

Year 4 Annual Report
Massachusetts Small MS4 General Permit
Reporting Period: July 1, 2021-June 30, 2022

Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form

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, 2021 and June 30, 2022 unless otherwise requested.

Part I: Contact Information

Name of Municipality or Organization:

EPA NPDES Permit Number:

Primary MS4 Program Manager Contact Information

Name: Title:

Street Address Line 1:

Street Address Line 2:

City: State: Zip Code:

Email: Phone Number:

Stormwater Management Program (SWMP) Information

SWMP Location (web address):

Date SWMP was Last Updated:

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

Part II: Self-Assessment

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

Impairment(s)

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

TMDL(s)

In State:

Assabet River Phosphorus
 Bacteria and Pathogen
 Cape Cod Nitrogen
 Charles River Watershed Phosphorus
 Lake and Pond Phosphorus

Out of State:

Bacteria/Pathogens
 Metals
 Nitrogen
 Phosphorus

Clear Impairments and TMDLs

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

Year 4 Requirements

Developed a report assessing current street design and parking lot guidelines and other local
 requirements within the municipality that affect the creation of impervious cover, made it available as part of the SWMP, and:

- No updates were recommended
- Updates were recommended. The anticipated date or date of completion for updates is/was:

June 30, 2024

Developed a report assessing local regulations to determine the feasibility of making green
 infrastructure practices allowable when appropriate site conditions exist, made it available as part of the SWMP, and:

- No updates were recommended
- Updates were recommended. The anticipated date or date of completion for updates is/was:

June 30, 2024

Identified a minimum of 5 permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious cover

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

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 website:

- Updated system map due in year 2 as necessary
- Provided training to employees involved in IDDE program within the reporting period
- Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
- All curbed roadways were swept at least once within the reporting period
- Enclosed all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities
- Updated inventory of all permittee owned facilities as necessary
- O&M programs for all permittee owned facilities have been completed and updated as necessary
- Implemented all maintenance procedures for permittee owned facilities in accordance with O&M programs
- Implemented program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- Inspected all permittee owned treatment structures (excluding catch basins)

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

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

Annual Requirements

*Public Education and Outreach**

- Annual message was distributed encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
- Permittee or its agents disseminated educational material to dog owners at the time of issuance or renewal of dog license, or other appropriate time

- Provided information to owners of septic systems about proper maintenance in any catchment that discharges to a water body impaired for bacteria
 * *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)

Phosphorus Source Identification Report

- Completed the Phosphorus Source Identification Report
- The Phosphorus Source Identification Report is attached to the email submission
 - The Phosphorus Source Identification Report can be found at the following website:

<https://www.dedham-ma.gov/departments/engineering/municipal-stormwater-ms4>

Potential structural BMPs

- 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.

- The BMP information is attached to the email submission
- The BMP information can be found at the following website:

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 associated with existing structural BMPs has been calculated for some developments in Town. However, the Town is still working to refine this information and expand this analysis. As the Town moves forward in developing their Phosphorus Control Plan, the Town will track and estimate the phosphorus removed by each BMP including reporting the BMP type, total area treated, design storage volume, and the estimated phosphorus removed in mass per year. The Town has begun drafting language to include in the Stormwater Management Rules and Regulations which require developers submitting for a Major Stormwater Permit to provide information and calculations for structural BMPs and the associated phosphorus reduction.

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 website:

<https://www.dedham-ma.gov/departments/engineering/municipal-stormwater-ms4>

- 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 has been collecting data during annual catch basin cleaning that will be utilized to develop a catch basin cleaning optimization plan. This plan will be developed and implemented once sufficient data has been collected. The plan will include provisions to prioritize areas that discharge to water bodies impaired for solids, oil, grease, or metals. The Town has also developed a tablet-based catch basin cleaning inspection form to more easily identify catch basins that are filling up more frequently. Most of the Town owned catch basins were cleaned in 2022. Using this new data point for each catch basin, the catch basin optimization plan will be developed in Permit Year 5.

Charles River Watershed Phosphorus TMDL

- Defined the scope of the Phosphorus Control Plan (PCP). *Please select one of the following:*
- The PCP scope is the entire area within our jurisdiction within the Charles River Watershed
 - The PCP scope is the urbanized area portion of our jurisdiction within the Charles River Watershed

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:

Both of the above items are true, as the entire area under the Town's jurisdiction within the Charles River Watershed is urbanized.

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

- Estimated the current impervious area of permittee owned property, determined the Land Use information for permittee owned property, calculated the phosphorus removal in pounds per year for any structural BMP owned by the permittee in accordance with Appendix F Attachment 3, and recorded the date of last maintenance activity for all structural BMPs for which phosphorus removal is calculated
- The above information is attached to the email submission
 - The above information can be found at the following website:

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

There are no known locations where SSOs have discharged to the MS4 during the reporting period or in the 5 years prior to the start of the reporting period.

The Town performed training on Illicit Discharge Detection and Elimination (IDDE) and Good Housekeeping and Pollution Prevention in June 2022. Due to the COVID-9 pandemic, a formal, in-person training was not permissible, so PowerPoint Presentations were distributed to staff, and staff had to send confirmation to the Director of Engineering verifying that they completed the required training.

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 list of outfalls/interconnections and their receiving waters was updated during Permit Year 3 as part of the completed dry-weather outfall screening and sampling. The Town updated this list again in Permit Year 4 to reflect minor changes in their drainage system. The updated list of receiving waters and outfalls is included in Section 1 of the Town's SWMP. In addition, any new impairments are included in Section 1 of the SWMP as well.

Part IV: Minimum Control Measures

Please fill out all of the metrics below. If applicable, include in the description who completed the task if completed by a third party.

MCM1: Public Education

Number of educational messages completed **during this reporting period:**

Below, report on the educational messages completed **during this reporting period**. For the measurable goal(s) please describe the method/measures used to assess the overall effectiveness of the educational program.

BMP: Dog Waste Flyers

Message Description and Distribution Method:

The Town distributed a flyer entitled "There's no such thing as the poop fairy" with dog license issuances and renewals during Permit Year 4. These flyers were distributed both in-person and via mail after the onset of COVID-19. These flyers were also maintained on the Town website throughout the permit year.

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

The Town distributed 1,150 dog waste flyers with dog license issuances and renewals during the reporting period.

Message Date(s):

Message Completed for: Appendix F Requirements Appendix H Requirements

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

If yes, describe why the change was made:

BMP: Leaf Litter Messaging

Message Description and Distribution Method:

The Town posted and maintained information provided by the Neponset River Watershed Partnership regarding proper disposal of leaf litter to the home page of its website throughout the permit year. The leaf litter slider also served as a link to the Town's stormwater webpage, where more educational information is posted. As part of the fall campaign, the Town also shared the information to the "Dedham DPW" Facebook and "Town of Dedham Engineering Dept" Twitter pages.

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

By posting the leaf litter slide to the home page of the Town's website, Dedham ensured that it would be accessible to as many residents as possible.

Message Date(s): Dec 2021, Permit Year 4

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: Septic System Messaging

Message Description and Distribution Method:

The Town posted and maintained a SepticSmart flyer developed by the EPA and a SepticSmart homeowners' guide to its website throughout the permit year. The flyer was posted in both English and Spanish.

Targeted Audience: Residents

Responsible Department/Parties: Health Department, Engineering Department

Measurable Goal(s):

By posting the septic system flyer to the home page of the Town's website, Dedham ensured that it would be accessible to as many residents as possible.

Message Date(s): Permit Year 4

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: Regional Outreach Mailer

Message Description and Distribution Method:

The Neponset River Watershed Association mailed out an informational flyer to all residents in Dedham during July 2022. The flyer covered rain barrels, dog waste management, fertilizer use, and other topics related to stormwater management.

Targeted Audience: Residents

Responsible Department/Parties: Neponset Stormwater Partnership

Measurable Goal(s):

By posting the flyer to the Town's website, Dedham ensured that it would be accessible to as many residents as possible.

Message Date(s): July 2022 (one week after Permit Year ended)

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: Yard Waste Flyer

Message Description and Distribution Method:

A flyer regarding best management practices for yard waste was developed and sent out to all the public schools in Dedham.

Targeted Audience: Residents

Responsible Department/Parties: Engineering Department, School Department

Measurable Goal(s):

By maintaining the yard flyer on the Town's website as well as handing it out to students, Dedham ensured that it would be accessible to as many residents as possible.

Message Date(s): Permit Year 4

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: Outreach Message

Message Description and Distribution Method:

The Town maintained the Neponset River Watershed Association informational flyer on their website throughout the the permit year. Throughout the rest of Year 4, messages related to stormwater management were sent out through social media targeting residents. These messages included topics of general stormwater management, leaf litter and fall clean up best practices, and proper disposal of pet waste. The messages were sent out via Facebook Ads, the DPW Facebook page, the Engineering Department Twitter page, the DPW Twitter page, the Town website, email notifications to Town website subscribers, and to the Dedham School System.

Targeted Audience: Residents

Responsible Department/Parties: Engineering Department

Measurable Goal(s):

The flyer was sent to every house in Dedham in July 2021.

Message Date(s): Permit Year 4

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: Outreach Message

Message Description and Distribution Method:

Throughout Permit Year 4, messages related to stormwater management were sent out through social media targeting residents and businesses. These messages included topics of general stormwater management, leaf litter and fall clean up best practices, and proper disposal of pet waste. The messages were sent out via Facebook Ads, the DPW Facebook page, the Engineering Department Twitter page, the DWP Twitter page, the Town website, email notifications to Town website subscribers, and to the Dedham School System.

Targeted Audience: Businesses, Institutions, and Commercial Facilities

Responsible Department/Parties: Engineering Department

Measurable Goal(s):

By maintaining the information on the Town's website as well as making social media posts, Dedham ensured that it would be accessible to as many businesses as possible.

Message Date(s): Permit Year 4

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: Outreach Message

Message Description and Distribution Method:

Two public education flyers were created targeting developers. One flyer focused on reducing stormwater runoff during construction, and a second flyer focused specifically on sediment and erosion control for

developers. Both flyers were distributed to developers by the Conservation Department, Planning Department, Building Department and Engineering Department when they submit for applications and permits.

Targeted Audience: Developers (construction)

Responsible Department/Parties: Conservation Dept, Planning Dept, Building Dept, and Engineering Dept

Measurable Goal(s):

The Town distributed a total of 113 flyers to developers.

Message Date(s): Permit Year 4

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: Outreach Message

Message Description and Distribution Method:

A stormwater prevention guide flyer, which focused on stormwater management related to industrial facilities, was mailed to industrial facilities within the Town.

Targeted Audience: Industrial Facilities

Responsible Department/Parties: Engineering Department

Measurable Goal(s):

The flyer was mailed to 57 industrial facilities.

Message Date(s): Permit Year 4

Message Completed for: Appendix F Requirements Appendix H Requirements

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

If yes, describe why the change was made:

Add an Educational Message

MCM2: Public Participation

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

The Town posted the updated SWMP, dated June 2022, to its website at the end of Permit Year 4. The SWMP was made available for public comment. In addition, Annual Reports for Permit Years 1, 2, and 3 were also made available on the Town's website throughout Permit Year 4.

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:**

The Board of Health held its annual Household Hazardous Waste Collection Day on October 3, 2021 and on April 30, 2022, providing the opportunity for residents to properly dispose of hazardous materials such as paints, pesticides, vehicle fluids, batteries, flammable materials, and other substances that may have otherwise been discharged into the MS4. The DPW staff additionally collect and properly dispose of hazardous materials year-round as needed.

In addition to providing bi-weekly curbside recycling pickup, the Town held a recycling collection event on April 2, 2022, to collect items that are not accepted during curbside pickup, but are still recyclable. The Town held a combined electronic/styrofoam/cardboard recycling day in January 2022. Dedham Arts also held an electronic/metals recycling event in October 2021 for items not accepted during curbside pickup, but are still recyclable. The Town additionally hosts a monthly cardboard recycling day.

Rain barrels were made available for purchase to residents from the Dedham-Westwood Water District and composting bins were made available for purchase through the Conservation Department.

Dedham continued to participate in the Neponset River Watershed Association which ran an educational advertising campaign through ThinkBlue Massachusetts from May 17 to June 4, 2022. Facebook and Instagram sponsored videos and Youtube pre-roll ads were used to help viewers visualize how trash, pet waste, and motor oil become stormwater pollution. This video was also distributed in Spanish. While ad impressions targeted members of all communities in the NepRWA, 12,968 Facebook and Instagram and 17,448 YouTube ad impressions can be attributed to Dedham residents. The ad campaign was followed by a survey of resident in all target communities - those who remembered seeing the ad were more likely to know that stormwater pollution ends up in local waterways and more likely to consider polluted runoff a serious environmental threat.

The Town continued its Citizens Water Monitoring Network, an initiative organized through the Neponset River Watershed Association, during the reporting period. Resident volunteers collected quarterly samples at the Mother Brook at Washington Street station, testing for E.coli, total phosphorus, pH, dissolved oxygen, temperature, ortho-phosphate, total nitrogen, and ammonia.

MCM3: Illicit Discharge Detection and Elimination (IDDE)

Sanitary Sewer Overflows (SSOs)

Check off the box below if the statement is true.

- This SSO section is NOT applicable because we DO NOT have sanitary sewer

Below, report on the number of SSOs identified in the MS4 system and removed **during this reporting period**.

Number of SSOs identified:

Number of SSOs removed:

MS4 System Mapping

Optional: Provide additional status information regarding your map:

During the reporting period, the Town was able to refine their outfall and interconnection inventory. The MS4 map will continue to be updated as necessary as there are updates to existing drainage infrastructure and as new drainage infrastructure is constructed. Updates to the Town's MS4 system mapping were completed to include these changes. The most recent version of the MS4 map is included with the SWMP and is also available at the following location: <https://dedham.maps.arcgis.com/home/index.html>.

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 outfall screening data is attached to the email submission
- The outfall screening data can be found at the following 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:

Wet weather outfall screening was completed for 22 outfalls during the reporting period, of which 20 were flowing and were sampled. The Town previously completed dry weather screening for all their outfalls in Permit Year 3. The Town also conducted wet weather sampling for 20 outfalls in Permit Year 3 bringing the total to 40 outfalls sampled during wet weather through Permit Year 4.

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 website:

Below, report on the number of catchment investigations completed during this reporting period.

Number of catchment investigations completed this reporting period:

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

Percent of total catchments investigated:

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

The Town investigated 10 catchments during Permit Year 4, however there were only 9 new catchments where both catchment investigations and wet weather outfall sampling were completed. Per the permit, the Town is only reporting that catchment investigations are complete in catchments where outfalls/interconnections have been screened during dry weather, where key junction manholes in these catchments have been screened, and where wet weather sampling has been completed, and where all results indicated no evidence of likely sewer input based on field observations and sampling. Catchment investigation data attached to this report includes all the investigations completed during the reporting period. There are 179 outfalls in Dedham that have at least one SVF, therefore wet weather sampling must be conducted at each of these outfalls for catchment investigations to be considered complete. The Town's most recent SVF Matrix is attached to the e-mail with the Annual Report submission.

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 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:

The Town's most recent Catchment Prioritization & Ranking Matrix is attached to the e-mail with the Annual Report submission.

Employee Training

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

Individual IDDE employee training was conducted in June 2022 of the reporting period. PowerPoint presentations were sent to staff and the staff had to send an email confirmation to the Director of Engineering that they had completed the training. This was done due to limitations from the effects of COVID-19.

MCM4: Construction Site Stormwater Runoff Control

*Below, report on the construction site plan reviews, inspections, and enforcement actions completed **during this reporting period**.*

Number of site plan reviews completed:

Number of inspections completed:

Number of enforcement actions taken:

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

The number of site plan reviews, inspections, and enforcement actions taken is for all projects, even those where there was less than an acre of disturbance.

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

Ordinance or Regulatory Mechanism

Date update was completed (due in year 3):

As-built Drawings

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

Number of as-built drawings received:

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

The number of as-builts received is for all projects, even those where there was less than an acre of disturbance.

Retrofit Properties Inventory

Below, list the permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas (at least 5):

- 1) Avery Elementary School
- 2) Dedham High School
- 3) 34 Milton St
- 4) Dedham Public Works
- 5) 37 Brookside Ave

MCM6: Good Housekeeping

Catch Basin Cleaning

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

Number of catch basins inspected:

Number of catch basins cleaned:

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

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

Total number of catch basins:

If applicable:

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

Street Sweeping

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

- Number of miles cleaned:
- Volume of material removed: [Select Units]
- Weight of material removed: [Select Units]

Stormwater Pollution Prevention Plan (SWPPP)

Below, report on the number of site inspections for facilities that require a SWPPP completed **during this reporting period**.

Number of site inspections completed:

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

Inspections were conducted at the DPW Facility during all four quarters for the reporting period, with one inspection conducted during wet weather. No corrective actions were taken at this facility. However, the Town is in the process of designing improvements to the DPW facility site based on recommendations included in the SWPPP. Improvements include design of three (3) subsurface in-line hydrodynamic separators to remove trash and debris, sediment, floatables and other larger pollutants. A double catch basin and a plunge pool are also being installed at the rear of the site to provide erosion control and keep the existing vegetation intact in an effort to slow down the rate of runoff to Mother Brook and allow stormwater to infiltrate and/or naturally be filtered by the existing vegetation. The Town is also in the process of conducting a feasibility study for a designated vehicle washing station.

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 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:

The Neponset River Watershed Association has been collecting water quality data in Dedham and throughout the Neponset River watershed since 1996. Samples are collected by volunteers through the Community Water

Monitoring Network and by the Neponset River Watershed Association staff. The data is used to track the health of the Neponset River and its tributaries, and to locate pollution sources for follow-up sampling. There is one permanent monitoring station in Dedham located on Mother Brook. The station is tested for E. coli, total phosphorus, pH, dissolved oxygen, and temperature once per month between May and October. Recommendations related to phosphorus and E. coli levels were identified in the 2021 Water Quality Report, which is attached to the e-mail submission with this Annual Report. The Town will utilize this data, where warranted, during future MS4 compliance initiatives.

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:

COVID-19 Impacts

Optional: If any of the above year 4 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 5 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 5 below:

Part V: Certification of Small MS4 Annual Report 2021

40 CFR 144.32(d) Certification

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

Name: Title:

Signature: Date:

[Signatory may be a duly authorized representative]