Year 3 Annual Report

Massachusetts Small MS4 General Permit Reporting Period: July 1, 2020-June 30, 2021

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, 2020 and June 30, 2021 unless otherwise requested.

Part I: Contact Information

| Name | of Municipality or Organi | zation: Town of Boxb | orough | | |
|----------------------|---|------------------------|---|--|--|
| EPA N | PDES Permit Number: M | AR041183 | | | |
| Prima | ry MS4 Program Manag | er Contact Informat | tion | | |
| Name: Edward Kukkula | | | Title: DPW Director | | |
| Street . | Address Line 1: 873 Mass | achusetts Avenue | | | |
| Street . | Address Line 2: | | | | |
| City: | ity: Boxborough State: MA Zip Code: 01719 | | | | |
| Email: | Email: ekukkula@boxborough-ma.gov | | Phone Number: (978) 264-1792 | | |
| Storm | water Management Prog | ram (SWMP) Infori | mation | | |
| SWMI | P Location (web address): | https://www.boxboro | ough-ma.gov/247/Stormwater-Management-Program | | |
| Date S | WMP was Last Updated: | June 30, 2021 | | | |
| If the S | SWMP is not available on | the web please provide | de 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

| here: <u>https://v</u> | <u>www.epa.gov/tmdl/region-1</u> | <u>-impaired-waters-a</u> | <u>nd-303d-lists-state</u> | |
|--|---|--|--|--|
| Impairment(| (<u>s)</u> | | | |
| | ☐ Bacteria/Pathogens | ☐ Chloride | ☐ Nitrogen | ☐ Phosphorus |
| | ☐ Solids/ Oil/ Grease (H | ydrocarbons)/ Meta | ls | |
| TMDL(s) | | | | |
| In State: | | orus 🗆 Bact | eria and Pathogen | ☐ Cape Cod Nitrogen |
| | ☐ Charles River Watersh | ed Phosphorus | ☐ Lake and Pond | Phosphorus |
| Out of State: | ☐ Bacteria/Pathogens | ☐ Metals | ☐ Nitrogen | ☐ Phosphorus |
| | | | CI | ear Impairments and TMDLs |
| Year 3 Requir | dditional information will be rements ted and screened all outfalled outfall/interconnection p | s/interconnections (| excluding Problem an | , |
| weather Post-co | er inspections as necessary onstruction bylaw, ordinand ermit requirements | ce, or other regulato | ry mechanism was up | dated and adopted consistent |
| any additional impacts of Co | - | of the above year and requirement that | 3 requirements could a could not be complete | |
| stormwater of that were inspected for the permitive stigated for This work is | • | for potential illicit days for potential illicit days for the set of the remaining for the set of t | ischarges. Of the 25 k wing. The flowing ou cit discharges and will 3 outfalls could not be ad/or evaluated at the | thown stormwater outfalls tfall was sampled and barely be resampled and/or further clocated, however, will be next upgradient structure. |
| _ | all Inventory and Priority R ith a comprehensive update | - | | _ |

Town will continue to locate and inspect additional stormwater infrastructure during future permit years.

Construction and Post-Construction Bylaw - The Town of Boxborough has established a "Construction and Post-Construction Stormwater Bylaw" dated June 29, 2020 and approved by the Attorney General on December 16, 2020 under the Town's general bylaws which regulates construction projects greater than 1 acre and is provided under Appendix B. The Town is currently in the process of adopting accompanying stormwater regulations to meet construction and post-construction requirements.

| A name 1 | Dag | uirements |
|----------|-----|-----------|
| Allilual | Neu | unements |

| <u> 11uai</u> | Requirements |
|---------------|---|
| \boxtimes | Provided an opportunity for public participation in review and implementation of SWMP and complied with State Public Notice requirements |
| \boxtimes | Kept records relating to the permit available for 5 years and made available to the public |
| I X | 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: |
| | |
| l X | Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters |
| [X] | Provided training to employees involved in IDDE program within the reporting period |
| \boxtimes | All curbed roadways were swept at least once within the reporting period |
| \boxtimes | Updated system map due in year 2 as necessary |
| | Enclosed all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt |
| \times | Implemented SWPPs 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 |
| \boxtimes (| 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 |
| \times] | Implemented program for MS4 infrastructure maintenance to reduce the discharge of pollutants |
| \boxtimes] | Inspected all permittee owned treatment structures (excluding catch basins) |
| | |

any additional information, and/or if any of the above annual 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:

Optional: If you would like to describe progress made on any incomplete requirements listed above, provide

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

| Public | Education | and Outre | ach* |
|---------|-----------|-----------|------|
| 1 uviic | Lancauon | una Oune | ucn |

- 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)

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:

Public Education and Outreach - the Town is part of the statewide ThinkBlue campaign which in part distributes a number of public outreach-related materials throughout the year. The Town also posted flyers on all three seasonal topics on its website for download at any time of the year.

Street Sweeping - streets were swept only once per year during Year 3. Note that only a small portion of southwestern Boxborough is located within the Assabet River watershed, and there are no known stormwater outfalls, catch basins, or other closed drainage infrastructure within this area. Stormwater runoff within this area simply sheetflows off the road via "country drainage" and thus there are no point-source stormwater contributions to the Assabet River or its tributaries. Thus, the Town is exempt from sweeping twice per year within these areas.

| Optional: Use self-assessmen | the box below to nt: | provide any addit | ional informatio | n you would like | e to share as pa | rt of your |
|------------------------------|----------------------|-------------------|------------------|------------------|------------------|------------|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Part III: Receiving Waters/Impaired Waters/TMDL

| Have you made any changes to your lists of receiving waters, outfalls, or impairments since the NOI was submitted? |
|---|
| ○ Yes |
| No |
| If yes, describe below, including any relevant impairments or TMDLs: |
| The Town updated its list of outfalls and receiving waters as new outfalls were found during the dry weather screening. The inspection results are attached to this annual report and a list and updated prioritization are als kept with the Town's IDDE Plan. |

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 : 2 |
|---|
| 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: Video, ThinkBlue Massachusetts "Fowl Water" |
| Message Description and Distribution Method: |
| ThinkBlue Massachusetts "Fowl Water" video (https://www.thinkbluemassachusetts.org/) Advertisement on Facebook, Instagram, & YouTube. |
| Targeted Audience: Residents |
| Responsible Department/Parties: Information Technology |
| Measurable Goal(s): |
| Social media impressions for the town totaled 9,627. |
| Message Date(s): May 17th to June 4th, 2021 |
| Message Completed for: Appendix F Requirements |
| Was this message different than what was proposed in your NOI? Yes ○ No ● |
| If yes, describe why the change was made: |
| |
| BMP: Web Page Message Description and Distribution Method: |
| Develop a town stormwater website with a links to external sites such as EPA and NHDES as well as provide stormwater brochures for download. |
| Targeted Audience: Residents, Businesses, institutions and commercial, Developers, Industrial |
| Responsible Department/Parties: Information Technology, Planning Board |
| Measurable Goal(s): |
| Creation of website with periodic updates. |

| Town of Boxborough | Page 7 |
|--|-------------------|
| Message Date(s): | |
| Message Completed for: Appendix F Requirements Appendix H Requirements □ | |
| Was this message different than what was proposed in your NOI? Yes O 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 Stormwa Program (SWMP) during this reporting period : | nter Management |
| SWMP Plan for Download - The Town has posted the SWMP Plan and other relevant inform website along with contact information to allow for public comment. | ation on Town |
| Was this opportunity different than what was proposed in your NOI? Yes ○ No ● | |
| Describe any other public involvement or participation opportunities conducted during this r | reporting period: |
| | |
| 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 sewe | r |
| | |
| Below, report on the number of SSOs identified in the MS4 system and removed during this report Number of SSOs identified: 0 | eporting period. |
| Number of 220s identified. A | |

| Town of Boxborough | Page 8 |
|--|---|
| Number of SSOs removed: 0 | |
| MS4 System Mapping | |
| Optional: Provide additional status information regarding | g your map: |
| All known outfalls, stormwater BMPs, and receiving wat date. Initial catchment delineations have also been comp stormwater system information. Mapping of open chann ongoing. Mapping interconnections with other MS4s (e.gontinue as part of DOT's own mapping efforts to be continued.) | leted based on topographic mapping and available el conveyances and any newly located outfalls is g. DOT) is ongoing, and it is expected that this will |
| Screening of Outfalls/Interconnections | |
| If conducted, please submit any outfall monitoring results results should include the date, outfall/interconnection id sampling, precipitation in previous 48 hours, field screen Please also include the updated inventory and ranking of | entifier, location, weather conditions at time of ing parameter results, and results from all analyses. |
| O No outfalls were inspected | |
| • The outfall screening data is attached to the | |
| ○ 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: 0 | |
| Below, report on the percent of outfalls/interconnections | screened to date . |
| Percent of outfalls screened: 89 | |
| Optional: Provide additional information regarding your | |
| During Permit Year 2, the Town attempted to inspect all potential illicit discharges. Of the 25 known stormwater of which was flowing. The flowing outfall was sampled and/or to contain illicit discharges and will be resampled and/or. The remaining 3 outfalls could not be located, however, ware located and/or evaluated at the next upgradient structs. Note that no outfall screening was completed during Permit Perm | outfalls that were inspected, 22 were located and 1 of barely met the permit criteria for being highly likely further investigated for potential illicit discharges. will be inspected for dry weather flows as the outfalls are. This work is expected to occur during Year 4. |
| Catchment Investigations | |
| If conducted, please submit all data collected during this | |
| investigations. Also include the presence or absence of Sy | |
| No catchment investigations were conducThe catchment investigation data is attach | |
| The catchment investigation data is attach The catchment investigation data can be formula in the catchment investigation data is attachment. | |
| | |

| Below, report on the number of catchment investigations completed during this reporting period. |
|--|
| Number of catchment investigations completed this reporting period: 0 |
| Below, report on the percent of catchments investigated to date. |
| Percent of total catchments investigated: 0 |
| Optional: Provide any additional information for clarity regarding the catchment investigations below: |
| IDDE Duo guaga |
| 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: 0 |
| Number of illicit discharges removed: 0 |
| Estimated volume of sewage removed: 0 gallons/day |
| Below, report on the total number of illicit discharges identified and removed to date. At a minimum, report on the number of illicit discharges identified and removed since the effective date of the permit (July 1, 2018). |
| Total number of illicit discharges identified: 0 |
| Total number of illicit discharges removed: 0 |
| Optional: Provide any additional information for clarity regarding illicit discharges identified, removed, or planned to be removed below: |
| |
| |

Page 9

Employee Training

Town of Boxborough

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

An on-site IDDE training session was held on July 22, 2021 with applicable DPW staff. This session also provided training on Stormwater Pollution Prevention Plan (SWPPP) implementation and inspections at the

Page 10 Town of Boxborough

DPW Garage and Transfer Station facilities. Note that training was provided just outside the reporting period, however, has been applied to Year 3 requirements.

| | Construeti | on Site Storn | arrioton Dune | eff Control |
|----------|------------|---------------|---------------|-------------|
| VILLIVIA | COUSH HER | on one otorn | iwatei Niiit | nı vonutoi |

| 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: 0 |
| Number of inspections completed: 0 |
| Number of enforcement actions taken: 0 |
| 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 |
| As-built Drawings Below, report on the number of as-built drawings received during this reporting period. |
| Number of as-built drawings received: 0 |
| Optional: Enter any additional information relevant to the submission of as-built drawings: |
| |
| Street Design and Parking Lots Report |
| Describe the status of the street design and parking lots assessment due in year 4 of the permit term, including any planned or completed changes to local regulations and guidelines: |
| N/A, to be completed during Permit Year 4. |
| |
| |

Green Infrastructure Report

Describe the status of the green infrastructure report due in year 4 of the permit term, including the findings and progress towards making the practice allowable:

| N/A, to be completed during Permit Year 4. | | |
|--|--|--|
| | | |
| | | |

Retrofit Properties Inventory

Describe the status of the inventory, due in year 4 of the permit term, of permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas and report on any properties that have been modified or retrofitted:

The Town completed an inventory of its permittee-owned properties during this permit year. Facilities will be evaluated for potential BMP retrofit opportunities during Permit Year 4.

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: 516

Number of catch basins cleaned: 546

Total volume or mass of material removed from all catch basins: 70 cubic yards

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

Total number of catch basins: 550

If applicable:

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

The Town recently completed a substantial update to its Catch Basin Optimization Plan whereas all catch basins were visited in both 2019 and 2020 to determine sediment accumulation rates over the course of a year. The Town developed a list of priority catch basins and roadways that should be swept more frequently. The Town will look more closely at these areas in Permit Year 4 and beyond.

Street Sweeping

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

| Town of Boxboro | ugh | | | Page 12 |
|------------------|---|----------------------|------------------------------|---------------------------|
| • | Number of miles cleaned: 33 | | | |
| 0 | Volume of material removed: | 18 | cubic yards | |
| 0 | Weight of material removed: | | [Select Units] | |
| | | is for facilities th | aat require a SWPPP comp | leted during thi s |
| | Number of site inspections con | mpleted: 8 | | |
| Describe any o | corrective actions taken at a fac | ility with a SWP | PP: | |
| Note, inspection | ons were completed quarterly a | t the DPW Garaş | ge and Transfer Station fac | ilities. |
| | | | | |
| | Ada | litional Infor | mation | |
| Monitoring or | Study Results | munam muul | iiativii | |
| reporting perio | ny other stormwater or receiving od not otherwise mentioned abo eness must be attached. | | | _ |
| _ | Not applicable | | | |
| \circ | The results from additional rep | ports or studies a | re attached to the email sub | omission |
| 0 | The results from additional rep | ports or studies c | an be found at the following | ng website(s): |
| | | | | |
| | ring or studies were conducted eported to you, a brief description: | • | <u>c</u> | • |
| | | | | |
| | | | | |
| Additional In | <u>formation</u> | | | |
| _ | er any additional information re orting period. Include any BMF | - | | _ |
| | | | | |
| | | | | |
| | | | | |

| COVID-19 Impacts |
|--|
| Optional: If any of the above year 3 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: |
| |
| |
| |

Page 13

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 4 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree ⊠

- Develop a report assessing current street design and parking lot guidelines and other local requirements within the municipality that affect the creation of impervious cover
- Develop a report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist
- Identify a minimum of 5 permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious areas

Annual Requirements

Town of Boxborough

- 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)

| Provide any additional details on activities planned for permit year 4 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:

Carter TErENZINI

Title:

Town Administrato

Signature:

[Signatory may be a duty authorized representative]

Date: 09/21/2

Note: When prompted during signing, save the document under a new file name.

Annual Report Submission

Please submit the form electronically via email to both EPA and MassDEP by clicking on one of the links below or using the email addresses listed below. Please ensure that all required attachments are included in the email and not attached to this PDF.

EPA: stormwater.reports@epa.gov

MassDEP: laura.schifman@mass.gov

Paper Signature:

If you did not sign electronically above, you can print the signature page by clicking the button below.

Print Signature Page

Optional: If you did not sign electronically above, you may lock the form by clicking the "Lock Form" button below which will prompt you to save the locked version of the form. Save this locked version under a new file name.

Lock Form