

Year 5 Annual Report

Massachusetts Small MS4 General Permit

Reporting Period: July 1, 2022-June 30, 2023

****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, 2022 and June 30, 2023 unless otherwise requested.

Part I: Contact Information

Name of Municipality or Organization: West Boylston

EPA NPDES Permit Number: MAR041171

Primary MS4 Program Manager Contact Information

Name: Jennifer Warren-Dymont

Title: Town Administrator

Street Address Line 1: 140 Worcester Street



Street Address Line 2:

City: West Boylston

State: MA

Zip Code: 01583

Email: jwarren@westboylston-ma.gov

Phone Number: (774) 261-4088

Stormwater Management Program (SWMP) Information

SWMP Location (publicly available web address): <https://www.westboylston-ma.gov/public-works/pages/stormwater-management>

Date SWMP was Last Updated: June 2023

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

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 2 as necessary
☒ 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:

An informational message about pet waste management was included in the "Dear Resident" letter sent to every residence ahead of Spring Town Meeting during Permit Year 5. Educational material was also linked to the Town's Dog Licensing Page on the Town's website, and included with dog license renewal applications.

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 5):**

- ☒ Sodium chloride
- ☐ Calcium chloride
- ☐ Potassium chloride

☐ Magnesium chloride☐ Brine solution

Total amount of salt applied **during this reporting period**
(year 5) including units:

2,318 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:

A number of chloride impairments were newly designated for receiving waters in West Boylston on the Final Massachusetts Integrated List of Waters for the Clean Water Act 2018/2020 Reporting Cycle, which was approved in February 2022. These include Gates Brook (MA81-24), Scarletts Brook (MA81-25), and two (2) unnamed tributaries to the Wachusett Reservoir (MA81-49 and MA81-54). The Town has 3 years from the date that these receiving waters were identified as impaired to develop a Chloride Reduction Plan, and five years to implement the plan.

During Permit Year 5 the Town developed a draft Chloride Reduction Plan, which is still in the process of being reviewed and refined. The Town expects to finalize the Chloride Reduction Plan during Permit Year 6.

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:

Receiving waters, outfalls and impairments have been updated since the NOI was originally submitted. Please see the Town's Stormwater Management Plan included on the Town's website for an updated list of outfalls, receiving waters, and relevant impairments in West Boylston.

A number of chloride impairments were newly identified for receiving waters in West Boylston on the Final Massachusetts Integrated List of Waters for the Clean Water Act 2018/2020 Reporting Cycle, which was approved in February 2022, during Permit Year 4. These include Gates Brook (MA81-24), Scarletts Brook (MA81-25), and two (2) unnamed tributaries to the Wachusett Reservoir (MA81-49 and MA81-54).

A number of new impairments have been identified based on the Final Massachusetts Integrated List of Waters for the Clean Water Act 2022 Reporting Cycle, which was approved in June 2023, during Permit Year 5. These include Poor Farm Brook(51-17) and the Quinapoxet River (MA81-32) for Temperature and Gates Brook (MA81-24) for E.coli and fecal coliform.

It was also brought to the Town's attention that the Town may be subject to the requirements of the MS4 Permit as they relate to the Phosphorus TMDL for Lake Quinsigamond, as the Town does have urbanized area within the lake's watershed. However, the 2016 MS4 Permit does not identify the Town as being subject to the requirements of this TMDL. The Town is currently awaiting guidance from the EPA.

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: Social Media Outreach - Video

Message Description and Distribution Method:

Distribute educational materials to residents through social media. The Massachusetts Think Blue Video was shared on social media.

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Think Blue Massachusetts led a social media advertising campaign using the Think Blue Video. During Permit Year 5, Think Blue did not provide information regarding ad impressions made on their social media posts.

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: Brochures/ Pamphlets

Message Description and Distribution Method:

Materials about proper pet waste disposal and how the public can impact stormwater and receiving water quality were distributed.

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

A pet waste notice was posted at the Town Clerk's Office, attached to dog license applications and was posted on the Town's Website. There were 580 dog licenses provided during the reporting period.

Separately, the Town also included an informational message about dog waste management in the "Dear Resident" letter sent to every residence ahead of Spring Town Meeting during Permit Year 5.

Message Date(s): Permit Year 5

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: Brochures/Pamphlets

Message Description and Distribution Method:

Information about West Boylston's stormwater management program targeting residents and how they can impact stormwater and receiving water quality is sent out in the Fall Town Meeting Notice.

Targeted Audience: Residents

Responsible Department/Parties: DPW / Town Admin

Measurable Goal(s):

A total of 3,105 Town Meeting notices were distributed this permit year.

Message Date(s): Permit Year 5

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: Brochures/Pamphlets

Message Description and Distribution Method:

Information placed on the Town's website was directed at businesses to promote proper waste disposal, and impacts that can occur from improper disposal.

Targeted Audience: Businesses, Institutions and Commercial Facilities

Responsible Department/Parties: DPW

Measurable Goal(s):

A total of 3,105 Town Meeting notices were distributed this permit year.

Message Date(s): Permit Year 5

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: Brochures/Pamphlets

Message Description and Distribution Method:

The Town provided information on proper salting techniques targeted at residents on their website.

Targeted Audience: Residents

Responsible Department/Parties: DPW

Measurable Goal(s):

Information was placed on the Town's website to reach a broader audience, and to make the information readily available.

Message Date(s): Permit Year 5

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: Web Page

Message Description and Distribution Method:

Place information on the Town's website about proper sediment and erosion control measures.

Targeted Audience: Developers (Construction)

Responsible Department/Parties: DPW

Measurable Goal(s):

The Town placed informational material regarding proper sediment and erosion controls aimed at developers on the Town's website.

Message Date(s): Permit Year 5

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: Brochures/Pamphlets

Message Description and Distribution Method:

Distribute educational materials about equipment inspection, waste disposal, dumpster maintenance, de-icing materials storage and use, and parking lot sweeping.

Targeted Audience: Industrial Facilities

Responsible Department/Parties: DPW, Building Department

Measurable Goal(s):

The Town's DPW distributes brochures and maintains a list of all recipients. A flyer was posted at the Building Department for all applicants to view. There were no building permits issued during Permit Year 5.

Message Date(s): Permit Year 5

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: Brochures/Pamphlets

Message Description and Distribution Method:

Distribute information to septic system owners about proper septic system maintenance.

Targeted Audience: Residents

Responsible Department/Parties: DPW, Board of Health

Measurable Goal(s):

A septic system maintenance letter was sent to owners of all properties connected to septic systems.

Message Date(s): Permit Year 5

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 Outreach: Winter Deicing

Message Description and Distribution Method:

From November 1, 2022, through February 28, 2023, the Central Massachusetts Regional Stormwater Coalition distributed daily messages through social media to target deicing activities that have the potential to impact receiving water quality.

Targeted Audience: Residents and Businesses

Responsible Department/Parties: Central Massachusetts Regional Stormwater Coalition

Measurable Goal(s):

During Permit Year 5, the Central Massachusetts Regional Stormwater Coalition posted 13 times on Facebook, 13 times on Instagram, and 61 times on Twitter. The posts on Facebook received 46 reactions, 26 shares, and 18 comments. The posts on Instagram received 102 impressions, 13 reactions, 3 shares, and 0 comments. The posts on Twitter received 3,624 impressions, 101 reactions, 46 shares, and 27 comments.

Message Date(s): November 2022 - February 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 Outreach: Lawn Care

Message Description and Distribution Method:

From March 1, 2023, through May 31, 2023, the Central Massachusetts Regional Stormwater Coalition distributed daily messages through social media to target lawn care activities that have the potential to impact the quality of water quality.

Targeted Audience: Residents and Businesses

Responsible Department/Parties: Central Massachusetts Regional Stormwater Coalition

Measurable Goal(s):

During Permit Year 5, the Central Massachusetts Regional Stormwater Coalition posted 9 times on Facebook, 8 times on Instagram, and 61 times on Twitter. The posts on Facebook received 470 impressions, 16 reactions, 7 shares, and 6 comments. The posts on Instagram received 89 impressions, 4 reactions, 0 shares, and 0 comments. The posts on Twitter received 3,939 impressions, 79 reactions, 26 shares, and 10 comments.

Message Date(s): March 2023 - May 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 Outreach: Pet Waste

Message Description and Distribution Method:

From June 1, 2023, through September 30, 2023, the Central Massachusetts Regional Stormwater Coalition distributed daily messages through social media to target pet waste activities that have the potential to impact the quality of water quality.

Targeted Audience: Residents

Responsible Department/Parties: Central Massachusetts Regional Stormwater Coalition

Measurable Goal(s):

During Permit Year 5, the Central Massachusetts Regional Stormwater Coalition posted 5 times on Facebook, 7 times on Instagram, and 12 times on Twitter. The posts on Facebook received 11 impressions, 998 reactions, 7 shares, and 1 comment. The posts on Instagram received 62 impressions, 1 reaction, 0 shares, and 0 comments. The posts on Twitter received 225 impressions, 5 reactions, 3 shares, and 2 comments.

Message Date(s): June 2023 - September 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 Outreach: Best Management Practices for Residents

Message Description and Distribution Method:

From October 1, 2022, through October 1, 2023, the Central Massachusetts Regional Stormwater Coalition distributed daily messages through social media to target residential activities that have the potential to impact receiving water quality.

Targeted Audience: Residents

Responsible Department/Parties: Central Massachusetts Regional Stormwater Coalition

Measurable Goal(s):

During Permit Year 5, the Central Massachusetts Regional Stormwater Coalition posted 179 times on Facebook, 178 times on Instagram, and 1,593 times on Twitter. The posts on Facebook received 8,297 impressions, 5,340 reactions, 181 shares, and 119 comments. The posts on Instagram received 1,727

impressions, 166 reactions, 37 shares, and 8 comments. The posts on Twitter received 73,111 impressions, 738 reactions, 408 shares, and 6 comments.

Message Date(s): October 2022 - October 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 Outreach: Best Management Practices for Commercial Businesses

Message Description and Distribution Method:

From October 1, 2022, through October 1, 2023, the Central Massachusetts Regional Stormwater Coalition distributed daily messages through social media to target the activities of commercial businesses and employees that have the potential to impact receiving water quality.

Targeted Audience: Businesses, Institutions and Commercial Facilities

Responsible Department/Parties: Central Massachusetts Regional Stormwater Coalition

Measurable Goal(s):

During Permit Year 5, the Central Massachusetts Regional Stormwater Coalition posted 5 times on Facebook, 4 times on Instagram, and 47 times on Twitter. The posts on Facebook received 67 impressions, 4 reactions, 2 shares, and 0 comments. The posts on Instagram received 41 impressions, 4 reactions, 2 shares, and 0 comments. The posts on Twitter received 760 impressions, 5 reactions, 2 shares, and 0 comments.

Message Date(s): October 2022 - October 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 Outreach: Best Management Practices for Industrial Facilities

Message Description and Distribution Method:

From October 1, 2022, through October 1, 2023, the Central Massachusetts Regional Stormwater Coalition distributed daily messages through social media to target the activities of the industrial industry and employees that have the potential to impact receiving water quality.

Targeted Audience: Industrial Facilities

Responsible Department/Parties: Central Massachusetts Regional Stormwater Coalition

Measurable Goal(s):

During Permit Year 5, the Central Massachusetts Regional Stormwater Coalition posted 3 times on Facebook, 3 times on Instagram, and 68 times on Twitter. The posts on Facebook received 129 impressions, 2 reactions, 1 share, and 0 comments. The posts on Instagram received 16 impressions, 13 reactions, 0 shares, and 1 comment. The posts on Twitter received 1,420 impressions, 11 reactions, 3 shares, and 0 comments.

Message Date(s): October 2022 - October 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 Outreach: Best Management Practices for Developers

Message Description and Distribution Method:

From October 1, 2022, through October 1, 2023, the Central Massachusetts Regional Stormwater Coalition distributed daily messages through social media to target the activities of the developers and contractors and employees that have the potential to impact receiving water quality.

Targeted Audience: Developers (Construction)

Responsible Department/Parties: Central Massachusetts Regional Stormwater Coalition

Measurable Goal(s):

During Permit Year 5, the Central Massachusetts Regional Stormwater Coalition posted 9 times on Facebook, 8 times on Instagram, and 139 times on Twitter. The posts on Facebook received 292 impressions, 11 reactions, 7 shares, and 3 comments. The posts on Instagram received 76 impressions, 7 reactions, 0 shares, and 0 comments. The posts on Twitter received 5,015 impressions, 54 reactions, 21 shares, and 3 comments.

Message Date(s): October 2022 - October 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](#)

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

The Stormwater Management Plan was posted for public comment on the Town's website in early July 2023, and was posted for 30 days.

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 public presentation was made to the Select Board by the DPW Director, and the Town's engineering consultant, regarding the status of the Town's compliance with the 2016 MS4 Permit on April 5, 2023. This meeting is public noticed and attended by the general public, and provided the public an opportunity to discuss components of the Town's stormwater management program. As part of this meeting, there were also discussions regarding proposed updates to the Town's stormwater management bylaw.

In addition, a town-wide clean up was organized and held for residents on April 22, 2023.

The Wachusett Recycling Center also offered special collection days for household hazardous waste on November 12, 2022.

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

Optional: Provide additional status information regarding your map:

The Town has completed Phase 1 and Phase 2 mapping requirements, including delineation of catchment areas and mapping of impaired waters. The drainage map will continue to be updated as necessary in future permit years based on field investigations. Drainage mapping will also be updated as a result of new development and redevelopment work on an as needed basis.

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:

The Town completed dry weather outfall/interconnection screening and sampling during Permit Year 4. The Town plans to begin wet weather outfall/interconnection screening and sampling during Permit Year 6, at those outfalls where at least one System Vulnerability Factor (SVF) was identified.

In addition to the work that the Town has completed, DCR has done extensive mapping of drainage structures. DCR staff continues to improve and update maps as a result of field inspections and will coordinate efforts with the watershed communities. An effort is underway to develop connectivity and flow direction information.

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 has 97 catchments that are regulated under the MS4 Permit. Prior to performing catchment investigations, 44 catchments were determined to have no key-junction manholes and were cleared using dry-weather outfall inspection data. An additional 45 catchments were field investigated during Permit Year 5.

Therefore, 92% of the Town's catchments have been investigated. However, per the permit, the Town is only reporting that catchment investigations are complete in catchments where outfalls/interconnections have been screened during dry weather, where key junction manholes in these catchments have been screened, and where wet weather sampling has been completed, and where all results indicate no likely sewer input based on field observations and sampling. Since the Town has not performed any wet weather outfall sampling to date, no catchment investigations are being reported as complete at this time. Catchment investigation data attached to this report includes all the investigations completed during the reporting period.

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:

In addition to the work that the Town has completed, DCR personnel continue to look for illicit discharges or other stormwater problems during routine stream investigations and will pass on any relevant information to the towns. Biweekly samples for bacteria, turbidity, and specific conductance were collected from eight tributaries in West Boylston and monthly nutrient samples were collected at five locations. There are a few tributaries with historical bacteria issues which have been documented in prior DCR annual reports. Gates Brook has an area with roosting birds that were identified as a source of elevated bacteria seasonally. Recently, West Boylston Brook has seen increased concentrations of bacteria and this is being actively investigated. Sometimes bacteria is high following rain events. This is not necessarily indicative of illicit discharges as bacteria concentrations in watershed tributaries increase during storm events even in undeveloped forested areas. Annual water quality summary statistics and raw data are available upon request. DCR will continue to monitor these sites.

Employee Training

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

West Boylston held an IDDE and SWPPP Training session on June 14, 2023. The training was attended by 6 municipal employees from the West Boylston Cemetery, DPW and Building Departments. The SWPPP training covered Best Management Practices at both the DPW Facility as well as the Mount Vernon Cemetery

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:

The numbers provided for site plan reviews and inspections cover all projects town-wide, including those projects that disturb less than one acre.

Routine inspections of construction sites that disturb more than one acre are done by the DCR during dry and wet weather. Staff concentrated on visiting sites prior to storm events to identify any potential problems and request corrections before negative impacts could occur. DCR monitored 3 projects during FY23 and made a total of 9 inspections. All of these projects are complete. The site visits were conducted to confirm that the sites were stable and no longer require monitoring under the EPA Construction General Permit.

The Conservation Commission took 1 enforcement action during this permit term.

The Board of Health/Building Department received 235 building permits during this Permit Term.

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

Ordinance or Regulatory Mechanism

During Permit Year 5, the Town continued to review drafted updates to their existing Stormwater Management Bylaw, their draft supporting Stormwater Management Rules & Regulations, and the draft separate Stormwater Bylaw that

Date update was completed (due in year 3):

specifically covers use of the storm drain system. The Town met with the Conservation Commission on February 6, 2023, and March 6, 2023, with the Planning Board on February 8, 2023 and March 8, 2023, and the Select Board on April 5, 2023 to discuss the proposed regulatory updates. The Town anticipates formally adopting the Stormwater Bylaw that covers use of the storm drain system at the 2024 Spring Town Meeting. The existing Stormwater Management Bylaw will also be put forth for adoption at Spring Town Meeting in 2024. The next step is to go before the Bylaws Committee. After adoption of the updated Stormwater Management Bylaw, the Town will look to adopt the already drafted supporting Stormwater Management Rules & Regulations.

Website of ordinance or regulatory mechanism:

https://www.westboylston-ma.gov/sites/g/files/vyhlf1421/f/uploads/2021.05.17_gen_bylaws_master_002.pdf

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:

The Building Department received 16 post construction as-builts.

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:

During Permit Year 4, the Town developed their Street Design and Parking Lot Report, which assessed current street design and parking lot guidelines and other local requirements that affect the creation of impervious cover. Regulatory mechanisms were reviewed to determine if changes to existing design standards could be made to support low impact design options and, where appropriate, proposed recommendations to incorporate policies and standards to minimize impervious cover in parking areas and street designs. The Town will be revisiting these recommendations during Permit Year 6 in an effort to make updates to local regulations, where feasible.

Green Infrastructure Report

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

During Permit Year 4, the Town developed a Green Infrastructure Report, which assessed existing local

regulatory mechanisms to determine the feasibility of making the following practices allowable when appropriate site conditions exist:

- Green roofs
- Infiltration practices such as rain gardens, curb extensions, planter gardens, porous and pervious pavements, and nature-based stormwater management practices
- Water harvesting devices such as rain barrels and cisterns, and the use of stormwater for non-potable uses
- Open space preservation or cluster development practices

The Town will be revisiting these recommendations during Permit Year 6 in an effort to make updates to local regulations, where feasible.

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):

Site #1: Department of Public Works (35 Worcester Street)
 Site #2: West Boston Municipal Light Plant (4 Crescent Street)
 Site #3: Lee Street and Goodale Street Intersection
 Site #4: Pride Park Playground (70 Crescent Street)
 Site #5: Paul X Tivnan Drive Cemetery (Paul X Tivnan Drive)

Stormwater retrofits have not been completed at any of these sites to date.

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. 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.

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:

During Permit Year 4, the Town developed an electronic catch basin inspection and cleaning data collection system to track how frequently catch basins were filling up. The Town began collecting data electronically for their Catch Basin Cleaning Optimization Plan in April 2022, and collected data for 178 catch basins. Prior to this, the town cleaned all other catch basins in town during Permit Year 4 as they do annually, but the data was not collected electronically. The total volume of material removed was calculated using the average volume per basin and applying the average to the total number of basins cleaned. West Boylston will continue to collect data for their Catch Basin Cleaning Optimization Plan and implement the plan after two data points for each catch basin have been collected electronically. It is anticipated that the plan will be developed during Permit Year 7, once sufficient data has been collected.

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:

During Permit Year 5, eight (8) inspections were able to be completed - four (4) quarterly inspections were conducted at each facility, which includes the DPW Garage and the Mount Vernon Cemetery. At least one (1) inspection at each facility occurred during a wet weather event.

The Town is working to correct a few items noted in the SWPPPs. At the DPW Garage, the Town filed an insurance claim to repair the damage to the roof of their salt shed. Construction of the improvements to the salt shed were completed in Permit Year 5.

Additionally, during the SWPPP inspection at the DPW Facility during Permit Year 4, the residential sand/salt mix pile was noted as being uncovered. Funding was secured to construct a permanent structure to contain and cover the sand/salt mix pile. With support from DCR's FY22 Salt Reduction Grant Program, the Town was awarded a 50% matching grant for the construction of residential salt/sand containment shed. Construction of this structure was completed in July 2022.

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:

Stream Sampling/Monitoring:

DCR staff conduct monthly monitoring that captures both wet and dry weather conditions at 5 streams in West Boylston, as listed below. The parameters tested are: Alkalinity, pH, Temperature, Dissolved Oxygen, Total Nitrogen, Total Phosphorus, Total Organic Carbon, E. coli, Turbidity, Specific Conductance, Chloride, Mean Daily Discharge, and Total Monthly Discharge.

The DCR also conducts bacteria sampling every two weeks at various sites and nutrients once a month at Gates Brook 1, Malden Brook, Muddy Brook, Waushacum Brook, and West Boylston Brook.

BMP Monitoring:

The DCR continues to monitor and map structural best management practices (BMPs) in the watershed. To date, 147 BMPs (including detention basins, dry wells, infiltration trenches, Stormceptors, sediment traps and sediment forebays, and rain gardens) have been mapped within West Boylston and are part of a larger Geographic Information System (GIS) hydrology layer project.

In addition, DCR monitors basins located on DCR property within the Town to determine if there are any maintenance needs. Nine DCR Basin sites in West Boylston were inspected during the reporting period and found to have no outstanding issues.

DCR performed regular mowing of grass during the growing season at the stormwater basins at the Emergency Response Garage, 180 Beaman Street, Wachusett Recycling Center, Gate WB10, Gate 25, Beaman Street Bridge, Gate WB19, Gate 18, and Gate 27.

All agricultural sites are regularly monitored by DCR staff for stormwater related issues such as erosion and manure runoff. Most sites do not pose a risk to storm drain systems or surface waters. 42 agricultural site inspections were performed in West Boylston during the reporting period. Most agricultural properties in town are small with no observed violations or need for remediation and do not require annual visits.

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. If any of the above year 5 requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

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 6 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree ☒

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 6 below:

During Permit Year 6 the Town is planning to complete the following work:

- Adopt recommended updates to local code to address MS4 Permit requirements.

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:

Jennifer Warren-Dyment

Title:

Town Administrator

Signature:



Date:

9.28.23

[Signatory may be a duly authorized representative]