

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:

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

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:

The SSO inventory is included as Appendix F of the City's Stormwater Management Plan and can be found at the following website: <https://www.framinghamma.gov/1133/Stormwater-management>

- 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:

n/a

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:

n/a

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

Completed the evaluation of all permittee owned properties identified as presenting retrofit opportunities or areas for structural BMP installation under permit part 2.3.6.d or identified in the Phosphorus Source Identification Report, including: *(select the items of the evaluation that have been completed below)*

- Next planned infrastructure, resurfacing, or redevelopment activity planned for the property (if applicable) OR planned retrofit date
- Estimated cost of redevelopment or retrofit BMPs
- Engineering and regulatory feasibility of redevelopment or retrofit BMPs
- Completed a listing of planned structural BMPs and a plan and schedule for implementation
 - The BMP list and implementation schedule is attached to the email submission
 - The BMP list and implementation schedule can be found at the following publicly available website:

The City's Stormwater Management Plan and can be found at the following website:
<https://www.framinghamma.gov/1133/Stormwater-Management>
 Please reference the following appendices of the Stormwater Management Plan:
 Appendix D - Lake Waushakum Phosphorus Source Identification Report 2022 & Phase II PSIR 2023
 Appendix J - Inventory of Potential City-Owned Property Retrofits

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:

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

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:

Appendix F does not apply to Framingham since there are no TMDLs within the City limits. No structural water quality BMPs have been installed in the catchments for phosphorus impaired waterbodies in the regulated area by the City of Framingham or its agents.

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.framinghamma.gov/2074/Urban-Street-Sweeping-Program>

- 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 City has a robust street sweeping schedule which includes sweeping all curbed roadways annually, urban and main roadways monthly, and downtown areas weekly. We continue to collect data to analyze and create a prioritization of catch basin cleanings. Currently, all catch basins are scheduled for annual inspections and/or cleaning.

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

n/a

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:

The Sudbury River is listed on the 2018/2020 303d list (which became effective during Permit Year 4) as having an e.coli impairment.

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:(1) Critical Drought Alert

Message Description and Distribution Method:

With critical drought conditions persistent during the Summer of 2022, messages were distributed via DPW Facebook to include tips on conserving water.

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

DPW Facebook - 6 reactions, 4 comments. We were unable to obtain metrics for total people reached.

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:

This message was in addition to the ones proposed in the NOI.

BMP:(2) Household Hazardous Waste Day

Message Description and Distribution Method:

The City hosts bi-annual Household Hazardous Waste Day events to encourage proper waste disposal. Messages were posted via prominent traffic message boards in multiple locations in the City as well as distributed via City and DPW Facebook pages. A message is also distributed to participants enrolled in our "Notify Me" messaging (listserv) system.

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

DPW Facebook - 33 reactions, 6 comments, 8 shares.
 City Facebook - 22 reactions, 13 shares
 We were unable to obtain metrics for total people reached on social media.
 DPW Notify Me messaging system. - 2446 people enrolled

Message Date(s): 8/11/22-8/17/22, 6/1/23, 6/12/23

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 message was in addition to the ones proposed in the NOI.

BMP:(3) SSO Notification System

Message Description and Distribution Method:

The City recently adopted new messaging protocols in accordance with State regulations if an SSO occurs. Part of the effort to keep the public aware of overflows, and to ensure public safety, the DPW and City have put together a notification system for anyone that would like to join. Facebook posts shares how audiences could learn more about SSOs and receive notifications during an SSO event.

Targeted Audience: All

Responsible Department/Parties: DPW/City

Measurable Goal(s):

DPW Facebook - 8 reactions, 6 comments, 1 share
 City Facebook - 5 reactions, 1 comment, 1 share
 We were unable to obtain metrics for total people reached.

Message Date(s): 9/20/22, 4/4/23

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 message was in addition to the ones proposed in the NOI.

BMP:(4) Leaf Collection & Disposal

Message Description and Distribution Method:

Facebook messages provide guidance on how to properly dispose of leaves and take advantage of the City's seasonal curbside leaf collection services.

Targeted Audience: Residents

Responsible Department/Parties: DPW

Measurable Goal(s):

DPW Facebook - 20 reactions, 2 comments, 14 shares
We were unable to obtain metrics for total people reached.

Message Date(s): 10/19/22, 11/10/22, 12/8/22

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: (5) Septic Maintenance

Message Description and Distribution Method:

Top 10 Ways to be a Good Septic Owner (graphic from EPA Septic Smart) shared via social media.

Targeted Audience: Homeowners

Responsible Department/Parties: Health Dept, DPW

Measurable Goal(s):

DPW Facebook - 2 reactions
We were unable to obtain metrics for total people reached.

Message Date(s): 11/1/22

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:(6) Targeted Septic Maintenance Message

Message Description and Distribution Method:

Targeted mailers were mailed to 23 septic homeowners within the phosphorus impaired Lake Waushakum watershed. The mailers were shared with the Ashland Conservation Department as they are also located within the Lake Waushakum watershed.

Targeted Audience: homeowners

Responsible Department/Parties: Health Dept

Measurable Goal(s):

Lake Waushakum watershed targeted messaging: 23 mailers

Message Date(s): May 2023 mailers

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 message was in addition to the ones proposed in the NOI.

BMP:(7) Nutrients in Lawn Fertilizers

Message Description and Distribution Method:

Message - Did you know nutrients in lawn fertilizers can wash off into nearby waterways encouraging algae, and invasive plants to grow? This type of growth is harmful to fish and aquatic life and can also limit recreational use such as swimming and boating. via Facebook

Targeted Audience: All

Responsible Department/Parties: DPW

Measurable Goal(s):

DPW Facebook - 4 reactions, 1 share
We were unable to obtain metrics for total people reached.

Message Date(s): 5/24/23

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:(8) Deicing activities

Message Description and Distribution Method:

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

Targeted Audience: all

Responsible Department/Parties: Central MA Regional Stormwater Coalition

Measurable Goal(s):

13 Facebook Posts - 46 reactions, 26 shares, 18 comments
13 Instagram Posts - 102 impressions, 13 reactions, 3 shares
61 Twitter Posts - 3,624 impressions, 101 reactions, 46 shares, 27 comments

Message Date(s): daily November 1, 2022 through February 28, 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:

This message was in addition to the ones proposed in the NOI.

BMP:(9) Ice Melt

Message Description and Distribution Method:

Select environmentally friendly de-icing so when snow melts it does not cause stormwater pollution via Facebook

Targeted Audience: Residents

Responsible Department/Parties: DPW

Measurable Goal(s):

DPW Facebook - 7 reactions, 1 share

Message Date(s): 2/23/2023

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:

BMP:(10) Lawn Care

Message Description and Distribution Method:

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

Targeted Audience: All

Responsible Department/Parties: Central MA Regional Stormwater Coalition

Measurable Goal(s):

9 Facebook Posts - 470 impressions, 16 reactions, 7 shares, 6 comments
 8 Instagram Posts - 89 impressions, 4 reactions
 61 Twitter Posts - 3,939 impressions, 79 reactions, 26 shares, 10 comments

Message Date(s): daily March 1, 2023 through May 31, 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:

This message was in addition to the ones proposed in the NOI.

BMP: (11) Pet Waste

Message Description and Distribution Method:

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

Targeted Audience: All

Responsible Department/Parties: Central MA Regional Stormwater Coalition

Measurable Goal(s):

5 Facebook Posts - 11 impressions, 998 reactions, 7 shares, 1 comments
 7 Instagram Posts - 62 impressions, 1 reactions
 12 Twitter Posts - 225 impressions, 5 reactions, 3 shares, 2 comments

Message Date(s): daily June 1, 2023 through June 30, 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:

This message was in addition to the ones proposed in the NOI.

BMP:(12) Residential Water Quality Impacts

Message Description and Distribution Method:

From October 1, 2022, through June 30, 2023, the Central Massachusetts Regional Stormwater Coalition distributed daily messages through social media to target residential activities that have the potential to impact the quality of water quality.

Targeted Audience: Residential

Responsible Department/Parties: Central MA Regional Stormwater Coalition

Measurable Goal(s):

179 Facebook Posts - 8,297 impressions, 5,340 reactions, 181 shares, 119 comments
 178 Instagram Posts - 1,727 impressions, 166 reactions, 37 shares, 8 comments
 1,593 Twitter Posts - 73,111 impressions, 738 reactions, 408 shares, 6 comments

Message Date(s): October 1, 2022, through June 30, 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:

This message was in addition to the ones proposed in the NOI.

BMP:(13) Commercial Water Quality Impacts

Message Description and Distribution Method:

From October 1, 2022, through June 30, 2023, the Central Massachusetts Regional Stormwater Coalition distributed daily messages through social media to target the activities of the commercial businesses and employees that have the potential to impact the quality of water quality.

Targeted Audience: Commercial

Responsible Department/Parties: Central MA Regional Stormwater Coalition

Measurable Goal(s):

5 Facebook Posts - 67 impressions, 4 reactions, 2 shares
 4 Instagram Posts - 41 impressions, 4 reactions, 2 shares
 47 Twitter Posts - 760 impressions, 5 reactions, 2 shares

Message Date(s): October 1, 2022, through June 30, 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:

This message was in addition to the ones proposed in the NOI.

BMP:(14) Industrial Water Quality Impacts

Message Description and Distribution Method:

From October 1, 2022, through June 30, 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 the quality of water quality.

Targeted Audience: Industrial

Responsible Department/Parties: Central MA Regional Stormwater Coalition

Measurable Goal(s):

3 Facebook Posts - 129 impressions, 2 reactions, 1 shares
 3 Instagram Posts - 16 impressions, 13 reactions, 1 comment
 68 Twitter Posts - 1,420 impressions, 11 reactions, 3 shares

Message Date(s): October 1, 2022, through June 30, 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:

This message was in addition to the ones proposed in the NOI.

BMP:(15) Developers & Contractors Water Quality Impacts

Message Description and Distribution Method:

From October 1, 2022, through June 30, 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 the quality of water quality.

Targeted Audience: Developers & Contractors

Responsible Department/Parties: Central MA Regional Stormwater Coalition

Measurable Goal(s):

9 Facebook Posts - 292 impressions, 11 reactions, 7 shares, 3 comments
 8 Instagram Posts - 76 impressions, 7 reactions
 139 Twitter Posts - 5,015 impressions, 54 reactions, 21 shares, 3 comments

Message Date(s): October 1, 2022, through June 30, 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:

This message was in addition to the ones proposed in the NOI.

BMP:(16) Pet Waste @ Licensing

Message Description and Distribution Method:

Educational messages are distributed to dog owners via postcards at the City Clerk's office which can be obtained when owners are renewing or obtaining a dog license.

Targeted Audience: All

Responsible Department/Parties: DPW/City Clerk

Measurable Goal(s):

100 postcards distributed

Message Date(s): July 1, 2022 - June 30, 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:**

The City's Stormwater Management Plan is posted on the City's website at <https://www.framinghamma.gov/1133/Stormwater-Management>.

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:**

-DPW participated in the much anticipated Grand Opening of our First Dog Park celebration on July 5, 2022. Distributed Dwayne coloring books, pet waste dispensers, informational postcards & doggie coloring sheets.

-DPW hosted Household Hazardous Waste Day on August 20, 2022 (162 residents participated) and June 10, 2023 (288 residents participated).

-The City's participation in public events to educate and involve the public on the City's stormwater management were limited due to staff shortages.

-DPW presented to the FHS Environmental Awareness Club, approximately 10 students on April 27, 2023.

-DPW presented to Potter Road 5th grade science classes with the Enviroscape watershed and Ward's floodplain models. Approximately 80 students participated. Distributed Dwayne coloring books. February 9 & 10, 2023.

-Framingham Conservation Assistant agent and Commission members staffed a booth at Framingham Earth Day Festival, April 22, 2023 on the Centre Common, which included demonstrations using the Enviroscape model to demonstrate sources of water pollution and describe ways citizens can prevent pollution. Distributed coloring books, ThinkBlue Ducks, dog waste bag dispensers, and informational bookmarks & postcards.

-DPW, Conservation, Health Department and Parks & Rec provide regular updates and participate in communication with Lake Waushakum Association members to present information on water quality and

stormwater systems.

-City staff participated in a Learned Pond neighborhood meeting which included discussions about water quality June 7, 2023.

-DPW supports local litter cleanup group (Keep Framingham Beautiful) by disposing of collected debris/trash and sharing stormwater messages. Keep Framingham Beautiful members have installed drain placards.

-Lake Waushakum Association neighborhood members continue to monitor and replace as needed the drain placards installed during Permit Year 4.

-Our municipality participated in the Central Massachusetts Regional Stormwater Coalition (CMRSWC) and the Massachusetts Statewide Municipal Stormwater Coalition (Statewide Coalition).

-During Year 5 the City's Stormwater website was updated to provide updated educational information, reorganized and highlighting community outreach/engagement.

-DPW hosted an Open House in which Enviroscope watershed and Ward's floodplain models were used to engage visitors. Pet waste bags, Dwayne coloring books and other educational materials were distributed. Over 500 people attended the event.

- DPW hosted a local Girl Scout troop in celebration of their completion of Water WOW project & badges. Enviroscope watershed and Ward's floodplain models were used to engage the Girl Scouts and parents. Dwayne coloring books, rain gauges and other educational materials were distributed. Approximately 20 attendees.

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:

Framingham's municipal GIS system is a robust mapping system. As catchment investigation and other field work continue to be performed, updates are made to the GIS system to more accurately reflect system connections. As a result, adjustments and modifications occur on an on-going basis. A thorough review of all catchments is underway.

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:

During a comprehensive review of the outfall inspection data during this reporting period, it was determined that dry weather outfall screening and sampling was not performed at selected outfalls due to an inability to locate or access these outfalls. The 100% of outfalls screened as reported in Permit Year 3 & 4 applies to outfalls that were located and could be accessed at that time. For outfalls where dry weather screening was incomplete, screening will be attempted again during Permit Year 6, and should the outfalls not be located or accessed, screening will take place at the nearest upstream structure to satisfy this requirement.

Dry weather screening was completed at 4 outfalls during this reporting period. To date, 434 of 544 outfalls (80%) have been screened during dry weather. At 39 outfalls that could not be accessed or located in prior reporting periods, dry weather screening was performed at the upstream structure during catchment investigations to satisfy this requirement, for a total of 473 of 544 outfalls screened (87%). As the current drainage mapping has several combined catchment areas (i.e. more than one outfall per catchment in certain catchment areas), dry weather outfall screening has been completed in 86% of the catchments. The City of Framingham is internally working on updating mapping and re-delineating catchments to have one delineated tributary catchment area per outfall.

Wet weather screening and sampling was performed at 31 outfalls this reporting period. To date, 41/544 outfalls (8%) have been sampled during wet weather conditions. Since the current drainage mapping has more than one outfall per catchment in certain catchment areas, wet weather outfall screening and sampling has been completed in 6% of the catchments.

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:

Significant progress was made on catchment investigations this permit year. Catchments were prioritized based on receiving water body impairments, water quality considerations, and proximity to bathing beaches. Additionally, catchments previously identified as having likely sewer input during dry weather outfall screening were prioritized. Catchment investigations were started in 156 catchment areas and completed in 147 catchment areas during this reporting period. There are 9 catchments that are "incomplete" or "pending" due to ongoing construction or maintenance needs affecting access to the drainage system, or unresolved evidence of an illicit discharge. In catchment areas with at least one sample showing likely sewer input, follow-up investigations are ongoing. In catchment areas with no key junction manholes, where dry weather outfall screening was completed in previous reporting periods and no flow was observed, dry weather outfall screening was deemed sufficient, and no in-system catchment investigations are required. Based on dry weather outfall inspection data, 83 catchments were deemed completed with no flow observed, and 7 catchments were deemed complete with flow observed and sampling results not indicating evidence of an illicit discharge. During Permit Year 4 (FY'22) 7 catchments investigations were completed within the Lake Waushakum watershed. In total, catchment investigations are complete in 244 out of the 496 catchments.

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:

During Year 2, on March 2, 2020, a residential property was identified as having their washing machine connected to a sump pump that discharged to Beaver Dam Brook. The Framingham Conservation Commission issued a Notice of Violation. The homeowner disconnected the discharge pipe and reconnected the washing machine effluent to the sanitary sewer.

Employee Training

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

Framingham employees involved in the IDDE program participated in annual IDDE training. Four employees participated in virtual self-paced training sponsored by Central Massachusetts Regional Stormwater Coalition.

MS4 Year 5 Senior Stormwater & Environmental Engineer Training

- July 26, 2022 EPA Soak up the Rain Webinar Series - Retrofit Manual
- August 2-4, 2022 National Highway Institute Urban Drainage Design Training
- October 3, 2022 Mass DEP Wetlands, Wetland Regulations and the MCP
- October 13, 2022 - massFM (Floodplain Managers) Annual Conference
- December 7, 2022 LSPA Dredging 201- Fundamentals of Sediment Remediation
- January 23-25, 2023 NEWEA Annual Conference
- February 21, 2023 Stormwater University Porous Pavement
- May 10, 2023 NEWEA Future of Stormwater in New England
- June 14, 2023 USACE Flood Fight Demonstration & Training

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:

During this permit year, the City migrated to a new inspection tool in April 2023 (VueWorks). Data was pulled from two inspection tracking software programs, Forms on Fire & VueWorks.

The City conducts numerous site plan reviews, construction inspections, and enforcement actions that involve water quality and stormwater controls. These are conducted by the Department of Public Works, the Planning Board, the Conservation Commission, the Health Department, and the Building Department for compliance with numerous City rules and regulations. Many of the sites are less than an acre and therefore not covered under the MS4 permit. If the project had a stormwater management component, whether or not the site was over 1 acre of disturbance, the City considered it for the metrics above.

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:

If the project had a stormwater management component and the DPW received an as-built plan, whether or not the site was over 1 acre of disturbance, the City considered it for the metrics above. This number includes 3 City projects. In Permit Year 4 (FY'22) the City processed a higher number of occupancy permits related to a large development project.

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 Street Design & Parking Lots report completed in Year 4 reviewed regulatory mechanisms using a list of key questions in five categories and the degree to which each mechanism was rated as Conventional, Better or Best using a system based on the Local Bylaw and Regulation Assessment Tool developed by MassAudubon. Of the 28 rankings assigned, Framingham scored 20 in the "Better" or "Best" categories and 8 in the "Conventional" category. Recent updates to Zoning Ordinances were largely focused on increasing affordability requirements. Guidelines, Rules & Regulations and Ordinances adopted by the Planning Board are in the process of being reviewed and stormwater updates will be incorporated into these discussions. The anticipated date for updates is as reported in our previous report of 2025.

Green Infrastructure Report

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

The City's Zoning ByLaws were updated in 2018 and Planning Board Project Review Guidelines were updated in 2021, both which repeatedly emphasize the importance of low impact development (LID). Framingham requires developers completing a Site Plan Review to provide information on how the proposed project would affect local water bodies, the water table, impervious creation and stormwater runoff. Developers are encouraged to incorporate LID to mitigate stormwater runoff. Incorporating these aspects into Plan Review provides a mechanism for the City to have input and dialogue about increasing critical concerns

surrounding stormwater management.

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):

An inventory of at least five (5) City-owned properties that could potentially be modified or retrofitted with BMPs designed to reduce the frequency, volume and pollutant loads of stormwater discharges to and from its MS4 through the reduction of impervious area are identified in the City's SWMP. The inventory identifies if the properties are located in a drainage area for a water quality limited waterbody with additional requirements for pollutant removal. Additionally, a separate BMP retrofit list is incorporated into the Phosphorus Source Identification report for Lake Waushakum as updated this permit term.

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.

Appendix J of Stormwater Master Plan.

- Commuter Rail Parking Lot (non-MS4 owned): infiltration basin
- Farm Pond Park - skatepark: bioretention swales
- High School Junior Parking Lot: reduce pavement, installed water quality units
- Little Farm Road cul-de-sac: reduce pavement
- Fuller Middle School renovation: reduce impervious cover, add stormwater BMPs
- Speen St pump station: reduce impervious cover, establish pervious parking area

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 City collects and records % full sump data during catch basin inspections and continues to evaluate

incorporating conclusions from this data into the inspection and service schedule.

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: tons

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:

Continue to monitor areas susceptible to washout.

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:

Framingham Ponds Year End Report 2022, prepared by SOLitude Lake Management for the City of Framingham. This report summarized herbicide & algaecide treatment for nuisance vegetation and water quality monitoring conducted by SOLitude at the following ponds: Learned Pond, Norton Pond, Gleason Pond, Lake Waushakum, Mohawk Pond and Farm Pond. Lake Waushakum and Farm Pond have water quality impairments with additional permit requirements under Appendix H. Two rounds of water quality samples were collected from each of the ponds and analyzed for the following water quality parameters: pH, turbidity,

alkalinity, nitrate-nitrogen, total and soluble phosphorus, ammonia, and true and apparent color. Samples were also taken for algae and cyanobacteria species identification and counts.

Framingham Sudbury River Year End Report 2022, prepared by SOLitude Lake Management for the City of Framingham. This report summarizes water chestnut control efforts for the ponded section of the Sudbury River.

Framingham contracted with Water & Wetland, Lake, Pond and Wetland Management group who provided summaries for Big Farm Pond, Gleason Pond, Learned Pond, Little Farm Pond, Mohawk Pond, Norton Pond, Sudbury River and Waushakum Pond. The surveys included an assessment of plant species documentation, dissolved oxygen and temperature readings, Secchi disk readings, and water quality testing parameters.

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:

The City is an active member of the Central Massachusetts Regional Stormwater Coalition (CMRSWC), the Massachusetts Statewide Municipal Stormwater Coalition, and the Massachusetts Coalition for Water Resources Stewardship (MCWRS). The City supports the Think Blue Massachusetts statewide stormwater awareness & education campaign.

The Baker-Polito Administration announced Framingham as a recipient of an Environmental Protection Agency (EPA) 319 Clean Water Act grant which is administered by Massachusetts Department of Environmental Protection (DEP) to continue the design and construction of BMPs to reduce pollution from stormwater runoff discharging into Lake Waushakum.

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:

Framingham plans to continue to make progress on wet weather and catchment investigation inspections. The City will finish installation of a demonstration project during Year 6 within the Lake Waushakum watershed. The City is also the recipient of MVP and 319 grants which will fund milestone stormwater projects. The 319 grant will fund final design, permitting and construction of a bioretention system that will reduce nutrients entering the impaired Lake Waushakum at the City' public bathing beach property. MVP is funding a stream restoration, flood mitigation and boardwalk project in the Walnut Street neighborhood. More about our MVP funded Walnut Street Neighborhood Flood Mitigation project can be found at www.FraminghamMA.gov/Walnut.

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:

Title:

Signature:

Date:

[Signatory may be a duly authorized representative]