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 Organiza	tion: City of Salem					
EPA N	PDES Permit Number: MA	R041219					
Prima	ry MS4 Program Manager	· Contact Informat	ion				
Name:	nme: David Knowlton, P.E.		Title:	DPS Directo	or/ City E	ngineer	
Street	Address Line 1: 98 Washing	gton Street					
Street .	Address Line 2: 2nd Floor						
City:	Salem	State: MA	Zip Co	ode: 01970			
Email:	DKnowlton@salem.com		Phor	e Number: (9	978) 619-	-5673	
Storm	water Management Progra	am (SWMP) Inform	nation				
SWMI	Cocation (web address): https://doi.org/10.1003/10.1003	ttps://www.salem.co	m/city-e	ngineer/page	es/stormw	vater	
Date S	WMP was Last Updated: 5/	/1/2019					
If the S	SWMP is not available on th	ne web please provid	le the ph	ysical addres	s:		

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

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Impairment((<u>s)</u>			
	☐ Bacteria/Pathogens	☐ Chloride	☐ Nitrogen	
	☐ Solids/ Oil/ Grease (H	ydrocarbons)/ Metal	s	
TMDL(s)				
In State:	☐ Assabet River Phospho	orus 🗵 Bacte	eria and Pathogen	☐ Cape Cod Nitrogen
	☐ Charles River Watersh	ed Phosphorus	Lake and Pond	Phosphorus
Out of State:	☐ Bacteria/Pathogens	☐ Metals	☐ Nitrogen	☐ Phosphorus
			Cl	ear Impairments and TMDLs
you have con	ipleted that permit require dditional information will b	nent fully. If you ha	ve not completed a re	ch box you are certifying that equirement leave the box
•		<i>'</i> :	1 1' D 11	15 1 1 1 (011)
-	ted and screened all outfalls	•	•	
⊠ Update weather	ed outfall/interconnection parties inspections as necessary	riority ranking based	d on the information of	collected during the dry
	onstruction bylaw, ordinand ermit requirements	e, or other regulator	ry mechanism was up	dated and adopted consistent
any additional impacts of Co		of the above year 3 the requirement that of	requirements could recould not be complete	
Due to Covid	1-19, the requirement for all erway to complete this requirement.	outfall sampling an	d catchment investiga	ations was not completed.
Annual Requi	irements			
\bowtie Provid with S	led an opportunity for public tate Public Notice requirem	c participation in revents	view and implementa	tion of SWMP and complied
⊠ Kept r	ecords relating to the permi	t available for 5 yea	rs and made available	e to the public
IXI	SO inventory has been upda mented	ted, including the st	atus of mitigation and	d corrective measures

This is not applicable because we do not have sanitary sewerThis is not applicable because we did not find any new SSOs

City of Salem	Page 3
	The updated SSO inventory is attached to the email submission
	The updated SSO inventory can be found at the following website:
Properly receiving	stored and disposed of catch basin cleanings and street sweepings so they did not discharge to waters
⊠ Provided	training to employees involved in IDDE program within the reporting period
	d roadways were swept at least once within the reporting period
□ Updated s	system map due in year 2 as necessary
	all road salt storage piles or facilities and implemented winter road maintenance procedures to the use of road salt
Implemen transfer st	atted SWPPPs for all permittee owned or operated maintenance garages, public works yards, rations, and other waste handling facilities
□ Updated i	nventory of all permittee owned facilities as necessary
⊠ O&M pro	grams for all permittee owned facilities have been completed and updated as necessary
\bowtie Implemer programs	ated all maintenance procedures for permittee owned facilities in accordance with O&M
	ated program for MS4 infrastructure maintenance to reduce the discharge of pollutants

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:

☐ Inspected all permittee owned treatment structures (excluding catch basins)

Due to COVIID-19, there was a delay in the procurement and installation of the City salt shed but work is underway to have the structure completed in the next few months.

Bacteria/ **Pathogens** (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)
Annual Requirements

Public Education and Outreach*

- Annual message was distributed encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
- Permittee or its agents disseminated educational material to dog owners at the time of issuance or renewal of dog license, or other appropriate time
- Provided information to owners of septic systems about proper maintenance in any catchment that discharges to a water body impaired for bacteria
- * Public education messages can be combined with other public education requirements as applicable (see Appendix H and F for more information)

Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:
Phosphorus (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)
Annual Requirements
Public Education and Outreach* Distributed an annual message in the spring (April/May) encouraging the proper use and disposal of grass clippings and encouraging the proper use of slow-release and phosphorus-free fertilizers Distributed an annual message in the summer (June/July) encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
Distributed an annual message in the fall (August/September/October) encouraging the proper disposal of leaf litter
* Public education messages can be combined with other public education requirements as applicable (see Appendix H and F for more information)
Good Housekeeping and Pollution Prevention for Permittee Owned Operations
Increased street sweeping frequency of all municipal owned streets and parking lots subject to Permit part 2.3.7.a.iii.(c) to a minimum of two times per year (spring and fall)
Potential structural BMPs
Any structural BMPs already existing or installed in the regulated area by the permittee or its agents was tracked and the phosphorus removal by the BMP was estimated consistent with Attachment 3 to Appendix F. The BMP type, total area treated by the BMP, the design storage volume of the BMP and the estimated phosphorus removed in mass per year by the BMP were documented.
○ The BMP information is attached to the email submission
○ The BMP information can be found at the following website:
Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:
Optional: Use the box below to provide any additional information you would like to share as part of your self-assessment:

City of Salem	Page 5

Part III: Receiving Waters/Impaired Waters/TMDL

Have you : submitted:	made any changes to your lists of receiving waters, outfalls, or impairments since the NOI was?
	○ Yes
	No
If yes, des	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: 28
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 - What Not to Flush
Message Description and Distribution Method:
An instructional video that broadly describes the different water systems at work within our watersheds and the importance of protecting all of them. After going into more detail about the wastewater system, it takes viewers through an experiment that illustrates the importance of keeping wipes out of the wastewater stream. Created by the Greenscapes Coalition in place of the Keeping Water Clean in-person program. The video was posted on Vimeo and Salem Sound Coastwatch Facebook, is available on the Greenscapes website and was shared with municipal staff in the Greenscapes newsletter.
Targeted Audience: Residents
Responsible Department/Parties: Greenscapes Coalition, partner organizations and municipal staff. Measurable Goal(s):
200 views on Vimeo, 1343 people reached on Facebook
Message Date(s): Posted by Greenscapes on April 21, 2020. Shared to municipal staff August 25th, 2020.
Message Completed for: Appendix F Requirements Appendix H Requirements
Was this message different than what was proposed in your NOI? Yes No
If yes, describe why the change was made:
The Keeping Water Clean program is normally conducted in person at individual schools.
BMP:Video - The World Beneath Our Feet

Message Description and Distribution Method:

An instructional video that takes the audience through an experiment that explores how plants (grass seed) grows with different types of fertilizer; chemical fertilizer versus all natural. Created by the Greenscapes Coalition as a supplement to other Keeping Water Clean related videos. This video was posted on Vimeo Greenscapes and Salem Sound Coastwatch Facebook, it is available on the Greenscapes website and was shared with municipal staff in the Greenscapes newsletter.

Targeted Audience:	Residents

Responsible Department/Parties: Greenscapes Coalition and Municipal Staff
Measurable Goal(s):
76 views on Vimeo, 200 people reached on Facebook
Message Date(s): Posted by Greenscapes on May 26, 2020. Shared to municipal staff August 25th, 2020.
Message Completed for: Appendix F Requirements ☐ Appendix H Requirements ☐
Was this message different than what was proposed in your NOI? Yes ● No ○
If yes, describe why the change was made:
The Keeping Water Clean program is normally conducted in person at individual schools.
BMP: Social Media - Septic Smart Post Message Description and Distribution Method:
Distribution of EPA's "Do Your Part, Be Septic Smart" Infographic that includes tips for homeowners about proper septic maintenance. Graphic was posted on Greenscapes Facebook, is available on the Greenscapes website and was shared with municipal staff in the Greenscapes newsletter.
Targeted Audience: Residents
Responsible Department/Parties: Greenscapes Coalition and Municipal Staff
Measurable Goal(s):
11 people reached on Greenscapes Facebook
Message Date(s): Posted on Greenscapes Facebook on August 26th, 2020 and shared with municipal staff on August 25, 2020
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:
BMP:Social Media - Good Septic Owner Posts Message Description and Distribution Method:
Distribution of EPA's "10 Ways to be a Good Septic Owner" lists in both english and spanish. The list

City of Salem

Page 8

Distribution of EPA's "10 Ways to be a Good Septic Owner" lists in both english and spanish. The list includes 10 tips for sustainable septic maintenance. The graphics were posted on Greenscapes Facebook, are available on the Greenscapes website and were shared with municipal staff in the Greenscapes newsletter.

Targeted Audience: Residents
Responsible Department/Parties: Greenscapes Coalition and municipal staff
Measurable Goal(s):
14 people reached on Greenscapes Facebook.
Message Date(s): Posted on Greenscapes social media September 16, 2020. Sent to municipal staff on Sept. 17, 2020 and again on March 3, 2021.
Message Completed for: Appendix F Requirements ☐ Appendix H Requirements ☐
Was this message different than what was proposed in your NOI? Yes ○ No ⊙
If yes, describe why the change was made:
BMP:Social Media - Protect It & Inspect It Post Message Description and Distribution Method: Distribution of EPA's "Protect It and Inspect It" post, which describes the importance of regularly inspecting and emptying your septic tank. Graphic was posted on Greenscapes Facebook and is available on the Greenscapes website.
Targeted Audience: Residents
Responsible Department/Parties: Greenscapes Coalition and municipal staff
Measurable Goal(s):
12 people reached on Greenscapes Facebook.
Message Date(s): Posted on Greenscapes Facebook Sept 16, 2020.
Message Completed for: Appendix F Requirements ☐ Appendix H Requirements ☐ Was this message different than what was proposed in your NOI? Yes ○ No ⑤ If yes, describe why the change was made:
11 yes, describe why the change was made.
BMP: Social Media - Fall Calendar Post

Page 9

Message Description and Distribution Method:

City of Salem

Distribution of a Fall Greenscaping Calendar/Checklist that includes several tips and tricks for sustainable landscaping and yard maintenance. It includes the suggestion of composting yard waste, planting native trees, watering less, using fescue grass mix - all of which would reduce the need/use of chemical fertilizers. the graphic was posted on Greenscapes social media, is available on the Greenscapes website and was shared with

City of Salem Page	e 10
municipal staff in the Greenscapes newsletter.	
Targeted Audience: Residents	
Responsible Department/Parties: Greenscapes Coalition and municipal staff	
Measurable Goal(s):	
359 people reached on Greenscapes Facebook, 10 people reached on Greenscapes Instagram.	
Message Date(s): Sent to municipal staff October 1, 2020. Posted on Greenscapes SM September 1, 2020.	•
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:	
BMP:Article/Social Media - Leave the Leaves Message Description and Distribution Method:	
Distribution of an article from the Ecological Landscape Alliance, detailing the benefits of leaving "leaf li in your yard, as opposed to collecting and removing it. The article discusses the resultant biodiversity, nurtrient, water retention and chemical reduction benefits of "Leaving the Leaves". Article was posted on Greenscapes Facebook.	
Targeted Audience: Residents	
Responsible Department/Parties: Greenscapes Coalition	
Measurable Goal(s):	
133 people reached on Greenscapes Facebook.	
Message Date(s): Posted on Greenscapes Facebook October 16, 2020	
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:	

BMP:Brochure - Industrial Stormwater Management

Message Description and Distribution Method:

Distribution of a one page "brochure" designed for industrial audiences that details BMPs for industrial sites, and the importance of keeping waste like salts, heavy metals, oils and other hazardous materials out of our

City of Salem Page 11
surface waters. the brochure is available on the Greenscapes website and was sent to municipal staff in the
Greenscapes newsletter. The newsletter also included distribution tips such as: posting the brochure to town
websites, mailing it to industrially zoned parcels, etc.
Targeted Audience: Industrial facilities
Responsible Department/Parties: Greenscapes Coalition and municipal staff.
Measurable Goal(s):
Message Date(s): Sent to municipal staff October 1, 2020
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:
Industrial brochure was supposed to be delivered in Year 2 of the permit.
BMP: Social Media - Yard Waste Post Massaca Description and Distribution Methods
Message Description and Distribution Method: Distribution of a graphic graphic graphic graphic description and by Craphaganas, that are asymptotic formation and provide the compact years as the compact years are the compact years as the compact years as the compact years are the compact years as the compact years as the compact years are the compact years as the compact years as the compact years are the compact years as the compact years are the compact years and years are the compact years as the compact years are the compact years and years are the compact years are the compact years.
Distribution of a graphic created by Greenscapes, that encourages homeowners to compost yard waste (either at home or with curbside pickup), and indicates that yard waste does NOT belong in wetlands or in the trash.
Graphic is available on the Greenscapes website, was posted on Greenscapes social media and was sent to
municipal staff in the Greenscapes newsletter.
Targeted Audience: Residents
Responsible Department/Parties: Greenscapes Coalition and municipal staff
Measurable Goal(s):
7 people reached on Greenscapes Instagram, 8 people reached on Greenscapes Facebook.
Sent to municipal staff October 1, 2020, Posted on Greenscapes social media November 18,
Message Date(s): 2020 Sent to municipal staff October 1, 2020, I osted on Greenscapes social media November 18,
M. C. 14.16 Assess for E.D. series were to the Assess for H.D. series were to \tau
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:

Page 12 City of Salem Message Description and Distribution Method: Distribution of a graphic created by Greenscapes that stresses the importance of keeping storm draind clear of lawn waste and other debris. The graphic is available on the Greenscapes website, was posted on Greenscapes social media and shared with municipal staff in the Greenscapes newsletter. Targeted Audience: Residents Responsible Department/Parties: Greenscapes Coalition and municipal staff. Measurable Goal(s): 12 people reached on Greenscapes Instagram, 11 people reached on GNSC Facebook. Posted on Greenscapes SM on November 24, 2020. Sent to municipal staff December 1, Message Date(s): Appendix F Requirements Appendix H Requirements Message Completed for: Was this message different than what was proposed in your NOI? Yes O No • If yes, describe why the change was made: **BMP: Social Media - PPE Post** Message Description and Distribution Method: Distribution of Greenscapes PPE litter awareness post. "Don't want to see dirty masks in your news feed? We don't want to see them on the ground! Masks belong on your face or in the trash." Targeted Audience: Residents Responsible Department/Parties: Greenscapes Coalition and municipal staff Measurable Goal(s): 327 people reached on Greenscapes Facebook, 17 people reached on Greenscapes Instagram. Sent to municipal staff on December 1, 2020. Posted on Greenscapes SM November 30, 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:

Page 13 City of Salem Message Description and Distribution Method: Distribution of a photo taken by Greenscapes of a decorative halloween witch holding a mask and other litter, along with a sign that reads "Trick or Treat. Please keep litter off the street!". Graphic was posted on Greenscapes social media. Targeted Audience: Residents Responsible Department/Parties: Greenscapes Coalition Measurable Goal(s): 14 people reached on Greenscapes Instagram Message Date(s): Posted on Greenscapes SM on November 18, 2020 Appendix F Requirements Message Completed for: 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: **BMP: Social Media - Unflushables Post** Message Description and Distribution Method: Distribution of Greenscapes infographic that lists many of the commonly flushed "unflushables", such as wipes, dental floss, q-tips, tampons, contact lenses, oils and grease. Graphics were were posted on Greenscapes social media. Targeted Audience: Residents Responsible Department/Parties: Greenscapes Coalition Measurable Goal(s): 16 people reached on GNSC Instagram, 8 people reached on GNSC Facebook Message Date(s): Posted on Greenscapes SM November 18, 2020 Appendix F Requirements Appendix H Requirements Message Completed for: Was this message different than what was proposed in your NOI? Yes O No • If yes, describe why the change was made:

City of Salem Pag	ge 14
Message Description and Distribution Method:	
Distribution of Andover DPW's social media post about keeping storm drains clear of snow and ice. Repo on Greenscapes social media.	sted
Targeted Audience: Residents	
Responsible Department/Parties: Greenscapes Coalition	
Measurable Goal(s):	
20 people reached on GNSC Instagram	
Message Date(s): Posted by Greenscapes Dec. 24, 2020	
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:	
BMP: Video - What Not to Flush Activity (version 2)	
Message Description and Distribution Method:	
Distribution of an abridged version of the original "What Not to Flush" Greenscapes activity video. This experiment video illustrates why wipes and oils and greases cannot be flushed down our sinks or toilets. Was posted on youtube and vimeo and sent to municipal staff in Greenscapes newsletter.	Video
Targeted Audience: Residents	
Responsible Department/Parties: Greenscapes Coalition and municipal staff	
Measurable Goal(s):	
14 views on Youtube, 15 views on Vimeo (this does not include any views of the video embedded in the classroom materials).	
Message Date(s): Posted on youtube November 23, 2020. Sent to municipal staff December 1, 2020.	
Message Completed for: Appendix F Requirements ☐ Appendix H Requirements ☐	
Was this message different than what was proposed in your NOI? Yes No ○	
If yes, describe why the change was made:	
The Keeping Water Clean program is normally conducted in person at individual schools.	

Message Description and Distribution Method: Distribution of a video created by Greenscapes that takes viewers through an activity normally conducted as part of the Keeping Water Clean program. The activity has viewers/students delineate their own watershed and see where the water goes, how it collects and also considers all of the things that water could run into along the way. Video was posted on youtube and vimeo and sent to municipal staff in Greenscapes newsletter. Targeted Audience: Residents Responsible Department/Parties: Greenscapes Coalition and municipal staff Measurable Goal(s): 13 views on Youtube, 18 views on Vimeo (this does not include any views of the video embedded in the classroom materials). Message Date(s): Posted on youtube November 23, 2020. Sent to municipal staff December 1, 2020. Appendix F Requirements Appendix H Requirements Message Completed for: Was this message different than what was proposed in your NOI? Yes • No O If yes, describe why the change was made: The Keeping Water Clean program is normally conducted in person at individual schools. **BMP: Video - Groundwater Exploration Activity** Message Description and Distribution Method: Distribution of Greenscapes activity video that walks viewers through an activity normally conducted as part of the Keeping Water Clean school program. The activity uses an Envision groundwater model that illustrates all of the "water beneath our feet". It helps students visualize how water (and water pollution) are always moving underground, never staying in one final place. It helps students consider how behaviors on land can affect the water underground and eventually even the water we use to drink or swim in. Video was posted on youtube and vimeo and sent to municipal staff in Greenscapes newsletter. Targeted Audience: Residents Responsible Department/Parties: Greenscapes Coalition and municipal staff Measurable Goal(s): 106 views on Youtube, 8 views on Vimeo (this does not include any views of the video embedded in the classroom materials). Message Date(s): Appendix F Requirements Message Completed for: Appendix H Requirements Was this message different than what was proposed in your NOI? Yes • No O If yes, describe why the change was made:

The Keeping Water Clean program is normally conducted in person at individual schools.

BMP: Social Media - Pet Waste		
Message Description and Distribution Method:		
Distribution of Greenscapes "Scoop the Poop" messaging. Hard copy rack cards were reprinted and PDFs of all documents are available on Greenscapes website and were sent to municipal staff in Greenscapes Newsletter.		
Targeted Audience: Residents		
Responsible Department/Parties: Greenscapes Coalition and municipal staff		
Measurable Goal(s):		
500+ reprinted for each community		
Message Date(s): PDFs sent to municipal staff February 3rd, 2021 and again on April 29, 2021. Rack cards were printed in February 2021 and municipal staff was notified April 29, 2021.		
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:		
BMP: Social Media - Salt Alternative Post Message Description and Distribution Method:		
Distribution of Greenscapes graphic that makes various suggestions of natural alternatives to harsh road salt. Graphics are available on Greenscapes website and social media, and were sent to municipal staff in Greenscapes newsletter.		
Targeted Audience: Residents		
Responsible Department/Parties: Greenscapes Coalition and municipal staff		
Measurable Goal(s):		
Message Date(s): Sent in newsletter on February 3rd, 2021		
Message Completed for: Appendix F Requirements ☐ Appendix H Requirements ☐		
Was this message different than what was proposed in your NOI? Yes ○ No ●		
If yes, describe why the change was made:		

BMP: Social Media - Shovel More Salt Less Post
Message Description and Distribution Method:
Distribution of a graphic created by the Mystic River Watershed Council that encourages homeowners to "Salt More, Shovel Less" to reduce the amount of salt that ends up in stormwater and in our waterways. Graphic was posted on Greenscapes social media.
Targeted Audience: Residents
Responsible Department/Parties: Greenscapes Coalition
Measurable Goal(s):
15 people reached on GNSC Facebook, 14 people reached on GNSC Instagram
Message Date(s): Posted on Greenscapes social media Jan 8, 2021.
Message Completed for: Appendix F Requirements ☐ Appendix H Requirements ☐
Was this message different than what was proposed in your NOI? Yes ○ No ●
If yes, describe why the change was made:
BMP:Video/Social Media - Salt Smart
Message Description and Distribution Method:
Distribution of a "More Isn't Always Better" video created by the Salt Smart Collaborative in Illinois. The video illustrates several instances where more isn't always better and applies the same thinking to salt use, while including a few specific suggestions for sustainable winter salt use. Sent to municipal staff in Greenscapes newsletter and posted on Greenscapes social media.
Targeted Audience: Residents
Responsible Department/Parties: Greenscapes Coalition and municipal staff
Measurable Goal(s):
10 people reached on Greenscapes Facebook
Message Date(s): Posted on Greenscapes social media Feb. 11, 2021. Sent to municipal staff Feb. 3, 2021
Message Completed for: Appendix F Requirements ☐ Appendix H Requirements ☐
Was this message different than what was proposed in your NOI? Yes ○ No ●

City of Salem	Page 18
If yes, describe why the change was made:	
BMP: Brochure - Complete Homeowners Septic Guide Message Description and Distribution Method:	
Distribution of EPA's Complete Homeowner's Septic Guide. The guide explains how a septic sand details the importance of maintaining it for the sake of the environment and to save homeout also discusses a proper inspection, maintenance and emptying routine and includes tips and twater more efficiently in an attempt to put less stress on the septic system. The guide is available Greenscapes website and was sent to municipal staff in the Greenscapes newsletter. Included in were suggestions on how to share with residents, such as: posting on town websites, new home etc.	owners money. tricks to use ble on the n the newsletter
Targeted Audience: Residents	
Responsible Department/Parties: Greenscapes Coalition and municipal staff	
Measurable Goal(s):	
Message Date(s): Sent to municipal staff on March 3, 2021	
Message Completed for: Appendix F Requirements ☐ Appendix H Requirements ☐	
Was this message different than what was proposed in your NOI? Yes ○ No ●	
If yes, describe why the change was made:	
BMP: Social Media - Septic Infographic Post	
Message Description and Distribution Method:	
Distribution of an infographic created by ThinkBlueMA that describes "5 Signs Your Tank Ne and includes tips and tricks for proper septic maintenance. Graphic was posted on Greenscapes and shared with municipal staff in the Greenscapes newsletter.	U /
Targeted Audience: Residents	
Responsible Department/Parties: Greenscapes Coalition and municipal staff	
Measurable Goal(s):	
12 people reached on GNSC Facebook, 24 people reached on GNSC Intagram	
Message Date(s): Sent to municipal staff on March 3, 2021. Posted on Greenscapes social med 2021	lia March 3,

Page 19 City of Salem Appendix F Requirements Appendix H Requirements Message Completed for: Yes O No • Was this message different than what was proposed in your NOI? If yes, describe why the change was made: **BMP:Social Media - Stormwater Pollution Post** Message Description and Distribution Method: Distribution of a "Sources of Stormwater Pollution" infographic created by Central MA Stormwater Collaborative. The infographic illustrates many different sources of stormwater pollution and describes the flow of water throughout an average Massachusetts watershed. It also provides tips and tricks for reducing and eliminating stormwater pollution. Posted on Greenscapes social media. Targeted Audience: Residents Responsible Department/Parties: Greenscapes Coalition Measurable Goal(s): 16 people reached on GNSC Instagram Message Date(s): Posted on April 24, 2021 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: BMP: Social Media - Rain Garden Post Message Description and Distribution Method: Distribution of a Rain Garden infographic created by Greenscapes that describes the different functions of a rain garden and encourages homeowners to explore the possibility of installing one in their yards. Inforgraphic is available on Greenscapes website and was shared with municipal staff via Greenscapes newsletter. Targeted Audience: Residents Responsible Department/Parties: Greenscapes Coalition and municipal staff.

Measurable Goal(s): Message Date(s): Sent to municipal staff April 29, 2021

Page 20 City of Salem Appendix F Requirements Appendix H Requirements Message Completed for: Was this message different than what was proposed in your NOI? Yes O No • If yes, describe why the change was made: **BMP: Webinar - Pesticides 101** Message Description and Distribution Method: Distribution of a webinar recording, originally hosted by Sustainable Marblehead. Speaker Chip Osborne discusses sustainable landscaping tips such as limited pesticide use and/or using organic alternatives. Recording was shared with municipal staff in the Greenscapes newsletter Targeted Audience: Residents Responsible Department/Parties: Greenscapes Coalition and municipal staff Measurable Goal(s): Message Date(s): Sent to municipal staff April 29, 2021 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: **BMP: Social Media - Lawn Care Post** Message Description and Distribution Method: Distribution of an infographic created by ThinkBlueMA that illustrates several tips for sustainable lawn care such as getting your soil tested, limiting use of nitrogen & phosphorous rich fertilizers, leaving leaf litter to

naturally fertilize lawns and gardens, and more. Graphic is available on the Greenscapes website and was shared with municipal staff in the Greenscapes newsletter

Targeted Audience:	Residents
Responsible Departr	ment/Parties: Greenscapes Coalition and municipal staff
Measurable Goal(s)	
Message Date(s): Se	ent to municipal staff April 29, 2021

Page 21 City of Salem Appendix F Requirements Appendix H Requirements Message Completed for: Was this message different than what was proposed in your NOI? Yes O No • If yes, describe why the change was made: BMP: Video/Social Media - Fowl Water Video Message Description and Distribution Method: Distribution of a video created by ThinkBlueMA that defines stormwater and explains the impact of pollution like trash, oil, cigarettes and dog poop on stormwater and our waterways. The video is available on the Greenscapes website, the ThinkBlueMA website, and was spread as an advertisement on Facebook, Instagram and Youtube. Targeted Audience: Residents Responsible Department/Parties: Greenscapes Coalition and ThinkBlueMA Measurable Goal(s): 678,448 impressions in Greenscapes region Message Date(s): Advertisement run from May 17 to June 4, 2021 Message Completed for: Appendix F Requirements Appendix H Requirements Was this message different than what was proposed in your NOI? Yes O No O If yes, describe why the change was made: BMP: School Program - Keeping Water Clean Message Description and Distribution Method: Distribution of virtual classroom materials that engage 5th grade students in several activities/experiments designed to raise their stormwater and water conservation awareness. Students learn what a watershed is, what stormwater, groundwater and wastewater are, how they can negatively or positively affect those water systems and how they can become better stewards of their watershed(s). Materials include 3 "chapters" of watershed learning in the form of powerpoints, videos, hands-on experiments, quizzes and more. All materials are available on the Greenscapes website and were shared directly with 5th grade educators throughout the region. Targeted Audience: Residents Responsible Department/Parties: Greenscapes Coalition

Measurable Goal(s):

Sent to 113 teachers in the Greenscapes region

City of Salem Page 22
Message Date(s): Sent to teachers on January 29, 2021 and resent on February 22, 2021
Message Completed for: Appendix F Requirements ☐ Appendix H Requirements ☐
Was this message different than what was proposed in your NOI? Yes No ○
If yes, describe why the change was made:
The Keeping Water Clean program is normally conducted in person at individual schools.
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 SWMP is posted on the City website.
Was this opportunity different than what was proposed in your NOI? Yes O No O
Describe any other public involvement or participation opportunities conducted during this reporting period :
See Click Fix website allows public to report on stormwater issues throughout the community.
MCM2. Illigit Dischause Detection and Elimination (IDDE)
MCM3: Illicit Discharge Detection and Elimination (IDDE)
Sanitary Sewer Overflows (SSOs) Check off the box below if the statement is true. This SSO section is NOT applicable because we DO NOT have sanitary sewer

Below, report on the number of SSOs identified in the MS4 system and removed during this reporting period.

City of Salem	Page 23
Number of SSOs identified: 2	
Number of SSOs removed: 2	
MS4 System Mapping	
Optional: Provide additional status information regards	ng your map:
The City of Salem map is complete with known outfall drain pipes. Additionally known sewer manholes, sewe complete.	
Screening of Outfalls/Interconnections	
If conducted, please submit any outfall monitoring resurresults should include the date, outfall/interconnection sampling, precipitation in previous 48 hours, field screen Please also include the updated inventory and ranking	identifier, location, weather conditions at time of
O No outfalls were inspected	
• The outfall screening data is attached to	
○ The outfall screening data can be found	at the following website:
Below, report on the number of outfalls/interconnection Number of outfalls screened: 67	s screened during this reporting period.
Below, report on the percent of outfalls/interconnection	s screened to date .
Percent of outfalls screened: 51	
Optional: Provide additional information regarding you	ur outfall/interconnection screening:
Due to Covid-19 distancing requirements, the requirements investigations was not completed. Work is underway to completed by the next annual report. Wet weather same not included in the 67 outfalls "screened" referenced at	o complete this requirement and is expected to be beling has also been completed at 46 outfalls which is
Cotahment Investigations	
Catchment Investigations If conducted, please submit all data collected during the investigations. Also include the presence or absence of No catchment investigations were conducted. The catchment investigation data is attachment investigation data can be a submit of the catchment investigation data.	System Vulnerability Factors for each catchment. ucted ched to the email submission
Below, report on the number of catchment investigation	s completed during this reporting period.
Number of catchment investigations con	npleted this reporting period: 1

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:	
Currently 16 catchment investigations are underway. See attachment.	
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 discover date of discovery; and date of elimination, mitigation, or enforcement OR planned corrective measures and	-
schedule of removal.	ı
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: 5	
Number of finest discharges identified.	
Number of illicit discharges removed: 5	
Estimated volume of sewage removed: 2,970 gallons/day	
Below, report on the total number of illicit discharges identified and removed to date. At a minimum, report the number of illicit discharges identified and removed since the effective date of the permit (July 1, 2018)	
Total number of illicit discharges identified: 10	
Total number of illicit discharges removed: 10	
Optional: Provide any additional information for clarity regarding illicit discharges identified, removed, or planned to be removed below:	
See attachment.	

Page 24

Employee Training

City of Salem

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

Due to COVID-19 regulations and restrictions, formal training was not completed within the reporting period. However, the Department of Public Services, Sewer and Drain Division, have been working closely with drain inspectors for many years and are aware of the signs of illicit connections.

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: 8
Number of inspections completed: 3
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: 1

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

As-builts and O&M plans are required for construction. If the construction project goes through Planning Board and is in Conservation Commission jurisdiction, as-builts and long-term O&M plans are required. For smaller construction projects, Engineering requires the as-builts and long-term O&M plans prior to issuance of Certificate of Occupancy. We are reviewing the procedures for consistency with permit requirements.

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:

In 2018, the City created a preliminary list of areas for potential retrofit as part of a grant application for the Coastal Pollutant Remediation (CPR) Program. The list targets city-owned parking lots and traffic islands for potential retrofit locations. The City has previously received funding for two parking lot retrofits and installed rain gardens to treat stormwater from a city-owned right-of-way and parking lot.

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:

In 2018, the City created a preliminary list of areas for potential retrofit as part of a grant application for the Coastal Pollutant Remediation (CPR) Program. The list targets city-owned parking lots and traffic islands for potential retrofit locations. The City has previously received funding for two parking lot retrofits and installed rain gardens to treat stormwater from a city-owned right-of-way and parking lot.

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:

In 2018, the City created a preliminary list of areas for potential retrofit as part of a grant application for the Coastal Pollutant Remediation (CPR) Program. The list targets city-owned parking lots and traffic islands for potential retrofit locations. The City has previously received funding for two parking lot retrofits and installed rain gardens to treat stormwater from a city-owned right-of-way and parking lot.

MCM6: Good Housekeeping

Catch Basin Cleaning

Below, report on the number of catch basins inspected and cleaned, along with the total volume of material removed from the catch basins during this reporting period.

Number of catch basins inspected: 2,080	
Number of catch basins cleaned: 2,080	
Total volume or mass of material removed	from all catch basins: 115

tons

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

Total number of catch basins: 2,712

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 inspection information collected for catch basin cleaning is recorded in the City's ESRI GIS system and used to guide additional cleaning efforts where needed.

Street Sweeping

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

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:

Due to Covid-19 distancing requirements, the requirement for all outfall sampling and catchment investigations was not completed. Work is underway to complete this requirement and is expected to be completed by the next annual report. Wet weather sampling has also been completed at 46 outfalls which is not included in the 67 outfalls "screened" referenced above.

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)

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:		Title:	
Signature:	[Signatory may be a duly authorized representative]	Date:	