Year 2 Annual Report

Massachusetts Small MS4 General Permit Reporting Period: July 1, 2019-June 30, 2020

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, 2019 and June 30, 2020 unless otherwise requested.

Part I: Contact Information

Name	of Municipality or Organi	zation: City of Somer	ville			
EPA N	IPDES Permit Number: M	AR041082				
Prima	ry MS4 Program Manag	er Contact Informat	ion			
Name:	Richard E. Raiche		Title:	Director of Infi	rastructure & As	set Management
Street .	Address Line 1: 1 Franey	Road				
Street .	Address Line 2:					
City:	Somerville	State: MA	Zip Co	ode: 02145		
Email:	rraiche@somervillema.go	ov	Phor	ne Number: (617	7) 625-6600	
Storm	water Management Prog	ram (SWMP) Infori	nation			
SWMI	P Location (web address):	www.somervillema.g	ov/storn	nwater		
Date S	WMP was Last Updated:	June 30, 2020				
If the S	SWMP is not available on	the web please provid	le the ph	ysical 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(<u>s)</u>			
	⊠ Bacteria/Pathogens	☐ Chloride	□ Nitrogen	
	⊠ Solids/ Oil/ Grease (Hy	drocarbons)/ Metal	S	
TMDL(s)				
In State:	☐ Assabet River Phospho	orus 🗌 Bacte	eria and Pathogen	☐ Cape Cod Nitrogen
	☐ Charles River Watersho	ed Phosphorus	☐ Lake and Pond	l Phosphorus
Out of State:	☐ Bacteria/Pathogens	☐ Metals	□ Nitrogen	☐ Phosphorus
			C	lear Impairments and TMDLs
	pleted that permit requirend ditional information will be rements		•	equirement leave the box
☐ Compl	eted Phase I of system map	ping		
⊠ Develo	oped a written catchment inv	vestigation procedu	re and added the proc	cedure to the SWMP
	oped written procedures to roon and maintenance of com			gs and ensure the long term e procedures to the SWMP
⊠ Enclos	ed or covered storage piles	of salt or piles conta	aining salt used for d	eicing or other purposes
1 1	oped written operations and es, and vehicles and equipm	-	-	
1 1	oped an inventory of all perr lgs and facilities, and vehicl		_	
☐ Compl	eted a written program for I	MS4 infrastructure i	maintenance to reduc	e the discharge of pollutants
operate	oped written SWPPPs, inclued facilities: maintenance gases where pollutants are expo	rages, public works		ng permittee owned or ons, and other waste handling

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 year 2 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:

Phase 1 system mapping had been completed for original portions of the system; however, the City has now formally accepted additional infrastructure constructed by a private developer. All aspects are included except for the stormwater treatment structures in Assembly Square recently turned over to the City by the Developer.

We are collecting as-builts for those structures and will be finishing the map this Fall.

The City has been delayed due to COVID-19 on completing the written O&M procedures for parks and open space, buildings and facilities, and vehicles and equipment. Many DPW staff had their responsibilities shifted to support Incident Command or to focus on basic necessary maintenance and COVID-19 support roles. City buildings were closed in mid-March and remain closed. The City is now working to complete these written procedures.

The inventory is also underway but delayed due to COVID-19 response needs from DPW staff. The City is now working to finalize this inventory.

As part of the City's 2019 Administrative Order, we have completed the CMOM Self Assessment. We are working on the Program now and have plans underway on how to reduce pollutants discharging to receiving waters, including maintenance of MS4 infrastructure.

All centralized facilities are in the CSO areas and outside of the MS4 areas. The City is working to evaluate if any operations from recreational facilities in MS4 areas need to be modified to reduce pollutants to receiving water bodies. These activities have been delayed due to COVID-19 and the shifting to DPW staff focus.

Annual 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					
\boxtimes	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:					
\boxtimes	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					
\boxtimes	All curbed roadways were swept at least once within the reporting period					
	Updated outfall and interconnection inventory and priority ranking as needed					

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 IDDE program training was delayed due to COVID-19. City buildings were closed in mid-March and no gatherings of people greater than 10 have been allowed in the City. Since then, we did conduct trainings with social distancing practices and split them over two days to keep the numbers under 10 people (conducted on 9/24/20 and planned for 10/1/20).

Additionally, as part of the 2019 Administrative Order, the City is completing the IDDE Plan which will include the updated outfall and interconnection inventory and priority ranking. This will be completed by December 2020.

Bacteria/ Pathogens (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable) <u>Annual Requirements</u>

Annual Requirements
Public Education and Outreach*
Annual message was distributed encouraging the proper management of pet waste, including noting are 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 (so Appendix H and F for more information)
Optional: If you would like to describe progress made on any incomplete requirements listed above or providany additional details, please use the box below:
The City is working to distribute information at the time of pet licensing to supply dog owners with educational materials regarding the proper disposal of pet waste.
The City does not have any residences with septic systems so will not be distributing information regarding maintenance of septic systems.
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 disposa of leaf litter
* Dublic advection maggacas and be combined with other public advection requirements as applicable (s
* Public education messages can be combined with other public education requirements as applicable (so Appendix H and F for more information)

Potential structural BMPs

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Any structural BMPs already existing or installed in the regulated area by the permittee or its was tracked and the phosphorus removal by the BMP was estimated consistent with Attachme Appendix F. The BMP type, total area treated by the BMP, the design storage volume of the Ethe estimated phosphorus removed in mass per year by the BMP were documented.	ent 3 to
 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 any additional details, please use the box below:	or provide
The City is working to estimate the phosphorous removed by the structural BMPs recently turned over City in Assembly Square by the developer.	er to the
Solids, Oil and Grease (Hydrocarbons), or Metals Annual Requirements	
Good Housekeeping and Pollution Prevention for Permittee Owned Operations Increased street sweeping frequency of all municipal owned streets and parking lots to a schedule targets areas with potential for high pollutant loads	lule that
Prioritized inspection and maintenance for catch basins to ensure that no sump shall be more to percent full; Cleaned catch basins more frequently if inspection and maintenance activities increases excessive sediment or debris loadings	
<i>Optional:</i> If you would like to describe progress made on any incomplete requirements listed above any additional details, please use the box below:	or provide
The City is working to distribute the educational materials developed by MyWRA in a more timely in the City is in the process of hiring a Stormwater Program Manager, and administration of this task a will be tracked and executed more precisely by this hire.	
Optional: Use the box below to provide any additional information you would like to share as part o self-assessment:	f your

Part III: Receiving Waters/Impaired Waters/TMDL

наve you submitted	?
	○ Yes
	No
If yes, de	scribe 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: Massage Description and Distribution Methods
Message Description and Distribution Method: The City posted a message on Twitter regarding the proper clean up of pet waste.
Targeted Audience: Residents
Responsible Department/Parties: Engineering
Measurable Goal(s):
The message had 1 retweet and 10 likes.
Message Date(s): 6/12/20
Message Completed for: Appendix F Requirements ☐ Appendix H Requirements ☐
Was this message different than what was proposed in your NOI? Yes ○ No ●
If yes, describe why the change was made:
Add an Educational Message

MCM2: Public Participation

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

The draft Stormwater Management Plan was available and comments accepted in June 2019.

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Was this opportunity different than what was proposed in your NOI? Yes ○ No ●	
Describe any other public involvement or participation opportunities conducted during this rep	arting period:
The Conservation Commission, MyRWA, and the City's T&I department hosted a clean up at D October 2019.	
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 repo	orting period.
Number of SSOs identified: 0	
Number of SSOs removed: 0	
MS4 System Mapping	
Below, check all that apply.	
The following elements of the Phase I map have been completed:	
○ Outfalls and receiving waters	
☐ Municipally-owned stormwater treatment structures	
Optional: Describe any additional progress you made on your map during this reporting period additional status information regarding your map:	or provide
Phase 1 system mapping had been completed for original portions of the system; however, the C formally accepted additional infrastructure constructed by a private developer. All aspects are in for the stormwater treatment structures in Assembly Square recently turned over to the City by	cluded except

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.

We are collecting as-builts for those structures and will be finishing the map this Fall.

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0	The outfall screening data is attached to the email submission
	The outfall screening data can be found at the following website:
	www.somervillema.gov/stormwater
Below, report	on the number of outfalls/interconnections screened during this reporting period.
	Number of outfalls screened: 0
Catchment In	vestigations
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.
	The catchment investigation data is attached to the email submission The catchment investigation data can be found at the following website:
•	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	vide any additional information for clarity regarding the catchment investigations below:
IDDE Progres	
O	rges were found, please submit a document describing work conducted over this reporting
•	mulative 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 rei	The illicit discharge removal report is attached to the email submission
	The illicit discharge removal report can be found at the following website:
	The infere disenting removal report can be round at the ronowing website.
_	on the number of illicit discharges identified and removed, along with the volume of sewage ag 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).

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Total number of illicit discharges identified:	0	
Total number of illicit discharges removed:	0	
Optional: Provide any additional information for clarity reg planned to be removed below:	garding illicit discharges identified, removed, or	•
Employee Training		
Describe the frequency and type of employee training cond	ucted during the reporting period:	
The IDDE program training was delayed due to COVID-19 gatherings of people greater than 10 have been allowed in the social distancing practices and split them over two days to 19/24/20 and planned for 10/1/20).	he City. Since then, we did conduct trainings wi	ith
MCM4: Construction Site Storage Selow, report on the construction site plan reviews, inspection in the selection of the selection is reporting period.		3
Number of site plan reviews completed: 1		
Number of inspections completed: 0		
Number of enforcement actions taken: 0		
Optional: Enter any additional information relevant to consenforcement actions:	struction site plan reviews, inspections, and	
The only site larger than 1 acre in an MS4 area of the City is (XMBLY in Assembly Square).	in this reporting period was 290 Revolution Driv	ve

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

Ordinance or Regulatory Mechanism

Below, select the option that describes your ordinance or regulatory mechanism progress.

• Bylaw, ordinance, or regulations are updated and adopted consistent with permit requirements

- O Bylaw, ordinance, or regulations are updated consistent with permit requirements but are not yet adopted
- O Bylaw, ordinance, or regulations have not been updated or adopted

As-built Drawings

Describe the measures the MS4 has utilized to require the submission of as-built drawings and ensure long term operation and maintenance of completed construction sites:

This Spring, we included requirements in our Engineering Ordinance that requires submission of as-built drawings and requires the long-term operation and maintenance of completed construction sites.

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:

As part of Somervision 2020 and Somervision 2040, the City is committed to improving transportation experiences for the most vulnerable users: pedestrians, transit riders, and bicyclists. Low impact development will be explored and recommendations and scheduling of projects will be included in this report due in 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:

Last year, the City created a Green Stormwater Infrastructure Siting and Planning document. The City will develop a report assessing any City regulations that may prohibit the use of green roofs, infiltration practices, and water harvesting devices, and if such regulations are found to exist, the City will determine what hinders the use of these practices and what changes need to made to allow them.

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:

As part of an MVP grant, the City identified more than 4 locations suitable for BMPs in MS4 areas of the City. None of these locations have yet been modified or retrofitted.

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.

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Number of catch basins inspected: 14			
Number of catch basins cleaned: 14			
Total volume or mass of material remo	ved from all cate	ch basins: 0	[Select Units]
Below, report on the total number of catch basins in the	ne MS4 system.		
Total number of catch basins: 326			
If applicable:			
Report on the actions taken if a catch basin sump is m inspections/cleaning events:	ore than 50% fu	ll during two consec	cutive routine
Street Sweeping			
Report on street sweeping completed during this report	rting period usir	ig one of the three n	netrics below.
• Number of miles cleaned: 12.5			
O Volume of material removed:	[Select	Units]	
○ Weight of material removed:	[Select	Units]	
O&M Procedures and Inventory of Permittee-Own Below, check all that apply. The following permittee-owned properties have been i Parks and open spaces Buildings and facilities Vehicles and equipment	_		
The following O&M procedures for permittee-owned	properties have l	been completed:	
Parks and open spacesBuildings and facilities			
☐ Vehicles and equipment			
Stormwater Pollution Prevention Plan (SWPPP)			
Below, report on the number of site inspections for face reporting period.	ilities that requi	re a SWPPP comple	eted during this
Number of site inspections completed:	0		

Describe any	corrective actions taken at a facility with a SWPPP:
	Additional Information
_	r Study Results
reporting perio	ny other stormwater or receiving water quality monitoring or studies conducted during 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
	The results from additional reports or studies can be found at the following website(s):
	www.somervillema.gov/stormwater
	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:
Additional In	<u>formation</u>
	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:
erosion and se	ng, the City made great strides by developing and adopting the ordinances related to IDDE, ediment control, and development and redevelopment. We also completed a developer guidance a guides developers through our various permitting requirements.
COVID-19 In	<u>ıpacts</u>

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Optional: If any of the above year 2 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:

We've outlined specific impacts of COVID-19 on our ability to meet the various permit requirements above. In general, the City closed its office March 16th, 202, and remains closed. In addition, in Somerville, restrictions remain in place for gatherings greater than 10 people. This has made meetings and trainings of

DPW and Sewer Department field staff difficult. In addition, these staff have had to react to the basic needs of the City and emergency response as well.

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

Yes, I agree |

- Inspect all outfalls/ interconnections (excluding Problem and Excluded outfalls) for the presence of dry weather flow
- Complete follow-up ranking as dry weather screening becomes available

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 uncurbed streets at least annually
- Continue investigations of catchments associated with Problem Outfalls
- 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

Provide any additional details on activities planned for permit year 3 below:

We are currently in the process of hiring a Stormwater Program Manager, a new position created during a time of significant budget cutbacks for the City due to COVID-19. We've seen great support from City elected officials to prioritize this important work for the City and the region. We look forward to this hire managing many of the Year 3 permit tasks and items that are ongoing for the City.

Part V: Certification of Small MS4 Annual Report 2020

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:	Richard E. Raiche	Title:	Director of Infrastructure & Asset N
	Signatory may be a duly authorized representative]	Date:	09/28/20

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