Year 4 Annual Report

Massachusetts Small MS4 General Permit Reporting Period: July 1, 2021-June 30, 2022

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, 2021 and June 30, 2022 unless otherwise requested.

Part I: Contact Information

Name of Mur	nicipality or Organi	zation: Tow	n of Rowl	ey						
EPA NPDES	Permit Number: M	IAR041218								
Primary MS	4 Program Manag	ger Contact	t Informat	ion						
Name: Brent	Baeslack			Title:	Cor	ıservati	on Ageı	nt		
Street Address Line 1: P.O. Box 24										
Street Address Line 2: 39 Central Street Room #4										
City: Rowle	ey	State: MA Zip Code: 01969								
Email: conservation@townofrowley.org			Phone Number: (978)-948-2330							
Stormwater :	Management Prog	gram (SWN	MP) Inforn	nation						
SWMP Locat	SWMP Location (web address): https://www.townofrowley.net/stormwater-management/pages/stormwater-related-documents					rmwater-				
Date SWMP was Last Updated: June 2021										
If the SWMP	is not available on	the web ple	ease provid	le the ph	ysic	al addre	ess:			

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	☐ Phosphorus
	☐ Solids/ Oil/ Grease (H	ydrocarbons)/ Meta	ls	
TMDL(s)				
In State:	☐ Assabet River Phospho	orus 🖂 Bact	eria and Pathogen	☐ Cape Cod Nitrogen
	☐ Charles River Watersh	ed Phosphorus	☐ Lake and Pond	l Phosphorus
Out of State:	☐ Bacteria/Pathogens	☐ Metals	□ Nitrogen	☐ Phosphorus
			C	lear Impairments and TMDLs
				-
	oped a report assessing curr			es and other local cover, made it available as
_	the SWMP, and:	my mai arrect me c	reation of impervious	cover, made it available as
	No updates were recomm	nended		
	Updates were recommend	ded. The anticipated	l date or date of comp	pletion for updates is/was:
	Coordinating with Plann	ing Board May-June	2023	
	=	•	<u> </u>	of making green nade it available as part of the
	No updates were recomm	iended		
	Updates were recommend	ded. The anticipated	I date or date of comp	pletion for updates is/was:
	Coordinating with Plann	ing Board May-June	2023	
⊠ Identif with B	fied a minimum of 5 permit BMPs to reduce impervious	tee-owned propertie	s that could potential	ly be modified or retrofitted

Optional: If you would like to describe progress made on any incomplete requirements listed above, provide an update on previous incomplete milestones, or provide any additional details, please use the box below:

Members of the Greenscapes North Shore Coalition reviewed all municipal regulations related to impervious cover creation. The Greenscapes team used the MA Audubon bylaw review tool to evaluate all of the regulations in the context of green infrastructure feasibility and compiled a detailed report of their findings, which also includes recommended improvements for each regulation reviewed. With guidance and input from

municipal staff, timelines for implementation of recommended language were established on a case-by-case basis. The full report and community specific recommendations can be found here:https://greenscapes.org/wp-content/uploads/2022/08/MS4-Grant-Report-FINAL_reduced.pdf

In connection with the bylaw review efforts conducted by the Greenscapes Coalition, two educational webinars were also conducted. The first webinar was held at the onset of the review process and ntroduced the project scope while detailing the value of encouraging LID practices in municipal codes. This webinar yielded 70 attendees. The second webinar, held following the completion of the review process, was hosted by EPA's Soak Up the Rain and discussed the project results and lessons learned. This webinar had approximately 300 attendees.

Annual Requirements

Provided an opportunity for public participation in review and implementation of SWMP and complied with State Public Notice requirements
⊠ Kept records relating to the permit available for 5 years and made available to the public
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
O 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:
☑ Updated system map due in year 2 as necessary
☑ Provided training to employees involved in IDDE program within the reporting period
Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
☑ All curbed roadways were swept at least once within the reporting period
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)

Town of Rowley Page 4 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: Looking to access obstructed or high traffic roadway infrastructure that wasn't sampled. **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: Scoop the Poop brochure is at Town Hall and other municipal buildings. Septic system flier distributed in March electric invoices to all Rowley residences. Optional: Use the box below to provide any additional information you would like to share as part of your self-assessment:

Part III: Receiving Waters/Impaired Waters/TMDL

submitted?	changes to your fists of receiving waters, outrains, or impairments since the NOI was
○ Yes	
No	
If yes, describe belo	ow, 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 : 0
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: Elementary School Program - Keeping Water Clean Message Description and Distribution Method:
Program engages 5th grade students in several activities designed to raise their stormwater and water conservation awareness. Students learn about what a watershed is, what stormwater, groundwater and wastewater are, how they can negatively or positively impact these water systems, along with more details about each system and how it should be protected/maintained.
Targeted Audience: Residents +
Responsible Department/Parties: Greenscapes Coalition
Measurable Goal(s):
2166 students 370 teachers and parents 30 schools
Message Date(s): September 2021 - June 2022
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 - "Fowl Water" Message Description and Distribution Method: The Think Blue Massachusetts "Fowl Water" video defines stormwater and explains the impact that pollution like trash, oil, cigarettes and dog poop can have on stormwater and our waterways. Video available at https://www.thinkbluemassachusetts.org/, www.greenscapes.org/resources-videos/ and spread as an advertisement
on Facebook, Instagram, & YouTube
Targeted Audience: Residents +

Responsible Department/Parties: Think Blue MA, Greenscapes Coalition

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Measurable Goal(s):
237,249 impressions on Facebook/Instagram 351,249 impressions on YouTube
Message Date(s): May 31, 2022 - June 17th, 2022
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: Workshop - Planning Tools to Promote Natural Resource Stewardship Message Description and Distribution Method:
Hosted by members of the PIE-Rivers Partnership, this free virtual workshop discussed the latest trends in promoting LID and other forms of Green Infrastructure in North Shore communities.
Targeted Audience: Residents +
Responsible Department/Parties: PIE Rivers Partnership, Greenscapes Coalition
Measurable Goal(s):
82 Participants
Message Date(s): November 9, 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: Print Material/Rack Card - Storm Drain Info
Message Description and Distribution Method:
The Greenscapes storm drain rack card, originally printed in 2016 was modified for easy office printing and distribution. The original can be found here: https://greenscapes.org/wp-content/uploads/2017/01/Greenscapes-Rack-Card-2014-final.pdf
Targeted Audience: Residents +
Responsible Department/Parties: Greenscapes Coalition, Municipal Staff

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Measurable Goal(s):	
Message Date(s): Sent to Greenscapes network January 24th, 2022	
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: Public Lecture - Coastal Communities Talk Water Message Description and Distribution Method:	
This free community event at the Cabot Theater in Beverly MA, featured guest speakers from Coastwatch, the Ipswich River Watershed Association, Green Beverly, Sustainable Marblehe who covered various topics related to water quality, water quantity and general watershed stematerials were also being passed out by Greenscapes personnel.	ad and the EPA,
Targeted Audience: Residents +	
Responsible Department/Parties: Greenscapes Coalition	
Measurable Goal(s):	
150 Attendees	
Message Date(s): March 10th, 2022	
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: Printed Material (Magazine) - Greenscapes Guide Message Description and Distribution Method: The Greenscapes Guide, a 26 page magazine that covers sustainable landscaping tips. DIV sta	ormwotor
The Greenscapes Guide, a 26 page magazine that covers sustainable landscaping tips, DIY stomanagement for homeowners and more, was distributed at every school program that Greense this school year.	
Targeted Audience: Residents +	
Responsible Department/Parties: Greenscapes Coalition	

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Measurable Goal(s):	
3,000 guides distributed throughout the North Shore	
Message Date(s): Various dates between September 2021 - June 2022	
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: In-Person Exhibit - Culture House	
Message Description and Distribution Method:	
Salem Sound Coastwatch, a contributing partner to the Greenscapes Coalition, was a resident Salem Culture House, a pilot project that created a community space in Salem's Old Town Ha exhibit, SSCW staff ran two hands on activities that taught visitors about their connection to to Greenscapes materials were on display and passed out.	ıll. At the
Targeted Audience: Residents +	
Responsible Department/Parties: Greenscapes Coalition, Municipal Staff	
Measurable Goal(s):	
924 Attendees	
Message Date(s): April 20th - April 23rd, 2022	
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: Miscellaneous Social Media	
Message Description and Distribution Method:	
Social media content related to stormwater management, wastewater and groundwater protect conservation, pet waste, septic system maintenance and sustainable lawn care are always avai Greenscapes social media pages and on the Greenscapes website. https://greenscapes.org/resosocialmedia/	lable on the
Targeted Audience: Residents +	

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Responsible Department/Parties: Greenscapes Coalition Measurable Goal(s):				
Message Date(s):				
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: Miscellaneous Tabling Events				
Message Description and Distribution Method: Events attended by Greenscapes personnel where printed materials were passed out: Middleton Ea	orth Dov			
Tri-Town Spring Expo, Boxford Applefest, Topsfield Strawberry Fest, Ipswich STEAM Showcas Earth Day, Salem Farmer's Market, Earth Week at the Peabody Essex Museum	•			
Targeted Audience: Residents +				
Responsible Department/Parties: Residents +				
Measurable Goal(s):				
Message Date(s): Various dates between September 2021 - June 2022				
Message Completed for: Appendix F Requirements ☐ Appendix H Requirements ☐				
Was this message different than what was proposed in your NOI? Yes O No •				
If yes, describe why the change was made:				

Add an Educational Message

MCM2: Public Participation

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Describe the opportunity provided for public involvem Program (SWMP) during this reporting period:	ent in the development of the Stormwater Management
The Rowley Conservation Commission held a public n 6/21/22.	neeting for public input on the Town's SWMP on
Was this opportunity different than what was proposed	in your NOI? Yes ○ No •
Describe any other public involvement or participation Rowley also participated in monthly meetings of the M September - June (2021/2022) Household Hazardous Waste Recycling Day was held Rowley participates in the Greenscapes North Shore Co	Nov. 6, 2022 from 9:00 a.m. to 12:00 p.m.
MCM3: Illicit Discharge Detection Sanitary Sewer Overflows (SSOs) Check off the box below if the statement is true. This SSO section is NOT applicable becomes the second of the second of the statement is true.	ection and Elimination (IDDE)
	•
Below, report on the number of SSOs identified in the M Number of SSOs identified: 0	154 system and removed during this reporting period .
Number of SSOs removed: 0	
MS4 System Mapping	
Optional: Provide additional status information regards	ng your map:
Online mapping is maintained by Merrimack Valley Pl	anning Com on an ongoing basis.
	identifier, location, weather conditions at time of
No outfalls were inspectedThe outfall screening data is attached to	the email submission
	-

• The outfall screening data can be found at the following website:

https://www.townofrowley.net/stormwater-management/files/2021-dry-weather-outfall-rej	port
Below, report on the number of outfalls/interconnections screened during this reporting period.	
Number of outfalls screened: 0	
Below, report on the percent of outfalls/interconnections screened to date.	
Percent of outfalls screened: 65	
Optional: Provide additional information regarding your outfall/interconnection screening:	
Catchment Investigations	-
If conducted, please submit all data collected during this reporting period as part of the dry and wet weath investigations. Also include the presence of System Vulnerability Easters for each actel ment.	her
investigations. Also include the presence or absence of System Vulnerability Factors for each catchment. • No catchment investigations were conducted	
 The catchment investigation data is attached to the email submission 	
The catchment investigation data can be found at the following website:	
The entermient investigation data can be found at the following weester.	
Below, report on the number of catchment investigations completed during this reporting period.	
Number of catchment investigations completed this reporting period: 0	
Below, report on the percent of catchments investigated to date.	
Percent of total catchments investigated: 0	
Optional: Provide any additional information for clarity regarding the catchment investigations below:	
IDDE 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 discove	ery;
date of discovery; and date of elimination, mitigation, or enforcement OR planned corrective measures and	ıd
schedule of removal.	
No illicit discharges were found	
The illicit discharge removal report is attached to the email submission	
The illicit discharge removal report can be found at the following website:	

Below, report on the number of illicit discharges ident removed during this reporting period.	tified 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	•	<u>-</u>
Total number of illicit discharges ident	tified: 0	
Total number of illicit discharges remo	oved: 0	
Optional: Provide any additional information for clariplanned to be removed below:	ity regarding i	llicit discharges identified, removed, or
Employee Training Describe the frequency and type of employee training	conducted du	uring this reporting period:
All employees participated in online IDDE training provided the can be found here: https://www.centralmastornassistance-grant. All employees are required to review Stormwater Management Plan.	nwater.org/too	olbox/pages/2020-idde-workshop-ms4-
MCM4: Construction Site Below, report on the construction site plan reviews, in this reporting period.		
Number of site plan reviews completed	d: 7	
Number of inspections completed: 13		
Number of enforcement actions taken:	2	
Optional: Enter any additional information relevant to enforcement actions:	construction	site plan reviews, inspections, and
Application for Stormwater Management Permit invo inspection occurs when site activity starts in order to		<u>=</u>

MCM5: Post-Construction Stormwater Management in New Deve Redevelopment	elopment and
Ordinance or Regulatory Mechanism	
Date update was completed (due in year 3): June 1, 2021	
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 drawin	gs:
Retrofit Properties Inventory Below, list the permittee-owned properties that could be modified or retrofitted with BM impervious areas (at least 5):	fPs to mitigate
This work was completed by June 30, 2021 but was not available to the public until Aug the Rowley Retrofit Sites can be found a the following link: https://mvpc.maps.arcgis.cowebappviewer/index.html?id=403e1c84320e484a990b537fd5ad5612 this work was compart of a Mass DEP MS4 Municipal Assistance grant. This work was completed by June mapping became available to cities and towns in August of 2021.	om/apps/ apleted by MVPC as
MCM6: Good Housekeeping Catch Basin Cleaning Below, report on the number of catch basins inspected and cleaned, along with the total and cleaned from the catch basing during this proportion paried.	volume of material
removed from the catch basins during this reporting period. Number of catch basins inspected: 496	
Number of catch basins cleaned: 496	
Total volume or mass of material removed from all catch basins: 65	cubic yards

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Below, report on the total number of catch ba	sins in the MS4 s	ystem.	
Total number of catch basins:	496		
If applicable: Report on the actions taken if a catch basin su	ump is more than	50% full during two conse	ecutive routine
inspections/cleaning events:			
Street Sweeping			
Report on street sweeping completed during t	this reporting per	riod using <u>one</u> of the three	metrics below.
O Number of miles cleaned: 45			
• Volume of material removed:	55	cubic yards	
Weight of material removed:		[Select Units]	
Stormwater Pollution Prevention Plan (SW Below, report on the number of site inspection reporting period.	,	at require a SWPPP comp	leted during this
Number of site inspections con	mpleted: 3		
Describe any corrective actions taken at a fac	ility with a SWP	PP:	
Ado	ditional Infori	nation	
Monitoring or Study Results Results from any other stormwater or receiving reporting period not otherwise mentioned about permit effectiveness 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): 			

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If such monitoring or studies were conducted on your behalf or if monitoring or studies conducted by other entities were reported to you, a brief description of the type of information gathered or received shall be described below:
Additional Information
<i>Optional:</i> Enter any additional information relevant to your stormwater management program implementation during the reporting period. Include any BMP modifications made by the MS4 if not already discussed above:
COVID-19 Impacts
Optional: If any of the above year 4 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:
Activities Planned for Next Reporting Period Please confirm that your SWMP has been, or will be, undated to comply with all applicable permit

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requirements including but not limited to the year 5 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree ⊠

Annual Requirements

Town of Rowley

- 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)
- Identify additional permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious areas so that the permittee maintains a minimum of 5 sites in their inventory, until such a time when the permittee has less than 5 sites remaining

Provide any additional details on activities planned for permit year 5 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:	Brent Baeslack	Title:	Conservation Agent
	[Signatory may be a duly authorized representative]	Date:	

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: Stormwater.DEP@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