# 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 Organization: Town of Mons	son
EPA NPDES Permit Number: MAR041015	
Primary MS4 Program Manager Contact Informat	ion
Name: Benjamin Murphy	Title: Highway Surveyor
Street Address Line 1: 110 Main Street	
Street Address Line 2: N/A	
City: Monson State: MA	Zip Code: 01057
Email: bmurphy@monson-ma.gov	Phone Number: (413) 267-4100
Stormwater Management Program (SWMP) Inform	nation
SWMP Location (web address): https://www.monsonmanagement-informa	
Date SWMP was Last Updated: Jun 25, 2019	
If the SWMP is not available on the web please provide	le the physical address:
Signed version of the SWMP is available at the Highw	vay Department at 198 Main Street, Monson, MA

#### 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 (Hy	<del></del>	_	Поврногаз
TIMBL (.)		,		
TMDL(s)			. 1D.4	
In State:	☐ Assabet River Phospho		eria and Pathogen	☐ Cape Cod Nitrogen
	☐ Charles River Watersh	ed Phosphorus	☐ Lake and Pond	Phosphorus
Out of State:	☐ Bacteria/Pathogens	☐ Metals		☐ Phosphorus
			Cl	ear Impairments and TMDLs
you have com unchecked. Ac	<b>ipleted that permit requirer</b> Idditional information will b	<b>nent fully.</b> If you ho	ive not completed a re	c <b>h box you are certifying that</b> equirement leave the box
Year 3 Requir	<u>rements</u>			
⊠ Inspec	ted and screened all outfalls	s/interconnections (	excluding Problem an	d Excluded outfalls)
$oxtimes rac{ ext{Update}}{ ext{weathe}}$	ed outfall/interconnection particle in the red outfall in the red out	riority ranking base	d on the information of	collected during the dry
	onstruction bylaw, ordinance ermit requirements	ee, or other regulator	ry mechanism was up	dated and adopted consistent
any additional impacts of Co		of the above year 3 the requirement that	requirements could recould not be complete	
the process o Monson is no	f updating their regulations, or planning to update their b	/standards to align v y-law but instead in	vith EPA's MS4 requintends to rely on Mass	

#### **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

Town of Monson Page 3 The SSO inventory has been updated, including the status of mitigation and corrective measures O This is not applicable because we do not have sanitary sewer • This is not applicable because we did not find any new SSOs O The updated SSO inventory is attached to the email submission O The updated SSO inventory can be found at the following website: Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters Provided training to employees involved in IDDE program within the reporting period All curbed roadways were swept at least once within the reporting period ✓ 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 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 ⊠ 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, provide 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: The Town of Monson does not own any treatment structures other than catch basins and therefore none were inspected. Nitrogen (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) that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release fertilizers Distributed an annual message in the summer (June/July) encouraging the proper management of pet

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)

#### Potential structural BMPs

Any structural BMPs listed in Table 3 of Attachment 1 to Appendix H already existing or installed in the regulated area by the permittee or its agents was tracked and the nitrogen removal by the BMP was

- ⊠ estimated consistent with Attachment 1 to Appendix H. The BMP type, total area treated by the BMP, the design storage volume of the BMP and the estimated nitrogen 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:

This box cannot be unchecked. The Town currently has no BMPS listed in Table 3.

*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:

As reported in last year's Annual Report, educational brochures were previously available at Town Hall and addressed stormwater management including appropriate use and disposal of grass clippings/leaf litter and fertilizers as well as pet waste management. However, due to COVID, the Town transitioned its educational materials to an on-line version. Educational material is posted on the Highway Department website for all of these topics (https://www.monson-ma.gov/highway-department), but due to the transition from paper to electronic flyers, this was not completed by June 30, 2020 but instead shortly thereafter. In addition, the Town now has staff who are able to distribute facebook messages on these topics in spring, summer, and fall to augment compliance with the requirement for timed messages, and has already released the fall 2021 message regarding proper disposal of leaf litter.

f-assessment:	

Optional: Use the box below to provide any additional information you would like to share as part 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?					

YesNo

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

The list of receiving waters was changed from 6 to 4, and number of outfalls decreased from 83 to 27. This information was updated since the NOI to only include regulated outfalls. The original outfall list in the NOI included culverts below roadways, discharges that do not reach waterbodies, and Mass DOT owned outfalls on State Routes 20 and 32. These items have now been removed from the Town's inventory to appropriately reflect Town-owned outfalls within the MS4 regulated area that discharge to receiving waters. It has been confirmed that there are no Town-owned outfalls that discharge to the Quaboag River in the regulated area. The June 2019 SWMP includes the updated outfall map. This change was also reported in last year's annual report.

## **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 <b>during this reporting period</b> : 4
Below, report on the educational messages completed <b>during this reporting period</b> . For the measurable goal(s) please describe the method/measures used to assess the overall effectiveness of the educational program.
BMP:[Message name here]
Message Description and Distribution Method:
Four additional catch basin grates were replaced with grates including a permanent message stating "Dump No Waste, Drains to Waterways". The replaced grates included two on Main Street, one on State Street, and one on Harrison Avenue.
Targeted Audience: Residents and Businesses, Institutions and Commercial Facilities
Responsible Department/Parties: Highway Department
Measurable Goal(s):
No dog waste, grass clippings, or yard waste was found during catchbasin cleaning that was implemented; therefore this message is effective at reducing residential pollutant contributions to stormwater discharges.
Message Date(s): Between July 2020 and June 2021; additional messages via grate replacements were accomplished in prior permit years.
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 Program (SWMP) <b>during this reporting period</b> :	in the development of the Stormwater Management
The SWMP is available for review online and at the High comments to Town officials regarding suggestions for add	• • • • • • • • • • • • • • • • • • • •
Was this opportunity different than what was proposed in	your NOI? Yes ○ No •
Describe any other public involvement or participation op The SWMP is available for review online and at the High comments to Town officials regarding suggestions for add	nway Department and the public is able to provide
MCM3: Illicit Discharge Detect <u>Sanitary Sewer Overflows (SSOs)</u>	ion and Elimination (IDDE)
Check off the box below if the statement is true.	
☐ This SSO section is NOT applicable becau	se we DO NOT have sanitary sewer
Below, report on the number of SSOs identified in the MS4	4 system and removed during this reporting period.
Number of SSOs identified: 0	
Number of SSOs removed: 0	
MCA System Manning	
MS4 System Mapping	
Optional: Provide additional status information regarding	your map:
	your map:
	your map:

### **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.

Town of Monson	rage o	
	No outfalls were inspected	
	The outfall screening data is attached to the email submission	
C	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: 26	
Below, report	on the percent of outfalls/interconnections screened to date.	
	Percent of outfalls screened: 100	
Optional: Pro	ovide additional information regarding your outfall/interconnection screening:	
Department med the	d 9 were unable to be accessed due to excessive vegetation overgrowth. The Highway nade a note to clear the area and remind the property owners to keep the outfall areas clear. It was not no flow was present at outfalls 8 and 9 due to lack of moisture on the ground in the area where located, therefore these outfalls are included in the total number screened.	
Catchment In	ıvestigations	
If conducted, p	please submit all data collected during this reporting period as part of the dry and wet weather	
	. Also include the presence or absence of System Vulnerability Factors for each catchment.	
•	No catchment investigations were conducted	
C	The catchment investigation data is attached to the email submission	
C	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: 0	
Below, report	on the percent of catchments investigated to date.	
	Percent of total catchments investigated: 0	
Optional: Pro	ovide any additional information for clarity regarding the catchment investigations below:	
	vestigations are proposed for future years and will be completed by Year 10 of the 2016 MS4 mpliance with Section 2.3.4.8 of the permit.	
IDDE Progre		
	arges were found, please submit a document describing work conducted over this reporting	
· ·	umulative to date, including location source; description of the discharge; method of discovery;	
•	ery; and date of elimination, mitigation, or enforcement OR planned corrective measures and	
schedule of re		
	No illicit discharges were found  The illicit discharge removed report is attached to the email submission	
(•	The illicit discharge removal report is attached to the email submission	

O The illicit discharge removal report can be found at the following website:

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Below, report on the number of illicit discharges identified and renemoved during this reporting period.	moved, along with the volume of sewage
Number of illicit discharges identified: 1	
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 the number of illicit discharges identified and removed since the eg	•
Total number of illicit discharges identified: 1	
Total number of illicit discharges removed: 0	
As noted in the attached dry weather inspection report, a relatively observed upstream of outfall 6 in a connecting manhole as well as evidence of sewage in samples for either location, but did detect the samples for either location and the samples for either location.	at outfall 21. Sampling results indicated no he presence of surfactants. Subsequently, it
was determined that a leaky water pipe was draining to outfall 21, been prioritized for follow-up catchment investigation and mapping	and this has been repaired. Outfall 6 has
	-6-
Employee Training  Describe the frequency and type of employee training conducted or	during this reporting period:
The annual employee training was conducted in the end of Decemarea maintenance, protocols for clean up of spills, sand and salt clear department lot, proper storage of sand and salt, highway garage flomaintenance of the floor drain and procedure of discharge being training to the same and salt of the s	aber 2020. We continued to review gas pumpean up and maintenance in the highway oor maintenance, and review of the
MCM4: Construction Site Stormwa  Below, report on the construction site plan reviews, inspections, an this reporting period.  Number of site plan reviews completed: 0  Number of inspections completed: 0	
Number of enforcement actions taken: 0	

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Optional: Enter any additional information relevant to construction site plan reviews, inspection enforcement actions:	is, and
MCM5: Post-Construction Stormwater Management in New Development Redevelopment	ent and
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 to any planned or completed changes to local regulations and guidelines:	erm, including
The City recently engaged a consultant to complete this analysis and plans to complete the Street Parking Lot report on or before June 30, 2022 and will report the status in next year's annual report.	•
Green Infrastructure Report	
Describe the status of the green infrastructure report due in year 4 of the permit term, including and progress towards making the practice allowable:	the findings
The City recently engaged a consultant to complete this analysis and plans to complete the Gree Infrastructure report on or before June 30, 2022 and will report the status in next year's annual respectively.	

## **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 City recently engaged a consultant to complete this analysis and plans to complete the potential retrofit list on or before June 30, 2022 and will report the status in next year's annual report.

MCM6: Good	d Housekeeping	
Catch Basin Cleaning		
Below, report on the number of catch basins inspected removed from the catch basins during this reporting p	9	volume of material
Number of catch basins inspected: 90		
Number of catch basins cleaned: 90		
Total volume or mass of material remo	ved from all catch basins: 22	cubic yards
Below, report on the total number of catch basins in th	e MS4 system.	
Total number of catch basins: 300		
If applicable:		
Report on the actions taken if a catch basin sump is m inspections/cleaning events:	ore than 50% full during two cons	secutive routine
Street Sweeping		
Report on street sweeping completed during this repor	rting period using one of the three	e metrics below.
<ul><li>Number of miles cleaned: 8</li></ul>		
○ Volume of material removed:	cubic yards	
○ Weight of material removed:	[Select Units]	
	L	

#### **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	d: 4
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Town of Monson Page 12 Describe any corrective actions taken at a facility with a 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 O The results from additional reports or studies are attached to the email submission O 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 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:

The Town transitioned its public education efforts from paper flyers that could be picked up in-person to online postings due to COVID. This transition involved internal Town coordination for staff to implement new technology approaches, and as a result was not completed by June 30, 2021, but has since been completed.

### **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**

- 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)

vide any additiona	Piana		• •	

Town of Monson

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## 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:	Signatory may be a duly authorized	Date:	
-	epresentative]		
Note: When prompted during signing, save the document under a new file name.			
Annual Report	Submission		
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.			

MassDEP: laura.schifman@mass.gov

#### **Paper Signature:**

EPA: stormwater.reports@epa.gov

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

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.