Year 2 Annual Report

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

Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form

Unless otherwise noted, all fields are required to be filled out. If a field is left blank, it will be assumed the requirement or task has not been completed. Please ONLY report on activities between July 1, 2019 and June 30, 2020 unless otherwise requested.

Part I: Contact Information

Name	of Municipality or Organi	zation: To	own of Winth	rop			
EPA N	PDES Permit Number: M	IAR04108	85				
Primai	ry MS4 Program Manag	ger Conta	ict Informati	on			
Name:	Steve Calla			Title:	Director of	Public	Works
Street 2	Address Line 1: 100 Kenr	nedy Driv	e				
Street 2	Address Line 2: na						
City:	ity: Winthrop State: MA Zip Code: 02152						
Email:	Email: scalla@town.winthrop.ma.us Phone Number: 617-846-1341						
	water Management Prog P Location (web address):	https://w	ww.town.wii		a.us/departr	nent-pu	blic-works/pages/
Date S	WMP was Last Updated:	June 30,					
If the S	SWMP is not available on	the web	please provid	e the ph	ysical addre	ss:	

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

<i>nere.</i> <u>mps.///</u>	www.cpa.gov/imai/region i	impaired waters an	a 303a tists state	
<u>Impairment(</u>	<u>(s)</u>			
	⊠ Bacteria/Pathogens	☐ Chloride	☐ Nitrogen	☐ Phosphorus
	☐ Solids/ Oil/ Grease (Hy	drocarbons)/ Metals	5	
TMDL(s)				
In State:	☐ Assabet River Phospho	orus 🗵 Bacte	ria and Pathogen	☐ Cape Cod Nitrogen
	☐ Charles River Watersh	ed Phosphorus	☐ Lake and Pond	d Phosphorus
Out of State:	☐ Bacteria/Pathogens	☐ Metals	☐ Nitrogen	☐ Phosphorus
			С	lear Impairments and TMDLs
unchecked. Ac Year 2 Requir ⊠ Compl	eted Phase I of system map	e requested in later . ping	sections.	
	oped a written catchment in	-	-	
Develo operati	oped written procedures to real on and maintenance of com	equire the submission pleted construction	on of as-built drawin sites and added thes	gs and ensure the long term e procedures to the SWMP
	ed or covered storage piles	of salt or piles conta	ining salt used for d	eicing or other purposes
⊠ Develo facilitie	Developed written operations and maintenance procedures for parks and open space, buildings and facilities, and vehicles and equipment and added these procedures to the SWMP			pen space, buildings and WMP
⊠ Develo buildin	oped an inventory of all periogs and facilities, and vehicle	nittee owned faciliti es and equipment ar	es in the categories of added this inventor	of parks and open space, ory to the SWMP
⊠ Compl	eted a written program for I	MS4 infrastructure n	naintenance to reduc	e the discharge of pollutants
⊠ operate	oped written SWPPPs, inclued facilities: maintenance gases where pollutants are expo	arages, public works		ng permittee owned or ons, and other waste handling
any additional impacts of Co		of the above year 2 e requirement that c	requirements could ould not be complet	

Annual	Rec	uirements

\boxtimes	Provided an opportunity for public participation in review and implementation of SWMP and complied with State Public Notice requirements
\boxtimes	Kept records relating to the permit available for 5 years and made available to the public
\boxtimes	The SSO inventory has been updated, including the status of mitigation and corrective measures implemented
	 This is not applicable because we do not have sanitary sewer
	 This is not applicable because we did not find any new SSOs
	 The updated SSO inventory is attached to the email submission
	○ The updated SSO inventory can be found at the following website:
\boxtimes	Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
	Provided training to employees involved in IDDE program within the reporting period
\boxtimes	All curbed roadways were swept at least once within the reporting period
\boxtimes	Updated outfall and interconnection inventory and priority ranking as needed

Optional: If you would like to describe progress made on any incomplete requirements listed above, provide any additional information, and/or if any of the above annual requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

Throughout the permit year, the Town's Department of Public Works held frequent informal conversations between staff members on how to spot illicit discharges and what to do if one is spotted or suspected. Formal training of employees involved in the IDDE program was not completed this past year due to COVID-19 restrictions, but will be prioritized in the upcoming permit year.

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

Annual message was distributed encouraging the proper management of pet waste, including noting and 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)	P	ublic Education and Outreach*
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	\boxtimes	Annual message was distributed encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
* Public education messages can be combined with other public education requirements as applicable (se		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
Appendix H and F for more information)	*	Public education messages can be combined with other public education requirements as applicable (see
	$A_{\underline{j}}$	ppendix 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:

The Town of Winthrop is entirely sewered. Therefore, no septic system maintenance messaging was created.

The Town will disseminate educational materials to dog owners at the time of issuance or renewal of dog licenses in Permit Year 3 and all future Permit Years.
<i>Optional:</i> Use the box below to provide any additional information you would like to share as part of your self-assessment:

Town of Winthrop

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Have you made any changes to your lists of receiving waters, outfalls, or impairments since the NOI was

submitted?

O Yes

Part III: Receiving Waters/Impaired Waters/TMDL

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: 3
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.
<u>BMP:Educational Messages on Town Website</u> Message Description and Distribution Method:
The Town of Winthrop's stormwater webpage includes a bulleted list of general good housekeeping practices pertaining to stormwater including pet waste management, car washing best practices, limited fertilizer use, and refraining from dumping any material into the storm system. Additionally, the webpage includes contact information if illegal dumping into a storm drain is observed at any time.
Targeted Audience: Residents, Businesses
Responsible Department/Parties: Department of Public Works
Measurable Goal(s):
Post educational messages to the Town website and maintain educational content through the permit term.
Message Date(s): Ongoing
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:
Posting to the Town website creates a more accessible message to a wider audience.
BMP:Educational Messages on Town Website

Message Description and Distribution Method:

The Town of Winthrop's Conservation Commission webpage includes an MWRA pamphlet titled "The Auto Industry and Wastewater in the Mystic River." The pamphlet is available year-round and provides an overview of stormwater runoff, pet waste, harmful chemicals, and best management practices businesses can follow to protect water quality.

Targeted Audience: E	Businesses, Commercial Facilities, Dog Owners
Responsible Departme	ent/Parties: Conservation Commission

Town of Winthrop Page	÷ 7
Measurable Goal(s):	
Post educational messages to the Town website and maintain educational content through the permit term	•
Message Date(s): Ongoing	
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:	
Posting to the Town website creates a more accessible message to a wider audience.	
BMP:Think Blue Massachusetts "Fowl Water" Campaign Message Description and Distribution Method:	
Think Blue Massachusetts ran a regional education advertising campaign targeting communities throughouthe Commonwealth, including Winthrop. The campaign consisted of an educational video advertisement helping viewers visualize how pollution from pet waste, motor oil, and trash become stormwater pollution. This advertisement was run from May 16th-June 5th, 2020 on Facebook, Instagram, and YouTube, and wastageted to coalition residents through account information and IP addresses. Think Blue Massachusetts "Fowl Water" video (https://www.thinkbluemassachusetts.org/)	1.
Targeted Audience: Residents	
Responsible Department/Parties: Think Blue Massachusetts, Winthrop Department of Public Works	
Measurable Goal(s):	
Per the Notice of Intent, the measurable goal for this BMP was to deliver these messages seasonally and annually by posting to the Web. Because this advertisement campaign was run online, this measurable goal has been met for the topic of pet waste. Message effectiveness was assessed with a survey conducted at the close of the advertising campaign of Massachusetts residents in the areas where the campaign ran: 17% of survey respondents recalled seeing the video (up from 8% in 2018 and 15% in 2019) Those who recalled seeing the video were more likely to correctly answer that stormwater pollution ends up in local waterways (comparable to 2018 and 2019) Those who recalled seeing the video rated polluted runoff as a more serious threat to waterways than those who didn't recall seeing the video (Comparable to 2018 and 2019)	al
Message Date(s): May 16 to June 5, 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: To be Delivered in Permit Year 3 Message Description and Distribution Method: In Permit Year 3: Educational notices will be distributed to four target audiences: residents, businesses/institutions/commercial facilities, developers, and industrial facilities and will include discussions of bacteria and pathogen issues (Winthrop's receiving water impairments). Outreach to the four target audiences will be distributed through bill inserts, at Town offices, and on the Town's website. The Building Permitting and Enforcement Department will provide brochures to developers during building permit applications and the Town Clerk will provide brochures to residents during dog licensing. The bacteria and pathogen-related notices will be distributed seasonally as noted below: The Town will provide annual educational materials to owners of septic systems in areas that discharge into bacteria and pathogen impaired water bodies about proper system maintenance. The Town will also provide educational materials to dog owners about proper pet waste management. Pet waste messaging will be distributed annually and during the issuance or renewal of a dog license. Targeted Audience: Residents, Businesses, Developers, and Industrial Facilities Responsible Department/Parties: Multiple Measurable Goal(s): Deliver educational materials to all four target audiences throughout the Permit Year. Message Date(s): To be delivered in Permit Year 3 Message Completed for: Appendix F Requirements Appendix H Requirements Was this message different than what was proposed in your NOI? Yes O No •

Add an Educational Message

If yes, describe why the change was made:

MCM2: Public Participation

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

The Town of Winthrop had their SWMP available for review and comment at the Department of Public Works and posted on their website.

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 Number of SSOs removed: Number of SSOs identified: Number of SSOs removed: Number of SSOs identified: Number of SS	Fown of Winthrop	Page 9
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	☐ Initial catchment delineations	
additional status information regarding your map:	Optional: Describe any additional progress you made on your map during this reporting padditional status information regarding your map:	period or provide
The Town of Winthrop's MS4 map has been updated to reflect any outfall and catchment screening		screening

Screening of Outfalls/Interconnections

If conducted, please submit any outfall monitoring results from this reporting period. Outfall monitoring results should include the date, outfall/interconnection identifier, location, weather conditions at time of sampling, precipitation in previous 48 hours, field screening parameter results, and results from all analyses.

Town of Winthrop	Page 10
•	The outfall screening data is attached to the email submission
0	
Below, report	on the number of outfalls/interconnections screened during this reporting period.
	Normalism of control to the control of the control
	Number of outfalls screened: 0
Catchment In	vestigations
	blease submit all data collected during this reporting period as part of the dry and wet weather
	Also include the presence or absence of System Vulnerability Factors for each catchment.
	The catchment investigation data is attached to the email submission
\circ	The catchment investigation data can be found at the following website:
Below, report	on the number of catchment investigations completed during this reporting period.
	Number of catchment investigations completed this reporting period: 0
Below, report	on the percent of catchments investigated to date.
	Percent of total catchments investigated: 5
Optional: Pro	vide any additional information for clarity regarding the catchment investigations below:
Prior to July 1	, 2018 (the effective date of the MS4-2016 permit), the Town of Winthrop inspected 51 outfalls
	creening rounds during the Novembers of 2015 and 2016. Out of the 51 outfalls screened, only
10 had dry-we	eather flows. These were then sampled. The breakdown of those 10 samples is as follows:
Eive (5) outf	Call garagning gamples were taken during the Nevember 2015 sampling round in accordance with
the MS4-2003	fall screening samples were taken during the November 2015 sampling round in accordance with
	arameters: Ammonia, Chlorine, Enterococcus, and Surfactants
1 0	hods: Laboratory Analysis (Enterococcus, Surfactants, Ammonia) and Hach Chlorine Pocket
Colorimeter (
• Five (5) outf	Fall screening samples were taken during the November 2016 sampling round in accordance with
the MS4-2016	
	arameters: Ammonia, Chlorine, Enterococcus, Surfactants, Conductivity, Salinity, Temperature,
	iform (Pollutant of Concern)
Testing Met	hods: Laboratory Analysis (Enterococcus, Surfactants, Ammonia), Hach Chlorine Pocket
Colorimeter (Chlorine), and Chemetrics K-9400 Field Test Kit (Surfactants)
Specific outfa	ll IDs, locations, and sampling results can be found in the Winthrop Historic Outfall Screening
_	, attached to the email submission of this annual report.
	,
	tion 2.3.4.7.b.iv of the M4-2016 permit, the Town of Winthrop is requesting the EPA's
_	om re-screening all 51 outfalls inspected prior to the effective date of the MS4-2016 permit; our
request for exe	emption is justified as follows:

• 41 outfalls were observed during the November 2015 and 2016 screening rounds without dry-weather flow.

- 5 outfalls were sampled in November 2015 with sampling protocols substantially equivalent to the requirements of section 2.3.4.7.b.iii.4. of the MS4-2016 permit. All 5 of these outfalls discharge to Winthrop Bay, which has no pollutant of concern (POC) sampling requirements.
- 5 outfalls were sampled in November 2016 with sampling protocols equivalent to the requirements of section 2.3.4.7.b.iii.4. of the MS4-2016 permit. Of these 5 outfalls, 3 discharge to Winthrop Bay, which has no POC sampling requirements, and 2 discharge to Boston Harbor, which requires sampling for Fecal Coliform. All 5 outfalls were sampled for Fecal Coliform.

We believe that the data gathered during the inspections of these 51 outfalls provides sufficient preliminary information to progress the Town of Winthrop's IDDE program. The Town of Winthrop has already initiated catchment investigation procedures in suspected areas and in compliance with the MS4-2016 permit.

No outfall screening was conducted during Permit Year 2. Catchment and building investigations will begin following Permit Year 3 outfall screening and reprioritization activities.

IDDE Progress

of removal.	cement OR planned corrective measures and		
○ The illicit discharge removal report is attached	to the email submission		
The illicit discharge removal report can be found at the following website:			
eport on the number of illicit discharges identified and	d removed, along with the volume of sewage		
eport on the number of illicit discharges identified and during this reporting period. Number of illicit discharges identified: 0	d removed, along with the volume of sewage		
during this reporting period.	d removed, along with the volume of sewage		

Total number of illicit discharges identified: 0 Total number of illicit discharges removed: 0

Optional: Provide any additional information for clarity regarding illicit discharges identified, removed, or planned to be removed below:

To be conducted in future permit years upon verification of an illicit discharge.

Employee Training

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

Throughout the permit year, the Town's Department of Public Works held frequent informal conversations between staff members on how to spot illicit discharges and what to do if one is spotted or suspected. Formal training of employees involved in the IDDE program was not completed this past year due to COVID-19 restrictions, but will be prioritized in the upcoming permit year.

•	MCM4: Construction Site Stormwater Runoff Control sport on the construction site plan reviews, inspections, and enforcement actions completed during rating period.
	Number of site plan reviews completed: 5
	Number of inspections completed: 800
	Number of enforcement actions taken: 21
•	Enter any additional information relevant to construction site plan reviews, inspections, and nent actions:

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

Ordinance or Regulatory Mechanism

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

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

As-built Drawings

	e measures the MS4 has utilized to r on and maintenance of completed c	*		ngs and ensure long
	oped in future permit years.			
Street Desig	n and Parking Lots Report			
	e status of the street design and park or completed changes to local regu	_		permit term, including
To be devel	oped in future permit years.			
Green Infra	structure Report			
	e status of the green infrastructure restorates making the practice allow	•	ear 4 of the permit term, is	ncluding the findings
To be devel	oped in future permit years.			
Retrofit Pro	operties Inventory			
	e status of the inventory, due in year or retrofitted with BMPs to mitigate retrofitted:	_	_	
To be devel	oped in future permit years.			
	MCM6:	Good Hou	sekeeping	
-	<mark>t Cleaning</mark> rt on the number of catch basins ins _t m the catch basins during this repo l	•	eaned, along with the tota	l volume of material
	Number of catch basins inspected	d: 500		
	Number of catch basins cleaned:	500		
	Total volume or mass of materia	l removed fro	om all catch basins: 500	cubic yards

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

Town of Winthrop

Town of Winthrop		Page 14
Total number of catch basins:	1,300	
If applicable:		
Report on the actions taken if a catch basin su inspections/cleaning events:	imp is more	than 50% full during two consecutive routine
spots) and near construction activities (roadw development). If inspections and maintenance the sump is more than 50% full during two constructions.	ay construct e activities in onsecutive ro	ize catch basins located at known problem areas (low ion, residential, commercial, or industrial adicate excessive sediment and debris loading (i.e. butine inspections//cleanings), these catch basins will street sweeping will be utilized to aid in minimizing
Street Sweeping		
Report on street sweeping completed during t	his reportin _?	g period using one of the three metrics below.
O Number of miles cleaned:		
• Volume of material removed:	500	cubic yards
O Weight of material removed:		[Select Units]
O&M Procedures and Inventory of Permits Below, check all that apply. The following permittee-owned properties hav ☐ Parks and open spaces ☐ Buildings and facilities ☐ Vehicles and equipment		•
The following O&M procedures for permittee	-owned prop	perties have been completed:
Stormwater Pollution Prevention Plan (SW Below, report on the number of site inspection reporting period.		es that require a SWPPP completed during this
Number of site inspections cor	mpleted: 0	
Describe any corrective actions taken at a fac	ility with a S	SWPPP:
A SWPPP for the Department of Public Work part of SWPPP development and will be initial	•	as developed in PY2. Inspections were completed as

Additional Information

Monitoring or Study Results

Results from any other stormwater or receiving water quality monitoring or studies conducted during the reporting period not otherwise mentioned above, where the data is being used to inform permit compliance or permit effectiveness must be attached.

, , , , , , , , , , , , , , , , , , ,	Not applicable
0	
0	The results from additional reports or studies can be found at the following website(s):
	ring or studies were conducted on your behalf or if monitoring or studies conducted by other eported to you, a brief description of the type of information gathered or received shall be w:
Additional In	<u>formation</u>
_	er any additional information relevant to your stormwater management program implementation orting period. Include any BMP modifications made by the MS4 if not already discussed above:
COVID-19 In	npacts
	ny of the above year 2 requirements could not be completed due to the impacts of COVID-19,
please identify	y the requirement that could not be completed, any actions taken to attempt to complete the and reason the requirement could not be completed below:

Please confirm that your SWMP has been, or will be, updated to comply with all applicable permit requirements including but not limited to the year 3 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree 🖂

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

Annual Requirements

- Annual report submitted and available to the public
- Annual opportunity for public participation in review and implementation of SWMP
- Keep records relating to the permit available for 5 years and make available to the public
- Properly store and dispose of catch basin cleanings and street sweepings so they do not discharge to receiving waters
- Annual training to employees involved in IDDE program
- Update inventory of all known locations where SSOs have discharged to the MS4
- Continue public education and outreach program
- Update outfall and interconnection inventory and priority ranking and include data collected in connection with the dry weather screening and other relevant inspections conducted
- Implement IDDE program
- Review site plans of construction sites as part of the construction stormwater runoff control program
- Conduct site inspection of construction sites as necessary
- Inspect and maintain stormwater treatment structures
- Log catch basins cleaned or inspected
- Sweep all uncurbed streets at least annually
- Continue investigations of catchments associated with Problem Outfalls
- Review inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment; update if necessary

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

Part V: Certification of Small MS4 Annual Report 2020

40 CFR 144.32(d) Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name:	Austin Faison	Title: Town Manager
	[Signatory may be a duly authorized representative]	Date: 09/22/20