

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: Town of Medway

EPA NPDES Permit Number: MAR041132

Primary MS4 Program Manager Contact Information

Name: Stephanie Carlisle

Title: Sustainability Coordinator

Street Address Line 1: 45 Holliston Street

Street Address Line 2: na

City: Medway

State: MA

Zip Code: 02053

Email: scarlisle@townofmedway.org

Phone Number: (508) 321-4871

Stormwater Management Program (SWMP) Information

SWMP Location (publicly available web address): <https://www.townofmedway.org/stormwater-management/webforms/reports>

Date SWMP was Last Updated: June 29, 2023

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

Part II: Self-Assessment

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

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

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

Annual Requirements

- ☒ Provided an opportunity for public participation in review and implementation of SWMP and complied with State Public Notice requirements
- ☒ Kept records relating to the permit available for 5 years and made available to the public
- ☒ The SSO inventory has been updated, including the status of mitigation and corrective measures implemented
 - ☐ This is not applicable because we do not have sanitary sewer
 - ☒ This is not applicable because we did not find any new SSOs
 - ☐ The updated SSO inventory is attached to the email submission
 - ☐ The updated SSO inventory can be found at the following publicly available website:

- ☒ Updated system map due in year 2 as necessary
- ☒ Provided training to employees involved in IDDE program within the reporting period
- ☒ Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
- ☒ All curbed roadways were swept at least once within the reporting period
- ☒ Enclosed all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- ☒ Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities

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

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

1. The Department of Public Works maintains all town properties including the school properties; therefore, training has been focused on this department. O&M training for other town departments has not been developed at this time.
2. Maintenance on MS4 infrastructure occurs regularly, but the DPW is developing a more formalized five year maintenance plan and schedule.

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

- ☐ 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:

- 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: 15.93

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 DPW has previously identified and evaluated town owned properties for retrofit opportunities. Additional engineering plans (10% design plans) were developed for 10 town properties during Year 5. Cost estimates and 25% concept design plans were completed for retrofits and new stormwater structures at the High School and Middle School during this reporting period as well. The remaining identified structures on town owned and town managed properties were identified through GIS analysis on soil type, land use, land cover, and existing easements. The EPA BATT tool was used to calculate phosphorus removal. Cost estimates were developed based on current proposals, industry standards, and past actual costs. Engineering and regulatory feasibility of redevelopment or retrofit BMPs has not been completed for all BMPs. The items were not marked completed because they were not completed prior to June 30, 2023. The planned structural BMPs are

listed in the Phosphorus Control Plan (Attachment A.) Structural controls already existing and maintained are listed in Attachment B.

Charles River Watershed Phosphorus TMDL

- ☐ Completed the written Phase 1 Phosphorus Control Plan (PCP), including: *(select the items in the Phase 1 PCP that have been completed)*

- ☒ Planned nonstructural controls
- ☐ Planned structural controls
- ☐ O&M program for structural controls
- ☐ Implementation schedule
- ☐ Cost of implementation

The Phase 1 PCP: *(select one of the following options)*

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

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 reduction required from PCP Area, as identified in Appendix F (lbs/year) [A]:

882

- ☒ Documented the nonstructural control measures implemented during **this reporting period** and their phosphorus reduction

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

13.6

- ☐ No nonstructural control measures were implemented
- ☒ The above referenced nonstructural control measures information is attached to the email submission
- ☐ The above referenced nonstructural control measures information can be found at the following publicly available website:

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

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

15.93

- ☐ No structural control measures were implemented
- ☒ The structural control measures information is attached to the email submission
- ☐ The structural control measures information can be found at the following publicly available website:

Phosphorus load increase due to development incurred since 2005 in lbs/year [D]: 0

Current phosphorus export rate from the PCP Area in lbs/year [=A-(B+C)+D from above]: 852.47

- I certify under penalty of law that all source control and treatment Best Management Practices being claimed for phosphorus reduction credit have been inspected, maintained and repaired in accordance
- ☒ with manufacturer or design specification. I certify that, to the best of my knowledge, all Best Management Practices being claimed for a phosphorus reduction credit are performing as originally designed.
 - ☒ All municipally owned and maintained turf grass areas are being managed in accordance with Massachusetts Regulation 331 CMR 31 pertaining to proper use of fertilizers on turf grasses

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 Phase 1 Phosphorus Control Plan is complete and is submitted as Attachment A to this Annual Report. Non-structural control calculations are included within the PCP as Appendix B. The structural control calculations are attached to this Annual Report as Attachment B. The difference in land use from 2005 was not calculated in the PCP Phase 1; therefore, item D was left blank. The baseline phosphorus export reduction load of 882 pounds has been the basis of the PCP development. The town plans to collaborate with the Charles River Watershed Association and utilize their updated land use data to help recalculate the phosphorus load.

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

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

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

Part III: Receiving Waters/Impaired Waters/TMDL

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

☒ Yes

☐ No

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

The DPW updated the outfall inventory to reflect new developments and additional information discovered through field work during the Year 5 reporting period.

The 2016 List of Impaired Waters changed Chicken Brook (segment 72-34) and Hopping Brook (segment 72-35) from Category 2 waters to Category 5 waters listing E.coli as the 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: 11

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: Leaf Litter Management

Message Description and Distribution Method:

Message distributed through the DPW's Facebook page, "It's fall....and so are the leaves! Please keep leaves out of the roadway and away from storm drains to prevent localized flooding and excess nutrients from entering the waterways. NEVER dump leaves into a stream, river, wetland, or waterway. Learn why here: <https://bit.ly/3DRFanc> Participants in the town's Trash and Recycling program may bring their leaves, brush, and grass clippings to the Recycling Center for no cost! Check out the Trash and Recycling page for more details. <https://bit.ly/3vaTElu> Town of Medway, MA."

Targeted Audience: Residents

Responsible Department/Parties: DPW, Communications Director

Measurable Goal(s):

283 people reached, 5 engagements, 5 likes, 2 comments, and 0 shares.

Message Date(s): November 1, November 2, and November 9, 2022.

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:

We wanted to focus specifically on leaf litter management as it relates to phosphorus loading and flooding potential as opposed to general landscape management. By using the DPW's social media platforms, we are able to reach a large audience that can be shared among residents and groups.

BMP: Stormwater 101 and Phosphorus Pollution Awareness

Message Description and Distribution Method:

The DPW hosts a table at the annual Medway Pride Day event and shares information about stormwater with the public. Topics included best practices to prevent stormwater pollution, a visual of the water cycle, and statistics showing how 60% of water pollution comes from stormwater. An additional poster promoting awareness of nutrient pollution in the watershed was included. Lastly, we distributed Think Blue Massachusetts rubber ducks to children and adults to promote additional awareness.

Targeted Audience: Residents

Responsible Department/Parties: DPW

Measurable Goal(s):

Engaged with the public at Medway Pride Day event.

Message Date(s): May 20, 2023

Message Completed for: Appendix F Requirements ☒ Appendix H Requirements ☐

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

If yes, describe why the change was made:

BMP: Stormwater 101

Message Description and Distribution Method:

The posters and information developed for Medway Pride Day are propped on the easel in the main entrance of the Town Hall. Topics included best practices to prevent stormwater pollution, visual of the water cycle, and statistics showing how 60% of water pollution comes from stormwater.

Targeted Audience: Residents

Responsible Department/Parties: DPW

Measurable Goal(s):

Residents are able to see the poster when they enter the building.

Message Date(s): July 2022 through May 2023.

Message Completed for: Appendix F Requirements ☒ Appendix H Requirements ☐

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

If yes, describe why the change was made:

This is an additional method to reach the public.

BMP: Green Infrastructure and Nature Based Stormwater Solutions

Message Description and Distribution Method:

The DPW partnered with the Charles River Watershed Association on a green infrastructure study with 25% concept designs for the Medway High School and Middle School. A robust outreach campaign was completed as a part of this study including a 60 minute presentation to the Medway High School junior class.

Targeted Audience: Residents

Responsible Department/Parties: DPW

Measurable Goal(s):

Presented to the Medway High School Junior class (approximately 100 students). Presented to the Medway Select Board (270 views on Medway Cable Access streaming). Facebook promotion of the recorded presentation 390 people reached, 19 engagements, 18 likes, 1 comment, and 0 shares.

Message Date(s): May 1, 2023 (High School presentation) and June 5, 2023 (Select Board presentation).

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 is an additional educational measure than proposed in the NOI.

BMP: Pet Waste Management - National Scoop the Poop Week

Message Description and Distribution Method:

Message posted on DPW Facebook page during National Scoop the Poop week. Messages included, "Poop Scoop Yoga. Pick up after your pet every time. Protect our health and the environment" and "Message from the DPW Dogs to Scoop the Poop!"

Targeted Audience: Residents

Responsible Department/Parties: DPW, Communications Director

Measurable Goal(s):

334 people reached, 14 engagements, 1 share, 0 comments, and 12 likes.

Message Date(s): May 26 and May 29, 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:

The message did not change, but the distribution method is different than what was proposed in the NOI.

BMP: Pet Waste Management - Dog License

Message Description and Distribution Method:

Distributed messaging to residents during dog license renewal.

Targeted Audience: Residents

Responsible Department/Parties: DPW, Town Clerk

Measurable Goal(s):

1,607 dog licenses issued.

Message Date(s): January 1, 2023 through March 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:

BMP: Landscape Management

Message Description and Distribution Method:

Using the Think Blue Massachusetts graphics, we emailed 41 local landscape companies a brochure with information of best management practices. We requested read receipts to measure the number of people who opened the email.

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: DPW

Measurable Goal(s):

Of the 41 companies emailed, 4 returned a read receipt a few emails addresses were undeliverable.

Message Date(s): May 22, 2023

Message Completed for: Appendix F Requirements ☒ Appendix H Requirements ☐

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

If yes, describe why the change was made:

Only the message distribution method changed.

BMP: Lawn and Landscape Management

Message Description and Distribution Method:

Messaging to the public through the DPW and Town's Facebook page on best practices for grass clippings, yard waste and fertilizing.

Targeted Audience: Residents

Responsible Department/Parties: DPW, Communications Director

Measurable Goal(s):

652 people reached, 25 engagements, 0 shares, 2 comments, and 42 likes.

Message Date(s): May 24 and May 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:

The message is the same as proposed in the NOI, the distribution method is different.

BMP:Caring for Your Septic System

Message Description and Distribution Method:

Intern hand delivered the "Caring for Your Septic System" brochure to residents with septic systems in town.

Targeted Audience: Residents

Responsible Department/Parties: DPW

Measurable Goal(s):

Distributed brochures to residences on Whitney Road, Harding Road, Thayer Road, Longmeadow Ln, Iarussi Way, Alexandria Rd, Colonial Dr, Diane Dr, Kimberly Dr, Stephanie Road, Partridge St, Wards Lane, Ohlson Circle, Gray Squirrel Circle, Rainbow Dr, Jasmine Road, Short Street, Liberty Street, 1/3 of Clark Street, and West Street.

Message Date(s): June 20, June 21, June 22, June 26, June 27, and June 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 is an additional message than what was proposed in the NOI.

BMP:Industrial Properties Best Management Practices

Message Description and Distribution Method:

Mailed a Think Blue Massachusetts flyer targeted to industrial properties to all industrially zoned properties in

town. A letter referencing the Massachusetts Stormwater Handbook standards 3, 5 and 6 was also included.

Targeted Audience: Industrial facilities

Responsible Department/Parties: DPW

Measurable Goal(s):

Mailed to 100% of industrial zoned parcels.

Message Date(s): June 27, 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:Developers Best Management Practices

Message Description and Distribution Method:

Distributed a Think Blue Massachusetts flyer noting erosion control requirements, proper waste management, and low impact development to developers when they apply for a permits or approvals with the Building Department or Community and Economic Development Department.

Targeted Audience: Developers (construction)

Responsible Department/Parties: DPW, Community and Economic Development Department, Building Depart

Measurable Goal(s):

Distribute to developers at the time of permit application.

Message Date(s): ongoing

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:

On the Town's Stormwater Management web page, there is a link for the public to leave comments on the Stormwater Management Program. They may also report a violation if observed. This opportunity is available to residents 24 hours a day, 7 days a week.

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:

During this reporting period, the DPW presented an update on the Stormwater Management Plan and Draft Phosphorus Control Plan to the Select Board on April 18 and May 1, 2023. This included opportunity for public comment. Additionally, the DPW worked with the Charles River Watershed Association on a Green Infrastructure Project at the Middle School and High School. This project was presented at the Select Board Meeting on June 5, 2023, which included opportunity for public comment. Lastly, the Medway Energy and Sustainability Committee have included discussion on the Stormwater Management Plan, Draft Phosphorus Control Plan, and potential locations for new stormwater infrastructure at their January, March, and April monthly meetings in 2023.

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: 0

Number of SSOs removed: 0

MS4 System Mapping

Optional: Provide additional status information regarding your map:

The DPW continues to collect data and build its infrastructure database. During this reporting period, our new GIS Coordinator began GPS locating our catch basin inventory.

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:

Dry weather outfall screening was completed during Year 3. Followup on outfalls with sample results higher than the Massachusetts Surface Water Quality Standards were investigated during Year 3, Year 4, and Year 5. As mentioned, 54 outfalls were inspected, but some outfalls received additional inspections and sampling. The outfall inspection spreadsheet is attached (Attachment C).

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:

Problem catchment area investigations will commence in Year 6.

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:

Since the effective date of the permit, the town has inspected all 508 outfalls and completed dry weather sampling. 104 outfalls showed the presence of flow and were sampled for salinity, temperature, conductivity, pH, surfactants, chlorine, ammonia, E.coli, and phosphorus. During Year 3 and Year 4, samples from 57 outfalls showed the presence of at least one or more of the aforementioned pollutant indicators. During Year 5, 54 outfalls were re-sampled and 18 outfalls showed no sign of the pollutant indicator. The DPW conducted a second round of sampling on 5 of the 54 outfalls. No new illicit discharges were identified during Year 5. The IDDE Report is attached (Attachment D).

Employee Training

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

IDDE training: 4/6/2023 hosted virtually by University of Massachusetts Amherst Transportation Center.
SWPPP training: 6/28/2023.

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: 9

Number of inspections completed: 105

Number of enforcement actions taken: 3

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

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

Ordinance or Regulatory Mechanism

Date update was completed (due in year 3): June 8, 2020

Website of ordinance or regulatory mechanism:

https://www.townofmedway.org/sites/g/files/vyhlif8006/f/uploads/sw_bylaw_clean_voted_at_june_8_2020_tm_final_bjs_1.pdf

As-built Drawings

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

Number of as-built drawings received: 3

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:

On May 9, 2023 the Planning Board amended their Site Plan Rules and Regulations based on suggestions proposed in the report completed in Year 4.

Green Infrastructure Report

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

During Year 5, the Community and Economic Development Department and Department of Public Works collaborated on an update to the Stormwater Management and Land Disturbance Bylaw to include additional design requirements and guidance for low impact development and use of nature based solutions. The Land Disturbance Permit Rules and Regulations were also drafted. The Bylaw amendments are anticipated to be accepted during the Fall Town Meeting (2023). The Planning Board and Conservation Commission will adopt the Land Disturbance Rules and Regulations accordingly.

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):

Priority Parcels include:

45 HOLLISTON ST
9 LOVERING ST
76 OAKLAND ST
44 MILFORD ST
155 VILLAGE ST
16 CASSIDY LN
315 VILLAGE ST
26 HIGH ST
0 OAKLAND ST
0 VILLAGE ST
0 CROOKS ST
0 NORTH ST
88 SUMMER ST
46 MILFORD ST
123 HOLLISTON ST
13 CHESTNUT ST
6 FREEDOM TRAIL
18 TROTTER DR

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

MCM6: Good Housekeeping

Catch Basin Cleaning

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

Number of catch basins inspected: 2,163

Number of catch basins cleaned: 2,163

Total volume or mass of material removed from all catch basins: 198.85 tons

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

Total number of catch basins: 2,618

If applicable:

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

During Year 5, the DPW invested in a tracking system for catch basin cleaning. This will help with data collection and gain a better representation of how full a basin was prior to its cleaning. Year 6 we will have data to compare sediment depths and will create work orders to inspect and clean more frequently. Land use and drainage area will be investigated as well to determine any contributing factors.

Street Sweeping

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

☒ Number of miles cleaned: 1,410.8

☐ 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: 2

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

There were no corrective actions taken at the DPW Facility. We continue to follow the operations and maintenance plan as described in the SWPPP.

Additional Information

Monitoring or Study Results

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

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

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

Additional Information

Optional: Enter any additional information relevant to your stormwater management program implementation during the reporting period. Include any BMP modifications made by the MS4 if not already discussed above. If any of the above year 5 requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

Activities Planned for Next Reporting Period

Please confirm that your SWMP has been, or will be, updated to comply with all applicable permit requirements including but not limited to the year 6 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree ☒

Annual Requirements

- Annual report submitted and available to the public
- Annual opportunity for public participation in review and implementation of SWMP
- Keep records relating to the permit available for 5 years and make available to the public
- Properly store and dispose of catch basin cleanings and street sweepings so they do not discharge to

receiving waters

- Annual training to employees involved in IDDE program
- Update inventory of all known locations where SSOs have discharged to the MS4
- Continue public education and outreach program
- Update outfall and interconnection inventory and priority ranking and include data collected in connection with the dry weather screening and other relevant inspections conducted
- Implement IDDE program
- Review site plans of construction sites as part of the construction stormwater runoff control program
- Conduct site inspection of construction sites as necessary
- Inspect and maintain stormwater treatment structures
- Log catch basins cleaned or inspected
- Sweep all curbed streets at least annually
- Continue investigations of catchments associated with Problem Outfalls
- Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities
- Review inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment; update if necessary
- Review O&M programs for all permittee owned facilities; update if necessary
- Implement all maintenance procedures for permittee owned facilities in accordance with O&M programs
- Implement program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- Enclose all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- Review as-built drawings for new and redevelopment to ensure compliance with post construction bylaws, regulations, or regulatory mechanism consistent with permit requirements
- Inspect all permittee owned treatment structures (excluding catch basins)
- Identify additional permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious areas so that the permittee maintains a minimum of 5 sites in their inventory, until such a time when the permittee has less than 5 sites remaining

Provide any additional details on activities planned for permit year 6 below:

1. Complete engineering designs for Middle School structural BMPs and begin construction.
2. Complete engineering designs for Holliston Street structural BMPs.

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:

Michael E. Boynton

Title: Town Manager

Signature:



[Signatory may be a duly authorized representative]

Date:

9/21/23