Year 3 Annual Report

Massachusetts Small MS4 General Permit Reporting Period: July 1, 2020-June 30, 2021

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

Unless otherwise noted, all fields are required to be filled out. If a field is left blank, it will be assumed the requirement or task has not been completed. Please ONLY report on activities between July 1, 2020 and June 30, 2021 unless otherwise requested.

Part I: Contact Information

Primary MS4 Program Manager Contact Information Name: Shavaun Callahan Street Address Line 1: 500 Broadway Street Address Line 2: City: Chelsea State: MA Zip Code: 02150 Email: scallahan@chelseama.gov Phone Number: 857-205-9571 Stormwater Management Program (SWMP) Information SWMP Location (web address): https://www.chelseama.gov/public-works/pages/dpw-public-notices-reports Date SWMP was Last Updated: July 2021	Name o	of Municipality or Organi	zation: Ch	nelsea WSD						
Name: Shavaun Callahan Title: Primary Operator/Compliance Manager Street Address Line 1: 500 Broadway Street Address Line 2: City: Chelsea State: MA Zip Code: 02150 Email: scallahan@chelseama.gov Phone Number: 857-205-9571 Stormwater Management Program (SWMP) Information SWMP Location (web address): https://www.chelseama.gov/public-works/pages/dpw-public-notices-reports	EPA N	PDES Permit Number: M	AR04107	77		MGALLAGOTO HANDAGANA				
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	Stormy	water Management Prog	ram (SW	/MP) Inform	nation					
Date SWMP was Last Updated: July 2021	SWMF	Location (web address):	https://w	ww.chelsear	na.gov/p	ublic-works/	pages/c	lpw-publ	ic-notice	s-reports
	Date S	WMP was Last Updated:	July 202	1						
If the SWMP is not available on the web please provide the physical address:	If the S	SWMP is not available on	the web p	please provid	le the ph	ysical addres	ss:			and the state of t

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> </u>			
	☑ Bacteria/Pathogens		☐ Nitrogen	☐ Phosphorus
	Solids/ Oil/ Grease (H	ydrocarbons)/ Metal	S	
TMDL(s)				
In State:	☐ Assabet River Phospho	orus 🔀 Bacte	eria and Pathogen	☐ Cape Cod Nitrogen
	☐ Charles River Watersh	ed Phosphorus	Lake and Pond	l Phosphorus
Out of State:	☐ Bacteria/Pathogens	☐ Metals	☐ Nitrogen	☐ Phosphorus
				ear Impairments and TMDLs
you have con	off all requirements below the substantial permit requires and the different below the substantion will be a substantial to the substantial below the subs	<mark>nent fully.</mark> If you ha	we not completed a r	ch box you are certifying that equirement leave the box
Year 3 Requi	rements			
	eted and screened all outfalls	s/interconnections (excluding Problem ar	nd Excluded outfalls)
⊠ Updat weath	ed outfall/interconnection p er inspections as necessary	riority ranking base	d on the information	collected during the dry
⊠ Post-c with p	construction bylaw, ordinand permit requirements	e, or other regulator	ry mechanism was up	odated and adopted consistent
any additional impacts of C		of the above year 3 ne requirement that	requirements could could not be complete	
TABLES WHITE OF THE STATE OF TH		NAMA AND STATE OF THE STATE OF	A	
Annual Requ	irements			
⊠ Provide with S	ded an opportunity for publi State Public Notice requirem	c participation in re ents	view and implementa	tion of SWMP and complied
⊠ Kept 1	records relating to the permi	t available for 5 yea	rs and made availabl	e to the public
IX!	SO inventory has been updamented	ated, including the s	tatus of mitigation an	d corrective measures
	O This is not applicable			
	O This is not applicable	because we did not	find any new SSOs	

• The updated 550 inventory is attached to the entail submission
O The updated SSO inventory can be found at the following website:
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
☑ All curbed roadways were swept at least once within the reporting period
☑ Updated system map due in year 2 as necessary
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)
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: During this reporting period Chelsea did not own any treatment structures. We are in the process of adding at
least one tree box.
Bacteria/ Pathogens (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable Annual Requirements Public Education and Outreach* Applied Proper management of pet waste, including noting any
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:

Due to Covid, Chelsea is asking that all dog license applications be submitted on-line, by mail or by drop-box (the green mailbox outside of City Hall on Washington Avenue). Therefore, educational material was not submitted at the time of renewal.

An interactive map showing all 35 dog waste stations and cigarette butlers is located on the city web page along with educational material identifying the importance of using them.

https://www.chelseama.gov/sites/g/files/vyhlif396/f/news/pet care fact sheet.pdf

https://www.chelseama.gov/public-works/news/keep-our-rivers-lakes-ponds-and-streams-clean-bag-your-leaves

Chelsea does not allow septic systems.

Chloride

Annual Requirements

Public Education and Outreach

Included an annual message in November/ December to private road salt applicators and commercial industrial site owners on the proper storage and application rates of winter deicing material, along with

industrial site owners on the proper storage and application rates of winter deicing material, along with the steps that can be taken to minimize salt use and protect local waterbodies

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:

https://www.chelseama.gov/public-works/pages/stormwater-pollution-prevention

Solids, Oil and Grease (Hydrocarbons), or Metals

Annual Requirements

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

- Increased street sweeping frequency of all municipal owned streets and parking lots to a schedule that targets areas with potential for high pollutant loads
- Prioritized inspection and maintenance for catch basins to ensure that no sump shall be more than 50 percent full; Cleaned catch basins more frequently if inspection and maintenance activities indicated
- excessive sediment or debris loadings

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:

Chelsea's streets are swept 2X's per side per month. Broadway and Hawthorne Street along with others are swept each weekend. Street sweeping runs from March 1st through December 31st. It would not be practicable to increase this.

Optional: Use the box below to provide any additional information you would like to share as part of your self-assessment:						
Chelsea's busiest dog waste stations have been identified and are emptied every week.						

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

O No

If yes, describe below, including any relevant impairments or TMDLs:

Chelsea's total number of outfalls is 24.

As noted in the annual report for Year 1, the total number of outfalls has changed from 27 to 24. One outfall at the Chelsea River was determined not to be owned by Chelsea. One at Island End was determined to not be an outfall. One outfall at Mill Creek was determined to not be owned by Chelsea.

Additionally, the city has no interconnections. Inter-municipal connections originating in Everett and entering Chelsea's MS4 were previously classified as "interconnections" in annual storm water monitoring reports and Chelsea's NOI, despite meeting the MS4 permit's definition of interconnection.

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: 6
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:City Web Page - Social Media
Message Description and Distribution Method:
Stormwater Management Services information including links to information from Mystic River Watershed Association, USEPA [Polluted Runoff: Nonpoint Source (NPS) Pollution], MWRA [A Healthy Environment Starts at Home], Mass.gov [Stormwater Permit info], SSO information, National Polution System, Discharge Elimination. Recent additions to Chelsea's web page are: On May 7, 2021 "Keep Your Rivers, Lakes, Ponds and Streams CleanBag Your Leaves" https://www.chelseama.gov/public-works/news/keep-our-rivers-lakes-ponds-and-streams-clean-bag-your-leaves
On July 2, 2021 " Pet Waste Increases Storm-water Polution-Pet Care Fact Sheet"
https://www.chelseama.gov/public-works/news/pet-waste-increases-stormwater-pollution
In December "What You Can Do as a Developer" was posted to Chelsea's facebook page.
Targeted Audience: Chelsea residents
Responsible Department/Parties: DPW Operations
Measurable Goal(s):
Chelsea's goal is to centralize all stormwater information in a single web page making the information easier to find.
Message Date(s): The web page is updated frequently throughout the year.
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:

Message Description and Distribution Method:
https://www.chelseama.gov/public-works/pages/stormwater-pollution-prevention "STORMWATER POLLUTION PREVENTION FOR INDUSTRIAL SITES" was distributed through
Chelsea's Chamber of Commerce to Industrial users and posted to the city of Chelsea web page.
Targeted Audience: Industrial facilities
Responsible Department/Parties: DPW Operations
Measurable Goal(s):
The measurement of this goal will be seen in improvements to water quality parameters in the receiving waters.
Message Date(s): May 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:
Continued partnership program with Chelsea GreenRoots Inc and Mystic River Watershed Association. Targeted Audience: Residence
Responsible Department/Parties: DPW Operations
Measurable Goal(s):
DPW and partners plan to conduct public forums on a yearly basis and track the number of attendees. http://www.greenrootschelsea.org/series-informativas-en-espaol
https://resilient.mysticriver.org/our-work https://mysticriver.org/news/2021/3/30/stormwater-pollution-what-young-people-are-thinking? blm_aid=321763329
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 O No •
If yes, describe why the change was made:

Add an Educational Message

MCM2: Public Participation

Describe the opportunity provided for public involvement in the development of the Stormwater Management Program (SWMP) during this reporting period:
Chelsea's Storm-water Management Plan is posted to the City's Web Page. Community input is welcome.
Was this opportunity different than what was proposed in your NOI? Yes O No •
Describe any other public involvement or participation opportunities conducted during this reporting period:
Annual Household Hazardous Waste Day
Event Date: Saturday, July 17, 2021 - 9:00am to 1:00pm
Parking lot at the Mary C. Burke Elementary Complex, 300 Crescent Ave.
dpw collected and disposed of the following items:
anything labeled as Hazardous, Poison, Danger, Warning, or Caution.
Chemicals
Latex and Oil-based paints
Medications
Fluorescent Bulbs
Propane Tanks
Fire Extinguishers
Car Batteries
A great and safe way to clean out your home! Proof of residency is required.
DPW Paint collection is ongoing from April to October on Saturdays between 8 am and 12 pm
Yard waste pickup schedule is posted on the City web page.
https://www.chelseama.gov/public-works/pages/yard-waste-schedule-2021

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 identified: 2	
Number of SSOs removed: 2	
MS4 System Mapping	
Optional: Provide additional status information regarding	your map:
All maping was done in prior years and is updated as need	led.
Screening of Outfalls/Interconnections	
If conducted, please submit any outfall monitoring results results should include the date, outfall/interconnection ide sampling, precipitation in previous 48 hours, field screening Please also include the updated inventory and ranking of output to the second conduction of the conduction of the second conduction of the	ntifier, location, weather conditions at time of ng parameter results, and results from all analyses.
No outfalls were inspected	
The outfall screening data is attached to the	
O The outfall screening data can be found at	the following website:
Below, report on the number of outfalls/interconnections s	creened during this reporting period.
Number of outfalls screened: 24	
Below, report on the percent of outfalls/interconnections s	creened to date.
Percent of outfalls screened: 100	
Optional: Provide additional information regarding your	outfall/interconnection screening:
Chelsea completed its screening per MS4 requirements in completed additional screening and sampling, which meet requirement from a Consent Decree with the EPA. That so 3 Annual Report.	previous permit years. In Permit Year 3, Chelsea the requirements of the MS4 Permit, as a separate
Catchment Investigations	
If conducted, please submit all data collected during this r investigations. Also include the presence or absence of Sys	
• No catchment investigations were conduct	· · · · · · · · · · · · · · · · · · ·
O The catchment investigation data is attached	
O The catchment investigation data can be for	
	J

Below, report on the number of catchment investigations completed during this reporting period.

Number of catchment investigations co	mpleted th	is reporting period: 0
Below, report on the percent of catchments investigate	d to date.	
Percent of total catchments investigated	d: 71	
Optional: Provide any additional information for clari	ty regardin	g the catchment investigations below:
The City of Chelsea is reevaluating IDDE work based		
IDDE Progress		
If illicit discharges were found, please submit a docum period, and cumulative to date, including location sout date of discovery; and date of elimination, mitigation, schedule of removal.	rce; descrij	ption of the discharge; method of discovery;
 No illicit discharges were found 		
O The illicit discharge removal report is a		
C The illicit discharge removal report car	ı be found	at the following website:
Below, report on the number of illicit discharges ident removed during this reporting period.	ified and re	emoved, along with the volume of sewage
Number of illicit discharges identified:	26	
Number of illicit discharges removed:	20	THE STATE OF THE S
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	•	-
Total number of illicit discharges ident	ified: 0	
Total number of illicit discharges remo	ved: 0	
Optional: Provide any additional information for clariplanned to be removed below:	ty regardin	g illicit discharges identified, removed, or
Employee Training		

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

All DPW members participated in our annual MS4/SWMP training in June 2021. The training focused on action items for the DPW crew along with some pertinent information regarding Chelsea's storm water outfalls.

Chelsea WSD	Page 12
MCM4: Construction Site Stormwater Runoff Co Below, report on the construction site plan reviews, inspections, and enforcement a this reporting period.	
Number of site plan reviews completed: 3	
Number of inspections completed: 0	
Number of enforcement actions taken: 0	
Optional: Enter any additional information relevant to construction site plan review enforcement actions:	vs, inspections, and
MCM5: Post-Construction Stormwater Management in New Redevelopment	Development and
-	
<u>As-built Drawings</u> Below, report on the number of as-built drawings received during this reporting pe	eriod.
Number of as-built drawings received: 0	
the annual contract of the second contract of	,
Optional: Enter any additional information relevant to the submission of as-built de	rawings:
	муниция принципутутун да так от от од догум на суманизми на принципутум на суманизми
Street Design and Parking Lots Report	
Describe the status of the street design and parking lots assessment due in year 4 of any planned or completed changes to local regulations and guidelines:	f the permit term, including
The City will begin work on street design and parking lot assessment in FY2022, a report will be complete within the 4 years of the permit effective date.	s outlined in the NOI. The

Chelsea WSD Page 13

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:

The City will begin work on the green infrastructure report in FY2022, as outlined in the NOI. The report will be completed within 4 years of the permit effective date.

Retrofit Properties Inventory

Describe the status of the inventory, due in year 4 of the permit term, of permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas and report on any properties that have been modified or retrofitted:

The City will begin work on retrofit properties inventory in FY2022, as out lined in the NOI, The City will identify a minimum of 5 permittee owned properties that could be modified with BMPs within 4 years of the permit effective date.

MCM6: Good Housekeeping

Catch Basin Cleaning

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

Number of catch basins inspected: 52

Number of catch basins cleaned: 35

Total volume or mass of material removed from all catch basins: 1,289 cubic feet

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

Total number of catch basins: 1,350

If applicable:

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

When a sump is found to be more than 50% full WSD personnel will document the findings, investigate the contributing drainage area for sources of excessive sediment loading, and if possible, address the contributing sources. If no contributing sources are found, WSD will increase the inspection and cleaning frequencies of the sump when practicable.

Street Sweeping

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

Che	gea	WSD
		77.717

COVID-19 Impacts

Optional: If any of the above year 3 requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

Educational material	was not submitted	at the time of do	g license renewal	due to Covid	precautions.

Activities Planned for Next Reporting Period

Please confirm that your SWMP has been, or will be, updated to comply with all applicable permit requirements including but not limited to the year 4 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree 🛛

- Develop a report assessing current street design and parking lot guidelines and other local requirements within the municipality that affect the creation of impervious cover
- Develop a report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist
- Identify a minimum of 5 permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious areas

Annual Requirements

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

Chelsea WSD

- Review inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment; update if necessary
- Review O&M programs for all permittee owned facilities; update if necessary
- Implement all maintenance procedures for permittee owned facilities in accordance with O&M programs
- Implement program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- Enclose all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- Review as-built drawings for new and redevelopment to ensure compliance with post construction bylaws, regulations, or regulatory mechanism consistent with permit requirements
- Inspect all permittee owned treatment structures (excluding catch basins)

Provide any additional details on activities planned for permit year 4 below:				

Part V: Certification of Small MS4 Annual Report 2021

40 CFR 144.32(d) Certification

representative]

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:	Thomas Amborosino	Title:	City Manager
Signature:	Monah (Milon	Date:	09/27/21
1	Signatory may be a duly authorized	l	La constant de la con