

# 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)**

Bacteria/Pathogens       Chloride       Nitrogen       Phosphorus  
 Solids/ Oil/ Grease (Hydrocarbons)/ Metals

**TMDL(s)**

*In State:*       Assabet River Phosphorus       Bacteria and Pathogen       Cape Cod Nitrogen  
 Charles River Watershed Phosphorus       Lake and Pond Phosphorus

*Out of State:*       Bacteria/Pathogens       Metals       Nitrogen       Phosphorus

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:

### **Phosphorus** (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)

#### Annual Requirements

##### *Public Education and Outreach\**

- Distributed an annual message in the spring (April/May) encouraging the proper use and disposal of grass clippings and encouraging the proper use of slow-release and phosphorus-free fertilizers
- Distributed an annual message in the summer (June/July) encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
- Distributed an annual message in the fall (August/September/October) encouraging the proper disposal of leaf litter

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

*Good Housekeeping and Pollution Prevention for Permittee Owned Operations*

- Increased street sweeping frequency of all municipal owned streets and parking lots subject to Permit part 2.3.7.a.iii.(c) to a minimum of two times per year (spring and fall)

*Structural BMPs*

- Installed a structural BMP as a demonstration project within the drainage area of the water quality limited water or its tributaries. The type of BMP installed is (*e.g. biofiltration*):

The Town installed a rain garden (10'x20') at Summer Street Elementary School as an educational feature for students.

- Any structural BMPs already existing or installed in the regulated area by the permittee or its agents was tracked and the phosphorus removal by the BMP was estimated consistent with Attachment 3 to Appendix F. The BMP type, total area treated by the BMP, the design storage volume of the BMP, and the estimated phosphorus removed in mass per year by the BMP were documented.
- No BMPs were installed
- The above referenced BMP information is attached to the email submission
- The above referenced BMP information can be found at the following publicly available website:

<https://www.town.lynnfield.ma.us/departments-public-works/pages/nutrient-source-identification-report>

Total estimated phosphorus removed in **lbs/year** from the installed BMPs: 18

*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:

Street Sweeping - Streets were swept only once during Permit Year 6 and covered approximately 70 miles of road. Additionally, post-event cleaning was performed after parade and road race events, including Memorial Day, Veterans Day and the 4th of July. Additional sweeping was also performed after repair of two water main breaks was completed.

**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:

<https://www.town.lynnfield.ma.us/stormwater-management/pages/stormwater-management-program-swmp-plan>

The sweeping schedule is included in the appendix of the SWMP.

- 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:

Sweeping is performed once a year in turbidity impaired watersheds, twice a year where the watershed is also impaired for nutrients. Turbidity impaired watersheds were not observed to accumulate more sediment and debris than other areas within the Town, therefore the current sweeping schedule is deemed adequate.

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

Other stormwater and drainage work completed during Permit Year 6 included the following:

- Awarded an Asset Management Grant for Stormwater Infrastructure.
- Conducted a thorough pipe investigation of a possible collapse in a residential property that does not have an easement. Construction to redirect water flows may occur in a future fiscal year.
- Fixed a drainage sinkhole in Glen Meadow park.
- There were two separate water main breaks during Permit Year 6. Repairs at both locations were cleaned appropriately by the water district and catch basins cleaned with a VACTOR truck. One of the breaks was large enough to require cleaning of 21 basins and manholes and its associated piping. Additional sweeping was also performed after repairs were completed.
- Three new Town owned subsurface infiltration systems were engineered for two public safety buildings / Town Hall and another for a municipal golf course clubhouse. At the end of FY 2023/2024, the golf clubhouse infiltration system was nearly complete and the other two were in early stages of construction. The golf clubhouse infiltration system collects parking lot drainage, site drainage and roof/drainspout flows. A portion of site surface drainage is collected in a surface drainageway with two siltation forebays and a series of level spreaders. The parking lot is a pervious surface. All three projects implemented SWPPP procedures during construction. The other two projects are located at the new Fire Department Headquarters and the combination Town Hall / Police Headquarters / Secondary Fire Station. Each project has a full infiltration system for site and roof drainage.

Stormwater and drainage work that is in-progress at the end of Permit Year 6 includes the following:

- Working to eliminate flooding caused by a failed pipe in an adjacent municipality.
- Troubles gaining access to a private property which has pipe and drainage structures that need to be cleaned and CCTV inspected because MassDEP issued a superseding order (denied by Lynnfield Conservation Commission) to allow the piping of a stream, but without a drainage easement for the Town and an owner requirement for annual cleaning and repairs. Ongoing efforts to gain access for cleaning and inspection continue.

### 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:

Changes to impairments or TMDLs since NOI:

- Beaverdam Brook (MA93-30): E. Coli impairment added in 2016, covered by existing TMDL
- Hawkes Brook (MA93-32): E. Coli impairment added in 2016, covered by existing TMDL
- Saugus River (MA93-34): Aquatic Plants impairment removed in 2016; E. Coli impairment added in 2016, covered by existing TMDL; dissolved oxygen impairment added in 2018/2020; nitrogen impairment removed in 2018/2019
- Saugus River (MA93-35): Low flow alterations impairment removed in 2016; dewatering impairment added in 2016; E. Coli impairment added in 2016, covered by existing TMDL; fish-passage barrier and benthic macroinvertebrates impairments added in 2018/2020
- Walden Pond (MA93084): Mercury in fish tissue added in 2018/2020
- Wills Brook (MA92-10): Dissolved oxygen and fecal coliform impairments removed in 2016.

## 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: Elementary School Program - Keeping Water Clean**

Message Description and Distribution Method:

Program engages 5th grade students in several activities designed to raise their stormwater and water conservation awareness. Students learn about watersheds, stormwater, ground water, wastewater, how we impact these systems, and how they should be protected/maintained.

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

3,001 Students  
334 Volunteers and Teachers  
46 Schools

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: Print Material/Magazine - Greenscapes Guide**

Message Description and Distribution Method:

The Greenscapes Guide is a 26 page magazine that covers sustainable landscaping tips, stormwater management tips for homeowners, and ways to conserve water use. These guides are distributed at every school program Greenscapes conducted this year. A digital version can be found on our website, under Resources: <https://greenscapes.org/greenscapes-guide/>

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

3,000 Greenscapes Guides distributed at school programs.

Message Date(s): Various dates between September 2023 - June 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: Social Media - Scoop the Poop**

Message Description and Distribution Method:

Social media content informing residents the impact pet waste has on nearby watersheds.  
<https://greenscapes.org/resources-socialmedia/>

Targeted Audience: Residents +

Responsible Department/Parties: Greenscapes Coalition

Measurable Goal(s):

Facebook: 36 impressions  
Instagram: 99 impressions, 14 likes

Message Date(s): August 16th, 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: Social Media - Septic SMART**

Message Description and Distribution Method:

Social media content providing information on proper septic tank maintenance, reminding residents to routinely pump the tank.  
<https://greenscapes.org/resources-socialmedia/>

Targeted Audience: Residents +

Responsible Department/Parties: Greenscapes Coalition

Measurable Goal(s):

Facebook: 136 impressions, 6 likes  
Instagram: 41 impressions, 6 likes

Message Date(s): September 20th, 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: Social Media - Yard Waste Disposal**

Message Description and Distribution Method:

Social media content sharing how to properly dispose of yard waste and to never place waste in wetlands.  
<https://greenscapes.org/resources-socialmedia/>

Targeted Audience: Residents +

Responsible Department/Parties: Greenscapes Coalition

Measurable Goal(s):

Facebook: 68 impressions, 1 share  
Instagram: 50 impressions, 5 likes, 1 share.

Message Date(s): October 11th, 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: Social Media - What is a Storm Drain?**

Message Description and Distribution Method:

Social media content informing viewers the purpose storm drains serve and the importance of clearing them when they are clogged.  
<https://greenscapes.org/resources-socialmedia/>

Targeted Audience: Residents +

Responsible Department/Parties: Greenscapes Coalition

Measurable Goal(s):

Facebook: 31 impressions  
Instagram: 47 impressions, 10 likes, 1 share.

Message Date(s): October 12th, 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: Social Media - Swimming Pools & Water Quality**

Message Description and Distribution Method:

Social media flier to educate residents on proper pool drainage to reduce chlorinated water from entering our water ways.  
<https://greenscapes.org/resources-socialmedia/>

Targeted Audience: Residents +

Responsible Department/Parties: Greenscapes Coalition

Measurable Goal(s):

Facebook: 37 impressions  
Instagram: 37 impressions, 3 likes

Message Date(s): October 18th, 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: Social Media - Save your Drain**

Message Description and Distribution Method:

Social media content reminding residents to never put oils, fats, or grease down their drains.  
<https://greenscapes.org/resources-socialmedia/>

Targeted Audience: Residents +

Responsible Department/Parties: Greenscapes Coalition

Measurable Goal(s):

Facebook: 33 impressions  
Instagram: 38 impressions, 3 likes

Message Date(s): November 22nd, 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: Social Media - Salt Goes Where Water Flows**

Message Description and Distribution Method:

Social media content that provided the dangers of road salt. Post included environmental friendly options to reduce salt in local bodies of water.

<https://greenscapes.org/resources-socialmedia/>

Targeted Audience: Residents +

Responsible Department/Parties: Greenscapes Coalition

Measurable Goal(s):

Facebook: 45 impressions, 4 likes

Instagram: 46 impressions, 7 likes

Message Date(s): December 14th, 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: Media - Salt Goes Where Water Flows Flier**

Message Description and Distribution Method:

Flier that provides the dangers of road salt and environmentally friendly alternatives.

<https://greenscapes.org/resources-socialmedia/>

Targeted Audience: Residents +

Responsible Department/Parties: Greenscapes Coalition

Measurable Goal(s):

Distributed to 90 Greenscapes Municipal members.

Message Date(s): December 14th, 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: Social Media - Consider Native Plants**

Message Description and Distribution Method:

Social media content sharing the benefits native species provide, requiring no fertilizer and less water.  
<https://greenscapes.org/resources-socialmedia/>

Targeted Audience: Residents +

Responsible Department/Parties: Greenscapes Coalition

Measurable Goal(s):

Facebook: 49 impressions, 3 likes, 1 share  
Instagram: 41 impressions, 11 likes, 1 share

Message Date(s): May 24th, 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: Flyer - Lawn Care**

Message Description and Distribution Method:

Placed a Green Grass and Clear Water 2-page flyer in the Planning & Conservation's rack card holder.

Targeted Audience: Residents

Responsible Department/Parties: Planning and Conservation

Measurable Goal(s):

Make an informational flyer on proper lawn care available to the public.

Message Date(s): April 2, 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: Rack Card Distribution**

Message Description and Distribution Method:

Distributed 120 "What Not to Flush" rack cards from Salem Coast Watch/Greenscapes. Rack card sent to all residents of Lynnfield Housing Authority - 68 units plus extras for move-ins.

Targeted Audience: Residents

Responsible Department/Parties: Public Works

Measurable Goal(s):

Distribute informational rack cards on proper septic system maintenance.

Message Date(s): August 23, 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:

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 Plan for Download - The Town has posted the updated SWMP Plan on Town website along with contact information.

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:**

Public Outreach and Participation Workshop - September 19, 2023: REWILDING Your Property – Oh Yeah, It’s a Thing! Rewilding” is returning land to a more natural state, and typically involves introducing native

plants and fostering habitats for local wildlife.

Public Outreach and Participation Workshop - October 18 2023: Storm drain? Sewer grate? Let's keep them clear of leaves and debris. Public outreach for storm water cleanliness.

### **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:*

All known outfalls, stormwater BMPs, and receiving waterbodies with impairments have been mapped to date. Initial catchment delineations have also been completed based on topographic mapping and available stormwater system information, and are being refined as additional field information is collected during catchment investigations. The Town has also substantially mapped catch basins and manholes, and is working to complete mapping of piping connectivity. Mapping of open channel conveyances and interconnections with other MS4s (e.g. DOT) is ongoing, and it is expected that this will continue as part of DOT's own mapping efforts to be completed under a future TS4 permit. The Town is also working to identify data gaps in its drainage mapping (e.g., catch basins without piping, disconnected drainage networks, etc.) and is actively mapping and investigating these. Any new infrastructure discovered through this process will be mapped and screened as necessary by the end of Year 10.

In February 2023, an ArcGIS Dashboard was created, detailing all reports of catch basin damage, illicit discharges and additional notes to allow DPW to assess maintenance requirements. Damage reports were also classified as high, medium and low priorities. The dashboard also includes a map and was updated throughout Permit Year 6.

#### **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:*

### **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 assessing its catchment investigation status during Year 6. Many catchments do not have Key Junction Manholes, and the Town has no sewer system and corresponding System Vulnerability Factors that would require wet weather outfall sampling; thus catchment investigations are considered complete once outfalls have been screened for dry weather flow. Numbers provided above represents a combination of catchments screened during Year 6 as well as catchments that do not require investigations of Key Junction Manholes or wet weather outfall screening, and thus are complete once dry weather outfall screening has been completed. Remaining catchments that require Key Junction Manhole investigations will be completed. by the end of Year 10.

### **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:

**Employee Training**

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

IDDE and SWPPP training was performed on November 30, 2023 and included background information on stormwater pollution, MS4 requirements, illicit discharge program requirements and investigations, general good housekeeping practices, and SWPPP/SPCC training specific to the DPW maintenance facility.

**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:

Three construction projects were directed to clean street, gutter and catch basin due to excessive siltation from the site. All were completed per Town requirements.

### **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:

#### **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:

#### **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:

No changes have been made to date. To be determined pending discussions with other departments. Estimated June 30, 2027.

### **Green Infrastructure Report**

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

No changes have been made to date. To be determined pending discussions with other departments. Estimated June 30, 2027.

### **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):

1. Lynnfield Common (Main Street)
2. Rotary Park (Summer Street- Lot 176)
3. Willow Cemetery (Summer Street)
4. Fire Department and Post Office (Salem & Summer Streets intersection)
5. Glen Meadow Park (Trickett Road)

The full list of properties evaluated and identified for retrofit opportunities is included as an appendix to the Nutrient Source Identification Plan.

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.

The Town installed a rain garden (10'x20') at Summer Street Elementary School as an educational feature for students.

Three new Town owned subsurface infiltration systems were engineered for two public safety buildings / Town Hall and another for a municipal golf course clubhouse. At the end of FY 2023/2024, the golf clubhouse infiltration system was nearly complete and the other two were in early stages of construction. The golf clubhouse infiltration system collects parking lot drainage, site drainage and roof/drainspout flows. A portion of site surface drainage is collected in a surface drainageway with two siltation forebays and a series of level spreaders. The parking lot is a pervious surface. The other two projects are located at the new Fire Department Headquarters and the combination Town Hall / Police Headquarters / Secondary Fire Station. Each project has a full infiltration system for site and roof drainage.

## **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:  [Select Units]

*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 had a budget shortfall in the Fall of 2023 and were not able to clean all of the Town owned catch basins. However, the Town performed pipe cleaning (jetting) on approximately 50 catch basins and manholes, plus connected pipes. Some of those were also CCTV inspected.

**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:  [Select Units]

Weight of material removed:  [Select Units]

**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:

The Town hires a consultant to perform formal, written quarterly SWPPP inspections. Site inspections of the DPW Facility were completed quarterly during Permit Year 6. No corrective actions were taken at either facility this period.

**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**

*Optional:* 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.

Other stormwater and drainage work completed during Permit Year 6 included the following:

- Awarded an Asset Management Grant for Stormwater Infrastructure.
- Conducted a thorough pipe investigation of a possible collapse in a residential property that does not have an easement. Construction to redirect water flows may occur in a future fiscal year.
- Fixed a drainage sinkhole in Glen Meadow park.
- There were two separate water main breaks during Permit Year 6. Repairs at both locations were cleaned appropriately by the water district and catch basins cleaned with a VACTOR truck. One of the breaks was large enough to require cleaning of 21 basins and manholes and its associated piping. Additional sweeping was also performed after repairs were completed.
- Three new Town owned subsurface infiltration systems were engineered for two public safety buildings / Town Hall and another for a municipal golf course clubhouse. At the end of FY 2023/2024, the golf clubhouse infiltration system was nearly complete and the other two were in early stages of construction. The golf clubhouse infiltration system collects parking lot drainage, site drainage and roof/drainspout flows. A portion of site surface drainage is collected in a surface drainageway with two siltation forebays and a series of level spreaders. The parking lot is a pervious surface. All three projects implemented SWPPP procedures during construction. The other two projects are located at the new Fire Department Headquarters and the combination Town Hall / Police Headquarters / Secondary Fire Station. Each project has a full infiltration system for site and roof drainage.

Stormwater and drainage work that is in-progress at the end of Permit Year 6 includes the following:

- Working to eliminate flooding caused by a failed pipe in an adjacent municipality.
- Troubles gaining access to a private property which has pipe and drainage structures that need to be cleaned and CCTV inspected because MassDEP issued a superseding order (denied by Lynnfield Conservation Commission) to allow the piping of a stream, but without a drainage easement for the Town and an owner requirement for annual cleaning and repairs.

## 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:

The Town also recently received an Asset Management grant, part of which will involve mapping and evaluating drainage infrastructure within the Town's regulated MS4 area. This is anticipated to be a multi-year project which will greatly improve the Town's long-term planning capability to ascertain stormwater maintenance and improvement needs.

## Part V: Certification of Small MS4 Annual Report 2023

### 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.

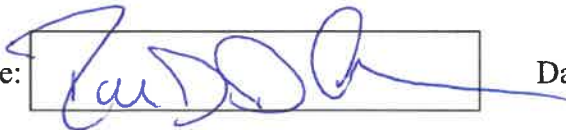
Name:

Robert J. Dolan

Title:

Town Administrator

Signature:



Date:

09/30/24

*[Signatory may be a duly authorized representative]*

*Note: When prompted during signing, save the document under a new file name.*

### Annual Report Submission

*Please submit the form electronically via email to both EPA and MassDEP by clicking on one of the links below or using the email addresses listed below. Please ensure that all required attachments are included in the email and not attached to this PDF.*

EPA:

MassDEP:

### Paper Signature:

*If you did not sign electronically above, you can print the signature page by clicking the button below.*

[Print Signature Page](#)

*Optional: If you did not sign electronically above, you may lock the form by clicking the "Lock Form" button below which will prompt you to save the locked version of the form. Save this locked version under a new file name.*

[Lock Form](#)