

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

Town of Derry

Permit Year 3

July 1, 2020 through June 30, 2021

EPA NPDES Permit Number NHR041005

Certification

Authorized Representative:

The authorization letter is:

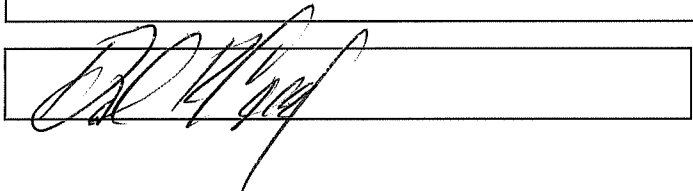
- Attached to this document (document name listed below):

- Publicly available at the website:

"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

Primary MS4 Program Manager Contact Information:

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Title/Position: Town Administrator

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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, 2020 through June 30, 2021** 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 Derry's Stormwater Management Plan (SWMP) and Illicit Discharge Detection and Elimination Plan (IDDE). Those documents can be found at the following websites and will be referred to throughout this report:

SWMP: <https://www.derrynh.org/environmental/pages/derry-municipal-separate-storm-sewer-system-general-permit-ms4gp>

IDDE: <https://www.derrynh.org/environmental/pages/derry-municipal-separate-storm-sewer-system-general-permit-ms4gp>

MCM1 - Public Education and Outreach

Year 3 Activities

BMP: Grass and Fertilizer

Document Name and/or Web Address:

Green Grass & Clear Water Brochure:

https://www.derrynh.org/sites/g/files/vyhli3026/f/uploads/green_grass_and_clear_water_flyer_2019.pdf

Description:

Distribution and promotion of flyers 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. The flyers were customized with Town contact information and distributed through the Derry Municipal Center kiosk, the Town of Derry website, and distributed to Beaver Lake Improvement Association for delivery to their membership via newsletter.

Targeted Audience:

Residential and/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 number of flyers taken from kiosks and the BLIA membership.

In Year 3, 11 flyers were taken from the Derry Municipal Center kiosk.

Goal was achieved.

Message Date:

Continuous throughout reporting period – Placed flyers in kiosks at the Derry Municipal Center and posted on website.

The Derry Municipal Center (DMC) reopened in July 2020 after having been closed in March 2020. During the summer and fall of 2020, the number of visitors to the DMC was well below pre-pandemic numbers. As such, fewer outreach materials were collected from the kiosk during 2020.

BMP: Grass and Fertilizer

Document Name and/or Web Address:

Press Release: *Keeping Water Quality in Mind during Spring Cleanup* – April 9, 2021 (Attached)

Description:

Press release article adapted from *Water Quality Friendly Practices While Sheltering at Home* prepared by NH Sea Grant Extension and UNH Cooperative Extension. Article highlights tips to protect health of waterbodies and growing healthy lawns while spending more time at home. Press Release was posted on Town of Derry front webpage and distributed to Nutfield News and Derry News.

Targeted Audience:

Residential and/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.

Goal was achieved.

While the Press Release was sent to two local newspapers, neither newspaper published it. The article was also posted on the Town's main webpage for residents as well.

Message Date:

Spring: The Press Release was posted on the Town's webpage and sent to two local newspapers on April 8, 2021.

BMP: Grass and Fertilizer**Document Name and/or Web Address:**

Virtual Workshop - Green Grass & Clear Water

- Flyer Announcement (Attached)
- Recording of the workshop - https://media.unh.edu/media/Green+Grass%2C+Clear+WaterA+A+virtual+workshop+on+water+quality-friendly+lawn+care+in+northern+New+England+%28Summer+2021%29/1_bmoeg7d1

Description:

The Town of Derry co-hosted a free virtual workshop with the Towns of Bedford and Litchfield. The virtual workshop was presented by UNH Cooperative Extension and NH Sea Grant Extension and provided participants with the Do's and Don'ts of lawn maintenance habits that keep rivers, lakes, ponds, healthy and clean. Topics covered included how lawn care practices and products can lead to water pollution, how to grow healthy lawn while reducing common pollutants, testing your soil, pros and cons of different types of fertilizers, and what to know before applying lawn products.

Targeted Audience:

Residential, watershed groups, garden clubs, and/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 the number of local participants, distribution of electronic announcements to and through watershed and garden club memberships and posting at local garden centers.

Seven (7) participants were from Derry, some of which were members of the Derry Garden Club and Beaver Lake Improvement Association who learned about the event through their respective membership's newsletters.

A post-workshop survey by UNH/NH Sea Grant indicated most participants increased knowledge of the topics covered.

Goal was achieved.**Message Date:**

Summer: The Virtual Workshop was held June 21, 2021 from 6:30 to 7:45pm.

Outreach conducted as follows:

- Derry Garden Club and Beaver Lake Improvement Association (BLIA) distributed the electronic announcement to their membership.
- Workshop flyer was posted at two garden centers: Springlook Farm and Rockingham Acres.
- Derry Town Administrator announced the workshop at the June 15, 2020 Derry Town Council Meeting.
- Posted on main page of the Derry Website and on the Bringing Derry Together Facebook Page.

BMP: Pet Waste Disposal**Document Name and/or Web Address:**

Pet Waste Cleanup Signs

Description:

Permanent signs remain posted at locations where pet waste has previously been an issue. The signs state pet waste must be picked up per ordinance requirements.

Targeted Audience:

Residents and visiting workforce - Pet Owners

Measurable Goal(s):

Dog owners and/or dog walkers become aware of the ordinance and do not leave pet waste in problem areas.

Since first posting of the signs, the volume of pet waste picked up by town employees has remained low or has not been encountered during grounds maintenance.

Message Date:

- Continuous – Signs posted around the Derry Municipal Center and at Hood Park.

BMP: Pet Waste Disposal**Document Name and/or Web Address:**

"Every Drop" flyer <https://www.derrynh.org/sites/g/files/vyhlf3026/f/pages/derry-scoopthepooppledge2020.pdf>

Description:

Distribution and promotion of customized "Every Drop" flyers with proper pet waste management, impacts of improper management, pet waste ordinance, and disposal requirements messaging. The flyer included a QR Code where dog owners can pledge to pick up after their pet. The pet waste flyers are made available during dog registration and at the Derry Municipal Center kiosk. 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.

In Year 3:

- 11 residents pledged online through the PREP "Every Drop" website
- 2 flyers were retrieved from the Derry Municipal Center kiosk

Goal was achieved.

Message Date: March thru May – Dog registration period.

Continuous throughout reporting period – Placed flyers in kiosks at the Derry Municipal Center and posted on website.

The Derry Municipal Center (DMC) reopened in July 2020 after having been closed in March 2020. During the summer and fall of 2020, the number of visitors to the DMC was well below pre-pandemic numbers. As such, fewer outreach materials were collected from the kiosk during 2020.

BMP: Disposal of Leaf and Grass Clippings**Document Name and/or Web Address:**

Flyer: https://www.derrynh.org/sites/g/files/vyhlf3026/f/pages/rakeitorleaveit-desyardwastebrochure-final_2.pdf

Press Release/Newspaper Article: *Rake It Or Leave It, What To Do With Fallen Leaves – Nutfield*

News November 12, 2020 (Attached)

Press Release/Newspaper Article: *Town of Derry encourages Composting– Manchester Union Leader November 9, 2020 (Attached)*

Description:

Distribute and promote informational 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. The flyers were customized with Town contact information messaging and distributed through the Derry Municipal Center kiosk and on the Town’s webpage.

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.

In Year 3:

- 25 flyers were taken from the Derry Municipal Center kiosk.
- Readership of Nutfield News and Union Leader exposed to news release.

Goal was achieved.

Message Date:

Fall (November) – Press Release/News Articles

Continuous throughout reporting period – Placed flyers in kiosks at the Derry Municipal Center and posted on website.

The Derry Municipal Center (DMC) reopened in July 2020 after having been closed in March 2020. During the summer and fall of 2020, the number of visitors to the DMC was well below pre-pandemic numbers. As such, fewer outreach materials were collected from the kiosk during 2020.

BMP: Septic System Maintenance

Document Name and/or Web Address:

- 1) *Get Pumped* - <https://www.derrynh.org/sites/g/files/vyhlf3026/f/uploads/get-pumped-community-brochure.pdf>
- 2) *Do Your Part-Be SepticSmart-A simple guide to the proper care and maintenance of your septic system (EPA-832-B-12-003 September 2012)*
https://www.derrynh.org/sites/g/files/vyhlf3026/f/uploads/septicSMART_short_rack_brochure_030915-edited.pdf

Description:

Brochures educating New Hampshire homeowners with septic systems on how to identify, locate and maintain those systems.

“*Get Pumped*” brochure is available on the Town’s website and available at Derry Municipal kiosk. 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).

The EPA brochure *Do You Part-Be Septic Smart* brochure is available on the Town's website and available at Derry Municipal kiosk.

Targeted Audience:

Septic System Owners – Residential and Commercial/Industrial

Measurable Goal(s):

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

Following is the number of flyers that were distributed:

Year 3:

- 4 *Get Pumped* brochures taken from Municipal Center kiosk
- 25 *Do You Part-Be Septic Smart* brochures taken from Municipal Center kiosk

Goal was achieved.

Message Date:

Continuous throughout reporting period – Placed flyers in kiosks at the Derry Municipal Center and posted on website.

The Derry Municipal Center (DMC) reopened in July 2020 after having been closed in March 2020. During the summer and fall of 2020, the number of visitors to the DMC was well below pre-pandemic numbers. As such, very few outreach materials were collected from the kiosk in 2020.

BMP: Sanitary Sewer Overflow and Backup Prevention

Document Name and/or Web Address:

- 1) "What's Flushable?" Brochure
<https://www.derrynh.org/sites/g/files/vyhlif3026/f/uploads/whats-flushable.pdf>
- 2) News Article - *'Flushable': We Don't Think It Means What You Think It Means* - Nutfield News
September 24, 2020 (Attached)

Description:

Distribute and promote brochure prepared by NHDES educating the public on what us and what should not be flushed down the drain, how these impact sewer systems and septic systems and can cause backups leading to water quality issues.

Due to Covid-19, significantly more residents were staying home and there was a toilet paper shortage leading to residents resorting to "non-flushable wipes" or other products not meant to be flushed.

Targeted Audience:

All Residents (Homeowners with Septic Systems and anyone connected to municipal sewer.)

Measurable Goal(s):

Residents become aware of how to prevent sewer backups that can lead to sewage overflows and water quality impacts. Residents also become aware of what can negatively affect the lifecycle of their septic systems.

There was one sewer backup attributed to a combination of wipes tangled on roots. The sewer line was already scheduled for replacement/relining which would address the root issue. Wipes have not been an issue in any other sewer line even though a large amount had been coming into the main influent pump station early in the pandemic.

Year 3:

- 25 Flyers taken from Municipal Center kiosk
- 11 Flyers taken from Code Enforcement/DPW reception kiosk

Message Date:

- Continuous throughout reporting period – Placed flyers in kiosks at the Derry Municipal Center
- Continuous - Flyer posted on website (see link above)
- Press Release – September 24, 2020 (Attached)

The Derry Municipal Center (DMC) reopened in July 2020 after having been closed in March 2020. During the summer and fall of 2020, the number of visitors to the DMC was well below pre-pandemic numbers. As such, very few outreach materials were collected from the kiosk during 2020.

BMP: Sanitary Sewer Overflow and Backup Prevention

Document Name and/or Web Address:

"Derry Guide to Sump Pump Connections" Brochure

<https://www.derrynh.org/environmental/pages/stormwater-pollution-prevention>

Description:

Distribute and promote brochure prepared by the Town of Derry educating the public on the proper and legal method of installing sump pumps to prevent overloading of the municipal sewer that can lead to overflows or backups.

Targeted Audience:

Resident homeowners that are connected to municipal sewer and have sump pumps or are considering installing sump pumps.

Measurable Goal(s):

Residents are aware of the regulations regarding sump pump connections, and the risk from illegally connecting to municipal sewer. Residents also become aware of how and where discharge from sump pumps is allowed or restricted.

Year 3: 25 Flyers taken from Municipal Center kiosk

Message Date:

- Continuous throughout reporting period – Placed flyers in kiosks at the Derry Municipal Center.
- Continuous - Flyer posted on website (see link above)

The Derry Municipal Center (DMC) reopened in July 2020 after having been closed in March 2020. During the summer and fall of 2020, the number of visitors to the DMC was well below pre-pandemic numbers. As such, fewer outreach materials were collected from the kiosk during 2020.

BMP: Stormwater Pollution

Document Name and/or Web Address:

"After the Storm: A Citizen's Guide to Understanding Stormwater"

<https://www.derrynh.org/environmental/pages/stormwater-pollution-prevention>

Description:

Distribution of editable USEPA guide explaining stormwater runoff, why it is a problem, the effects of polluted runoff, and general overview of stormwater pollution solutions for residential, commercial, agricultural, construction, and automotive facility sites.

Targeted Audience:

Residents, Commercial, and Developers

Measurable Goal(s):

Year 3: 15 brochures were taken from Municipal Center kiosk.

Message Date:

- Continuous – Placed flyers in kiosks at the Derry Municipal Center for last several years.
- Flyer posted on website (see link above)

The Derry Municipal Center (DMC) reopened in July 2020 after having been closed in March 2020. During the summer and fall of 2020, the number of visitors to the DMC was well below pre-pandemic numbers. As such, fewer outreach materials were collected from the kiosk during 2020.

BMP: Commercial/Developer Outreach – POSTPONED AGAIN DUE TO COVID-19

-Originally scheduled for March 2020 – POSTPONED

-Rescheduled for March 30, 31, April 1, 2021 – POSTPONED

-Rescheduled for November 3-4, 2021

Description:

Landscaping for Water Quality Class (Originally rescheduled for March 30, 31, April 1, 2021)
The Town of Derry partnered with NHDES an UNH-T2 to hold 3-day class teaching participants how to use ecological concepts and landscape features such as rain gardens, vegetative buffers, and other green infrastructure to protect lakes, rivers, streams, and bays. The scheduled instructors were from universities, university extension, environmental agencies, municipalities, and private enterprise. The rescheduled class was to be a mix of virtual classroom as well as in-person small groups to be held at an outdoor pavilion at Derry's Don Ball Park which would then use Hood Pond Park as an outdoor classroom for in-class water quality landscape design exercise. A panel discussion consisting of representatives from Derry, Londonderry, and the Beaver Lake Improvement Association was scheduled. Hood Pond is impaired for phosphorus and bacteria and the Town would consider implementing landscaping design ideas generated in the class by participants possible future site improvements.

The Town helped prepare classroom materials and shared mailing/notification responsibility by reaching out to companies in the immediate region while DES/UNH conducted state-wide outreach.

Targeted Audience:

Commercial -Landscape designers, contractors, maintenance professionals, and those who hire them; watershed groups; and municipal employees.

Measurable Goal(s):

POSTPONED - Attendees would be made aware of how landscaping activities affect stormwater runoff and adjacent surface waters and how to improve their practices to protect surface water quality. Lessons learned from the class would be implemented in addressing Hood Pond water quality issues (phosphorus and bacteria).

Message Date:

Flyer posted on Town website and in news feed.

DUE TO COVID-19, THIS RESCHEDULED TRAINING WAS POST-PONED A SECOND TIME.

THIS EVENT IS RESCHEDULED FOR NOVEMBER 3 AND 4, 2021.

BMP: Industrial Outreach

Document Name and/or Web Address:

Industrial Facility Stormwater Outreach Letter, From Town of Derry (Attached)

"*Stormwater Pollution Control for Industrial Facilities*" (Attached)

"*Hiring A NH Certified Green SnowPro Flyer*"

<https://www.derrynh.org/sites/g/files/vyhlf3026/f/uploads/green-snowpro-business-flyer.pdf>

Description:

The Town of Derry authored a letter to select industrial facilities within the municipal boundaries subject to EPA's Multi-Sector General Permit (MSGP) in which the Town shared stormwater pollution information with the message to collectively reduce stormwater pollution and improve water quality within the community. Two attachments were included:

- 1) "*Stormwater Pollution Control for Industrial Facilities Fact Sheet*" that contained helpful information on how to reduce pollutants that could enter stormwater systems or nearby waterbodies. The fact sheet explains best management practices related to maintenance of parking lots, spill prevention, storage of industrial materials, and winter maintenance best practices. Industrial facility operators were also made aware that they fall under the EPA Multi-Sector General Permit (MSGP) and must meet those requirements as well.
- 2) "*Hiring a NH Certified Green SnowPro*" flyer prepared by NHDES with information on reducing liability under RSA 508:22 while reducing impacts to local waterbodies.

Targeted Audience:

Industrial Facilities – Categorical Industries regulated under MSGP Program

Measurable Goal(s):

Industrial facility operators are aware of the need for proper stormwater best management practices within their facilities and requirements under the EPA Multi-Sector General Permit (MSGP). Industries are also aware of the Green SnowPro program and salt reduction efforts.

Year 3 = Letters with attachments sent to four MSGP Industrial facilities. Two responded back via phone calls to report change of contact or Notice of Exemption.

Goal was achieved.

Message Date:

April 22, 2021 – Town letter with attachments sent to MSGP industries.

BMP: Industrial Outreach

Document Name and/or Web Address:

Industrial Facility Stormwater Outreach Correspondence, Email from Town of Derry "Sustainable Solutions for Craft Beverage Producers" - Three-Part Webinar Series by EPA and NHDES.

Description:

The Town of Derry forwarded the press release regarding a three-part Sustainable Solutions webinar series offered by the New Hampshire Department of Environmental Services' (NHDES) Pollution Prevention Program working with US Environmental Protection Agency's Pollution Prevention Program. The NHDES press release included links to obtain additional pollution prevention information. The press release was shared directly via email to each of the breweries and distilleries located in Derry.

Targeted Audience:

Industrial Facilities – Craft Beverage Producers (Breweries and Distillery)

Measurable Goal(s):

Breweries and distillery owners in Derry become aware of sustainable practices and pollution prevention practices as well as where to obtain more information on pollution prevention for their industry.

Year 3: Reached out directly to all four breweries and the distillery.

Goal was achieved.

Message Date:

April 20 and 23, 2021 – Email with press release forwarded directly to breweries and distillery.

MCM2 - Public Participation

BMP: Public Participation in Stormwater Management Program Development

Description: The Stormwater Management Program remains available for public review and comment on the Town of Derry's Webpage. Documents and records relating to the permit are retained and available for 5 years to the public at location at the Derry Municipal Center, Public Works Office.

Measurable Goal(s):

Receipt of input or comments from the public. No comments received.

BMP: Leaves and Phosphorus Reduction Outreach

Description:

"Leaves in our Lake" article in the Beaver Lake Improvement Association (BLIA) Newsletter BLIA conducted its own outreach in the Beaver Lake Newsletter distributed by email to its members regarding proper disposal of leaves and the impacts of phosphorus. The newsletter included a link to an article by NHLakes.org with 12 friendly actions along shorelines.

Participating Party:

Local Watershed Organization

Measurable Goal(s):

- Watershed Organization conducting its own outreach
- Number of BLIA members reached

Activity Date:

- October 25, 2020 – emailed Beaver Lake Newsletter (attached)

BMP: Shoreline Cleanup

Description:

The Town promotes shoreline cleanup in conjunction with roadside cleanup. The Beaver Lake Improvement Association (BLIA) organizes two shoreline cleanup events each year, spring and fall. The events were advertised through the BLIA Beaver Lake Newsletters (attached). The Town provides all the trash bags and coordinates with BLIA to pickup of trash bags left by participants along the roads.

Due to Covid-19, no centralized meet up location was set up. To follow social distancing recommendations, volunteers that expressed interest were assigned streets and provided bags. Volunteers then conducted cleanup as available.

Participating Party:

Residents - Beaver Lake Improvement Association volunteers in cooperation with Public Works/Transfer Station.

Measurable Goal(s):

Fall and Spring Shoreline Cleanup was organized and conducted by volunteers from BLIA.

Activity Date:

- October 10, 2020 – BLIA members organized shoreline cleanup day
- April 24, 2021 – BLIA members organized shoreline cleanup day.

BMP: Roadside Cleanup**Description:**

The Derry Go Green Committee, which is made up of volunteers, with the assistance of the Town, conservation commission, and parks & Recreation Department, promotes spring and fall roadside cleanups for residents to perform trash pickup in areas of their choosing. The Town provides all the trash bags and coordinates the pickup of trash bags left by participants along the roads.

Participating Party:

Residents – Volunteers in coordination with Public Works/Transfer Station

Measurable Goal(s):

Volunteers participate, roadsides cleaned.

Activity Dates:

- April 17-25, 2021 – Coincides with the weeks surrounding Earth Day
-Nutfield News Article, *“Derry Town-Wide Cleanup”*, April 15, 2021 (attached)

BMP: RailTrail Cleanup**Description:**

The Derry RailTrail Alliance, which is made up of volunteers, with the assistance of the Town, promoted and conducted a spring trailside cleanup for residents to perform trash pickup along the trail. The Town provides all the trash bags and coordinates the pickup of trash bags left by participants along the roads.

Participating Party:

Residents – Volunteers in coordination with Public Works/Transfer Station

Measurable Goal(s):

30 Volunteers participate, Derry railtrail cleaned.

Activity Dates:

- April 3, 2021
– Derry News Article, *“Spring Cleaning-Area Trails Get Spruced up for the Season”*, April 8, 2021 (attached)

BMP: Hood Park/Hood Pond Stakeholder Group Development

Description:

<https://www.derrynh.org/economic-development/webforms/hood-park-steering-committee>

Bring community stakeholders together that have an interest in the revitalization of Hood Park and Hood Pond. The Town Economic Development Director with assistance from the Planning Department, initiated an effort to bring together community stakeholders that had an interest in improving and revitalizing Hood Park and Hood Pond, which is impaired for phosphorus. Hood Pond public beach have been closed for the past few years primarily due to lack of staff and lifeguards. There were various community organizations in town that had their own ideas as to what could happen with the Park.

The intent of the Economic Development team was to bring all these stakeholders together, create an outreach and engagement plan, and find out what the community wanted to see or envisioned for the future of the Park and Pond. UNH recently completed a Recreational Needs Assessment for the town and identified Hood Park as one of its assets; Hood Park was also identified as an asset in the recently updated Master Plan.

The Town partnered with members from the Community and Economic Development Program from UNH Cooperative Extension to assist with community outreach/engagement efforts.

Participating Party:

Town Economic Development Team, Planning Department, and Town Council member, UNH Cooperative Extension, Town residents including Hood Pond abutters, and park users.

Measurable Goal(s):

- Successfully brought together interested community stakeholders to form Steering Committee.
- Obtained 230 comments input into future for the Hood Park from the public
- Held 11 stakeholder meetings.
- Report: *Derry Hood Park – Outreach & Engagement Report December 2020*, UNH Coop. Ext.
- News Articles on the program:
 - Derry News: “*Derry Town Council Reviews Goal Progress*” January 14, 2021
 - Derry News: “*Hood Park in Derry to be ‘reimagined’*” October 29, 2020
 - Nutfield News: “*Announces Project to Reimagine Hood Park*” October 29, 2020.

Activity Date:

- July 2020 through January 2021 – Held 11 stakeholder meetings, conducted surveys, presentation to Town Council.

BMP: Household Hazardous Waste Collection Events

Description:

The Town sponsors and holds a household hazardous waste collection event each year in May. The event is open to residents of Derry and Londonderry. The Town of Londonderry reciprocates and sponsors and holds an event each year in November which is open to resident

of Derry and Londonderry. These events are held at no charge to residents.

*The Town usually uses this opportunity to distribute outreach material to residents. Due to Covid-19 social distancing requirements, strict distancing guidelines were implemented eliminating close contact with attendees and therefore no additional outreach was performed during the 2021 event.

Participating Party:

Residents – Derry and Londonderry, Sponsored by the Town of Derry.

Measurable Goal(s):

Derry HHW Event May 15, 2021:

- 344 Total Households represented (230 Derry, 114 Londonderry) which is a 14% increase over the average attendance and the second highest attendance after 2020 event.
- 17,141 lbs of HHW collected and kept out of the environment or solid waste wastestream.

Londonderry HHW Event – November 21, 2020

- 127 Derry households were represented at the Londonderry HHW event

Activity Date:

- November 21, 2020 (sponsored by and held in Londonderry)
- March Through May - Outreach included notices and announcements each televised Town Council meeting held twice per month and the Conservation Commission monthly meetings, reader board at entrance to Transfer Station, notice sent out to subscribers of the Town's ListServ, Derry's and Londonderry's newsletters, posts on several different webpages within Derry's and Londonderry's website, and posted on social media (Facebook) pages including *Town of Derry*, *Bringing Derry Together*, and *Londonderry NH* Facebook pages.
- Newspaper articles:
 - Nutfield News and Londonderry Times: "*Londonderry/Derry Household Hazardous Waste Set for May 15, 2021*", April 8, 2021
 - Nutfield News "*Hazardous Waste Day Guidelines*", May 13, 2021
- May 15, 2021 – Derry HHW collection event

BMP: Pet Waste Cleanup Signs

Description:

The apartment management company at an 849-unit apartment complex development consisting of 31 buildings continues to keep their own signs posted informing residents to clean up after their dogs to protect health and water quality. The signs include poop bags and barrels informing residents.

Targeted Audience:

Residents - Pet Owners

Measurable Goal(s):

The effort voluntarily made by the apartment management company to post the signs and provide bags and barrels.

Decrease in dog waste not cleaned up and the number of bags left on the ground (realized by the apartment management company).

Lack of bacteria problems in local watershed catchment.

Message Date:

- Continuous

MCM3 – Illicit Discharge Detection and Elimination

BMP: IDDE Legal Authority

Derry Stormwater Ordinance: Chapter 131 Stormwater Management <https://ecode360.com/13121730>

BMP: Sanitary Sewer Overflow (SSO) Inventory

During the reporting period, the municipality updated the SSO inventory in accordance with permit conditions. The inventory identified SSOs during the last 5 years. An updated table summary of all SSOs is included in Table B-2 of the Derry IDDE and is attached to this report. All were promptly mitigated.

Number of SSOs identified in the MS4 system and removed during this reporting period.

Number of SSOs identified: 0

Number of SSOs removed: 0

Number of SSOs identified in Town during the reporting period that did not enter the MS4 system or surface water during this reporting period.

Number of SSOs identified not entering MS4 system: 1

Number of SSOs removed not entering MS4 system: 1

During Year Three of the Permit, there was one sanitary sewer overflow. At approximately 1:30pm on March 5, 2021 a Derry Public Works employee noticed sewer overflowing from a sewer manhole No. 5-60 located within an easement along the Town's Rail Trail off Norton Street in Derry. The employee immediately contacted the WWTP Chief Operator, and the Sewer Jet-Vac truck and a maintenance crew responded. Raw untreated sewer was noted running down the embankment of the trail toward Beaver Brook. An earthen dam was created to divert flow away and prevent flow from entering the brook. The sewer line was jetted, and flow restored. The area was treated with lime. The sewer main was video inspected and significant roots and wipes were found. The line was scheduled for root cutting which was completed within the next couple of weeks. The estimated discharge was ~2,000 gallons. This section of sewer main is included in our 3-year plan sewer main replacement/relining program.

BMP: Map of Storm Sewer System

Map of storm sewer system and associated outfalls is continually being updated and is a work in progress. The Town has launched the first phase of mapping by making available an additional stormwater layer to our GIS system consisting primarily of stormwater structures (catchbasins and drop inlets) for use with town operations.

Continued stormdrain outlet and outfall inspections have further documented mixed ownership situations with some storm drainage systems originally listed as being owned by the Town as actually privately-owned or owned by NH Department of Transportation (NHDOT).

- Two storm drain catchments along Kendall Pond in vicinity of Interstate Route 93 were identified as being interconnected with NHDOT from either Interstate 93 or the adjacent

NHDOT Patrol Shed. Corrections are also being made relative to ownership. The Town went forward with cleaning stormdrains and coordinated with NHDOT to address certain outfall that needed cleaning. Additional coordination with NHDOT to clean interconnected NHDOT-owned catchbasin is pending.

- One storm drain system at intersection of State Route 102, and North Shore and Tsienetto Roads are interconnected where Town drainage enters the State-owned stormdrain system and outfall. New DOT-owned structure and outfall added to Town's map. This location is slated for installation of stormwater BMP as part of the I-93/Exit 4A project within the next two years.
- Stormdrain system at intersection of three NH State roads (Route 28, Route 28-bypass aka South Main St, and Island Pond Road) and the Town-maintained Rockingham Road were originally mapped as interconnected. Inspection identified a separate state-owned outfall to which NHDOT-owned stormwater structures discharged separate from the Town-owned stormwater system.

BMP: IDDE Program (Screenings of Outfalls/Interconnections, Catchment Investigations, and IDDE Progress)

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

<https://www.derrynh.org/environmental/pages/derry-municipal-separate-storm-sewer-system-general-permit-ms4gp>

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

Number and percent of total outfall catchments served by the MS4 evaluated using the catchment investigation procedure:

Number of dry weather outfall investigations/screenings this reporting period:

- 18 Stormdrain outlets and outfalls were reinspected – Reinspection was conducted following maintenance or repairs identified during prior inspections.
- 122 Stormdrain outlets were inspected during the reporting period.
 - 39 were identified as OUTFALLS discharging to surface water or wetlands.
 - 77 outlet pipes did not discharge to surface water or wetlands.
 - 4 were later identified as owned by NH DOT.
 - 2 were identified as privately owned.

Number of dry weather samples taken this period: 0

Number of dry weather samples taken during prior reporting period and reported his period: 1

Number of illicit discharges removed: 0

Estimated gallons of flow removed: NA

No wet weather outfall inspections/sampling events were conducted during the reporting period.

Number of dry weather outfall investigations/screenings from prior reporting period (Year 2)

Number of catchment investigations: 2

Number of illicit discharges: 0

Number of illicit discharges removed: 0

Estimated gallons of flow removed: 0 gallons

Outfall OF493-74: Intermittent flow traced and confirmed as groundwater from wet well at the Derry Municipal Center. The wet well was constructed to collect groundwater from foundation drains installed around the Derry Municipal Center during its construction. The pumps cycle on and off creating intermittent discharge directly to the storm drain system. Flow volumes were consistent through 15 catchbasins and 4 drain manholes. Analytical indicated no residual chlorine and very low levels of ecoli. Bacteria levels are below the non-beach screening level (406 cfu/100ml) and likely due to periodic stagnation of water in catchbasins. Trace levels of surfactants and ammonia were also detected. No other obvious contributors were identified. Analytical results and catchbasin inspection forms are attached to this report.

Outfall OF493-97: Trickle flow was observed during sample collection. Flow had ceased upon return to investigate source of discharge however evidence of damp pipes was used to follow potential source. Flow appeared to be groundwater seepage at catch basins CB423-101A which is an older catchbasin structure constructed of bricks. Upgradient catchbasin had no evidence of flow. Analytical indicated no residual chlorine and very low levels of ecoli. Bacteria levels are below the non-beach screening level (406 cfu/100ml) and likely due to periodic stagnation of water in catchbasins. Trace levels of surfactants and ammonia were also detected. No other obvious contributors of discharge were identified. Analytical results and catchbasin inspection forms are attached to this report. Return visits through fall 2020 did not identify further discharge and the catchbasin dried up. Derry experienced severe drought in 2020 through June 2021 impacting groundwater levels which led to decreased groundwater infiltration into the catchbasin. Analytical results and catchbasin inspection forms are attached to this report.

IDDE Complaints/Investigations - There was one complaint/investigation into possible IDDE.

Incident ID: 2021-1 (attached)

Date 6/23/21

Location: Grandview Drive

Description: Suspected dumping next to and in catchbasins near Beaver Lake. Town employee observed unusual light colored spill staining on asphalt next to two catchbasins. Around the same time an email from the Beaver Lake Improvement Association was received reporting the same observations. The stained asphalt was inspected, and the staining was the remains of silty material that easily wiped away. Inspections of the catchbasins and associated outfall did not show any evidence of odors, spills, or discharge. It was observed that an adjacent home recently had a new well drilled. The material is believed to be rock flour produced during the drilling of bedrock wells. No further issues were identified. At the end of Year 3, the Town was attempting to identify the well driller.

BMP: Employee Training - Impacted due to Covid-19

Impacted by Covid-19: The Town typically conducts regular group training of all public works employees in the Spring of each year. This year's training was going to include training on IDDE, spill response and cleanup, best management practices, pollution prevention and good housekeeping. Due to Covid-19 on-site group trainings were not conducted. Instead, employees continued to receive individual word-of-mouth training when possible or brief overview training during morning kickoff meetings while maintaining social distancing. Employees participated in virtual remote training when feasible.

- Three employees were scheduled to attend the March 2021 *Landscaping for Water Quality* class that was cancelled due to Covid-19 and is rescheduled for November 2021.

During the reporting period, staff participated in the following:

- Treatment System design & Post-Construction Performance (3/3/21)-Remote (1 Employee)
- Stormwater Construction: Erosion and Sediment Controls (2/22/21)-Remote (1 Employee)
- Managing Scrap Metal & Stormwater – Remote (7 Employees)

Training Schedule - In-person training is scheduled to begin in July 2021 for Public Works, Water/Wastewater, Buildings & Grounds, Transfer Station, and Parks and Recreation employees. Topics covered shall include some or all the following topics depending on individual roles and responsibilities: Stormwater regulatory background, pollution prevention, good housekeeping, best management practices, identifying and reporting illicit discharges, reporting and responding to different types of spills (petroleum, sewage, battery acid), SPCC requirements, and storage tank management. The Town of Derry anticipates completing all of the in-person training prior to the submittal of this report. Training logs will be maintained at the Derry Public Works office and included in Appendix F of the IDDE report.

MCM4 – Construction Site Stormwater Runoff Control

BMP: Site Plan Review Procedures and Reviews

A written site inspection, checklist, and enforcement program for erosion and sediment control measures were already in place. These are included as links in our SWMP and available at the following link on the Town's website.

<https://www.derrynh.org/public-works/pages/forms-applications>

Site plan review procedures and application forms used vary depending on whether it is a change or expansion in use or new development. Procedures and application forms are described in one of more of the following documents at the above web address:

- Change in Use Form
- Change/Expansion of Use

- Excavation Application
- Subdivision-Site Plan Application
- Subdivision and Site Plan Process

Number of site plan reviews completed: **6**

(Note: number reported is only the site plan reviews that made it through to approval during the reporting period. This does not include repeated or follow-up reviews, reviews of site plans that never were followed through to approval or are still pending, or reviews that were only a change-of-use.)

Number of inspections: **109**

(note: These are all third-party projects that were inspected by the Town. All Town projects have direct daily oversight by Town engineers.)

Number of enforcement actions: **0**

(While no actual enforcement actions were initiated, minor deficiencies identified during inspections are addressed at time of inspection)

BMP: Site Inspections and Enforcement of Sediment and Erosion Control Measures Procedures

Procedures for inspection and enforcement of sediment and erosion control measures are included in the booklet at the link below. The booklet discusses procedures for observing construction of subdivisions and related activities being performed in the Town of Derry. The procedures are based upon the Town of Derry Zoning Ordinance, Subdivision Regulations, Site Plan Regulations, Utility Construction Specifications, and other pertinent Town Codes. It outlines the relationship between the Developer, the Developer's Contractor and Engineer and the Town of Derry.

Subdivision & Site Plan Construction Monitoring, Procedures & Checklist – January 2011
<https://www.derrynh.org/public-works/pages/forms-applications>

BMP: Sediment and Erosion Control Ordinance and Regulations

Construction Site Stormwater Runoff Control are regulated by the Town under the following ordinance and regulations. These include erosion and sediment control and waste control at construction sites.

Stormwater Management Ordinance:

The ordinance was amended in Year 3 to meet requirements of Appendix F, Part I, 1.b. (Chloride TMDL). The amendment was approved April 20, 2021 and is discussed later with regard to Chloride TMDLs.

The Staff Report can be found at:

https://www.derrynh.org/sites/g/files/vyhlf3026/f/agendas/21-34_revision_to_chapter_131_stormwater_management_0.pdf

The April 6 and April 20, 2021 Town Council Agendas can be found at:

<https://www.derrynh.org/node/46/agenda/2021> .

The updated ordinance can be found at the following link.

<https://ecode360.com/13121730>

Stormwater System Design Regulations:

https://www.derrynh.org/sites/g/files/vyhli3026/f/uploads/derry_nh_storm_water_system_design_regulations_-_final.pdf

Land Development Control Regulations:

The Land Development Control Regulations were amended in Year 3 to meet requirements under Section 2.3.6.a. ii. of the permit regarding post-construction stormwater management for phosphorus. The amendment was approved on May 19, 2021 and is discussed later with regard to phosphorus TMDLs.

The agenda can be found at:

<https://www.derrynh.org/planning-board/agenda/planning-board-agenda-05192021>

The approved minutes can be found at:

https://www.derrynh.org/sites/g/files/vyhli3026/f/minutes/05.19.2021_minutes.pdf

The amended Land Development Control Regulations can be found at:

<https://ecode360.com/7626031>

BMP: Waste Control

Derry's *Stormwater System Design Regulations* include requirements to control wastes, discarded building materials, concrete truck washout, chemicals, litter, and sanitary wastes. These requirements are also included by reference to current recognized best management practices documents and guidelines that require development of SWPPPs that specifically cite these requirements.

Stormwater System Design Regulations:

https://www.derrynh.org/sites/g/files/vyhli3026/f/uploads/derry_nh_storm_water_system_design_regulations_-_final.pdf

MCM5 – Post Construction Stormwater Management in New Development and Redevelopment

BMP: Post-Construction Ordinance (due in year 3)

Requirements for preparation of an Operation and Maintenance Plan, the recording of the plan, and record keeping are included in Section 4.B.10 through 13 of the Derry Stormwater System Design Regulations.

Stormwater System Design Regulations:

https://www.derrynh.org/sites/g/files/vyhlf3026/f/uploads/derry_nh_storm_water_system_design_regulations_-_final.pdf

BMP: As-built Drawings and Long-term Operation and Maintenance Procedures

Requirements for a) submission of as-built drawings including all stormwater control structures and BMPs and b) preparation and submittal of a site-specific stormwater operation and maintenance plan are included in the following regulations:

Land Development Control Regulations:

<https://ecode360.com/7626031>

Stormwater System Design Regulations:

https://www.derrynh.org/sites/g/files/vyhlf3026/f/uploads/derry_nh_storm_water_system_design_regulations_-_final.pdf

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

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

BMP: Green Infrastructure Report (due in year 4)

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

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

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

MCM6 – Good Housekeeping and Pollution Prevention for Permittee Owned Operations

BMP: Catch Basin Cleaning Program

A schedule for catch basin cleaning has been previously established with the cleaning 750 catch basins per year. The catchbasins cleaned each year is adjusted based on priority areas or if problem catchbasins were identified (i.e., consistently generate excessive quantities of sediment). Most of the catchbasins cleaned rotate each year to ensure town-wide coverage. The Town continues to review historical data and is setting up a spreadsheet to ensure catch basin are not more than 50% full. The preliminary review identified a few catch basins were over 50% full at time of cleaning.

Contracting with and initiating catchbasin cleaning with our catchbasin cleaning contractor was delayed in the spring 2020 and did not begin until June. As a result, only 339 catchbasins were cleaned prior to July 1, 2020. The cleaning continued into July until all 750 were cleaned.

Number of catchbasins within MS4 regulated area: estimated 3500 (Number includes state- and privately-owned structures. Actual number will be regularly revised as mapping is updated.)

Number catchbasins inspected in accordance with the SWMP: 339

Number of catchbasins cleaned:

- 441 cleaned in July 2021 as part of the prior fiscal year's (Year 2) contract.
- 750 were cleaned as part of the 2020-2021 fiscal year contract.

Volume or mass of material removed: ~ approximately 25 cubic yards total for the 441 (Year 2) and 750 (Year 3) catchbasins. The total material removed in Year 3 was higher due to additional catchbasins cleaned leftover from year 2.

BMP: Street Sweeping Program

The established street sweeping program continues for all streets with curbing and/or catch basins in urban, high traffic, and commercial areas and permittee-owned parking lots. The Town uses a contractor for street sweeping. Since the Town virtually eliminated the use of sand for winter operations, the volume of material swept has significantly decreased.

Approximately 6 miles (12 lane miles) of arterial streets in the Downtown area of Derry are swept twice per week on Sunday nights and Wednesday nights. The roadways include but are not limited to Broadway, Crystal Ave, Birch Street, North Main Street, South Main Street, and Pinkerton Street. This work typically commences in April (weather dependent on snow and ice) and continue through November of each year resulting in up to 70 routine street sweeping events per year for arterial roads.

An additional 40 miles (80 lane miles) of curbed streets within the urban compact and nearby

roads with closed drainage systems (curbing and catch basins) are swept each year and as needed due to construction, unusual incidents (debris, accidents), or significant erosive storm events.

Transfer Lane (the main road leading to the Derry Transfer Station, Highway Garage, Vehicle Maintenance Facility, and the Wastewater Treatment Facility) is swept every other week (0.8 miles or 1.6 lane miles) from April through November.

The following numbers are the minimum number of lane miles/area swept during the reporting period.

<u>Minimum area of sweeping performed each year per event</u>	<u>Year 3</u>
Number of arterial (lane) miles swept twice/week (April – November):	12
Number of curbed lane miles swept a minimum of once per year:	40
Number of lane miles swept every other week at Transfer Lane:	1.6
Acres of municipal parking lots swept each year	2.9
Volume or mass of swept material:	~50 cu.yds
<i>Total Volume remained consistent with Year 2</i>	

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. The Town stores road salt in an enclosed salt storage facility to prevent exposure to precipitation and reduce runoff into storm drains and water bodies.

The Town has adopted a Chloride Reduction Plan in accordance with Appendix F. The Plan is being implemented throughout the municipal boundaries and not just the MS4 regulated area or in watersheds with an approved TMDL or identified as impaired for chloride. The Town's Chloride Reduction Plan is being updated to reflect changes made to the Stormwater Ordinance requiring the use of Certified Green SnowPro for private properties with 10 or more parking spaces. The updated Chloride Reduction Plan will be posted to the Town website upon review and approval.

The Town has already developed Winter Maintenance Snow and Ice Control Policy, Winter Operations Booklet (updated annually), and a Salt Reduction Plan for Beaver Brook (rev 9/01/18). A Salt Reduction Plan was first developed in 2011 and had periodic updates as new equipment and BMPs were acquired or implemented.

All employees responsible for snow and ice removal participate in annual Winter Preparedness Training.

Evaluation of at least one salt/chloride alternative - The Town along with USEPA, NHDES, NHDOT, Federal Highway Administration, and University of New Hampshire Technology Transfer Center evaluated alternatives to salt/chloride as part of the I-93 Salt Reduction Workgroup. The consensus of the entire group was that alternatives were either not economically feasible, were

highly corrosive to equipment infrastructure and vehicles, or would cause other water quality and stormwater pollution issues. Instead, an agreed upon Salt Reduction Plan focusing on Best Management Practices and improved technology and equipment was approved.

BMP: Permittee Owned Facilities Inventory

All permittee owned facilities, including inventory, are included in our SWMP. There were no changes to report during Year 3.

BMP: O&M Programs and Procedures For Permittee-Owned Properties

Standard Operating Procedures (SOPs) for Stormwater Pollution Prevention are complete and cover operations and procedures that have the potential to contribute to stormwater pollution. The SOPs will be included by reference in the Town's SWMP and cover the following topics:

- Waste Management
- Fueling
- Material storage
- Vehicle and Equipment Cleaning
- Transporting Equipment
- Vehicle and Equipment Storage
- Parks and Open Space Management
- Parking Lot Maintenance
- Chemical Application (pesticides, herbicides, fertilizers)
- Landscape Maintenance – Material Storage
- Mowing and Trimming – Grounds Maintenance
- Catch Basin Cleaning
- Swale and Ditch Maintenance
- Street Sweeping
- Planned Excavation Repair/Replacement
- Unplanned Excavation Repair/Replacement
- Vehicle and Equipment Maintenance
- Outdoor Vehicle and Equipment Maintenance

SOPs can be viewed at: <https://www.derrynh.org/environmental/pages/derry-municipal-separate-storm-sewer-system-general-permit-ms4gp>

BMP: Permittee Owned Treatment Structures

The Town continues to collect information during outfall inspections with a goal of inventorying and formally inspecting all municipally owned BMPs. SOPs and inventory updates are in progress. Any BMPs that are safety or flooding hazards are dealt with as needed.

BMP: SWPPP (due year 3)

A new SWPPP was prepared and implemented for the facilities where pollutants are stored and have the potential to be exposed to stormwater when handled. These include two (2) staffed facilities: Vehicle Maintenance Facility and Highway Garage; and three (3) unstaffed facilities: Salt Storage Facility, Winter maintenance Equipment Storage Building, and Buildings & Grounds Storage Building.

Since 2010, these facilities were incorporated into the SWPPP prepared for the Derry Transfer

Station and Recycling Facility under the MSGP program as all the facilities were adjacent to each other. Even though it was not required until Year 3 of the MS4GP, the Town proactively include these facilities into the SWPPP requiring these facilities to follow stormwater pollution prevention practices including undergoing quarterly inspections as a best management practice. However, during a USEPA webinar in Year 3, EPA stated this was inappropriate to include those additional facilities in the SWPPP for the Transfer Station and Recycling Facility. While the Town does not agree with EPA's position, a separate stand-alone SWPPP was prepared for the above referenced facilities during the Year 3 reporting period. The new standalone SWPPP for these facilities can be viewed at:

<https://www.derrynh.org/environmental/pages/derry-municipal-separate-storm-sewer-system-general-permit-ms4gp>

Quarterly inspections continued as they had for several years and include attendance during the inspection of at least one person from the respective manned facility. Corrective actions will be taken if necessary, and employees will be regularly trained as outlined in the SWPPP. In-person training begins in July and will be completed before the submittal of this report. The SWPPP and associated documentation are located at the Town of Derry Public Works office and at each manned facility covered under the SWPPP.

Number of site inspections for facilities that require a SWPPP completed: 4

Number of corrective actions identified: 0

Number of corrective actions taken: 0

BMP: Stormwater Treatment Structures Inspection and Maintenance Procedures

The Town of Derry continues to collect information with a goal of inventorying and inspecting all municipally owned BMPs. Maintenance is carried out in accordance with the procedures outlined in the SWMP. Any BMPs that are safety or flooding hazards are dealt with as needed.

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.

Outreach continues regarding pet waste disposal during this permit year as described previously in this report including Scoop the Poop Pledge Campaign, Pet Waste Cleanup signs at select town properties, and septic system maintenance.

The Town initiated steps to evaluate impacts to Hood Pond due to bacteria and phosphorus from Canadian geese. NHDES expressed the same concern during a site walk of Hood Park as part of the rescheduled (and subsequently cancelled due to Covid-19) Landscaping for Water Quality Class. Initial goose counts indicate up to 150 geese present at any one time at Hood Pond. The Town met with a goose management company to evaluate deterrent options such as application of goose repellent to the Hood Park lawns or the use of dogs and the appropriate timing of these options if implemented.

The Town is preparing a bacteria testing program to identify sources including testing of specific tributaries for e-coli during dry and wet weather. Based on these results, select samples will be tested using microbial source tracking (MST) to further differentiate the bacterial source. For Hood Pond, the testing will initially evaluate samples for bacteria from humans, dogs, and Canadian geese. Testing will begin in fall 2021.

Signs informing residents not to feed waterfowl remain in place. The Town is evaluating additional options to deter waterfowl.

Phosphorus

1. Outfalls to these receiving waters have been ranked as high priority for the IDDE implementation in the outfall ranking and enhanced BMP's have been implemented in accordance with the SWMP.
2. Funding Source Assessment has been completed.
3. Derry through its participation in the Lower Merrimack Valley Stormwater Coalition, and continued involvement with the NHDES led Pollutant Tracking and Accounting Program (PTAP) and the Pollutant Loading Maps (aka Hot Spot Maps), will work to satisfy the tracking and accounting requirement of the municipally owned structural and non-structural BMP's. Calculations are pending and will be completed in accordance with attachments of Appendix F. Some of this work is delayed pending NHDOT Design work through its consultant for the new I-93 Exit 4A project which will impact a significant portion of the Hood Pond watershed and a smaller portion of Beaver Lake watershed.

4. Derry Standard Operating Procedures for *Chemical Application (Pesticides, Herbicides, and Fertilizers)* specifies using non-phosphorus fertilizer in regular operations. This information is included in upcoming training to the Town employees involved in grounds maintenance. The Town also ensures the contractor responsible for maintaining and chemically treating the Town's athletic fields uses zero phosphorus fertilizer.
5. The I-93 Exit 4A project overseen by NHDOT is currently in the design phase with their consultant. The project crosses the entire Hood Pond Watershed and a portion of Beaver Lake watershed. This project underwent a complete Environmental Impact Review and EIS was approved by Federal Highway Administration and USEPA. Design includes addressing stormwater controls that meet the state and town's requirements for phosphorus and total suspended sediment removal. The Design phase started in April 2021 with Project Right of Way acquisitions ongoing and Demolition of acquired structures starting in Fall 2021. Construction of the first phase of the interchange and connector road scheduled to begin in 2022. The Exit 4A impacts the development of Lake Phosphorus Control Plan as the design of pending stormwater control improvements in progress and subject to change.
6. In Year 3, the Town amended the Land Development Control Regulations to meet requirements under Section 2.3.6.a. ii. of the permit regarding post-construction stormwater management for phosphorus. The amendment was approved on May 19, 2021.
The agenda can be found at:
<https://www.derrynh.org/planning-board/agenda/planning-board-agenda-05192021>
The approved minutes can be found at:
https://www.derrynh.org/sites/g/files/vyhlf3026/f/minutes/05.19.2021_minutes.pdf
The amended Land Development Control Regulations can be found at:
<https://ecode360.com/7626031>
7. The Town initiated steps to evaluate impacts to Hood Pond due to phosphorus from Canadian geese. As mentioned previously, NHDES expressed the same concern during a site walk of Hood Park as part of the rescheduled (and subsequently cancelled due to Covid-19) Landscaping for Water Quality Class. Goose feces can be a significant contributor of phosphorus. Initial goose counts indicate up to 150 geese present at any one time at Hood Pond and that are unlikely nesting near Hood Pond as they arrive between 9am and 10am. The Town met with a goose management company to evaluate deterrent options such as application of goose repellent to the Hood Park lawns or the use of dogs and the appropriate timing of these options if implemented.
8. Hood Pond/Hood Park Revitalization - The Town Economic Development Director with assistance from the Planning Department, initiated an effort to bring together community stakeholders that had an interest in improving and revitalizing Hood Park and Hood Pond, which is impaired for phosphorus. Hood Park public beach has remained closed for the past few years primarily due to inability to hire lifeguards but has had occasional exceedances for bacteria. The intent of the Economic Development team was to bring all these stakeholders together, create an outreach and engagement plan, and find out what the community wanted to see or envisioned for the future of Hood Park and Hood Pond.

In early July, a stakeholder group was identified by the Economic Development team and brought together to create the Steering Committee. To date, the Town Council recently

identified the revitalization of Hood Park as one of its top five goals. The Town has a Memorandum of Understanding with UNH Cooperative Extension to assist in guiding the outreach and engagement efforts. The Steering Committee engaged in the collection of information from the community. A report was prepared, outlining all the data collected from the community and was presented to Town Council to assist in guiding their policy for the next few fiscal years. The Steering Committee provided information so that Town Council can make an informed decision going forward. Various community organizations and individuals in town brought ideas as to what could happen with Hood Park – ranging from an arboretum, installation of some form of public arts, the addition of a small splash pad, exercise stations, and an aeration fountain.

All information about the Steering Committee and this effort including links to agendas, meeting minutes, Hood Park Survey results, Final Hood Park Outreach & Engagement Report, and Hood Park HUB can be found at: <https://www.derrynh.org/economic-development/webforms/hood-park-steering-committee>

Chloride

1. Outfalls to these receiving waters have been ranked as high priority for the IDDE implementation in the initial outfall ranking.
2. Derry, through its participation in the Lower Merrimack Valley Stormwater Coalition, and continued involvement with the NHDES-led Green Snow Pro Program, have completed winter road maintenance procedures and continues to advertise salt reduction BMPs on its website including public education regarding impacts of salt use and methods to reduce salt use on private property, and modifications to driving behavior in winter weather.
3. In Year 3, the Town reached out to commercial industries regulated under EPA's Multi-Sector General Permit with information on salt reduction and the Green SnowPro Program.
4. The Town continues to use BMPs identified in the Town's Salt Reduction Plan. These include equipment and operations BMPs. All employees involved in snow and ice removal are required to be trained in the Green SnowPro Program and calibrate all equipment at the beginning of each winter season.
5. Tracking of the amount of salt applied to all municipally owned and maintained surfaces and reporting of salt use has been completed. Year 3 usage is reported to NHDES using their MS4 Salt Usage reporting form. Total Salt: Town-Wide = 2812 tons, TMDL Watershed = 2204 tons.
6. This year the Town amended the Stormwater Ordinance to meet requirements of Appendix F, Part I, 1.b. to include requirements for private parking lot owners and operators of private street owners and operators to use commercial salt applicators trained and certified in accordance with Env-Wq 2203 (Green SnowPro) and to report annual salt usage using the UNH T2 Center online tool. The amendment was approved April 20, 2021. The Staff Report can be found at: <https://www.derrynh.org/sites/g/files/vyhlf3026/f/agendas/21->

[34 revision to chapter 131 stormwater management 0.pdf](#)

The April 6 and April 20, 2021 Town Council Agendas with the public hearing can be found at: <https://www.derrynh.org/node/46/agenda/2021> .

The updated ordinance can be found at the following link: <https://ecode360.com/13121730>

7. The Municipal Green Snow Pro Certification Program bill was delayed during the 2020 legislative session due to COVID-19. The bill was put back into legislation during the 2021 legislative session. In June of 2021, it was noted as “ought to pass” by the House of Representatives.
8. Implemented Chloride Reduction Plan is on file at the Town of Derry Public Works office. It is currently being updated to reflect the amended ordinance and the requirement for private/commercial parking lots.

Additional Required Information

Monitoring or Study Results

No additional monitoring or studies were completed.

Description of Any Changes in Identified BMPs or Measurable Goals

Derry 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 for the Next Reporting Cycle

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