

Year 6 Annual Report
Massachusetts Small MS4 General Permit
Reporting Period: July 1, 2023-June 30, 2024

Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form. Also ensure any websites included on this form are to publicly accessible sites

Unless otherwise noted, all fields are required to be filled out. If a field is left blank, it will be assumed the requirement or task has not been completed. Please ONLY report on activities between July 1, 2023 and June 30, 2024 unless otherwise requested.

Part I: Contact Information

Name of Municipality or Organization:

EPA NPDES Permit Number:

Primary MS4 Program Manager Contact Information

Name:

Title:

Street Address Line 1:

Street Address Line 2:

City:

State:

Zip Code:

Email:

Phone Number:

Stormwater Management Program (SWMP) Information

SWMP Location (publicly available web address):

Date SWMP was Last Updated:

If the SWMP is not available on the web please provide the physical address:

Part II: Self-Assessment

First, in the box below, select the impairment(s) and/or TMDL(s) that are applicable to your MS4. Make sure you are referring to the most recent EPA approved Section 303(d) Impaired Waters List which can be found here: <https://www.epa.gov/tmdl/region-1-impaired-waters-and-303d-lists-state>

Impairment(s)			
<input checked="" type="checkbox"/> Bacteria/Pathogens	<input checked="" type="checkbox"/> Chloride	Nitrogen	Phosphorus
<input checked="" type="checkbox"/> Solids/ Oil/ Grease (Hydrocarbons)/ Metals			
TMDL(s)			
<i>In State:</i>	Assabet River Phosphorus	<input checked="" type="checkbox"/> Bacteria and Pathogen	Cape Cod Nitrogen
	<input checked="" type="checkbox"/> Charles River Watershed Phosphorus	Lake and Pond Phosphorus	
<i>Out of State:</i>	Bacteria/Pathogens	Metals	Nitrogen
			Phosphorus
Clear Impairments and TMDLs			

Next, check off all requirements below that have been completed. **By checking each box you are certifying that you have completed that permit requirement fully.** If you have not completed a requirement leave the box unchecked. Additional information will be requested in later sections.

Annual Requirements

- Provided an opportunity for public participation in review and implementation of SWMP and complied with State Public Notice requirements
- Kept records relating to the permit available for 5 years and made available to the public
 - The SSO inventory has been updated, including the status of mitigation and corrective measures implemented
 - This is not applicable because we do not have sanitary sewer
 - This is not applicable because we did not find any new SSOs
 - The updated SSO inventory is attached to the email submission
 - The updated SSO inventory can be found at the following publicly available website:
- Updated system map due in year 10 with information from completed catchment investigations
- Provided training to employees involved in IDDE program within the reporting period
- Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
- All curbed roadways were swept at least once within the reporting period
- Enclosed all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities

- × Updated inventory of all permittee owned facilities as necessary
- × O&M programs for all permittee owned facilities have been completed and updated as necessary
- × Implemented all maintenance procedures for permittee owned facilities in accordance with O&M programs
- × Implemented program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- × Inspected all permittee owned treatment structures (excluding catch basins)

Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

Bacteria/ Pathogens (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)

Annual Requirements

*Public Education and Outreach**

- × Annual message was distributed encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
 - × Permittee or its agents disseminated educational material to dog owners at the time of issuance or renewal of dog license, or other appropriate time
- Provided information to owners of septic systems about proper maintenance in any catchment that discharges to a water body impaired for bacteria
- × This is not applicable because there are no septic systems present

** Public education messages can be combined with other public education requirements as applicable (see Appendix H and F for more information)*

Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

Educational material for dog owners used to be funded by a Grant. Copies of the "Pet Waste Disposal" are in the public information area in the lobby where dog owners get their licenses. Copy is attached. There are no septic systems in any catchment that discharges to a water body impaired for bacteria or pathogens.

Chloride

Annual Requirements

Public Education and Outreach

- × Included an annual message in November/ December to private road salt applicators and commercial industrial site owners on the proper storage and application rates of winter deicing material, along with the steps that can be taken to minimize salt use and protect local waterbodies

The following type(s) of salt were applied during this reporting period (year 6):

- × Sodium chloride
- Calcium chloride
- Potassium chloride

Magnesium chloride

Brine solution

Total amount of salt applied **during this reporting period (year 6) including units:**

2345 tons

Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

Salt brine (manufactured in-house), rock salt, and BioMelt AG-64 (Sugar Beet, Corn and Soybean Derivative) Brine Enhancer. 8. We used 82,331 gallons of 90/10 salt brine/AG-64. We have a SNOW Pamphlet that is available to the Public, and we get information published in the newspaper before the season begins. Standard Operating Procedure for Winter Road Maintenance is attached. The Salt Reduction Plan will be completed consistent with EPA regulations. We will further investigate new technologies and update as we go. We will continue this approach with current technologies and implement as we see fit. Our Operations manager has trained multiple municipalities in New England about the importance of winter road maintenance, use and storage of salt and sand and proper disposal of snow.

Solids, Oil and Grease (Hydrocarbons), or Metals
Annual Requirements

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

- Increased street sweeping frequency of all municipal owned streets and parking lots to a schedule that targets areas with potential for high pollutant loads
 - The street sweeping schedule is attached to the email submission
 - The street sweeping schedule can be found at the following publicly available website:

- Prioritized inspection and maintenance for catch basins to ensure that no sump shall be more than 50 percent full; Cleaned catch basins more frequently if inspection and maintenance activities indicated excessive sediment or debris loadings

Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

The Town sweeps the entire Town once in the spring and two times in the Fall. During the summer we sweep main roads on a regular basis and neighborhoods when time permits. The Downtown area gets swept twice a week throughout the sweeping season. The Town will sweep the Charles River Watershed first in the Fall and return there at the end of the season if time permits.

Charles River Watershed Phosphorus TMDL

Below, calculate your current phosphorus export rate by first filling out the individual phosphorus loading components (labeled [A], [B], [C], and [D]) and then computing your current phosphorus export rate using the equation provided.

Baseline phosphorus export rate from PCP Area, as identified in Appendix F (lbs/year) [A]:

1,168

Total phosphorus reduction from all nonstructural controls

1.9

implemented **this reporting period (lbs/year) [B]:**

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

Phosphorus load increase due to development incurred since 2005 in **lbs/year [D]:**

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

I certify under penalty of law that all source control and treatment Best Management Practices being claimed for phosphorus reduction credit have been inspected, maintained and repaired in accordance with manufacturer or design specification. I certify that, to the best of my knowledge, all Best Management Practices being claimed for a phosphorus reduction credit are performing as originally designed.

All municipally owned and maintained turf grass areas are being managed in accordance with Massachusetts Regulation 331 CMR 31 pertaining to proper use of fertilizers on turf grasses

Implemented all nonstructural control measures **during this reporting period** and documented the measures and their phosphorus reduction. The nonstructural control measure information:

- is attached to the email submission
- can be found at the following publicly available website:

Documented the structural control measures implemented during **this reporting period and all previous years**, including location, phosphorus reduction in mass/year, and date of last completed maintenance and inspection for each control. The structural control measure information:

- is not applicable; no structural control measures were implemented
- is attached to the email submission
- can be found at the following publicly available website:

The Phase 1 PCP: (select one of the following options. If you submitted your PCP last year and have an updated website, please include the website below)

- was submitted in the Year 5 Annual Report
- is attached to the email submission
- can be found at the following publicly available website:

Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

NON-TRADITIONAL AND TRANSPORTATION MS4s ONLY- municipalities please skip this section:

Describe the planned phosphorus reduction activities on site and coordination progress with the applicable municipality:

Optional: Use the box below to provide any additional information you would like to share as part of your self-assessment:

Part III: Receiving Waters/Impaired Waters/TMDL

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

- Yes
- No

If yes, describe below, including any relevant impairments or TMDLs:

Part IV: Minimum Control Measures

Please fill out all of the metrics below. If applicable, include in the description who completed the task if completed by a third party.

MCM1: Public Education

Number of educational messages completed **during this reporting period:**

Below, report on the educational messages completed **during this reporting period**. For the measurable goal(s) please describe the method/measures used to assess the overall effectiveness of the educational program.

BMP: Scoop the Poop

Message Description and Distribution Method:

The Town of Lexington shared the following message on the Town's Facebook page:
This pup is ready for the rain - are you? Remember to ring dog waste bags and #scoopthepoop! Regularly scooping your dog's poop from public areas AND your backyard prevents the poop from washing into our waterways when it rains. For more info, visit: <http://mysticriver.org/stormwater>

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Message Date(s):

Message Completed for: Appendix F Requirements Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP: Adopt-a-Drain

Message Description and Distribution Method:

The Town of Lexington shared the following message on the Town's Facebook page:
It's another rainy day. Have you adopted a storm drain near you yet?

An Adopt-A-Drain program is a volunteer program that helps keep our local environment clean and healthy. Participants sign up to adopt a drain (or drains!) and then check on that drain before and after heavy rain, wind, or snow. Anything that goes down the drain ends up in the Mystic River or Lakes, which is why this program is so helpful. Keeping the drains clear can also help prevent streets from flooding, as it ensures the water can freely flow down the drain.

Adopt-a-Drain today and help keep our waterways clean!

Learn more: <https://www.lexingtonma.gov/1705/Adopt-a-Drain>

Targeted Audience: Residents

Responsible Department/Parties: Engineering

Measurable Goal(s):

1 Comment

Message Date(s): 7/10/2023

Message Completed for: Appendix F Requirements ✕ Appendix H Requirements ✕

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP: Fertilizer

Message Description and Distribution Method:

The Town of Lexington shared the following message on the Town's Engineering X (formerly Twitter) page: Giving your lawn some extra TLC during these days at home? If you're considering fertilizer, be sure to use a slow-release, non-phosphorus fertilizer (look for "0" as the middle number).

And as an alternative to fertilizer, consider scattering fresh grass seeds, aerating your soil, or planting some of the native shrubs you've seen. Compost is another good alternative to chemical fertilizers.

If you use too much fertilizer, the excess will just wash away in the next rain, polluting your local waterways. Want more tips? Visit mysticriver.org/stormwater or [lexingtonma.gov/277/Stormwater](https://www.lexingtonma.gov/277/Stormwater)

Targeted Audience: Residents

Responsible Department/Parties: Engineering

Measurable Goal(s):

292 views, 4 likes, 1 comment

Message Date(s): 7/17/2023

Message Completed for: Appendix F Requirements ✕ Appendix H Requirements ✕

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP: Fertilizer

Message Description and Distribution Method:

The Town of Lexington shared the following message on the Town's Facebook page:

Giving your lawn some extra TLC during these days at home? If you're considering fertilizer, be sure to use a slow-release, non-phosphorus fertilizer (look for "0" as the middle number). And as an alternative to fertilizer, consider scattering fresh grass seeds, aerating your soil, or planting some of the native shrubs you've seen. Compost is another good alternative to chemical fertilizers.

If you use too much fertilizer, the excess will just wash away in the next rain, polluting your local waterways. Want more tips? Visit: mysticriver.org/stormwater

Targeted Audience: Residents

Responsible Department/Parties: Engineering

Measurable Goal(s):

4 likes

Message Date(s): 7/18/2023

Message Completed for: Appendix F Requirements ✖ Appendix H Requirements ✖

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP: Adopt-a-Drain

Message Description and Distribution Method:

The Town of Lexington shared the following message on the Town's Facebook page:

Looking for a fun activity to do on #NationalParentsDay this Sunday? Cleaning your adopted drain is a great way to spend time together while helping the environment! Here are some awesome water warriors doing their part for clean water.

Storm drains flow directly into our local lakes, rivers, and wetlands. Rain can carry leaves, trash, and other debris and nutrients that can, in abundance, harm our waters. Just five bags worth of leaves can deliver one pound of phosphorus to a water body and result in up to 1,000 pounds of algae blooms. Adopting a drain is simple, yet effective step in preventing this!

Join your neighbors by adopting your neighborhood storm drain at: <https://lexington.mysticdrains.org/>

Targeted Audience: Residents

Responsible Department/Parties: Engineering

Measurable Goal(s):

1 like

Message Date(s): 7/21/2023

Message Completed for: Appendix F Requirements ✕ Appendix H Requirements ✕

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP: Trash

Message Description and Distribution Method:

The Town of Lexington shared the following message on the Town's Engineering X (formerly Twitter) page: #CleanWaterTip! Be sure to close the lid to your trash can after throwing something away. This keeps wind from blowing trash out of the can & into our waterways. A closed lid also prevents rain from entering the can & picking up pollutants before flowing into our rivers.

*Note: This message was also shared in Mandarin

Targeted Audience: Residents, Businesses, Institutions, Commercial Facilities, Industrial Facilities

Responsible Department/Parties: Engineering

Measurable Goal(s):

581 views, 1 comment, 1 repost

Message Date(s): 8/18/2023

Message Completed for: Appendix F Requirements ✕ Appendix H Requirements ✕

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP: Trash

Message Description and Distribution Method:

The Town of Lexington shared the following message on the Town's Facebook page: #CleanWaterTip! Make sure to close the lid of your trash can after throwing something away. This keeps wind from blowing trash out of the can and into our waterways. A closed lid also prevents rain from entering the can and picking up pollutants before flowing into rivers.

*Note: This message was also shared in Mandarin

Targeted Audience: Residents, Businesses, Institutions, Commercial Facilities, Industrial Facilities

Responsible Department/Parties: Engineering

Measurable Goal(s):

5 likes

Message Date(s): 8/22/2023

Message Completed for: Appendix F Requirements ✕ Appendix H Requirements ✕

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP: Pool Water/Chlorine

Message Description and Distribution Method:

The Town of Lexington shared the following message on the Town's Engineering X (formerly Twitter) page: It's that time of year! When closing your pool be sure not to drain chlorinated water into the storm drains where it will flow into our rivers, lakes, & streams! Wait for chlorine levels to drop before discharging slowly onto your lawn.

(Pool water should be close to neutral (pH 6.5-8.5), and chlorine less than 0.01 mg/L).

Targeted Audience: Residents

Responsible Department/Parties: Engineering

Measurable Goal(s):

209 views, 3 likes, 1 comment, 1 repost

Message Date(s): 9/20/2023

Message Completed for: Appendix F Requirements ✕ Appendix H Requirements ✕

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP: Pool Water/Chlorine

Message Description and Distribution Method:

The Town of Lexington shared the following message on the Town's Facebook page:
 Be sure not to drain chlorinated water into the storm drain, or it will end up in our rivers, lakes, and streams!
 Instead, wait for chlorine levels to drop before discharging slowly onto your lawn. (Pool water should be close to neutral (pH 6.5-8.5), and chlorine less than 0.01 mg/L).

Targeted Audience: Residents

Responsible Department/Parties: Engineering

Measurable Goal(s):

9 likes, 2 comments, 1 share

Message Date(s): 9/20/2023

Message Completed for: Appendix F Requirements ✕ Appendix H Requirements ✕

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP: Rain Garden**Message Description and Distribution Method:**

The Town of Lexington shared the following message on the Town's Engineering X (formerly Twitter) page:
 Thinking about transforming your yard? Make a rain garden!
 Rain gardens have multiple benefits including:
 -Filtering pollutants
 -Beautifying the landscape
 -Providing habitat for local wildlife
 For more #CleanWaterTips, visit mysticriver.org/stormwater

Targeted Audience: Residents, Developers (Construction)

Responsible Department/Parties: Engineering

Measurable Goal(s):

333 views, 1 like, 1 repost

Message Date(s): 10/17/2023

Message Completed for: Appendix F Requirements ✕ Appendix H Requirements ✕

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP: Rain Garden

Message Description and Distribution Method:

The Town of Lexington shared the following message on the Town's Facebook page:
Clean Water Tip: Transform Your Yard & Protect Our Waters with a Rain Garden

When rain falls onto roads, parking lots, rooftops, and other paved surfaces that do not allow rain to soak into the ground, it becomes stormwater runoff. Stormwater runoff poses a significant threat to the environment, as it carries pollutants like trash, oil, and fertilizers into our streams and rivers. Stormwater runoff is the leading cause of pollution in urban streams!

Rain gardens are crucial in protecting our waterways from these pollutants.

While beautifying the landscape, rain gardens also maintain functionality, incorporating native plants and attracting local wildlife - a win-win!

Targeted Audience: Residents, Developers (Construction)

Responsible Department/Parties: Engineering

Measurable Goal(s):

7 likes, 1 comment

Message Date(s): 10/18/2023

Message Completed for: Appendix F Requirements ✕ Appendix H Requirements ✕

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP: Snow and Ice

Message Description and Distribution Method:

The Town of Lexington shared the following message on the Town's X (formerly Twitter) page:
The snow has finally arrived

Reminders for residents: lexingtonma.gov/303/Snow-Ice-Removal

- Adopt a hydrant! Make sure hydrants on or around your property are clear of snow
- Remove any items from the road (garbage cans, basketball hoops, etc.)
- Be safe & smart!

Targeted Audience: Residents

Responsible Department/Parties: Engineering

Measurable Goal(s):
2,940 views, 2 likes, 1 repost

Message Date(s): 1/7/2024

Message Completed for: Appendix F Requirements ✕ Appendix H Requirements ✕

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP: Adopt-a-Drain

Message Description and Distribution Method:
The Town of Lexington shared the following message on the Town's Facebook page:
Spring brings flowers...and showers! Next time it rains, consider checking on a storm drain near your house to make sure it's clear of debris and trash. Adopting a storm drain help lead to cleaner waterways and healthier communities.

Learn more at www.mysticriver.org/adopt-a-drain

Targeted Audience: Residents

Responsible Department/Parties: Engineering

Measurable Goal(s):
9 likes, 2 shares

Message Date(s): 5/14/2024

Message Completed for: Appendix F Requirements ✕ Appendix H Requirements ✕

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP: Dog Waste

Message Description and Distribution Method:
The Town of Lexington shared the following message on the Town's Facebook page:

Be kind... don't leave pet waste behind! With all the rain we've had this Spring, it is important to remember that regularly picking up after your dog prevents waste from washing into our water ways. This is just as important for both public areas and your backyard!

To learn more about storm water runoff, visit the Mystic River Watershed website:

Targeted Audience: Residents

Responsible Department/Parties: Engineering

Measurable Goal(s):

4 likes, 2 comments

Message Date(s): 5/17/2024

Message Completed for: Appendix F Requirements ✕ Appendix H Requirements ✕

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP: Rain Barrel

Message Description and Distribution Method:

The Town of Lexington shared the following message on the Town's Facebook page: Purchasing a rain barrel for your residence conserves water supply and cuts household water bills up to 40 percent! As part of an ongoing conservation program, the Town of Lexington has partnered with Great American Rain Barrel to offer discounts on rain barrels to residents. The deadline to order is July 14, 2024, at midnight. Learn more about this program and how to order: <https://ow.ly/eHjV50RNUAT>

Targeted Audience: Residents

Responsible Department/Parties: Engineering

Measurable Goal(s):

14 likes, 4 comments, 2 shares

Message Date(s): 5/20/2024

Message Completed for: Appendix F Requirements ✕ Appendix H Requirements ✕

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP: Grass Clippings

Message Description and Distribution Method:

The Town of Lexington shared the following message on the Town's Facebook page:
 How you care for your lawn has a major impact on our environment! Grass clippings and phosphorus-based fertilizers are bad for our waterways. When mowing your lawn, make sure you don't leave grass clippings on the sidewalk or near a storm drain. Instead, you can leave the clippings to decompose and feed your lawn, compost them to make a natural fertilizer, or place them out for yard-waste pickup.

Taking care of your lawn properly is an easy way to help take care of our waterways! Learn more about environmentally friendly lawn maintenance:

Targeted Audience: Residents

Responsible Department/Parties: Engineering

Measurable Goal(s):

2 likes, 1 comment, 1 share

Message Date(s): 5/29/2024

Message Completed for: Appendix F Requirements ✕ Appendix H Requirements ✕

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP: Low Impact Development

Message Description and Distribution Method:

The following message was shared on the Mystic River Watershed Association Facebook page:
 #CleanWaterTip

Are you in development or construction? Thinking about making changes to your commercial or residential site? Check out this Low Impact Development Toolkit from the Metropolitan Area Planning Council (MAPC)
 >>> <https://ow.ly/CCNc50PJmYB>

Low Impact Development integrates stormwater management directly into site design, not as a secondary consideration!

Targeted Audience: Developers (construction)

Responsible Department/Parties: External Contractor

Measurable Goal(s):

334 Impressions, 343 People Reached, 1 like

Message Date(s): 9/9/2023

Message Completed for: Appendix F Requirements ✕ Appendix H Requirements ✕

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP: General Stormwater

Message Description and Distribution Method:

The following message was shared on the Mystic River Watershed Association Facebook page along with an accompanying video:

Did you know that many pollutants, including trash, phosphorus, and road salt, wash from the streets into our waterways when it rains? Check out this video from Turnaround Films to learn more about the problem of stormwater pollution.

And visit <https://mysticriver.org/stormwater> for simple tips you can follow to reduce stormwater pollution in your neighborhood.

Targeted Audience: Residents, Businesses, Institutions, and Commercial Facilities

Responsible Department/Parties: External Contractor

Measurable Goal(s):

131 Impressions, 121 People Reached, 4 likes, 1 share

Message Date(s): 12/18/2023

Message Completed for: Appendix F Requirements ✕ Appendix H Requirements ✕

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP: Equipment Maintenance

Message Description and Distribution Method:

The following message was shared on the Mystic River Watershed Association Facebook page:

Make your list and check it twice!

Reduce #stormwaterpollution by taking care of your materials and equipment. Storing materials properly, regularly inspecting containment systems, and using stormwater safe maintenance procedures leads to a safer workplace AND cleaner water.

#CleanWaterTip

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Message Date(s):

Message Completed for: Appendix F Requirements Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP: Salt + De-Icer

Message Description and Distribution Method:

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Message Date(s):

Message Completed for: Appendix F Requirements Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

BMP: Erosion Control Class

Message Description and Distribution Method:

are reviewed and required to show erosion controls on the plot plan.

Targeted Audience: Developers (construction)

Responsible Department/Parties: Engineering

Measurable Goal(s):

Message Date(s): July 1, 2023 - Present

Message Completed for: Appendix F Requirements Appendix H Requirements

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

This step has continued from previous years to help reduce construction site erosion.

BMP: General Stormwater - May 2024

Message Description and Distribution Method:

DPW at the Lexington, MA Public Works Department. Town Engineering staff educated residents and children on the importance of keeping our stream and ponds clean by not littering, using safe fertilizers, picking up leaf litter, picking up dog waste, and more. Utilizing an Enviroscope, Town Engineering staff were able to demonstrate how drainage works. The Adopt-A-Drain program was also marketed to residents during DPW Day.

Targeted Audience: Residents

Responsible Department/Parties: Engineering

Measurable Goal(s):
150 residents attended

Message Date(s): 5/23/2024

Message Completed for: Appendix F Requirements x Appendix H Requirements x

Was this message different than what was proposed in your NOI? Yes No

If yes, describe why the change was made:

Add an Educational Message

MCM2: Public Participation

Describe the opportunity provided for public involvement in the development of the Stormwater Management Program (SWMP) **during this reporting period:**

SWMP was posted to the website with contact information for any comments or questions from visitors.

Was this opportunity different than what was proposed in your NOI? Yes No

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

A total of 55 drains have been adopted as part of our Adopt-A-Drain program. 26 of those drains were adopted between July 1st, 2023 and June 30th, 2024.

MCM3: Illicit Discharge Detection and Elimination (IDDE)

Sanitary Sewer Overflows (SSOs)

Check off the box below if the statement is true.

This SSO section is NOT applicable because we DO NOT have sanitary sewer

*Below, report on the number of SSOs identified in the MS4 system and removed **during this reporting period.***

Number of SSOs identified:

Number of SSOs removed:

MS4 System Mapping

Percent of Phase II map complete:

Optional: Provide additional status information regarding your map:

Map updates are made in real time. We have the ability to update GIS maps in office and in the field.

Screening of Outfalls/Interconnections

If conducted, please submit any outfall monitoring results from this reporting period. Outfall monitoring results should include the date, outfall/interconnection identifier, location, weather conditions at time of sampling, precipitation in previous 48 hours, field screening parameter results, and results from all analyses. Please also include the updated inventory and ranking of outfalls/interconnections based on monitoring results.

- No outfalls were inspected
- The above referenced outfall screening data is attached to the email submission
- The above referenced outfall screening data can be found at the following publicly available website:

*Below, report on the number of outfalls/interconnections screened **during this reporting period**.*

Number of outfalls screened:

*Below, report on the percent of outfalls/interconnections screened **to date**.*

Percent of outfalls screened:

Optional: Provide additional information regarding your outfall/interconnection screening:

All located outfalls/interconnections have been screened. Those that have been unable to be located have been sampled from the nearest upstream structure. The Town began IDDE verification work to evaluate locations for potential illicit connections to the drainage system in PY 5 and continued the work into PY 7. Some of the outfalls were screened more than once.

Catchment Investigations

If conducted, please submit all data collected during this reporting period as part of the dry and wet weather investigations. Also include the presence or absence of System Vulnerability Factors for each catchment.

- No catchment investigations were conducted
- The catchment investigation data is attached to the email submission
- The catchment investigation data can be found at the following publicly available website:

*Below, report on the number of catchment investigations completed **during this reporting period**.*

Number of catchment investigations completed this reporting period:

*Below, report on the percent of catchments investigated **to date**.*

Percent of total catchments investigated:

Optional: Provide any additional information for clarity regarding the catchment investigations below:

The Town began IDDE verification work to evaluate these locations for potential illicit connections to the drainage system in PY 5 and continued the work into PY 6. The Town is continuing to do investigations where possible and working to develop a plan to determine illicit connections that are within safety protocols.

IDDE Progress

If illicit discharges were found, please submit a document describing work conducted over this reporting period, and cumulative to date, including location source; description of the discharge; method of discovery; date of discovery; and date of elimination, mitigation, or enforcement OR planned corrective measures and schedule of removal.

- No illicit discharges were found
- The illicit discharge removal report is attached to the email submission
- The illicit discharge removal report can be found at the following publicly available website:

Below, report on the number of illicit discharges identified and removed, along with the volume of sewage removed during this reporting period.

Number of illicit discharges identified:

Number of illicit discharges removed:

Estimated volume of sewage removed: gallons/day

Below, report on the total number of illicit discharges identified and removed to date. At a minimum, report on the number of illicit discharges identified and removed since the effective date of the permit (July 1, 2018).

Total number of illicit discharges identified:

Total number of illicit discharges removed:

Optional: Provide any additional information for clarity regarding illicit discharges identified, removed, or planned to be removed below:

Our IDDE program has grown tremendously with the use of our staff, stormwater interns, and stream team interns who have all had IDDE training prior to outfall screening and sampling. We have our own equipment in house, a quickzoom camera, and a CCTV contractor under contract.

Employee Training

Describe the frequency and type of employee training conducted during this reporting period:

- Marissa (Senior Civil Engineer) –
1. Cleaner rivers, resilient communities: Keys to stormwater funding for the Northeast (6/4/24)
 2. CMAC Design - Optimizing Underground Detention (4/25/24)
 3. Illicit Discharge Detection & Elimination (IDDE) Training for MS4 Permitting (2/29/24)
 4. UNH Stormwater Site Design (12/6/23)
 5. UNH Stormwater Treatment System Design Part I (1/11/24)
 6. UNH Stormwater Treatment System Design Part II (2/8/24)
 7. UNH Stormwater Modelling (3/20/24)
 8. USGS- StreamStats Workshop (10/18/23)
 9. NASSCO's 2023 Beantown Exchange (9/20/23)
 10. MassDEP Wetlands Resilience 1.0 Regulations Public Information Session 1 (1/18/24)
 11. MassDEP Wetlands Resilience Regulations - Public Hearing 1 (1/31/24)
 12. MVP Winter Webinar #1 (2/14/24)
 13. MVP Winter Webinar #2 (2/21/24)
 14. RDA: What to Expect in 2024? (3/7/24)

15. Stream Crossing Standards Webinar (4/9/24)
16. Municipality Phosphorus Control Plan Workshop (6/25/24)

John (Town Engineer) –

1. NE APWA Fall Conference (10/18/23)
2. NEWEA Stormwater Conference (1/21/24-1/24/24)

Matt (Senior Civil Engineer) –

1. NE APWA Fall Conference (10/18/23)

Meghana (Senior Civil Engineer/GIS) –

1. NE APWA Fall Conference (10/18/23)
2. UNH Hydrology Class (11/8/23)
3. UNH Stormwater Modeling (3/20/24)

Dave Pavlik (Water/Sewer Superintendent) –

1. NE APWA Fall Conference (10/18/23)

Marc Valenti (Operations Manager) -

working as a trainer presenting the sessions:

1. UMTC “All About Liquids” – Use Winter Liquids including but not limited to types of liquids, when to use/ not to use, application rates, etc. (Nov 2023 in Sudbury, MA and Dec 2023 in Acton, MA)
2. APWA North American Snow Conference (April 2024)
 - Winter Certificate Program – Snow & Ice Controls, including BMP’s for Plowing, Chloride Treatment & Chloride Reduction
3. Presentations of BMP’s on street sweeping at the NEWEA Conference (March 2024)
 - BMP’s for Lexington’s Street Sweeping Program and move towards Phosphorus Reduction
4. Presentations of New Technologies in Winter Liquids at the APWA North American Snow Conference (April 2024)
 - New & Innovative Deicing Additives – Overview of New Winter Liquids and the benefits of them to the operations & environment. Proper techniques for testing and qualifying their sustainability socially, environmentally & fiscally
5. Clear Roads Initiative Project 22-02 – Best Management Practices for Liquid Chloride Storage & Pumping Systems
6. Apple Based Organic Deicer Project – R & D of new Patented Organic Deicer

MCM4: Construction Site Stormwater Runoff Control

*Below, report on the construction site plan reviews, inspections, and enforcement actions completed **during this reporting period.***

Number of site plan reviews completed:

Number of inspections completed:

Number of enforcement actions taken:

Optional: Enter any additional information relevant to construction site plan reviews, inspections, and enforcement actions:

Erosion and Sediment Training for contractors and builders/developers was continued this permit year. Due to COVID, in-person trainings were restricted to email only and handouts were sent to applicants for all trench permits. They must send the town an email stating they read and understand the erosion and sediment control requirements before a trench permit will be issued. This training aims to capture the majority of soil disturbing construction activities, including the ones below the acre threshold. We have issued 6 warnings in permit year 6 and 1 enforcement order. All properties are now in compliance.

MCM5: Post-Construction Stormwater Management in New Development and Redevelopment

Ordinance or Regulatory Mechanism

Date update was completed (due in year 3):

Website of ordinance or regulatory mechanism:

https://www.lexingtonma.gov/DocumentCenter/View/9663/Updated-Lexington-Stormwater-Regulations-09_18_2023_CLEAN?bidId=

As-built Drawings

*Below, report on the number of as-built drawings received **during this reporting period**.*

Number of as-built drawings received:

Optional: Enter any additional information relevant to the submission of as-built drawings:

As-builts are required as part of the Stormwater Management Regulations. On-going O & M is required through the regulations as well, however enforcement is an issue the Town is trying to solve as this has been difficult to enforce. Some of the permitted projects issued in PY6 and before that have not been completed and are still under construction so as-builts have not been required of them yet.

Updated Regulations are geared towards Planning permits for developments greater than 10,000 square feet and are peer reviewed through the Planning Board.

Street Design and Parking Lots Report

Below, describe any changes made or planned to be made to local regulations and guidelines based on the report completed in Year 4:

The Town has updated their Planning Board Zoning Regulations for new development to require the submittal of stormwater reports and long-term SCM O&M plans for all major site plan review projects. These new regulations are consistent with the updated phosphorus removal and long-term O&M requirements in the Town's recently updated Stormwater Management Regulations. The Town is considering changes to Zoning requirements in Planned Commercial (CD) Zones and/or Transportation Management Overlay (TMO) Zones to encourage redevelopment and improvement of stormwater facilities on development parcels and roadways.

Green Infrastructure Report

Below, describe progress towards making green infrastructure practices allowable based on the report completed in Year 4:

The local regulations do not restrict the use of green infrastructure practices. The town continues to refine and update its policies to promote green infrastructure and reduce impervious surface impacts.

Goals:

- Consider updates to incentivize phosphorus control options using EPA Region 1 Performance Curves.
- Develop a Town of Lexington Stormwater Design manual that guides land development applicants with selection of stormwater controls that provide the most beneficial stormwater nutrient controls.
- Develop a policy and guide to encourage Public/Private Partnerships.
- Develop a Stormwater Grant Program to provide funding for non-residential property owners to design and construct stormwater retrofits.

Retrofit Properties Inventory

Below, list remaining permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas (must maintain a minimum of 5 sites in inventory until less than 5 sites remain):

Jonas Clarke Middle School
 Bowman Elementary School
 Regional Retrofit 1 – Munroe Road
 Regional Retrofit 2 – Philip Road
 Regional Retrofit 3 – Green Lane
 Regional Retrofit 4 – Valleyfield Street 1
 Regional Retrofit 5 – Valleyfield Street 2
 Roadway Retrofit – Ewell Avenue
 Roadway Retrofit – Benjamin Road
 Roadway Retrofit – Valleyfield Street
 Roadway Retrofit – Crosby Road
 Roadway Retrofit – Clematis Road
 Roadway Retrofit – Elena Road
 Roadway Retrofit – Piper Road
 Roadway Retrofit – Allen Street
 Please refer to the PCP report submitted as an attachment.

Below, list all properties that have been modified or retrofitted with BMPs to mitigate impervious area that were inventoried as part of 2.3.6.d of the permit and the type of BMP(s) implemented. Non-MS4 owned properties that have been modified or retrofitted with BMPs to mitigate impervious area may also be listed, but must be indicated as non-MS4.

10 Pelham Rd, 3 Forbes Rd, 99 Hayden Ave, 727 Marrett Rd, 200 Shire Way, 92 Hayden Ave, 3022 Massachusetts Ave/752 Marrett Rd, 7 Clematis Rd, 80 Hayden Ave, 1075 Waltham St, 594 Marrett Rd, 324 Marrett Rd, 75 Concord Ave, 690 Marrett/Route 128, 187 Spring St, 39 Marrett Rd, 453 Concord Ave, 18-15D (300 Shire Way), 18-15F (200Shire Way), 18-15G (400 Shire Way), 20 Pelham Rd, 756-758 Marrett Rd, 332 Concord Ave, 17 Stedman Rd, 9 Philip Rd, 45-55 Hayden Ave, 7 Crosby Rd, 1050 Waltham, 45 Lincoln St, 62 Grassland St, 72 Grassland St, 151 Grove St, 310 Concord Ave, 8 Cutler Farm Rd, 8 Cutler Farm Rd, 13 Cutler Farm Rd, 14 Cutler Farm Rd, 116 School St, 19 Wellington Ln, 9 Woodcliffe Rd, 31

Barberry Rd, 33 Barberry Rd, 66 Valleyfield St, 65 Munroe Rd, 66 Munroe Rd, 5 Stonewall Rd, 411 Concord Ave, 470 Concord Ave, 60 Munroe Rd, 37 Barberry Rd, 33 Dawes Rd, 53-55 Watertown St, 56 Watertown St, 960-1010 Waltham, 10 Philip Rd, 443 Lincoln St (Hobbs Brook Ln), 71 Bridge St, 10 Stedman (32 Brookside Ave), 10 Winston, 2 Paddock Ln, 6 Blossom St, 26 Middle St, 64 Middle St, 3 Crescent Rd, 31 Cary Ave, 33 Cary Ave, 35 Cary Ave, Cary Ave, 32 Middle St, 1000 Main Campus Dr, Grey Oaks Cir, 10 Churchill Ln, 341 Marrett Rd, 14 Middle St, 17 Cary Ave, 2 Brookside Ave, 114 Marrett Rd, 24 Valleyfield St, 430 Concord Ave, Journeys End Ln, 55 Cary Ave, 12 Brookside Ave.
 Please refer to the PCP report attached.

MCM6: Good Housekeeping

Catch Basin Cleaning

*Below, report on the number of catch basins inspected and cleaned, along with the total volume of material removed from the catch basins **during this reporting period**.*

Number of catch basins inspected:

Number of catch basins cleaned:

Total volume or mass of material removed from all catch basins:

Below, report on the total number of catch basins in the MS4 system.

Total number of catch basins:

If applicable:

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

The town has developed a program to analyze catch basin cleaning data to identify basins that need to be cleaned more than once a year. This program will be run on a yearly basis to direct work in order to meet permit requirements. Please see attachment, "50 full CB Data Email".

Street Sweeping

*Report on street sweeping completed **during this reporting period** using one of the three metrics below.*

Number of miles cleaned:

Volume of material removed:

Weight of material removed:

Stormwater Pollution Prevention Plan (SWPPP)

*Below, report on the number of site inspections for facilities that require a SWPPP completed **during this reporting period**.*

Number of site inspections completed:

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

Inspections were completed quarterly by Environmental Partners. See attached SWPPP Inspections Memo's.

Additional Information

Monitoring or Study Results

Results from any other stormwater or receiving water quality monitoring or studies conducted during the reporting period not otherwise mentioned above, where the data is being used to inform permit compliance or permit effectiveness must be attached.

- Not applicable
- The results from additional reports or studies are attached to the email submission
- The results from additional reports or studies can be found at the following publicly available website(s):

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

Additional Information

Enter any additional information relevant to your stormwater management program implementation during the reporting period. Include any BMP modifications made by the MS4 if not already discussed above.

Two additional Town-owned stormwater BMPs were found. See BMP Inventory Memo in the attachments.

Year 7

Activities Planned for Next Reporting Period

Please confirm that your SWMP has been, or will be, updated to comply with all applicable permit requirements including but not limited to the year 7 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree

- Complete investigations of catchments associated with Problem Outfalls
- Complete investigations of catchments where any information gathered on the outfall/interconnection identifies sewer input

Annual Requirements

- Annual report submitted and available to the public
- Annual opportunity for public participation in review and implementation of SWMP
- Keep records relating to the permit available for 5 years and make available to the public
- Properly store and dispose of catch basin cleanings and street sweepings so they do not discharge to receiving waters
- Annual training to employees involved in IDDE program
- Update inventory of all known locations where SSOs have discharged to the MS4
- Continue public education and outreach program
- Update outfall and interconnection inventory and priority ranking and include data collected in connection with the dry weather screening and other relevant inspections conducted
- Implement IDDE program
- Review site plans of construction sites as part of the construction stormwater runoff control program
- Conduct site inspection of construction sites as necessary
- Inspect and maintain stormwater treatment structures
- Log catch basins cleaned or inspected
- Sweep all curbed streets at least annually
- Continue investigations of catchments associated with Problem Outfalls
- Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities
- Review inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment; update if necessary
- Review O&M programs for all permittee owned facilities; update if necessary
- Implement all maintenance procedures for permittee owned facilities in accordance with O&M programs
- Implement program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- Enclose all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- Review as-built drawings for new and redevelopment to ensure compliance with post construction bylaws, regulations, or regulatory mechanism consistent with permit requirements
- Inspect all permittee owned treatment structures (excluding catch basins)
- Identify additional permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious areas so that the permittee maintains a minimum of 5 sites in their inventory, until such a time when the permittee has less than 5 sites remaining

Provide any additional details on activities planned for permit year 7 below:

SCM construction on some Town-owned parcels have been designed and are currently in review.

- Consider updates to incentivize phosphorus control options using EPA Region 1 Performance Curves.
- Develop a Town of Lexington Stormwater Design manual that guides land development applicants with selection of stormwater controls that provide the most beneficial stormwater nutrient controls.
- Develop a policy and guide to encourage Public/Private Partnerships.
- Develop a Stormwater Grant Program to provide funding for non-residential property owners to design and construct stormwater retrofits.

Part V: Certification of Small MS4 Annual Report 2024

40 CFR 144.32(d) 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 gather and evaluate 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, I certify that 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.

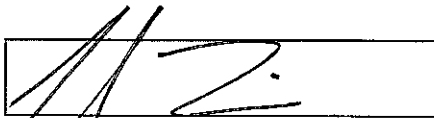
Name:

JOHN LIVSEY

Title:

TOWN ENGINEER

Signature:



Date:

9-30-24

[Signatory may be a duly authorized representative]