

**New Hampshire Small MS4 General Permit  
Annual Report**

**STRAFFORD COUNTY, DOVER, NH**

**Permit Year 2**

EPA NPDES Permit Number NHR041000

# Certification

“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

Signature  Date

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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.co.trafford.nh.us/images/UploadedFiles/CountyInfo/Stormwater/SC\\_NOI\\_9-13-2019.pdf](https://www.co.trafford.nh.us/images/UploadedFiles/CountyInfo/Stormwater/SC_NOI_9-13-2019.pdf)

Compliance activities have been identified and described in the Strafford County 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.co.trafford.nh.us/images/UploadedFiles/CountyInfo/Stormwater/STRAFFORD\\_COUNTY\\_SWMP\\_9-13-2019.pdf](https://www.co.trafford.nh.us/images/UploadedFiles/CountyInfo/Stormwater/STRAFFORD_COUNTY_SWMP_9-13-2019.pdf)

IDDE:

[https://www.co.trafford.nh.us/images/UploadedFiles/CountyInfo/Stormwater/STRAFFORD\\_COUNTY\\_IDDE\\_9-13-2019.pdf](https://www.co.trafford.nh.us/images/UploadedFiles/CountyInfo/Stormwater/STRAFFORD_COUNTY_IDDE_9-13-2019.pdf)

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

### **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:**

Strafford County Stormwater Management website link to brochure 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.

**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.

The County Stormwater Management website received 2,791 visitors during the first year it was implemented indicating this information had a significant reach throughout the local community. Goal was achieved.

**Message Date:**

Year-round message via County SWMP website link.

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

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

"Every Drop" flyers [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" flyers by the County to adjacent Pope Memorial Humane Society describing 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.

The brochure is also linked at the Strafford County Stormwater Management website.

**Targeted Audience:**

Residents, pet owners and potential pet adopters.

**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 County Stormwater Management website received 2,791 visitors during the first year it was online indicating this information had a significant reach throughout the local community. Goal was achieved.

**Message Date:**

Year-round message via County Stormwater Management website and brochures provided to Pope Memorial Humane Society.

**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:**

Strafford County Stormwater Management website link to brochure 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.

The County Stormwater Management website received 2,791 visitors during the first year it was implemented indicating this information had a significant reach throughout the local community. Goal was achieved.

**Message Date:**

Year-round message via County Stormwater Management website.

**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:**

Strafford County Stormwater Management website link to brochure 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.

The County Stormwater Management website received 2,791 visitors during the first year it was implemented indicating this information had a significant reach throughout the local community. Goal was achieved.

**Message Date:**

Year-round message via County Stormwater Management website.

**BMP: Stormwater Management For Homeowners**

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

<https://www.des.nh.gov/organization/commissioner/pip/publications/wd/documents/wd-11-11.pdf>

**Description:**

A “Stormwater Management Program” link on the County website offers a wealth of relevant information for homeowners about responsible clean water stewardship and BMPs.

**Targeted Audience:**

County residents and public in general.

**Measurable Goal(s):**

The County Stormwater Management website received 2,791 visitors during the first year it was implemented indicating this information had a significant reach throughout the local community. Goal was achieved.

**Message Date:**

Year-round message via County Stormwater Management website.

**MCM2 - Public Participation**

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

**Description:** Annual Stormwater/MS4 update is provided to the Strafford County Commissioners at one of their public meetings.

**Measurable Goal(s):**

Opportunity for annual public input is provided. Any comments received are compiled. Due to Covid-19 the public session had to be rescheduled. The rescheduled meeting is anticipated to take place by November 2020.

**MCM3 – Illicit Discharge Detection and Elimination**

**BMP: IDDE Legal Authority**

**Description:** The County 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**

An "as-built" map of the SCHOC catchment storm sewer system with catch basin locations was prepared by Rosser International, Inc. on 6/21/02 and is on file at the County Maintenance Dept. Plan Room.

### **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: The 288 acre Strafford County campus has 3 outfall catchments which were evaluated and which is 100% of the total.

Number of dry weather outfall investigations/screenings: 3; once in the fall; no outfalls were observed.

Number of wet weather outfall inspections/sampling events: 3; minimal outfalls were observed; detention ponds never had standing water past initial rain event.

Number of illicit discharges removed: 0

Estimated gallons of flow removed: 0

### **BMP: Employee Training**

.Materials and training, including information on how to identify illicit discharges and SSOs are made available to applicable employees in accordance with IDDE plan.

### **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.

No new construction projects were conducted at the 288 acre Strafford County campus during the past year.

Number of site plan reviews completed: 0

Number of inspections: 0

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**

The campus catch basins had not been cleaned in a number of years. Cameron Septic Services of Farmington, NH was contracted by the County and cleaned 34 of 38 catch basins on 10/18/19.

One catch basin was found to have failed and was subsequently replaced by Northeast Earth Mechanics, Inc. of Pittsfield, NH on 4/13/20.

A schedule for catch basin cleaning has been established with the goal of ensuring that a catch



basin should never be more than 50% full. This is detailed in the SWMP.

The following tasks have been completed in accordance with the accepted NOI.

Number of catch basins within MS4 regulated area: 38

Number catch basins inspected in accordance with the SWMP: 38

Number of catch basins cleaned: 34

Volume or mass of material removed: 34 cubic yards

### **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. The County has contracted with SHOem Roadway Services of Berwick, ME for their annual spring roadway and parking lot sweeping. Street sweepings were properly stored and disposed so that they did not discharge to receiving waters.

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

Number of (lane) miles swept: approx. 1 mile

Volume or mass of swept material: approx. 10 cubic yards

### **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**

The Strafford County campus has just two stormwater treatment structures, both are detention pond features designed to collect stormwater runoff from catch basins. These are inspected twice a year in the spring and fall.

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

SWPPPs were developed in year 2, consistent with the NOI and permit requirements, for the following facilities: maintenance garages, sand & salt storage, waste transfer containers and other locations where pollutants are exposed to stormwater.

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

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

Deliverables have been created and are included in our SWMP.

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

Strafford County 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**

Strafford County will continue to implement activities in accordance with the approved Notice of Intent.