Measurable Goal(s):**

Lawn care enthusiast residents 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 materials distribution methods and numbers and change in visits to UNH Cooperative Extension or municipal stormwater webpages.

**Message Date:**

Posted to Town of Durham NH Facebook Page June 15, 2020.

#### **BMP: Pet Waste Disposal**

**Document Name and/or Web Address:**

"Every Drop" post cards or flyer [https://www4.des.state.nh.us/nh-ms4/?page\\_id=54](https://www4.des.state.nh.us/nh-ms4/?page_id=54)

**Description:**

Distribution and promotion of "Every Drop" post cards or flyer with proper pet waste management, impacts of improper management, pet waste ordinance, and disposal requirements messaging. May include 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

**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.

**Message Date:**

Summer, time of license renewal, "Pooper Scooper" Town Regulation Message posted in Durham Community Friday Updates May 8, 2020 found here

<http://www.ci.durham.nh.us/fridayupdate/friday-updates-may-8-2020> and Friday June 19, 2020 found here <http://www.ci.durham.nh.us/fridayupdate/friday-updates-june-19-2020>.

Posted on Town of Durham NH Facebook Page on June 24, 2020.

**BMP: Disposal of Leaf and Grass Clippings**

**Document Name and/or Web Address:**

[https://www4.des.state.nh.us/nh-ms4/?page\\_id=54](https://www4.des.state.nh.us/nh-ms4/?page_id=54)

**Description:**

Distribute and promote informational flyer, pledge cards, or door hangers, with messaging about impacts from yard waste to waterbodies, alternatives to dumping yard waste and laws against dumping yard waste near or in waterbodies.

**Targeted Audience:**

Residential &/or Business and Institutions

**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.

**Message Date:**

Year 1, 68 flyers were distributed at Household Hazardous Waste Collection Day on October 26, 2019. Year 1, 68 flyers were distributed at Household Hazardous Waste Collection Day on October 26, 2019. Year 2, flyers will be distributed at Household Hazardous Waste Collection Day on October 24, 2020. This information will be shared on the Town's website and via the communities Friday Updates.

## **BMP: Septic System Maintenance**

### **Document Name and/or Web Address:**

[https://www4.des.state.nh.us/nh-ms4/?page\\_id=54](https://www4.des.state.nh.us/nh-ms4/?page_id=54)

### **Description:**

Distribute and promote brochure or door hangers, directing to website to educate 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).

### **Targeted Audience:**

Septic System Owners

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

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

### **Message Date:**

The Building/Code Enforcement Office reported that their files indicated 9 septic systems were reconstructed between July 1, 2019 and June 17, 2020. They also reported there are some cases where the State approved replacements that the Town did not review.

Brochures are available at Building/Code Enforcement Office/Public Works Office and shared on community email notification system named Friday Updates June 26, 2020 here <http://www.ci.durham.nh.us/fridayupdate/friday-updates-june-26-2020>.

## **BMP: Developer/Construction Outreach**

### **Description:**

Review checklist with developers and construction contractors prior to beginning of construction project (pre-construction) to identify responsible parties, erosions control practices, other best management practices, and requirements for EPA Construction General Permit as appropriate.

### **Targeted Audience:**

Developer/Construction

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

Contractors and Developers are aware of the need for proper erosion control practices during construction work.

The Planning Department/Public Works Department held 1 pre-construction meetings (August 6, 2020 for Harmony Place Mixed Use Building – 40 Briggs Way), representing 100% of projects that received planning board approval and began construction during this reporting period. **Goal was achieved.**

### **Message Date:**

Ongoing.

## **MCM2 - Public Participation**

### **BMP: Public Participation in Stormwater Management Program Development**

**Description:** The Stormwater Management Program is publicly available for review at <https://www.ci.durham.nh.us/publicworks/stormwater>.

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

Input was received. **Goal was achieved.**

## **MCM3 – Illicit Discharge Detection and Elimination**

### **BMP: IDDE Legal Authority**

The municipality has established legal authority as outlined in the IDDE plan.

### **BMP: Sanitary Sewer Overflow (SSO) Inventory**

Number of SSO's identified this year: **0**

Number of SSO's removed this year: **0**

### **BMP: Map of Storm Sewer System**

Map of storm sewer system and associated outfalls is in progress in accordance with the accepted NOI. Stormwater outfalls and receiving waters were mapped as required by the MS4-2003 permit. The system map will be updated with refinements as Town implements GIS program and undertakes ongoing field investigations identifying and locating additional infrastructure.

### **BMP: IDDE Program**

A Written IDDE plan has been developed and is available on our website.

Initial outfall identification, characterization and prioritization has been completed and included in the IDDE plan.

The following tasks are in progress in accordance with the accepted NOI.

Number and percent of total outfall catchments served by the MS4 evaluated using the catchment investigation procedure: **Planned for Year 3**

Number of dry weather outfall investigations/screenings: **Planned for Year 3**

Number of wet weather outfall inspections/sampling events: **Planned for Year 3**

Number of illicit discharges removed: **None**

Estimated gallons of flow removed: **None**

### **BMP: Employee Training**

June 17, 2020; City of Dover and UNH provided Illicit Discharge videos prepared by senior civil and environmental engineering students at the Seacoast Stormwater Coalition meeting. Training logs are included in Appendix F of the IDDE report.

In addition, as a routine IDDE, materials and training, including information on how to identify illicit discharges and SSOs are made available to applicable employees in accordance with IDDE plan.

IDDE training was provided to Durham Public Works Staff on June 29, 2020. See Appendix F of the 2020 IDDE report.

### **MCM4 – Construction Site Stormwater Runoff Control**

A Written site inspection and enforcement program for erosion and sediment control measures was created and is included in our SWMP.

The following tasks are complete in accordance with the accepted NOI.

Number of site plan reviews completed: 3

Number of inspections: 5

Number of enforcement actions: 0

### **MCM5 – Post Construction Stormwater Management in New Development and Redevelopment**

#### **BMP: Post-Construction Ordinance (due in year 2)**

A Post-Construction Ordinance has been created, links and references are included in our SWMP.

#### **BMP: Street Design and Parking Lot Guidance Report (due in year 4)**

Deliverables will progress in accordance with the accepted NOI and is scheduled for year 4.

#### **BMP: Green Infrastructure Report (due in year 4)**

Deliverables will progress in accordance with the accepted NOI and is scheduled for year 4.

#### **BMP: List of Municipal Retrofit Opportunities (due in year 4)**

Deliverables will progress in accordance with the accepted NOI and is scheduled for year 4.

### **MCM6 – Good Housekeeping and Pollution Prevention for Permittee Owned Operations**

#### **BMP: Parks and Open Spaces Operations and Maintenance Procedures (due year 2)**



Deliverables have been created and are included in our SWMP.

**BMP: Buildings and Facilities Operations and Maintenance Procedures (due year 2)**

Deliverables have been created and are included in our SWMP.

**BMP: Vehicles and Equipment Operations and Maintenance Procedures (due year 2)**

Deliverables have been created and are included in our SWMP.

**BMP: Catch Basin Cleaning Program**

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. Catch basin cleanings were properly stored and disposed so that they did not discharge to receiving waters. This is detailed in the SWMP.

The following tasks are complete in accordance with the accepted NOI.

Number of catch basins within MS4 regulated area: 600

Number catch basins inspected in accordance with the SWMP: Summer 2020, 162 Total

Number of catch basins cleaned: Summer 2020, 162 Total

Volume or mass of material removed: 4 CY

**BMP: Street sweeping program**

A street sweeping program has been established such that all streets with curbing and/or catch basins and permittee-owned parking lots are swept in accordance with permit conditions. Street sweepings were properly stored and disposed so that they did not discharge to receiving waters.

The following tasks are complete in accordance with the accepted NOI.

Number of (lane) miles swept: Downtown core roadways are swept every weekday in the month of March and twice per week during remaining 11 months of the year.

Volume or mass of swept material: Recorded volume of swept material from Feb 2020 – June 2020 = 40 loads or approximately 120 CY

**BMP: Winter Road Maintenance Program**

A winter road maintenance program has been established with a goal of reducing salt usage. Salt reduction strategies have been implemented as outlined in our SWMP.

**BMP: Stormwater Treatment Structures Inspection and Maintenance Procedures**

Town of Durham maintains a SOP and inspection forms to inventory and inspect all municipally owned BMPs. This was completed in Year 2 and includes a rain garden at the Library, a

bioretention basin and tree filter at Littlehale Culvert on Bagdad Road, two rain gardens at Wagon Hill and the Town Hall. Any BMPs that are safety or flooding hazards are dealt with as needed.

**BMP: SWPPP (due year 2)**

SWPPPs were developed in year 2, consistent with the NOI and permit requirements, for the following facilities: Durham Public Works

Copies are kept, and inspections as outlined in completed SWPPPs will begin in year 3.

## **TMDL's and Water Quality Limited Waters**

### **Bacteria/Pathogens**

Outfalls to these receiving waters have been ranked as high priority for the IDDE implementation in the initial outfall ranking and enhanced BMP's have been implemented in accordance with the SWMP.

### **Nitrogen**

Outfalls to these receiving waters have been ranked as high priority for the IDDE implementation in the initial outfall ranking and enhanced BMP's have been implemented in accordance with the SWMP.

The Town of Durham through its participation in the Seacoast Stormwater Coalition and continued involvement with the NHDES led Pollutant Tracking and Accounting Program (PTAP), will satisfy the tracking and accounting requirement of the municipally owned structural BMP's listed in Attachment 1 to Appendix H.

### **Chloride**

Outfalls to these receiving waters have been ranked as high priority for the IDDE implementation in the initial outfall ranking.

Tracking of the amount of salt applied to all municipally owned and maintained surfaces, and reporting of salt use has been completed using the UNH T2 online tool, or other.

The Town of Durham through its participation in the Seacoast Stormwater Coalition and continued involvement with the NHDES-led Green Snow Pro Program are working to develop a public education regarding impacts of salt use, methods to reduce salt use on private property, and modifications to driving behavior in winter weather as listed in Attachment 1 to Appendix H.

The municipal Green Snow Pro legislation was delayed due to COVID-19 and will be revisited during the 2021 legislative session.

## **Description of any changes in identified BMPs or measurable goals**

Town of Durham has implemented activities in accordance with the approved Notice of Intent. All BMPs and measurable goals as outlined in the approved NOI are appropriate.

## **Activities for the Next Reporting Cycle**

Town of Durham will continue to implement activities in accordance with the approved Notice of Intent.