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: Town of Medway

EPA NPDES Permit Number: MAR041132

Primary MS4 Program Manager Contact Information

Name: Stephanie Carlisle Title: Compliance Coordinator

Street Address Line 1: 45 Holliston Street

Street Address Line 2:

City: Medway State: MA Zip Code: 02053

Email: scarlisle@townofmedway.org Phone Number: (508) 321-4871

Stormwater Management Program (SWMP) Information

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

Date SWMP was Last Updated: June 27, 2022

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:

Discussions are to begin in FY23 but updates are dependent on Town Meeting approval.

☒ 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:

Discussions are to begin in FY23 but updates are dependent on Town Meeting approval.

☒ 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:
The 5 permittee-owned properties were identified during Year 2.

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:

1. The O&M manual and program was updated during Year 4; however, the procedures outside of the jurisdiction of the Department of Public Works have not been fully communicated yet. We anticipate creating a training exercise for other applicable departments.
2. The Department of Public Works is developing an MS4 infrastructure maintenance program.

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 Sourchace Identification Report is attached to the email submission

○ The Phosphorus Source Identification Report can be found at the following website:

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:

We began working on the Phosphorus Source Identification Report after the close of Year 4.

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:

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:

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 any additional information discovered in the field throughout the Year 4 reporting period.

The updated List of Impaired Waters changed Chicken Brook (segment 72-34) from a Category 2 water to a Category 5 water with E.coli as the listed impairment. Hopping Brook (segment 72-35) was also changed from a Category 2 water to a Category 5 water with E.coli as the listed impairment. This change was incorporated during Year 2.

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.*

(1) **BMP:[Leaf Litter Management]**

Message Description and Distribution Method:

Message distributed through the Town's Facebook page and 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 (https://bit.ly/2YjTITA). 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. @townofmedway." This post included a link to the Neponset Stormwater Partnership's yard waste disposal page.

Targeted Audience: Residents

Responsible Department/Parties: DPW, Communications Director

Measurable Goal(s):

382 people reached, 68 engagements, 33 likes, 4 comments, and 3 shares.

Message Date(s): October 5, October 7, October 12, October 14, October 21, and October 26, 2021.

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 landscape management in general. By using the Town and DPW's social media platforms, we are able to reach a large audience that can be shared among residents and groups.

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(2) **BMP: Stormwater 101**

Message Description and Distribution Method:

At an annual public event, the DPW had a table dedicated to sharing stormwater information 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. 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 that ran from 10am to 4pm.

Message Date(s): May 21, 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:

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3 **BMP:Stormwater 101**

Message Description and Distribution Method:
Posters used at Medway Pride Day are propped on an easel in the main entrance of the Town Hall. 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.

Targeted Audience: Residents

Responsible Department/Parties: DPW

Measurable Goal(s):
Residents are able to see the poster when they arrive at Town Hall.

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:
This is an additional method to reach the public.

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4 **BMP: Pet Waste Management - National Scoop the Poop Week**

Message Description and Distribution Method:
Message posted on DPW and Town's 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):

4,193 people reached, 242 engagements, 47 likes, 11 comments, and 19 shares.

Message Date(s): August 26, 2021, May 2, 2022, and May 5, 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:

The messaging did not change, but the distribution method did.

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(5) **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):

1,700 dog licenses issued.

Message Date(s): January 1, 2022 through March 31, 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:

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(6) **BMP:Landscape Mangement**

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): June 15, 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:
The messaging did not change but the distribution method did.

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7 **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):
42 people reached, 2 engagements, 3 likes, 1 comment, and 0 shares.

Message Date(s): June 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:
The message did not change but the distribution method did.

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8 **BMP:Caring for Your Septic System**

Message Description and Distribution Method:
Mailed a brochure titled "Caring for Your Septic System" to residents with septic systems in Town.

Targeted Audience: Residents

Responsible Department/Parties: DPW

Measurable Goal(s):

Mailed to residents with septic systems near problem outfalls.

Message Date(s): October 2021

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 additional messaging than what was proposed in the NOI.

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(9) **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 29, 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:

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(10) **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:

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(11) **BMP:Phosphorus Reduction Education**

Message Description and Distribution Method:

At the Medway Pride Day event, the DPW managed a table dedicated to stormwater awareness and had a poster explaining nutrient pollution in the Charles River and its effects on water quality and wildlife.

Targeted Audience: Residents

Responsible Department/Parties: DPW

Measurable Goal(s):

Engaged with the public at Medway Pride Day event that ran from 10am to 4pm.

Message Date(s): May 21, 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:

This item was not included 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**:

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 they observe. This opportunity is available to residents 24/7.

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 Town participated in phase II of the Charles River Flood Model project. There were several opportunities for the public to comment on how stormwater is managed within the Town. Also, the Town is working on its Master Plan, and there have been numerous opportunities for residents to comment on stormwater management in town.

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 year, we created new GIS layers identifying the location of septic systems, drinking wells, and irrigation wells.

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: 7

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:

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 and Year 4. The outfall screening data is included in the IDDE Removal Report.

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: 8

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

Percent of total catchments investigated: 2

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

Catchment investigations are conducted when a sample result at the outfall is higher than the Massachusetts Surface Water Quality Standards. The catchment investigations are documented in the IDDE Removal Report.

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: 8

Number of illicit discharges removed: 3

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: 56

Total number of illicit discharges removed: 3

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

Dry weather outfall screening and sampling was completed during the spring of Year 3. At the time, we began investigating catchment areas that showed E.Coli levels that exceed the 235 colonies per 100mL. During Year 4, we reanalyzed our screening data and included outfalls with sample results outside the limits for salinity, detergent, pH, E.coli, and total phosphorus. During Year 4, we identified a benchmark measure for total phosphorus so we would know if a sample result was high or not. The updated list is included in the IDDE Removal Report.

Employee Training

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

IDDE training: 12/16/2021 hosted by VHB, 5/3/22 hosted by Buzzards Bay National Estuary Program and Massachusetts Maritime Academy.
SWPPP Training: 6/22/2022.

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: 11

Number of inspections completed: 192

Number of enforcement actions taken: 2

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

As-built Drawings

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

Number of as-built drawings received: 1

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

The new Department of Public Works building was completed and as-built submitted.

Retrofit Properties Inventory

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

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

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: 2,132

Number of catch basins cleaned: 2,132

Total volume or mass of material removed from all catch basins: 141.87 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:

Street Sweeping

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

- (•) Number of miles cleaned: 1,143
- ( ) 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: 3

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 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:

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:

1. Phosphorus Source Identification Report.
2. Phosphorus Control Plan.
3. BMP maintenance.
4. Business, Developers, and Industrial properties education.
5. O&M training for other departments.
6. Follow-up on IDDE inspections.
7. Stormwater Infrastructure Maintenance program.

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.

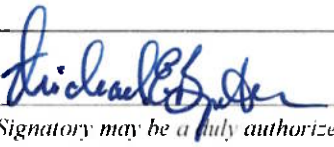
Name:	Michael E. Boynton	Title:	Town Manager
Signature:		Date:	

[Signatory may be a duly authorized representative]

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:	Michael E. Boynton	Title:	Town Manager
Signature:		Date:	09/26/22

[Signatory may be a duly authorized representative]

Illicit Discharge Detection and Elimination Report from Dry Weather Sampling Results Year 3

Outfall ID	Status
6-7	Open
12-9	Closed
12-12	Closed
16-2	Closed
16-5	Open
16-8	Open
50-3	Open

Outfall 6-7 on Whitney Road

Sampled on April 6, 2021 and results show E.coli at 1130 cfu. First, DPW looked to see if the area has sewer or septic. This area has septic. Potential contributors were identified on Whitney Road, Harding Street, Claybrook Farm Road, Summer Street, and Rising Star Horse farm on Summer Street. On April 13, 2021, sampled Outfall 12-16 to rule out Claybrook Farm Road area as a potential contributor. Sample results were <10 cfu. DPW looked through septic plans for 3, Harding Road, 148 Summer Street, 149 Summer Street, 150 Summer Street, 2 Whitney Road, 4 Whitney Road, 5 Whitney Road, 6 Whitney Road, and 7 Whitney Road.

Plan to investigate next likely contributors: 2 Whitney Road last pump out record from 2018 with a note of heavy solids. 4 Whitney Road last pump out record from 1998. 5 Whitney Road last pump out in 1998 twice. 7 Whitney Road no record of pump outs. Investigate the Rising Star Horse Farm as a potential contributor.

- Send IDDE letter to the contributing areas.
- Send Septic System maintenance brochure
- Retest Outfall 6-7, and test at two manholes on Whitney Road.
- 5 Whitney may have a subdrain around the septic system that is directly connected to the catch basin
- Inspect catch basins looking for sediment, pet waste bags, etc.
- Test at Culvert 6-2 across Summer Street

On 7/27/2021 retested at the outfall. Results showed E.coli 130 cfu. Tested at CB1 (subdrain) results showed E.coli 15 cfu. Tested at the Farm outlet results were E.coli 420 cfu. Tested at MH1 results were E.coli 290 cfu. I think one of the manholes was dry so we couldn't sample there. Nothing was evident in the catch basins like pet waste etc. We think it is likely coming from the horse farm.

On 9/13/2021 mailed potential illicit discharge contributor letter and heard back from resident on 9/17/2021. She has her horse manure taken away every other week and doesn't know what else she can do to keep the area clean. She met with Board of Health agent in the past and was told that her farm was one of the cleanest the agent has ever seen. DPW will continue to investigate this area.

Outfall 12-9 on Stable Way

Sampled on April 6, 2021 and results show E.coli at 1630 cfu. Looked for sewer or septic and there is sewer in the area. Recent sewer line camera investigation showed no signs of cross connections between the sewer and storm drain lines. Also, there were no signs of cracks in the sewer line, no signs of infiltration. New development built in 2002. The results from the outfall catchment area delineation tool show that the area up to 22 Stable Way contributes stormwater to this outfall. *outfall 12-12 has small drainage area according to the tool but it tested for e.coli at 170 cfu.

- Send IDDE letters to 1 – 22 Stable Way
- Retest Outfall 12-9 and at the 6 manholes

- Check catch basins for debris (sediments, pet waste bags)
- Camera the storm drain line with the Water Dept

On 7/27/2021 Nolan retested the outfall. E.coli results were 10 cfu. Tested at the next manhole with flow and results were <10cfu. Source undetermined.

Outfall 12-12 on Stable Way

Sampled on April 6, 2021 and results show E.coli at 170 cfu. This is within the limits as long as the average of 5 samples are less than 125 cfu. The adjacent Outfall-12-9 exceeds the limit.

- Retest Outfall
- Investigate the two contributing catch basins
- Camera the storm drain line

On 7/27/2021 Nolan retested the outfall. E.coli results were 10 cfu. Tested at the next manhole with flow and results were <10cfu. Source undetermined.

Outfall 16-2 on Broken Tree Road

Sampled on March 22, 2021: E.coli 310 cfu
Resampled on April 6, 2021: E.coli 60 cfu
Sampled upstream manholes on April 6, 2021

MH1: E.coli 140 cfu
MH2: E.coli 10 cfu

- Based on sampling results from April 6, the issue is likely near 9 Broken Tree Road.
- Potentially selling the house 9 Broken Tree. They'll need a Title 5. Look for plans from BOH.
- Retest outfall

Resident is selling house and failed the Title V. We will retest once the septic system is replaced and determine if that was the cause.

Sampled location. No evidence of illicit discharge.

Outfall 16-5 on Saddle Hill Road

Sampled on April 6,2021 and results show E.coli at 280 cfu. Contributing area is on septic. Hill View Terrance, Sun Valley Drive, Ellis Street, Spruce Road, and Saddle Hill Road. According to the delineations, there are 23 acres that drain to this outfall.

- Camera the drain line between Hill View Terrace & Sun Valley Road across to Saddle Hill and confirm connection
- Send IDDE letters to residents in contributing area
- Send septic system maintenance brochure
- Retest outfall and key junction manholes
- May need septic plans and pumps for 24,25, 26 Ellis Street
- May need septic plans and pumps for: 4,6,7,8,9,10,12 Sun Valley Drive
- May need septic plans and pumps for: 17,19,21 Spruce Road

On 7/27/2021 retested outfall and results showed 30 cfu. Upstream at MH1 was 20 cfu, MH2 was 130 cfu (at the corner of Ellis Street), and MH3 was 260 cfu. Letters need to be sent to the above addresses. May need more sampling.

9/13/2021 mailed potential illicit discharge detected letter to residents and included the septic system maintenance brochure. Several residents called the DPW to learn more and we have been educating people about the stormwater standards and sampling as well as ways they can help mitigate their impacts (i.e. make sure the septic system is properly

maintained, pet waste is picked up and disposed of properly). We also took this time to ask people to use phosphate free fertilizers and/or test their soils before applying fertilizers because the excess nutrients cause the blue-green algae blooms like the ones we've been seeing in our local lakes and ponds.

Outfall 16-8 on Saddle Hill Road

Sampled on April 12, 2021 and results showed detergents at 1.0 mg/L. Area has septic. Drainage area 6 acres including 18, 20, 22 Spruce Road and 13, 11 Saddle Hill Road.

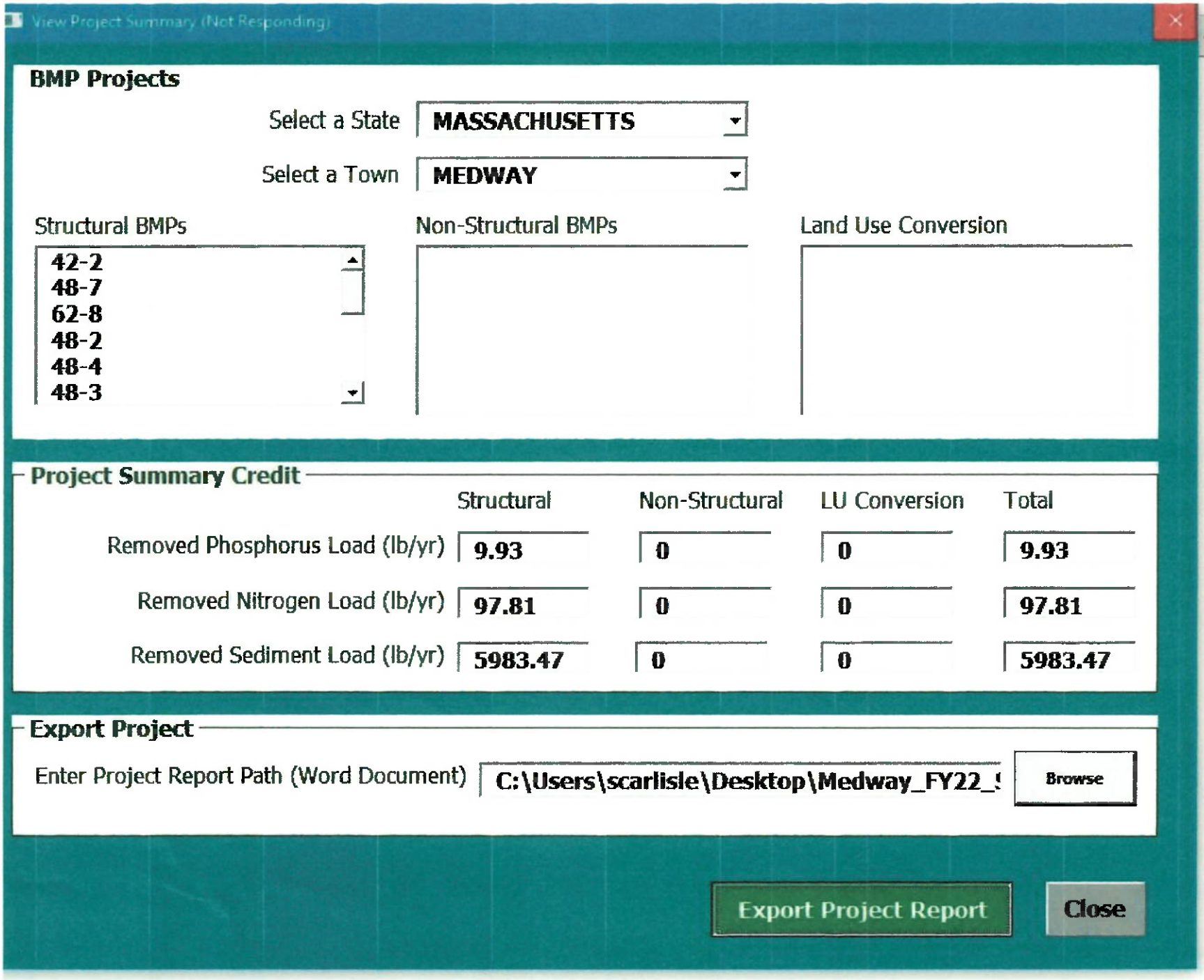
- Retest

Outfall 50-3 on Kenney Drive

Sampled on April 8, 2021 and results showed >3000 cfu. Contributing area is Kenney Drive and 2 catch basins on Holliston Street. Area was converted from septic to sewer in ~2015. The old tank was abandoned and left unpumped. Salinity is high (0.9ppt), conductivity is high (1,997µS/cm) temperature was warmer than other outfalls by comparison (63F)

- Send IDDE letter to Housing Authority
- Retest outfall and key junction manholes

On 7/27/2021 retested outfall and results show 80 cfu. CB1 was 150 cfu (parking lot) CB2 was 70 cfu (grass) and MH1 was 20 cfu. Source still undetermined.


View Project Summary (Not Responding)
BMP Projects
Select a State
MASSACHUSETTS
Select a Town
MEDWAY
Structural BMPs
42-2
48-7
62-8
48-2
48-4
48-3
Non-Structural BMPs
Land Use Conversion
Project Summary Credit
Structural
Non-Structural
LU Conversion
Total
Removed Phosphorus Load (lb/yr)
9.93
0
0
9.93
Removed Nitrogen Load (lb/yr)
97.81
0
0
97.81
Removed Sediment Load (lb/yr)
5983.47
0
0
5983.47
Export Project
Enter Project Report Path (Word Document)
C:\Users\scarlisle\Desktop\Medway_FY22_
Browse
Export Project Report
Close