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 Organ	ization: Town of Tops	field
EPA NPDES Permit Number:	MAR041227	
Primary MS4 Program Mana	ger Contact Informat	ion
Name: David Bond		Title: Stormwater Coordinator
Street Address Line 1: Town Ha	all	
Street Address Line 2: 8 West C	Common Street	
City: Topsfield	State: MA	Zip Code: 01983
Email: topsfield505@gmail.com	n.	Phone Number: (978) 887-1504
Stormwater Management Pro	http://topsfield-ma.go	mation ov/sites/g/files/vyhlif5086/f/uploads/ _management_plan_jsm_2019.pdf
Date SWMP was Last Updated:	Jan 1, 2019	
If the SWMP is not available or	the web please provide	de the physical address:
If the SWMP is not available or	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

mere. maps.mr	run.cpa.govimauregion	impaired vaters at	ia sosa iisis siaic	
Impairment(<u>s)</u>			
		☐ Chloride	☐ Nitrogen	☐ Phosphorus
	☐ Solids/ Oil/ Grease (H	Hydrocarbons)/ Metal	s	
TMDL(s)				
In State:	Assabet River Phosph	norus 🔲 Bacte	eria and Pathogen	☐ Cape Cod Nitrogen
	☐ Charles River Waters	hed Phosphorus	☐ Lake and Po	nd Phosphorus
Out of State:	☐ Bacteria/Pathogens	☐ Metals	☐ Nitrogen	☐ Phosphorus
			[3	Clear Impairments and TMDLs
you have com		ement fully. If you ha	ve not completed a	each box you are certifying that requirement leave the box
Year 3 Requir	rements			
☐ Inspect	ted and screened all outfal	ls/interconnections (e	excluding Problem	and Excluded outfalls)
⊠ Update weather	ed outfall/interconnection j er inspections as necessary	priority ranking based	d on the informatio	n collected during the dry
	onstruction bylaw, ordinan ermit requirements	ice, or other regulator	y mechanism was	updated and adopted consistent
any additiona impacts of Co attempt to co	l information, and/or if an OVID-19, please identify t mplete the requirement, ar	y of the above year 3 the requirement that could reason the requirer	requirements could could not be complement could not be could	ompleted below:
have never be the UA zone. no mapped or	een mapped or the surveys 66 Outlets were inspecte	were never logged. d in 2021. By lookin may be another 14 ou	Of the 77 mapped g at areas in Town tlets to be mapped	a. There are some outfalls that outlets in Town, 11 are not in were there are catchbasins and and inspected. So, we did
Annual Requi	rements			
	ed an opportunity for publ tate Public Notice requirer		view and implemen	tation of SWMP and complied
☐ Kept re	ecords relating to the perm	nit available for 5 year	rs and made availa	ble to the public
⊠ The SS implen	SO inventory has been upd nented	lated, including the st	atus of mitigation a	and corrective measures

• This is not applicable because we do not have sanitary sewer C This is not applicable because we did not find any new SSOs C The updated SSO inventory is attached to the email submission C 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 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, 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: 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)

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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:

Visited stables within impaired water body watershed and discussed proper storage of horse manure to minimize leaching into Howlett Brook.

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

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Part III: Receiving Waters/Impaired Waters/TMDL

Have you mad submitted?	le any changes to your lists of receiving waters, outfalls, or impairments since the NOI was
\sim	Yes
•	No
If yes, describ	be below, including any relevant impairments or TMDLs:

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: 1				
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:[Message name here]				
Message Description and Distribution Method:				
Flyer for dog owners to pick up after their dog.				
Targeted Audience: Dog owners				
Responsible Department/Parties: Town Manager/Mayor's Office				
Measurable Goal(s):				
Message Date(s): February 17, 2021 Message Completed for: Appendix F Requirements □ Appendix H Requirements ▷				
Was this message different than what was proposed in your NOI? Yes C No •				
If yes, describe why the change was made:				
Add an Educational Message				
MCM2: Public Participation				
Describe the opportunity provided for public involvement in the development of the Stormwater Management Program (SWMP) during this reporting period:				
None				

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Was this oppor	tunity different than what was proposed in your NOI? Yes C No C
Describe any o	other public involvement or participation opportunities conducted during this reporting per
	MCM3: Illicit Discharge Detection and Elimination (IDDE)
Sanitary Sewe	er Overflows (SSOs)
	ox below if the statement is true.
\boxtimes	This SSO section is NOT applicable because we DO NOT have sanitary sewer
Below, report o	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 N	Mapping
Optional: Prov	vide additional status information regarding your map:
Topsfield adde	ed database themes to the GIS layers tracking outfall inspections and catchbasin cleaning.
Screening of (Outfalls/Interconnections
results should sampling, prec	lease submit any outfall monitoring results from this reporting period. Outfall monitoring include the date, outfall/interconnection identifier, location, weather conditions at time of ipitation in previous 48 hours, field screening parameter results, and results from all analys
Please also inc	clude the updated inventory and ranking of outfalls/interconnections based on monitoring res
	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:

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Below, report on the	percent of	foutfalls/interconnections screened to date.
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	1	11.00
Percent of outfalls screened:	100	

Optional: Provide additional information regarding your outfall/interconnection screening:

Topsfield did inspect and screen all mapped outfalls in the EPA Urbanized Area. There are some outfalls that have never been mapped or the surveys were never logged. Of the 77 mapped outlets in Town, 11 are not in the UA zone. 66 Outlets were inspected in 2021. By looking at areas in Town were there are catchbasins and no mapped outlet, it is estimated there may be another 14 outlets to be mapped and inspected. So, we did actually inspect all outlets excluding problem or excluded outfalls.

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

Not sure what the difference is between a catchment, the area serviced by an outlet or a watershed.

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
- C The illicit discharge removal report is attached to the email submission
- C The illicit discharge removal report can be found at the following website:

At this point in time, it is premature to confirm that a private pipe entering the drainage system is discharging contaminated waters to the stormwater system. More investigation is required assess the quality of the water that is coming from the monitored catchments. There were 8 pipes discovered in the 166 catchbasins inspected this past year. 2 of those contribute water to an outfall that has elevated nutrient loading.

Below, report on the number of illicit discharges ident removed during this reporting period.	ified and rem	oved, along with the volume of sewage
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 the number of illicit discharges identified and removed. Total number of illicit discharges ident. Total number of illicit discharges removed.	ified: 0	. [1] - [1]
Optional: Provide any additional information for clari planned to be removed below:	ty regarding i	illicit discharges identified, removed, or
The current DPW staff is aware of and is monitoring a system. These attachments are determined to be from will continue to monitor and they have been trained in	groundwater	infiltration in and around buildings. Staff
Employee Training Describe the frequency and type of employee training Information was distributed to DPW staff on the indic	~~~	
MCM4: Construction Site Below, report on the construction site plan reviews, in this reporting period. Number of site plan reviews completed: Number of inspections completed: 18 Number of enforcement actions taken: Optional: Enter any additional information relevant to enforcement actions:	spections, and	d enforcement actions completed during

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1	
MCM5: Post-Construction Stormwater Management in Redevelopment	New Development and
As-built Drawings	
Below, report on the number of as-built drawings received during this repor	ting period.
Number of as-built drawings received: 3	
Optional: Enter any additional information relevant to the submission of as-	built drawings:
Street Design and Parking Lots Report	
Describe the status of the street design and parking lots assessment due in your any planned or completed changes to local regulations and guidelines:	ear 4 of the permit term, including
Nothing done other than a brief discussion with staff that this is something t FY2022.	hey need to think about in
Green Infrastructure Report	
Describe the status of the green infrastructure report due in year 4 of the per and progress towards making the practice allowable:	mit term, including the findings
Retrofit Properties Inventory	
Describe the status of the inventory, due in year 4 of the permit term, of perbe modified or retrofitted with BMPs to mitigate impervious areas and report modified or retrofitted:	

Catch Basin Cleaning

Below, report on the number of catch basins in removed from the catch basins during this rep		leaned, along with the tota	il volume of material
Number of catch basins inspec	ted: 166	7	
Number of catch basins cleaned	d: 166		
Total volume or mass of mater	ial removed fro	om all catch basins: 149	tons
Below, report on the total number of catch bas	sins in the MS4	system.	
Total number of catch basins:	1,145		
f applicable:			
Report on the actions taken if a catch basin su inspections/cleaning events:	mp is more tha	n 50% full during two cor	secutive routine
Report on street sweeping completed during the Number of miles cleaned: 15			ee metrics below.
Report on street sweeping completed during the Number of miles cleaned: 15 • Volume of material removed:		cubic yards	ee metrics below.
Report on street sweeping completed during the Number of miles cleaned: 15			ee metrics below.

Additional Information

M	onit	aring	OF	Ctud	w D	esults
IVI	uniu	OLIDS	Or	Stuu	VI	esuits

reporting perio	ny other stormwater or receiving water quality monitoring or studies conducted auring the od not otherwise mentioned above, where the data is being used to inform permit compliance or
	eness must be attached.
	Not applicable
	The results from additional reports or studies are attached to the email submission
ر	The results from additional reports or studies can be found at the following website(s):
	ring or studies were conducted on your behalf or if monitoring or studies conducted by other eported to you, a brief description of the type of information gathered or received shall be w:
•	g in Pye Brook/Howlett Brook watershed. These are both contributiing water to Town well conducted by the Water Dept and the Stormwater coordinator. The results of the latter are
	formation er any additional information relevant to your stormwater management program implementation orting period. Include any BMP modifications made by the MS4 if not already discussed above:
COVID-19 In	<u>ipacts</u>
please identify	ny of the above year 3 requirements could not be completed due to the impacts of COVID-19, or the requirement that could not be completed, any actions taken to attempt to complete the and reason the requirement could not be completed below:
None	
Please confirm requirements is	anned for Next Reporting Period that your SWMP has been, or will be, updated to comply with all applicable permit including but not limited to the year 4 requirements summarized below. (Note: impaired waters quirements are not listed below) Yes, I agree

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- 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)

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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:	David Bond	Title: Stormwater Coordinator
Signature	: Danl Mr. Buil	Date: 09/15/21
	[Signatory may be a duly authorized representative]	