# Year 1 Annual Report

# Massachusetts Small MS4 General Permit Reporting Period: May 1, 2018-June 30, 2019

\*\*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.

### **Part I: Contact Information**

Name o	of Municipality or Organi	zation:Town of Ipswi	ch	
EPA N	PDES Permit Number: M	A041199		
Primar	ry MS4 Program Manag	er Contact Informat	ion	
Name:	Name: Richard Clarke Title: Director of Public Works			
Street A	Address Line 1: 25 Green	Street		
Street A	Address Line 2: na			
City:	Ipswich	State: MA	Zip Code: 01938	
Email:	rickc@ipswich-ma.gov		Phone Number: (978) 356-661	2
Fax Nu	ımber: na			
	water Management Prog			
SWMP	Location (web address):	https://www.ipswicht	na.gov/266/Stormwater-Informatio	on
Date S'	WMP was Last Updated:	Jul 1, 2019		
	SWMP is not available on sted on the web:	the web please provid	e the physical address and an expl	anation of why it is
DPW o			site. The website directs interested onic version will be made available	The state of the s

## Part II: Self Assessment

First, in the box below, select the impairment(s) and/or TMDL(s) that are applicable to your MS4.

Impairment(	( <u>s</u> )			
	<ul><li>☑ Bacteria/Pathogens</li><li>☐ Solids/ Oil/ Grease (Hy</li></ul>	☐ Chloride vdrocarbons)/ Meta	☐ Nitrogen	☐ Phosphorus
TMDL(s)				
In State:	☐ Assabet River Phospho☐ Charles River Watersh		eria and Pathogen  Lake and Pond	☐ Cape Cod Nitrogen Phosphorus
Out of State:	☐ Bacteria/Pathogens	☐ Metals	□ Nitrogen	☐ Phosphorus
			Cl	ear Impairments and TMDLs
you have con unchecked. A	<b>npleted that permit requiren</b> dditional information will b	nent fully. If you he	ave not completed a re	ch box you are certifying that equirement leave the box
Year 1 Requi				
	op and begin public education			
Identify and develop inventory of all known locations where SSOs have discharged to the MS4 in the last 5 years				
	• The SSO inventory is a			
	C The SSO inventory car	be found at the fo	llowing website:	
⊠ Develo	Develop written IDDE plan including a procedure for screening and sampling outfalls			ng outfalls
⊠ Identif	y each outfall and interconn y rank each catchment for in	ection discharging evestigation	from MS4, classify in	to the relevant category, and
	• The priority ranking of			
	C The priority ranking of	outfalls/interconne	ections can be found a	t the following website:
	ruction/ Erosion and Sedime	nt Control (ESC) o	rdinance complete	
⊠ Develo	op written procedures for sit res	e inspections and e	nforcement of sedime	nt and erosion control
⊠ Develo	op written procedures for sit	e plan review		
	log of catch basins cleaned			
⊠ Compl	ete inspection of all stormw	ater treatment struc	tures	

### **Annual Requirements**

Town of Ipswich	Page 3
<ul> <li>☐ Annual opportunity for public participation in review and implementation of SWMI</li> <li>☐ Comply with State Public Notice requirements</li> </ul>	
<ul> <li>         ⊠ Keep records relating to the permit available for 5 years and make available to the p</li> </ul>	ablic
Properly store and dispose of catch basin cleanings and street sweenings so they do	
receiving waters	not disenarge to
☐ Annual training to employees involved in IDDE program	
☑ All curbed roadways have been swept a minimum of one time per year	
Bacteria/ Pathogens (Combination of Impaired Waters Requirements and TMDL Require	ments as Applicable)
Annual Requirements	
Public Education and Outreach*	
Annual message encouraging the proper management of pet waste, including noting ordinances where appropriate	any existing
Permittee or its agents disseminate educational material to dog owners at the time of renewal of dog license, or other appropriate time	f issuance or
Provide information to owners of septic systems about proper maintenance in any condischarges to a water body impaired for bacteria	
* Public education messages can be combined with other public education requiremen Appendix H and F for more information)	ts as applicable (see
Use the how helevy to innut additional details on any unchasted haves above an any additional details and the contract of the	anal information you
Use the box below to input additional details on any unchecked boxes above or any additional like to share as part of your self assessment:	onal information you
Since the SWMP and IDDE plan were only recently completed, opportunity for public rev compliance with State Public Notice requirements, and annual IDDE training for employed addressed but will occur during the next year.	
The Town has contracted with Greenscapes to comply with the Public Education and Outr "Scoop the Poop" post was disseminated to Town officials, posted on partner social media (Facebook & Twitter) and available at www.greenscapes.org/resources-social-media/.	
Information regarding septic system maintenance was not issued as part of the Public Education during this year.	cation Program

# Part III: Receiving Waters/Impaired Waters/TMDL

Have you made any changes to your lists of receiving waters, outfalls, or impairments since the NOI was submitted?			
Yes	⊠ No □		
If yes, describe belo	ow, including any relevant impairments or TMDLs:		
the IDDE, the recei Ipswich River Labor-in-Vain Kimball Brook Farley Brook Muddy Run	ne IDDE Plan, the receiving waters were adjusted due to new information. As detailed in wing waters are currently listed as:  ue to be evaluated as outfall inspections are completed.		

## **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 the reporting period: 16				
Below, report on the educational messages completed during the first year. For the measurable goal(s) please describe the method/measures used to assess the overall effectiveness of the educational program.				
BMP: RAIN GARDEN BROCHURE				
Message Description and Distribution Method:				
Completed by Greenscapes North Shore Coalition under contract to Ipswich Informational brochure on the function and importance of Rain Gardens and stormwater filtration. Construction instructions and plant suggestions also included.				
Targeted Audience: Residents				
Responsible Department/Parties: External Contractor				
Measurable Goal(s):				
500 made available in town hall. Distributed by Salem Sound Coastwatch and Ipswich River Watershed Association at many community events. PDF available for download at www.greenscapes.org/resources-brochures.				
Message Date(s): Fall of 2018				
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:				
Was an additional message that was not listed in the NOI.				
BMP: LID WORKSHOP				
Message Description and Distribution Method:				
Completed by Greenscapes North Shore Coalition under contract to Ipswich. Workshop/Seminar reintroduced the basics of low impact development and its importance. MS4 requirements, as they relate to LID were discussed and Fred Civian (MassDEP) provided tips for designing and passing municipal ordinances to promote LID.				
Targeted Audience: Developers (construction)				
Responsible Department/Parties: External Contractor				
Measurable Goal(s):				
Attended by 35. Presentation PDF and "Tip Sheet" sent to municipal contacts and was temporarily available				

on Greenscapes website.  Message Date(s): Jan-17-19	
Message Date(s): Jan-17-19	
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: SOAK UP THE RAIN PRESENTATION	
Message Description and Distribution Method:	
Completed by Greenscapes North Shore Coalition under contract to Ipswich.  Public presentation held at Nahant Life Saving Station, sponsored by Nahant SWIM, hosted by Presentation conducted by Greenscapes representative, Barbara Warren, executive director of Coastwatch. Barbara shared natural ways to slow the flow of rainwater, including the planting designed to capture and absorb rainwater. In these times of unusually high rates of rainfall, sn stormwater management, such as a rain garden, is very important for all our communities to h pollution and flooding of our basements, land, driveways and streets.	Salem Sound g of gardens nall-scale
Targeted Audience: Residents	
Responsible Department/Parties: External Contractor	
Measurable Goal(s):	
Attended by 35	
Message Date(s): Mar-6-19	
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: GREENSCAPES 101 & WATER TALK PRESENTATION**

Message Description and Distribution Method:

Completed by Greenscapes North Shore Coalition under contract to Ipswich.

Public presentation hosted by the Lynnfield Conservation Commission and Planning Department. Presenters included the Lynnfield Water District and Lynnfield Center Water District directors and Kristen Grubbs, Greenscapes representative and Environmental Planner for the Ipswich River Watershed Association. Topics included a general water conservation and stormwater overview, discussion of the watershed's issues and concerns, followed by solutions – including homeowner greenscaping practices and municipal solutions.

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Targeted Audience: Residents	
Responsible Department/Parties: External Contractor	
Measurable Goal(s):	
Attended by 30	
Message Date(s): May-15-19	
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:	
Not described in NOI proposal.	
BMP: NEW GREENSCAPES GUIDE	
Message Description and Distribution Method:	
Completed by Greenscapes North Shore Coalition under contract to Ipswich.  A revised version of the comprehensive Greenscapes Guide. A new 24 page magazine (PDI	F) outlining the
importance of small-scale stormwater management and sustainable landscaping. Project ide	
suggestions and best practices included.	
Targeted Audience: Residents	
Responsible Department/Parties: External Contractor	
Measurable Goal(s):	
Sent to 70 municipal contacts and available at www.greenscapes.org/greenscapes-guide/	
Message Date(s): Published on website 6-30-19	
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:	
Revised guide does not include messaging about sewer/septic maintenance. This informatio in other Greenscapes materials and messaging.	n will be delivered
BMP: KEEPING WATER CLEAN SCHOOL PROGRAM	
Message Description and Distribution Method:	
Completed by Greenscapes North Shore Coalition under contract to Ipswich.  Program engages 5th grade students in several activities designed to raise their stormwater a	and water
conservation awareness. Students learn about what a watershed is, what stormwater, ground	

Completed by Greenscapes North Shore Coalition under contract to Ipswich.

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Social media post describing the importance of keeping storm drains clear of leaf de	ebris and litter.
Targeted Audience: Residents	
Responsible Department/Parties: External Contractor	
Measurable Goal(s):	
Sent to 70 municipal contacts for further dissemination, posted on partner social me Twitter) and available at www.greenscapes.org/resources-social-media/	dia platforms (Facebook &
Message Date(s): Created November 2018	
Message Completed for: Appendix F Requirements ☐ Appendix H Requirements	nents 🗌
Was this message different than what was proposed in your NOI? Yes ⊠ No □	]
If yes, describe why the change was made:	_
Was an additional message that was not listed in the NOI.	
Message Description and Distribution Method:  Completed by Greenscapes North Shore Coalition under contract to Ipswich.  Social media post describing many alternatives to traditional road salting practices.  coffee grounds, pickle brine, kitty litter, ashes, sugar beet juice and/or sand were dis	
Targeted Audience: Residents	
Responsible Department/Parties: External Contractor	
Measurable Goal(s):	
Sent to 70 municipal contacts for further dissemination, posted on partner social me Twitter) and available at www.greenscapes.org/resources-social-media/	dia platforms (Facebook &
Message Date(s): Created December 2018	
Message Completed for: Appendix F Requirements  Appendix H Requirements	nents 🗌
Was this message different than what was proposed in your NOI? Yes ⊠ No □	]
If yes, describe why the change was made:	
Was an additional message that was not listed in the NOI.	
BMP: "UN-FLUSHABLES" POST	
Message Description and Distribution Method:	
Completed by Greenscapes North Shore Coalition under contract to Ipswich.	1
Social media post warning residents of the harm caused by flushing "unflushables"	such as q-tips, feminine

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hygiene products, oil, grease, "flushable" wipes, and more in their wastewate that those items belong in the trash!	r systems. The post clearly states
Targeted Audience: Residents	
Responsible Department/Parties: External Contractor	
Measurable Goal(s):	
Sent to 70 municipal contacts for further dissemination, posted on partner soc Twitter) and available at www.greenscapes.org/resources-social-media/	cial media platforms (Facebook &
Message Date(s): Created January 2019	
Message Completed for: Appendix F Requirements  Appendix H Re	quirements [
Was this message different than what was proposed in your NOI? Yes ⊠	No 🗆
If yes, describe why the change was made:	
Was an additional message that was not listed in the NOI.	
BMP: "SCOOP THE POOP" POST	
Message Description and Distribution Method:	
Completed by Greenscapes North Shore Coalition under contract to Ipswich. Social media post educating residents on the harmful bacterial impacts that powaterways and our health, if not properly disposed of.	et waste can have on our
Targeted Audience: Residents	
Responsible Department/Parties: External Contractor	
Measurable Goal(s):	
Sent to 70 municipal contacts for further dissemination, posted on partner soc Twitter) and available at www.greenscapes.org/resources-social-media/	ial media platforms (Facebook &
Message Date(s): Created February 2019	
Message Completed for: Appendix F Requirements ☐ Appendix H Re	quirements [
Was this message different than what was proposed in your NOI? Yes ⊠	No 🗆
If yes, describe why the change was made:	
Was an additional message that was not listed in the NOI.	
BMP: "RAIN GARDENS" POST	
Message Description and Distribution Method:	
Completed by Greenscapes North Shore Coalition under contract to Ipswich.	
Social media post describing the many important benefits rain gardens can be	ve on our waterways by

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retaining and filtering stormwater as it travels through our watershed(s).
Targeted Audience: Residents
Responsible Department/Parties: External Contractor
Measurable Goal(s):
Sent to 70 municipal contacts for further dissemination, posted on partner social media platforms (Facebook Twitter) and available at www.greenscapes.org/resources-social-media/
Message Date(s): Created March 2019
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:
Was an additional message that was not listed in the NOI.
BMP: "CAREFUL LAWN CARE" POST
Message Description and Distribution Method:
Completed by Greenscapes North Shore Coalition under contract to Ipswich.  Social media post describing many different sustainable and earth-friendly landscaping practices. Soil testi mowing routines, watering routines, proper fertilization timing and suggested products are discussed.
Targeted Audience: Residents
Responsible Department/Parties: External Contractor
Measurable Goal(s):
Sent to 70 municipal contacts for further dissemination, posted on partner social media platforms (Facebook Twitter) and available at www.greenscapes.org/resources-social-media/
Message Date(s): Created April 2019
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:
Was an additional message that was not listed in the NOI.
BMP: "WATER SMART" POST
Message Description and Distribution Method:
Completed by Greenscapes North Shore Coalition under contract to Ipswich. Social media post highlighting the importance of thoughtful watering practices such as watering deeply and only when the lawn/plants are "thirsty".

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Targeted Audience: Residents	
Responsible Department/Parties: External Contractor	
Measurable Goal(s):	
Sent to 70 municipal contacts for further dissemination, posted on partner Twitter) and available at www.greenscapes.org/resources-social-media/	r social media platforms (Facebook &
Message Date(s): Created July 2019	
Message Completed for: Appendix F Requirements ☐ Appendix F	I Requirements □
Was this message different than what was proposed in your NOI? Yes	⊠ No □
If yes, describe why the change was made:	
Was an additional message that was not listed in the NOI.	
BMP: RAIN BARREL SALE	· · · · · · · · · · · · · · · · · · ·
Message Description and Distribution Method:	
Completed by Greenscapes North Shore Coalition under contract to Ipsw	ich.
Greenscapes North Shore Coalition hosted a rain barrel sale and created a	associated advertisements that
promoted water conservation and described how using a rain barrel can g	
water use as well as mitigating roof run-off. The barrel sale was open to a	all residents on the North Shore.
Targeted Audience: Residents	
Responsible Department/Parties: External Contractor	
Measurable Goal(s):	
Post sent to 70 municipal contacts, press release sent to 20 local and region with post on Salem Sound Coastwatch Facebook, 520 "engagements on I	
Message Date(s):	
Message Completed for: Appendix F Requirements ☐ Appendix F	I Requirements [
Was this message different than what was proposed in your NOI? Yes	⊠ No □
If yes, describe why the change was made:	
Not described in original NOI	
BMP: THINK BLUE FOWL WATER VIDEO	
Message Description and Distribution Method:	
Completed by Greenscapes North Shore Coalition under contract to Ipsw	
Think Blue Massachusetts "Fowl Water" video defines stormwater and ex	enlains the impact that pollution like

trash, oil, cigarettes and dog poop can have on stormwater and our waterways.

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Targeted Audience: Residents  Responsible Department/Parties: External Contractor			
Outreach/"# of impressions" was evaluated in 9 out of 23 Greenscapes Comm 121,520 impressions were made on Facebook or Youtube. The video was als and is available on the ThinkBlue website and the Greenscapes website at wivideos/.	so sent to 70 municipal contacts		
Message Date(s): Spread by ThinkBlue June 23 - June 30, 2019. Shared furth	her July 2019.		
Message Completed for: Appendix F Requirements ☐ Appendix H Re	equirements [		
Was this message different than what was proposed in your NOI? Yes ⊠	No 🗆		
If yes, describe why the change was made:			
Not described in original NOI			
BMP: MISCELLANEOUS GREENSCAPES TABLING EVENTS  Message Description and Distribution Method:  Completed by Greenscapes North Shore Coalition under contract to Ipswich. Informational table with Greenscapes demonstrations and materials at local cincluding: Grow Spring Expo, Essex STEM Night, Middleton Earth Day, ST Garden Club Plant Sale, MassAudubon Nature Fest, Cape Ann Farmer's Mar Beverly Farmer's Market, North Reading Farmer's Market, Billerica Farmer's Moraine Farm, Wilmington Farmer's Market, Underwater in Salem Sound L Library Lecture Series	community and school events, EAM Night Beverly, Ipswich rket, Rowley Farmer's Market, s Market, Waldorf School at		
Targeted Audience: Residents			
Responsible Department/Parties: External Contractor			
Measurable Goal(s): Miscellaneous.			
Message Date(s): Events held September '18 - May '19. Farmers markets hel	d weekly in the spring/summer.		
Message Completed for: Appendix F Requirements ☐ Appendix H Re	equirements [		
Was this message different than what was proposed in your NOI? Yes ⊠	No 🗆		
If yes, describe why the change was made:			
Not described in original NOI			

# MCM2: Public Participation

Describe the opportunity provided for public involvement in the development of the Stormwater Management Program (SWMP) during the reporting period:
Since the SWMP and IDDE plan were only recently completed, opportunity for public review of the SWMP, compliance with State Public Notice requirements, and annual IDDE training for employees have not yet beer addressed but will occur during the next permit year. This is consistent with the NOI, which stated that SWMP annual review and public comment will begin during 2019. The only difference from the NOI is that quarterly Stormwater Committee meetings will begin 4th quarter 2019.
Was this opportunity different than what was proposed in your NOI? Yes ⊠ No □
Describe any other public involvement or participation opportunities conducted during the reporting period:
MCM3: Illicit Discharge Detection and Elimination (IDDE)  Sanitary Sewer Overflows (SSOs)  Below, report on the number of SSOs identified in the MS4 system and removed during this reporting period.
Number of SSOs identified: 0
Number of SSOs removed: 0
Number of SSOs removed: 0 .  Below, report on the total number of SSOs identified in the MS4 system and removed to date. At a minimum, report SSOs identified since 2013.
Below, report on the total number of SSOs identified in the MS4 system and removed to date. At a minimum,
Below, report on the total number of SSOs identified in the MS4 system and removed to date. At a minimum, report SSOs identified since 2013.
Below, report on the total number of SSOs identified in the MS4 system and removed to date. At a minimum, report SSOs identified since 2013.  Total number of SSOs identified:
Below, report on the total number of SSOs identified in the MS4 system and removed to date. At a minimum, report SSOs identified since 2013.  Total number of SSOs identified:  Total number of SSOs removed:
Below, report on the total number of SSOs identified in the MS4 system and removed to date. At a minimum, report SSOs identified since 2013.  Total number of SSOs identified:  Total number of SSOs removed:  MS4 System Mapping

Screening	of	Outfalls/	Interconnections
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results should in	clude the date, outfall/interconnection identifier, location, weather conditions at time of oitation in previous 48 hours, field screening parameter results, and results from all analyses.
	The outfall screening data is attached to the email submission
	The outfall screening data can be found at the following website:
2	the number of outfalls/interconnections screened during this reporting period.  Number of outfalls screened:
Below, report or	the percent of total outfalls/interconnections screened to date.
P	Percent of total outfalls screened: 0
investigations. A	estigations  asse submit all data collected during this reporting period as part of the dry and wet weather  lso 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:
Below, report or	the number of catchment investigations completed during this reporting period.
7	Number of catchment investigations completed this reporting period: 0
Below, report or	the percent of catchments investigated to date.
P	Percent of total catchments investigated: 0
Optional: Provi	de any additional information for clarity regarding the catchment investigations below:
	entified and an outfall investigation program was developed during Year 1. Dry and wet gations are planned to begin during Year 2 of the permit.
period, and cum date of discovery schedule of remo	tes were found, please submit a document describing work conducted over this reporting ulative to date, including location source; description of the discharge; method of discovery; or, and date of elimination, mitigation, or enforcement OR planned corrective measures and oval.  The illicit discharge removal report is attached to the email submission
	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 during this reporting period.	noved, along with the volume of sewage
Number of illicit discharges identified:	
Number of illicit discharges removed:	
Estimated volume of sewage removed:	[UNITS]
Below, report on the total number of illicit discharges identified and the number of illicit discharges identified and removed since the eg	
Total number of illicit discharges identified:	
Total number of illicit discharges removed:	
Optional: Provide any additional information for clarity regarding planned to be removed below:	illicit discharges identified, removed, or
An IDDE Plan was developed during Year 1 and implementation of 2, including dry weather screening and sampling.	of the IDDE program will begin during Year
Employee Training  Describe the frequency and type of employee training conducted d	luring the reporting period:
Annual employee training will begin in 2019 (Year 2). The progration Town's IDDE Plan and methods to identify illicit discharges, etc. a was stated that training would begin in 2018, but the start date was completed. With the IDDE Plan now complete, training on the Plaquarter of 2019.	am will review the requirements of the as specified in the IDDE Plan. In the NOI it is delayed until the IDDE Plan was
MCM4: Construction Site Stormwar Below, report on the construction site plan reviews, inspections, ar reporting period.	
Number of site plan reviews completed:	
Number of inspections completed:	
Number of enforcement actions taken:	

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

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Describe the status of the post-construction ordinance required to be complete in year 2 of the permit term:

Ipswich adopted a Stormwater Bylaw and Stormwater Regulations in 2010. The regulations include specific requirements for projects designated as Major (those that disturb 10,000 sf or more) and Minor (projects where land alteration is more that 50% of a parcel, but less than 10,000 sf), as well as requirements for the preparation and submittal of a stormwater management plan, a maintenance agreement, erosion and sediment control, construction period and post construction inspections, and provisions that reference LID site planning and the Massachusetts Stormwater Handbook. The Bylaw and Regulations appear to meet the 2016 Permit requirements but both will be reviewed during Year 2.

#### **As-built Drawings**

Describe the status of 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 required to be complete in year 2 of the permit term:

The 2010 Stormwater Regulations includes the following language:

Section 10(A) - "Within ninety (90) days of completion of construction, the DPW may require the submission of Record Drawing(s) prepared by a Massachusetts-licensed Professional Engineer, certifying that the completed project is in accordance with the approved plans and specifications."

Section 9(B) of the regulations addresses Post-Construction Inspections and Maintenance requirements. Specifically, this section requires the following: "At a minimum, inspections shall occur during the first year of operation and at least once every two (2) years thereafter or more frequently as deemed necessary. In addition, a Maintenance Agreement as specified under Section 6.H) of these regulations shall be executed for privately-owned stormwater management systems and shall specify the Responsible Person for conducting long term inspections." Section 9(b)(5) provides a clause that addresses "Failure to Maintain" which provides the Town that authority to correct a violation of the plans or maintenance agreement.

#### 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:

Not yet addressed.			

### **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:

Not yet addressed.			

### **Retrofit Properties Inventory**

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: 380

Number of catch basins cleaned: 380

Total volume or mass of material removed from all catch basins: 24 Cubic Yards

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

Total number of catch basins: 1400

#### If applicable:

Report on the actions taken if a catch basin sump is more than 50% full during two consecutive routine inspections/cleaning events:

As detailed in past annual reports, Ipswich has consistently inspected and cleaned (as needed) all of the catchbasins within its system twice per year. Unfortunately, this past year the awarded contractor failed to meet the contract requirements and did not complete the work under its contract. The Town is in the process of rebidding the work and will have a new contractor under contract shortly to complete the work in accordance with the SWMP.

	a	
<u>Street</u>	Wee	nino
Derect	DITTE	ALL S

The Town implemented a street sweeping program a number of years ago. That plan includes sweeping of non-commercial/non-arterial streets on average 2 times/year, and sweeping of commercial/arterial and critical streets 12 times/year. The Town will be re-evaluating that plan during Year 2. The below volume is an estimate.

estimate.			
Report on street sweeping completed during the	reporting period	d using one of the three	metrics below.
O Number of miles cleaned:			
Volume of material removed:	12	Cubic Yards	
O Weight of material removed:		[UNITS]	
If applicable:			
For rural uncurbed roadways with no catch bas targeted sweeping plan:	ins, describe the	progress of the inspecti	on, documentation, and
Winter Road Maintenance  Describe the status of the written procedures for	or winter road ma	intenance including the	storage of salt and
sand:	n winter road ma	menance merading the	Storage of sait and
To be completed in Year 2.			
Inventory of Permittee-Owned Properties			
Describe the status of the inventory, due in year parks and open spaces, buildings and facilities,	-		
To be completed in Year 2.			
O&M Procedures for Parks and Open Space	es, Buildings and	I Facilities, and Vehic	es and Equipment
Describe the status of the operation and mainte permittee-owned properties (parks and open sp include maintenance activities associated with	aces, buildings a		
To be completed in Year 2.			

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Stormwater Pollution Prevention Plan (SWPPP)	
Describe the status of any SWPPP, due in year 2 of the permit term, for permitted including maintenance garages, public works yards, transfer stations, and other pollutants are exposed to stormwater:	
To be completed in Year 2.	
Below, report on the number of site inspections for facilities that require a SWP1 reporting period.	PP completed during this
Number of site inspections completed:	
Describe any corrective actions taken at a facility with a SWPPP:	
O&M Procedures for Stormwater Treatment Structures  Describe the status of the written procedure for stormwater treatment structure in	naintenance:
To be completed in Year 2.	
Additional Information	
Monitoring or Study Results Results from any other stormwater or receiving water quality monitoring or studies reporting period not otherwise mentioned above, where the data is being used to permit effectiveness must be attached.	
Not applicable	
<ul> <li>The results from additional reports or studies are attached to the</li> <li>The results from additional reports or studies can be found at the</li> </ul>	
If such monitoring or studies were conducted on your behalf or if monitoring or entities were reported to you, a brief description of the type of information gathe described below:	

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Additional Information	
Optional: Enter any additional information relevant to your stormwater maduring the reporting period. Include any BMP modifications made by the Manual Control of the Manual Con	

#### **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 2 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree 🗵

- Complete system mapping Phase I
- Begin investigations of catchments associated with Problem Outfalls
- Develop or modify an ordinance or other regulatory mechanism for post-construction stormwater runoff from new development and redevelopment
- Establish and implement written procedures to require the submission of as-built drawings no later than two years after the completion of construction projects
- Develop, if not already developed, written operations and maintenance procedures
- Develop an inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment; review annually and update as necessary
- Establish a written program detailing the activities and procedures the permittee will implement so that the MS4 infrastructure is maintained in a timely manner
- Develop and implement a written SWPPP for maintenance garages, public works yards, transfer stations, and other waste handling facilities where pollutants are exposed to stormwater
- Enclose or cover storage piles of salt or piles containing salt used for deicing or other purposes
- Develop, if not already developed, written procedures for sweeping streets and municipal-owned lots
- Develop, if not already developed, written procedures for winter road maintenance including storage of salt and sand
- Develop, if not already developed, a schedule for catch basin cleaning
- Develop, if not already developed, a written procedure for stormwater treatment structure maintenance
- Develop a written catchment investigation procedure (18 months)

#### **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

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- Annual training to employees involved in IDDE program
- Update inventory of all known locations where SSOs have discharged to the MS4 in the last 5 years
- 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

Provide any additional details on activities planned for permit year 2 below:							

## Part V: Certification of Small MS4 Annual Report 2019

#### 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: Anthony Marino

Title: Tan Manager

Signature:

Date: 9/30/19

[Signatory may be a duly authorized representative]