

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

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

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

Part I: Contact Information

Name of Municipality or Organization: Town of Millbury

EPA NPDES Permit Number: MAR041136

Primary MS4 Program Manager Contact Information

Name: Keith Caruso

Title: DPW Director

Street Address Line 1: 127 Elm Street

Street Address Line 2:

City: Millbury

State: MA

Zip Code: 01527

Email: kcaruso@townofmillbury.net

Phone Number: (508) 865-9143

Stormwater Management Program (SWMP) Information

SWMP Location (publicly available web address): <https://www.millburyma.gov/public-works/pages/ms4-stormwater>

Date SWMP was Last Updated: September 2024

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

The updated SWMP will be placed on the Town's website in Fall 2024.

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:
<https://www.millburyma.gov/public-works/pages/ms4-stormwater> - The updated SSO Inventory is included in the Town's updated SWMP which will be posted this fall.
- Updated system map due in year 10 with information from completed catchment investigations
- Provided training to employees involved in IDDE program within the reporting period
- Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
- All curbed roadways were swept at least once within the reporting period
- Enclosed all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt

- Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities
- Updated inventory of all permittee owned facilities as necessary
- O&M programs for all permittee owned facilities have been completed and updated as necessary
- Implemented all maintenance procedures for permittee owned facilities in accordance with O&M programs
- Implemented program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- Inspected all permittee owned treatment structures (excluding catch basins)

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

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

Annual Requirements

*Public Education and Outreach**

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

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

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

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

Annual Requirements

*Public Education and Outreach**

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

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

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

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

Structural BMPs

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

1 Bioswale, 14 rain gardens and 11 areas of porous pavers were installed as part of Phase 2 of Millbury's Downtown Redevelopment Project.

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: 22.12

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 estimated phosphorus removal of 22.12 lbs/year reflects BMPs installed town-wide whether they fall under the umbrella of the PCP or the PSIR.

As the Town continues to develop their Lake Phosphorus Control Plan, the Town is working to track and estimate the amount of phosphorus removed by structural BMPs existing or installed in regulated areas tributary to those receiving waters with phosphorus TMDLs, including reporting on BMP type, total area treated, design storage volume, and the estimated phosphorus removed in mass per year in each annual report.

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.millburyma.gov/public-works/pages/ms4-stormwater> / Appended to the SWMP

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

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

The Town conducts town-wide sweeping twice per year. In addition, the Town also sweeps roads with frequent wash-out from dirt driveways or adjacent dirt roads. The Town sweeps most streets after heavy rain storms to clear any debris. The Town developed a map entitled "Street Sweeping Areas of Concern" during Permit Year 2 that indicates areas requiring more frequent street sweeping to meet permit requirements which is included in the O&M Plan appended to the Town's SWMP.

The Town is continuously working to collect the data needed to develop their Catch Basin Cleaning Optimization Plan to ensure that no catch basin sump is more than 50% full at any given time. During Permit Year 6, the Town implemented an electronic data collection system to help improve the collection and tracking of catch basin inspection and cleaning data. As additional data is collected, catch basin cleaning schedules will continue to be adjusted accordingly to meet this requirement as resources allow. Catch basins in catchment areas tributary to water bodies impaired for solids, oil and grease will be prioritized for inspection and cleaning as part of the plan.

Lake and Pond Phosphorus TMDL

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

Baseline phosphorus export rate from LPCP Area (**lbs/year**) **[A]**: 17.72

Total phosphorus reduction from all nonstructural controls this reporting period (**lbs/year**) **[B]**: 4.56

Total phosphorus reduction from all structural controls installed this reporting period and all previous years (**lbs/year**) **[C]**: 16.72

Phosphorus load increase due to development incurred since baseline loading was calculated in **lbs/year** **[D]**: 0

Current phosphorus export rate from the LPCP Area in **lbs/year** [=A-(B+C)+D] from above]: -3.56

I certify under penalty of law that all source control and treatment Best Management Practices being claimed for phosphorus reduction credit have been inspected, maintained and repaired in accordance

with manufacturer or design specification. I certify that, to the best of my knowledge, all Best Management Practices being claimed for a phosphorus reduction credit are performing as originally designed.

All municipally owned and maintained turf grass areas are being managed in accordance with Massachusetts Regulation 331 CMR 31.00 pertaining to proper use of fertilizers on turf grasses

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

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

<https://www.millburyma.gov/public-works/pages/ms4-stormwater>

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

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

<https://www.millburyma.gov/public-works/pages/ms4-stormwater>

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

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

<https://www.millburyma.gov/public-works/pages/ms4-stormwater>

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 LPCP is drafted, and will continue to serve as a living document that will be updated annually. An updated version will be posted to the Town's website this fall. The phosphorus reduction calculations for non-structural and structural controls provided are the cumulative total for all five water bodies. Dorothy Pond and Howe Reservoir currently meet phosphorus reduction requirements. Brierly Pond, Lake Quinsigamond/Flint Pond and Pondville Pond require additional phosphorus reduction to meet the required waste load allocations, which is not accurately reflected in the cumulative totals provided above. Furthermore, the Town also needs to implement a comprehensive inspection and maintenance program for privately-owned BMPs for which the Town would like to take credit for under the LPCP.

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:

The Town has made changes to their list of outfalls, receiving waters and impairments since the NOI was originally submitted. These changes are a result of mapping updates made during outfall inspections and are documented in the Town's SWMP.

According to the latest Massachusetts Integrated List of Waters for the 2022 Reporting Cycle, which was approved on June 30, 2023, the Blackstone River is newly impaired for dissolved oxygen, Dorothy Pond and Woolshop Pond are newly impaired for turbidity, and Singletary Brook is newly impaired for E.coli.

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**: 20

*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: 1-1: Website - Be a "Leaf Hero"

Message Description and Distribution Method:

The Town maintained a webpage entitled "Be a Leaf Hero" during the reporting period, which provides multiple tips for residents to properly control leaf litter and includes information from ThinkBlue Massachusetts. The website is located at this link: <https://www.millburyma.gov/public-works/pages/be-leaf-hero>

Targeted Audience: Residents

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

The Town had 336 views on their primary stormwater web page where this public education piece can be found.

Message Date(s): Permit Year 6

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: 1-2: Flyer - Be Septic Smart

Message Description and Distribution Method:

The Town maintained the SepticSmart flyer developed by EPA on its stormwater website during the reporting period. The flyer can be found at this link: https://www.millburyma.gov/sites/g/files/vyhlif4706/f/uploads/septic_smart_flyer.pdf

Targeted Audience: Residents

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

The Town had 336 views on their primary stormwater web page where this public education piece can be

found.

Message Date(s): Permit Year 6

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: 1-3: Pet Waste Flyer - Do Your Doody

Message Description and Distribution Method:

The Town maintained a flyer developed by the ThinkBlue Massachusetts campaign entitled "Do Your Doody for Clean Water" on its stormwater webpage during the reporting period. This flyer encourages residents to pick up after their dogs and explains the negative impact dog waste can have on water quality. The flyer can be found at the following link: https://www.millburyma.gov/sites/g/files/vyhlif4706/f/uploads/residential_pet_waste.pdf

Targeted Audience: Residents

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

The Town had 336 views on their primary stormwater web page where this public education piece can be found.

Message Date(s): Permit Year 6

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: 1-4: Flyer - Lawn and Garden Tips

Message Description and Distribution Method:

The Town maintained a flyer on its website entitled "Lawn & Garden Tips" during the reporting period, which provides multiple tips for residents to properly apply fertilizers, handle grass clippings, and maintain a healthy yard while mitigating stormwater pollution. The flyer is located at following link: https://www.millburyma.gov/sites/g/files/vyhlif4706/f/uploads/businesses_-_lawn_garden_tips_brochure-millbury.pdf

Targeted Audience: Residents

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

The Town had 336 views on their primary stormwater web page where this public education piece can be found.

Message Date(s): Permit Year 6

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: 1-5: Flyer - Runoff at Gas Stations

Message Description and Distribution Method:

The Town posted a flyer developed as part of the ThinkBlue Massachusetts campaign specifically targeting stormwater runoff at gas stations. The flyer also provides tips to mitigate pollution caused by operations at the facility. The flyer can be found at the following link: https://www.millburyma.gov/sites/g/files/vyhlif4706/f/uploads/stormwater_runoff_at_gas_stations.pdf

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

The Town had 336 views on their primary stormwater web page where this public education piece can be found.

Message Date(s): Permit Year 6

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: 1-6: Flyer- Construction Site Stormwater Pollution

Message Description and Distribution Method:

The Town posted two flyers developed through the ThinkBlue Massachusetts educational campaign specifically targeting developers and construction site operators to its stormwater website during the reporting period. The flyers discuss reducing stormwater runoff during construction and sediment & erosion control. The flyers can be found at the following link: <https://www.millbury-ma.org/public-works/pages/ms4-stormwater>

Targeted Audience: Developers (construction)

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

The Town had 336 views on their primary stormwater web page where this public education piece can be found.

Message Date(s): Permit Year 6

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: 1-7: Flyer - Parking Lot Maintenance

Message Description and Distribution Method:

The Town posted a flyer developed by ThinkBlue Massachusetts specifically targeted to businesses, institutions, and commercial facilities on its stormwater website during the reporting period. The subject of the flyer includes information regarding parking lot maintenance. The flyer can be found at the following link: https://www.millburyma.gov/sites/g/files/vyhlif4706/f/uploads/businesses_-_parking_lot_maintenance_brochure-millbury.pdf

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

The Town had 336 views on their primary stormwater web page where this public education piece can be found.

Message Date(s): Permit Year 6

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: 1-8: Flyer - Waste Disposal

Message Description and Distribution Method:

The Town posted a flyer developed by ThinkBlue Massachusetts specifically targeted to businesses, institutions, and commercial facilities on its stormwater website during the reporting period. The subject of the flyer includes information regarding proper waste disposal and dumpster maintenance. The flyer can be found at the following

link: https://www.millburyma.gov/sites/g/files/vyhlif4706/f/uploads/business_waste_disposal_flyer-millbury.pdf

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: DPW Construction

Measurable Goal(s):

The Town had 336 views on their primary stormwater web page where this public education piece can be found.

Message Date(s): Permit Year 6

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: 1-9: Flyer - Sediment & Erosion Control

Message Description and Distribution Method:

The Town posted a flyer developed by ThinkBlue Massachusetts specifically targeted to developers on its stormwater website during the reporting period. The subject of the flyer includes information regarding proper sediment and erosion controls on active construction sites. The flyer can be found at the following link: https://www.millburyma.gov/sites/g/files/vyhlif4706/f/uploads/flyers_for_developers_-sediment_erosion_control-millbury.pdf

Targeted Audience: Developers (construction)

Responsible Department/Parties: DPW Construction

Measurable Goal(s):

The Town had 336 views on their primary stormwater web page where this public education piece can be found.

Message Date(s): Permit Year 6

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: 1-10: Think Blue Video

Message Description and Distribution Method:

The Town posted an educational video provided through the Think Blue Massachusetts campaign targeting stormwater pollution. The video can be found at the following link: <https://www.millburyma.gov/public-works/pages/ms4-stormwater>

Targeted Audience: Residents

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

The Town had 336 views on their primary stormwater web page where this public education piece can be found.

Message Date(s): Permit Year 6

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: 1-11: Flyer - Millbury Stormwater Financing

Message Description and Distribution Method:

The Town posted a link to a flyer geared at educating residents on the benefits of a stormwater enterprise fund. The brochure discussed key terms, fee structures, and overall benefits to the community. The information can be found at the following link: <https://www.millburyma.gov/public-works/pages/ms4-stormwater>

Targeted Audience: Residents

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

The Town had 336 views on their primary stormwater web page where this public education piece can be found.

Message Date(s): Permit Year 6

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 not planned during the creation of the NOI. It was added to educate residents on the benefits of a stormwater enterprise as the Town looks to implement a reliable funding source for MS4 Permit Compliance.

BMP: 1-12: Winter Deicing Activities

Message Description and Distribution Method:

From November 1, 2023, through February 28, 2024, the Central Massachusetts 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):

3 Facebook Posts - 10 likes and reactions, 1228 people reached

3 Instagram Posts - 3 likes and reactions, 27 people reached

26 Twitter Posts - 8 likes and reactions, 1194 people reached

Message Date(s): 11/23-2/24

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: 1-13: Lawn Care

Message Description and Distribution Method:

From March 1, 2024, through May 31, 2024, the Central Massachusetts Regional Stormwater Coalition distributed daily messages through social media to target lawn care activities that have the potential to impact the water quality.

Targeted Audience: All

Responsible Department/Parties: Central MA Regional Stormwater Coalition

Measurable Goal(s):

25 Facebook Posts - 45 likes and reactions, 4842 people reached

17 Instagram Posts - 9 likes and reactions, 136 people reached

79 Twitter Posts - 10 likes and reactions, 1721 people reached

Message Date(s): 3/24-5/24

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: 1-14: Pet Waste

Message Description and Distribution Method:

From June 1, 2024, through June 30, 2024, the Central Massachusetts 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):

8 Facebook Posts - 12 likes and reactions, 1717 people reached

8 Instagram Posts - 3 likes and reactions, 45 people reached

69 Twitter Posts - 1 likes and reactions, 557 people reached

Message Date(s): This message was in addition to the ones proposed in the NOI.

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: 1-15: Septic System Maintenance

Message Description and Distribution Method:

From June 1, 2024, through June 30, 2024, the Central Massachusetts Regional Stormwater Coalition distributed daily messages through social media to target septic system maintenance activities (bacteria/pathogens) 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 - 3 likes and reactions, 687 people reached

5 Instagram Posts - 1 likes and reactions, 21 people reached

28 Twitter Posts - 7 likes and reactions, 510 people reached

Message Date(s): 6/24

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: 1-16: Leaf/ Yard Waste

Message Description and Distribution Method:

From October 1, 2023, through November 30, 2023, the Central Massachusetts Regional Stormwater Coalition distributed daily messages through social media to target leaf/yard waste activities that have the potential to impact water quality.

Targeted Audience: All

Responsible Department/Parties: Central MA Regional Stormwater Coalition

Measurable Goal(s):

2 Facebook Posts - 1 likes and reactions, 693 people reached

2 Instagram Posts - 1 likes and reactions, 7 people reached

6 Twitter Posts - 0 likes and reactions, 707 people reached

Message Date(s): 10/23-11/23

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: 1:17: Residential Water Quality Impacts

Message Description and Distribution Method:

From October 1, 2023, through June 30, 2024, the Central Massachusetts Regional Stormwater Coalition distributed daily messages through social media to target residential activities that have the potential to impact water quality.

Targeted Audience: Residents

Responsible Department/Parties: Central MA Regional Stormwater Coalition

Measurable Goal(s):

83 Facebook Posts - 149 likes and reactions, 15274 people reached

72 Instagram Posts - 32 likes and reactions, 518 people reached

460 Twitter Posts - 71 likes and reactions, 1368 people reached

Message Date(s): 10/23-6/24

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: 1:18: Commercial Water Quality Impacts

Message Description and Distribution Method:

From October 1, 2023, through June 30, 2024, the Central Massachusetts Regional Stormwater Coalition distributed daily messages through social media to target the activities of the commercial business and employees that have the potential to impact the water quality.

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: Central MA Regional Stormwater Coalition

Measurable Goal(s):

4 Facebook Posts - 7 likes and reactions, 427 people reached

3 Instagram Posts - 1 likes and reactions, 21 people reached

30 Twitter Posts - 1 likes and reactions, 750 people reached

Message Date(s): 10/23-6/24

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: 1:19: Industrial Water Quality Impacts**Message Description and Distribution Method:**

From October 1, 2023, through June 30, 2024, 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 water quality.

Targeted Audience: Industrial facilities

Responsible Department/Parties: Central MA Regional Stormwater Coalition

Measurable Goal(s):

15 Facebook Posts - 22 likes and reactions, 2274 people reached

6 Instagram Posts - 2 likes and reactions, 43 people reached

63 Twitter Posts - 6 likes and reactions, 2840 people reached

Message Date(s): 10/23-6/24

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: 1:20: Developers & Contractors Water Quality Impacts

Message Description and Distribution Method:

From October 1, 2023, through June 30, 2024, 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 water quality.

Targeted Audience: Developers (construction)

Responsible Department/Parties: Central MA Regional Stormwater Coalition

Measurable Goal(s):

8 Facebook Posts - 12 likes and reactions, 1761 people reached

8 Instagram Posts - 1 likes and reactions, 48 people reached

36 Twitter Posts - 4 likes and reactions, 2128 people reached

Message Date(s): 10/23-6/24

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.

[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 Town makes their SWMP available for public review year-round on their website, at Town Hall, and at the Municipal Garage. During Permit Year 6, presentations were made to the Select Board to discuss adoption of a stormwater enterprise fund to fund MS4 Permit compliance needs. As part of these presentations, information was presented on the status of the Town's compliance with the MS4 Permit and upcoming needs. Presentations were made to the Select Board on November 28, 2023, January 23, 2024 and March 12, 2024.

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:** Millbury provided multiple opportunities for public involvement and participation during the reporting period. The DPW continues to collect yard waste and brush in the fall and the spring, setting up a chipper and allowing residents to drop off brush for half a day on Saturday four times per year. Yard waste disposal is available at the Transfer Station on Tuesday through Saturday, 7am to 3pm, between April 1 and December 1 for residents with stickers and is free to the elderly. This program prevents significant amounts of grass clippings, leaf litter, and other potential contaminants from entering the MS4.

On April 7, 2024 the Town led a clean up day at Butler Farm Bark Park to remove trash, and collect yard waste from the park.

During Permit Year 6, the Town began discussions on the implementation of a Stormwater Enterprise Fund. The Town held two public presentations to educate residents: the first took place on April 30, 2024 at the Public Library, and the second took place on May 1, 2024 at the Millbury Senior Center. On May 7, 2024, a Town Meeting was held to discuss and vote on the implementation of a Stormwater Enterprise Fund. As part of this effort, various educational materials were also posted on the Town's website and social media pages regarding what a stormwater enterprise would like in Millbury, including a FAQs document.

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: 1

Number of SSOs removed: 1

MS4 System Mapping

Percent of Phase II map complete: 95

Optional: Provide additional status information regarding your map:

Millbury completed its Phase I map as required during Permit Year 2, and already has developed a comprehensive drainage map that meets the Phase II mapping requirements of the MS4 Permit as well. Millbury continued to update its MS4 map as necessary during Permit Year 6 as a result of ongoing field investigations and inspections. MS4 mapping is updated as any unmapped or incorrectly mapped stormwater infrastructure is encountered in the field. MS4 mapping is also updated as a result of new development and redevelopment work.

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: 31

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

Percent of outfalls screened: 100

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

All municipal outfalls were screened during dry weather during Permit Year 2. The Town conducted wet weather screening and sampling at 31 outfalls during Permit Year 6. Wet weather sampling will continue through Permit Year 7.

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: 89

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

Percent of total catchments investigated: 27

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

During Permit Year 5, the Town began planning efforts to perform catchment investigations. Millbury has 203 catchments that are regulated under the MS4 Permit. During the planning process, it was noted that 102 catchments did not have any key junction manholes. During Permit Year 6, two (2) additional catchments were determined not to have any key junction manholes. These systems (104) have been cleared using dry-weather outfall screening data. During Permit Year 6, inspection of key junction manholes in 89 catchments were completed. There are 10 remaining catchments whose key junction manholes will be inspected during Permit Year 7.

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, where wet weather sampling has been completed, and where all results indicate no evidence of likely sewer input based on field observations and sampling. Most outfalls in Millbury have at least one SVF, therefore wet weather outfall/interconnection sampling must be conducted for catchment investigations to be considered complete. The percent of catchment investigations reported as complete above only reflects catchments where wet weather sampling has also been completed as required.

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: 0

Number of illicit discharges removed: 0

Estimated volume of sewage removed: 0 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: 0

Total number of illicit discharges removed: 0

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

Employee Training

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

IDDE and SWPPP Training was performed on June 17, 2024, and 6 employees attended the 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: 6

Number of inspections completed: 17

Number of enforcement actions taken: 1

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

The Town completed 6 site plan reviews; 2 of which were major modifications. There were 17 site inspections completed, and the Town took 1 enforcement action during Permit Year 6.

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

Ordinance or Regulatory Mechanism

Date update was completed (due in year 3): June 23, 2020 (Stormwater Bylaw) and May 10, 2021 (Subdivision Rules & Regulations)

Website of ordinance or regulatory mechanism: <https://www.millburyma.gov/planning-development/pages/zoning-bylaws-rules-regulations>

As-built Drawings

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

Number of as-built drawings received: 14

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

Street Design and Parking Lots Report

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

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 7 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 7 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):

- 1) R.E. Shaw Elementary School
- 2) McCracken Road
- 3) Wheelock Avenue Bridge over Dorothy Pond
- 5) Armory Village Revitalization Project Phase I and II
- 6) Brightside Street Bridge
- 7) Lincoln Avenue
- 8) Miles Street (North Main Street to Lindy Street)
- 9) Hamilton Street (North Main Street to Howe Avenue)
- 10) Burbank Street (West Main Street to Cluster Housing)

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

- 1) Fire Department Headquarters
- 2) Downtown Redevelopment

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: 976

Number of catch basins cleaned: 976

Total volume or mass of material removed from all catch basins: 280 tons

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

Total number of catch basins: 1,583

If applicable:

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

As previously reported, the Town is still working to collect additional data to develop their Catch Basin Cleaning Optimization Plan to ensure that no sump is ever more than 50% full. Once all the information needed is collected and analyzed, the Town will develop a catch basin cleaning schedule that meets the permit requirements assuming adequate resources exist for implementation. The Town began to implement an electronic catch basin inspection and cleaning data collection system during Permit Year 6, which will streamline data collection efforts to support future development of the Town's Catch Basin Cleaning Optimization Plan.

Street Sweeping

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

- Number of miles cleaned: 96
- 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: 8

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

Quarterly inspections were completed for the Transfer Station and the DPW Facility with one inspection at each facility occurring during a wet weather event as required by the permit. There were no corrective actions taken at these facilities during Permit Year 6.

As stated in previous Annual Reports, the Town is working on allocating funds to design and construct a new salt shed at the DPW Facility.

Additional Information

Monitoring or Study Results

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

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

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

Additional Information

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

Year 7

Activities Planned for Next Reporting Period

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

Yes, I agree

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

Annual Requirements

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

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

Part V: Certification of Small MS4 Annual Report 2024

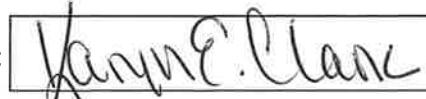
40 CFR 144.32(d) Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Karyn E. Clark

Title: Town Manager

Signature:



Date: 9/30/24

*[Signature may be a duly authorized
representative]*