Year 6 Annual Report

Massachusetts Small MS4 General Permit Reporting Period: July 1, 2023-June 30, 2024

Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form. Also ensure any websites included on this form are to publicly accessible sites

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, 2023 and June 30, 2024 unless otherwise requested.

Part I: Contact Information

Name of Municipality or Organization: Town of Need	ham
EPA NPDES Permit Number: MAR041237	
Primary MS4 Program Manager Contact Informat	ion
Name: Carys Lustig	Title: Director of Public Works
Street Address Line 1: 500 Dedham Ave	
Street Address Line 2:	
City: Needham State: MA	Zip Code: 02492
Email: clustig@needhamma.gov	Phone Number: (781) 455-7550
N MIP I ocation (minutely available web address).	ps://needhamma.gov/4799/Municipal-Separate-Storm-wer-System-MS
Date SWMP was Last Updated: Jun 30, 2023	
If the SWMP is not available on the web please provide	ie the physical address:

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

	1 0			
Impairment((<u>s)</u>			
	☐ Bacteria/Pathogens	☐ Chloride	☐ Nitrogen	☐ Phosphorus
	⊠ Solids/ Oil/ Grease (H	ydrocarbons)/ Metal	S	
TMDL(s)				
In State:	☐ Assabet River Phospho	orus 🗵 Bacte	eria and Pathogen	☐ Cape Cod Nitrogen
		ed Phosphorus	☐ Lake and Pon	d Phosphorus
Out of State:	☐ Bacteria/Pathogens	☐ Metals	☐ Nitrogen	☐ Phosphorus
			C	Clear Impairments and TMDLs
you have con unchecked. A	npleted that permit require dditional information will b	nent fully. If you ha	ve not completed a	ach box you are certifying that requirement leave the box
Annual Requi				
\boxtimes Provid with S	led an opportunity for publicate Public Notice requirem	c participation in rev ents	view and implement	ation of SWMP and complied
⊠ Kept r	ecords relating to the permi	t available for 5 year	rs and made availab	le 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			
	 This is not applicable because we did not find any new SSOs 			
	The updated SSO inveThe updated SSO inve	•		
	https://needhamma.go			•
□ IIndot			-	
•	ed system map due in year		•	<u> </u>
	led training to employees in	-		
IXI	ly stored and disposed of ca ing waters	atch basin cleanings	and street sweeping	gs so they did not discharge to
⊠ All cui	rbed roadways were swept a	at least once within t	he reporting period	
	sed all road salt storage piles ize the use of road salt	s or facilities and im	plemented winter ro	pad maintenance procedures to
\boxtimes Impler transfe	mented SWPPPs for all perrer stations, and other waste l	nittee owned or oper nandling facilities	rated maintenance g	garages, public works yards,

□ Updated in	nventory of all permittee owned facilities as necessary
⊠ O&M prog	grams for all permittee owned facilities have been completed and updated as necessary
\boxtimes Implement programs	ted all maintenance procedures for permittee owned facilities in accordance with O&M
	ted program for MS4 infrastructure maintenance to reduce the discharge of pollutants
⊠ Inspected a	all permittee owned treatment structures (excluding catch basins)
	would like to describe progress made on any incomplete requirements listed above or provide etails, please use the box below:
Bacteria/ Pathoo	gens (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)
Annual Requirem	
•	ution and Outreach*
	essage was distributed encouraging the proper management of pet waste, including noting any rdinances where appropriate
Permittee renewal of	or its agents disseminated educational material to dog owners at the time of issuance or f dog license, or other appropriate time
	nformation to owners of septic systems about proper maintenance in any catchment that s to a water body impaired for bacteria
	This is not applicable because there are no septic systems present
	cation messages can be combined with other public education requirements as applicable (see and F for more information)
	would like to describe progress made on any incomplete requirements listed above or provide etails, please use the box below:
Solids, Oil and (Annual Requirem	Grease (Hydrocarbons), or Metals
Increased :	street sweeping frequency of all municipal owned streets and parking lots to a schedule that as with potential for high pollutant loads
0	The street sweeping schedule is attached to the email submission
•	The street sweeping schedule can be found at the following publicly available website:
	https://needhamma.gov/4799/Municipal-Separate-Storm-Sewer-System-MS

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Prioritized inspection and maintenance for catch basins to ensure that no sump ⊠ percent full; Cleaned catch basins more frequently if inspection and maintenan excessive sediment or debris loadings	
Optional: If you would like to describe progress made on any incomplete requirement any additional details, please use the box below:	its listed above or provide
Charles River Watershed Phosphorus TMDL	
Below, calculate your current phosphorus export rate by first filling out the individua components (labeled $[A]$, $[B]$, $[C]$, and $[D]$) and then computing your current phosph the equation provided.	
Baseline phosphorus export rate from PCP Area, as identified in Appendix F (lbs/year) [A]:	2,147
Total phosphorus reduction from all nonstructural controls implemented this reporting period (lbs/year) [B] :	20
Total phosphorus reduction from all structural controls installed this reporting period and all previous years (lbs/year) [C]:	27
Phosphorus load increase due to development incurred since 2005 in lbs/year [D] :	0
Current phosphorus export rate from the PCP Area in lbs/year [=A-(B+C)+D from above]:	857
I certify under penalty of law that all source control and treatment Best Manag claimed for phosphorus reduction credit have been inspected, maintained and r with manufacturer or design specification. I certify that, to the best of my know Management Practices being claimed for a phosphorus reduction credit are per designed.	repaired in accordance vledge, all Best
All municipally owned and maintained turf grass areas are being managed in a Massachusetts Regulation 331 CMR 31 pertaining to proper use of fertilizers of	ccordance with on turf grasses
Implemented all nonstructural control measures during this reporting period measures and their phosphorus reduction. The nonstructural control measure in	and documented the aformation:
is attached to the email submission	

Documented the structural control measures implemented during **this reporting period and all**previous years, including location, phosphorus reduction in mass/year, and date of last completed maintenance and inspection for each control. The structural control measure information:

https://needhamma.gov/4799/Municipal-Separate-Storm-Sewer-System-MS

O is not applicable; no structural control measures were implemented

• can be found at the following publicly available website:

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is attached to the email submission	
Can be found at the following publicly available website:	
The Phase 1 PCP: (select one of the following options. If you submitted your PCP last year and have updated website, please include the website below)	an
O was submitted in the Year 5 Annual Report	
is attached to the email submission	
• can be found at the following publicly available website:	
https://needhamma.gov/4799/Municipal-Separate-Storm-Sewer-System-MS	
Optional: If you would like to describe progress made on any incomplete requirements listed above or proviany additional details, please use the box below:	ide
The documentation of each structural control measure remains an ongoing effort and is anticipated to be complete within this calendar year. Specifically regarding the phosphorus reduction in mass/year calculation. The final document will be added to our website following final review and approval.	ns.
NON-TRADITIONAL AND TRANSPORTATION MS4s ONLY- municipalities please skip this section Describe the planned phosphorus reduction activities on site and coordination progress with the applicable	n:
municipality:	
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

lave you made any changes to your lists of receiving waters, outrails, or impairments since the NOI was about the library about the library and the library and the library and the library are some changes to your lists of receiving waters, outrails, or impairments since the NOI was about the library and the library and the library are some library and the libra
○ Yes
No
f yes, describe below, including any relevant impairments or TMDLs:

Part IV: Minimum Control Measures

Please fill out all of the metrics below. If applicable, include in the description who completed the task if completed by a third party.

MCM1: Public Education

Number of educational messages completed during this reporting period: 10
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: Arbor Day Events
Message Description and Distribution Method:
Needham hosts events to promote the planting, care, and appreciation of trees. It aims to raise awareness about the environmental, social, and economic benefits trees provide, such as improving air quality, conserving energy, enhancing wildlife habitats, and beautifying communities. Arbor Day encourages individuals, schools, and organizations to participate in tree-planting activities to foster a healthier environment.
Targeted Audience: Residents
Responsible Department/Parties: DPW Operations
Measurable Goal(s):
Facebook (1,846)
Message Date(s): 4/19/2024, 4/26/2024
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: Septic System Care
Message Description and Distribution Method:
Distributed to all new applicants for septic system in town. Describes the proper care and maintenance of a septic system.
Targeted Audience: Residents
Responsible Department/Parties: Health Department
Measurable Goal(s):
Distributed with Septic System Permits and Certificate of Completions; Brochures available at Health

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Department and on website. (18)	
Message Date(s): 7/1/2023-6/30/2024	
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: Leaf Collection and Disposal	
Message Description and Distribution Method:	
Proper disposal and care of leaves and brush during fall clean-up and throughout the season.	
Targeted Audience: Residents	
Responsible Department/Parties: DPW Operations	
Measurable Goal(s):	
Website posts what is accepted at the RTS at http://www.needhamma.gov/3104/What-We-Takalso welcome to dispose of Leaf Collection every Sunday in November. Facebook (3,246); Instagram (215)	te. Residents are
Message Date(s): 11/2/2023, 11/5/2023, 11/12/2023, 11/19/2023, 11/24/2023, 11/26/2023	
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: Paint Surplus Days Message Description and Distribution Method:	
Needham offers residents Paint Recycle and Reuse events to safely dispose of paint. Improper pollute waterways, harm aquatic life, and contaminate soil and water with heavy metals. Paint up to 700 years to decompose in landfills, and traditional paints often contain harmful additive	waste can take
Targeted Audience: Residents	
Responsible Department/Parties: DPW Operations	
Measurable Goal(s):	
Facebook(3,087); Instagram (293)	

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Message Date(s): 7/14/2023, 7/15/2023, 8/15/2023, 8/19/2023, 9/16/2023, 10/19/2023, 10/21/2024, 4/18/2024, 4/20/2024, 5/13/2024, 5/18/2024, 6/12/2024, 6/15/2024	23,
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: Household Hazardous Waste Day	
Message Description and Distribution Method:	
Needham's Household Hazardous Waste event offers residents a safe way to dispose of hazardou preventing exposure to toxic chemicals and protecting both residents and sanitation workers. Prophelps prevent soil, water, and air contamination, safeguarding ecosystems. These events also educ community on responsible disposal, keeping harmful substances out of landfills and wastewater safety.	per disposal cate the
Targeted Audience: Residents	
Responsible Department/Parties: DPW Operations	
Measurable Goal(s):	
Facebook (2,192); Instagram (79)	
Message Date(s): 10/23/2023, 10/27/2023, 11/1/2023, 11/4/2023	
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: Clear-a-Basin	
Message Description and Distribution Method:	
Communication regarding the importance of keeping catch basins clear of debris.	
Targeted Audience: Residents	
Responsible Department/Parties: DPW Operations	
Measurable Goal(s):	
Facebook (13,820); Instagram (340); Other (317)	

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Message Date(s): 7/10/2023, 8/8/2023, 8/10/2023, 8/18/2023, 10/27/2023, 10/30/2023, 11/21/2023, 11/21/2023, 12/1/2023, 1/8/2024, 1/9/2024, 1/12/2024, 3/6/2	
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: Clear-a-Basin	
Message Description and Distribution Method:	
Communication regarding the importance of keeping catch basins clear of debris.	
Targeted Audience: Businesses, institutions and commercial facilities	
Responsible Department/Parties: DPW Operations	
Measurable Goal(s):	
Facebook (13,820); Instagram (340); Other (317)	
Message Date(s): 7/10/2023, 8/8/2023, 8/10/2023, 8/18/2023, 10/27/2023, 10/30/2023, 11/21/2023, 11/21/2023, 12/1/2023, 1/8/2024, 1/9/2024, 1/12/2024, 3/6/2	
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: Clear-a-Basin	
Message Description and Distribution Method:	
Communication regarding the importance of keeping catch basins clear of debris.	
Targeted Audience: Developers (construction)	
Responsible Department/Parties: DPW Operations	
Measurable Goal(s):	
Facebook (13,820); Instagram (340); Other (317)	

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Message Date(s): 7/10/2023, 8/8/2023, 8/10/2023, 8/18/2023, 10/27/2023, 10/30/2023, 11/6/2023, 11/17/2023, 11/21/2023, 12/1/2023, 1/8/2024, 1/9/2024, 1/12/2024, 3/6/2	1
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: Clear-a-Basin Message Description and Distribution Method:	
Communication regarding the importance of keeping catch basins clear of debris.	
Targeted Audience: Industrial facilities	
Responsible Department/Parties: DPW Operations	
Measurable Goal(s):	
Facebook (13,820); Instagram (340); Other (317)	
Message Date(s): 7/10/2023, 8/8/2023, 8/10/2023, 8/18/2023, 10/27/2023, 10/30/2023, 11/6/2023, 11/17/2023, 11/21/2023, 12/1/2023, 1/8/2024, 1/9/2024, 1/12/2024, 3/6/2	
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: Street Sweeping and Town-wide Cleanup Message Description and Distribution Method: Street sweeping and Town-wide Cleanup Days play a vital role in stormwater management by respectively.	
debris, litter, and pollutants such as oil, sediment, and heavy metals from roadways before they constorm drains. By preventing these materials from entering stormwater systems, street sweeping realist of waterway pollution, improves water quality, and helps maintain the efficiency of drainage infrastructure, reducing the likelihood of flooding. It also prevents clogging in storm drains, ensured overall stormwater flow and protection of local ecosystems.	educes the
Targeted Audience: Residents	
Responsible Department/Parties: DPW Operations	

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Measurable Goal(s):
Facebook (913)
Message Date(s): 9/25/2023, 3/25/2024, 4/7/2024, 4/26/2024
Message Completed for: Appendix F Requirements Appendix H Requirements □
Was this message different than what was proposed in your NOI? Yes O No O
If yes, describe why the change was made:
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:
Was this opportunity different than what was proposed in your NOI? Yes ○ No ●
Describe any other public involvement or participation opportunities conducted during this reporting period
Public participation opportunities for this reporting period included:
RTS Paint Collection RTS Household Hazardous Wests Day
RTS Household Hazardous Waste Day RTS Leaf Collection
Arbor Day Tree distribution (Park and Recreation) and UTube videos on how to plant a tree (Parks & Forestry)
Needham Garden Club Stormwater Presentation
Needham Harvest Fair informational table and watershed demonstration

MCM3: Illicit Discharge Detection and Elimination (IDDE)

Sanitary Sewer Overflows (SSOs)

DPW Public Forum presentation on DPW activities

own of Needham Page	: 13
Check off the box below if the statement is true. This SSO section is NOT applicable because we DO NOT have sanitary sewer	
Pelow, report on the number of SSOs identified in the MS4 system and removed during this reporting perio	od.
Number of SSOs identified: 2	
Number of SSOs removed: 2	
<u> IS4 System Mapping</u>	
Percent of Phase II map complete: 0	
Optional: Provide additional status information regarding your map:	
Fown MS4 assets are available in GIS and to the public upon request from our Engineering Division. Mapure updated during the document review process each year and are included in our SWMP, SWPPP, IDDE D&M and Phosphorus Plans.	
creening of Outfalls/Interconnections f conducted, please submit any outfall monitoring results from this reporting period. Outfall monitoring esults should include the date, outfall/interconnection identifier, location, weather conditions at time of ampling, precipitation in previous 48 hours, field screening parameter results, and results from all analys Please also include the updated inventory and ranking of outfalls/interconnections based on monitoring results.	
O No outfalls were inspected	
 The above referenced outfall screening data is attached to the email submission The above referenced outfall screening data can be found at the following publicly available website: 	e
https://needhamma.gov/4799/Municipal-Separate-Storm-Sewer-System-MS	
Relow, report on the number of outfalls/interconnections screened during this reporting period. Number of outfalls screened: 2	
Below, report on the percent of outfalls/interconnections screened to date.	
Percent of outfalls screened: 100	
Optional: Provide additional information regarding your outfall/interconnection screening: Needham has taken the approach to delineate the Town into sixteen (16) subwatersheds for comprehensive analysis of one (1) per year, at minimum. This resulted in the identification of 2 new outfalls and subsequence screening activities.	
Eatchment Investigations f conducted, please submit all data collected during this reporting period as part of the dry and wet weath avestigations. 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	ver

• The catchment investigation data can be found at the following publicly available website:

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https://needhamma.gov/4799/Municipal-Separate-Storm-Sewer-Sys	stem-MS
Below, report on the number of catchment investigations completed during this reporting period	
Below, report on the percent of catchments investigated to date.	
Percent of total catchments investigated: 16	
Optional: Provide any additional information for clarity regarding the catchment in	nvestigations below:
Catchment investigations are conducted as part of the current CCTV inspection proconnections. The CCTV inspection program is an ongoing program to inspect 10% Town's drainage system every year. The program has proven to be successful in ideand in the future will use composite sampling results to target inspection efforts. Nour in-house capabilities as needed to maintain the inspection commitment. While Needham has historically addressed issues found in catchment areas as they of documenting and performing detailed investigations. 29 catchments can be constheir size (≤ 3 CBs) and water quality indicators out of 182 catchments associated a 16% complete). **IDDE Progress** If illicit discharges were found, please submit a document describing work conduct period, and cumulative to date, including location source; description of the discharded of discovery; and date of elimination, mitigation, or enforcement OR planned as schedule of removal. No illicit discharges were found The illicit discharge removal report is attached to the email submiss of the illicit discharge removal report can be found at the following program to inspect to the program to inspect to the email submiss.	do of the sentifying illicit connections leedham has supplemented arise, we are in the process sidered complete based on with MS4 outfalls (about steed over this reporting arge; method of discovery; corrective measures and sion
The fillett discharge removal report can be found at the following po	ublicity available website.
Below, report on the number of illicit discharges identified and removed, along with removed during this reporting period. Number of illicit discharges identified: 0	h the volume of sewage
Number of illicit discharges removed: 0	
Estimated volume of sewage removed: 0 gallons/day	
Below, report on the total number of illicit discharges identified and removed to dathe number of illicit discharges identified and removed since the effective date of the Total number of illicit discharges identified: 0	

Total number of illicit discharges removed: 0

Optional: Provide any additional information blanned to be removed below:	tion for clarity regarding illicit discharges identified, removed, or
Illicit discharges identified and were remo	oved prior to this permit effective date.

Employee Training

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

Employee training is available via recorded video training for employees with NPDES responsibilities in Needham to take. Managers and supervisors are tasked with ensuring the proper training of their staff members. Employee training of NPDES activities, such as inspections and BMP maintenance, occurs in the field by supervisors and/or as they have designated. Training is recorded in the attached logbook for reference. An in-person training for DPW staff with CCTV responsibilities were also provided a field training by BETA Engineering.

Ment is constitution site storm water runon control
Below, report on the construction site plan reviews, inspections, and enforcement actions completed <mark>during</mark> this reporting period.
Number of site plan reviews completed: 190
Number of inspections completed: 186
Number of enforcement actions taken: 1

MCM4. Construction Site Stormwater Runoff Control

Optional: Enter any additional information relevant to construction site plan reviews, inspections, and enforcement actions:						

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

Ordinance or Regulatory Mechanism

Date update was completed (due in year 3): September 19, 2018					
Website of ordinance or regulatory	https://needhamma.gov/4799/Municipal-Separate-Storm-				
mechanism:	Sewer-System-MS				

As-built Drawings

Below, report on the number of as-built drawings received during this reporting period.

Number of as-built drawings received: 191

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

Needham's Stormwater By-law states:

7.7.3.7 As-Built Drawing

Except as provided for in Section 7. 7.3.4, as-built drawings stamped by a Massachusetts Registered Professional Engineer showing all stormwater management systems shall accompany the as-built Plot Plan at the completion of a project. (213)

Additionally, Planning Board and Zoning Board decisions require an as-built to be submitted.

Street Design and Parking Lots Report

Below, describe any changes made or planned to be made to local regulations and guidelines based on the report completed in Year 4:

The Highway Division provides maintenance and repair services to all Town-owned surface infrastructure, including 260 lane miles of roadway, 160 miles of sidewalk, 246 miles of berm grass/curbing, and several municipal parking lots. The Division oversees all roadway-related construction projects, including curb, sidewalk, and traffic signal installations, as well as street paving.

As surface infrastructure projects are developed, the Highway Division seeks opportunities for impervious pavement reduction and installation or upgrade of stormwater BMPs.

Street design and parking lot specific regulation recommendations under consideration include:

- Allow smaller road width based on traffic flow
- Allow narrower right of way width based on road type
- Require bioretention at cul-de-sac islands
- Allow country drainage and or opening in curbing to all roadside swales/bioretention
- Allow and encourage permeable sidewalks or slope sidewalks to drain to lots
- Provide provisions to reduce parking spaces numbers based on need and/or allow portions of required parking areas to remain lawn area and not be constructed until needed.
- Allow a smaller standard space (9'x18')
- Develop site design checklist to review project site constraints and require inclusion of LID techniques or infiltration

Green Infrastructure Report

Below, describe progress towards making green infrastructure practices allowable based on the report completed in Year 4:

The Assessment of Current Regulations (March 2023) was undertaken with the objective of identifying opportunities to revise municipal regulations to better support LID and green infrastructure options. The review utilized the tool developed by Mass Audubon: Bylaw Review for LID & Climate Smart, Nature-Based Solutions.

Regulations reviewed:

	☐ Zoning By-laws of the Town of Needham (June 2020)
	☐ Subdivision Regulations and Procedural Rules of the Planning Board (1993)
	☐ Article 7 Stormwater (2018)
r	Needham has taken the resulting recommendations under advisement.

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Retrofit Properties Inventory

Below, list remaining permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas (must maintain a minimum of 5 sites in inventory until less than 5 sites remain):

Walker Gordon Field

Conservation Land on the east side of Charles River Street south of Walker Lane

RTS

DPW

Reservoir B Sewage Pumping Station

Defazio Park

Town of Needham

Chestnut/Lincoln St Parking Lot

Claxton Fields

Cricket Fields

Daley Building

Eaton Square Parking Lot

Memorial Park

Ridge Hill Garage

St. Mary Street Water Pumping Station

Needham has developed the Watershed Management Plan to position the Town for the ultimate goal of Total Watershed Management. This plan is intended as a guidance tool in capital improvement planning. A major component of this plan is the delineation of the Town into sixteen (16) subwatersheds. The multi-year subwatershed evaluation plan prioritizes subwatershed areas and provides an opportunity to assess the varied soil types and land uses throughout the town to more effectively evaluate and tailor the resulting BMP recommendations and watershed management techniques. Recommended modifications or installations are evaluated for viability and inclusion during departmental project and the budget planning process. Subsequently, the approved projects are developed into standalone projects, or as a part of a larger capital project as practicable.

Below, list all properties that have been modified or retrofitted with BMPs to mitigate impervious area that were inventoried as part of 2.3.6.d of the permit and the type of BMP(s) implemented. Non-MS4 owned properties that have been modified or retrofitted with BMPs to mitigate impervious area may also be listed, but must be indicated as non-MS4.

Walker Pond Improvements have been underway the past three constructions seasons and have included BMPs such as reduced pavement, a filter strip, town sewer access, additional drainage units, water quality treatments and control structure replacement and upgrade. The field adjacent to the pond is also being retrofit with additional drainage and infiltration improvements that are anticipated to be completed by the end of this calendar year.

Claxton Field has received funding and approval for remediation activities that will incorporate some additional mitigation BMPs. That work is anticipated to be reported on the 2025 NPDES Annual Reporting documentation.

MCM6: Good Housekeeping

Catch Basin Cleaning

Below,	report e	on the	number	of catch	basins	inspected	and	cleaned,	along	with	the i	total	volume	of i	materia	l
remove	ed from	the cat	ch basin	s during	this re	eporting p	erio	d.								

Number of catch basins inspected: 1,492 Number of catch basins cleaned: 1,492 Total volume or mass of material removed from all catch basins: 151.49 cubic yards Below, report on the total number of catch basins in the MS4 system. Total number of catch basins: 4,311 If applicable: Report on the actions taken if a catch basin sump is more than 50% full during two consecutive routine inspections/cleaning events: Needham has a three-line defense approach for maintaining its MS4 infrastructure to prevent the discharge of pollutants from the MS4 system. If a catch basin is reported to have been >50% full during two consecutive events, the basin will be flagged for review by the Water and Sewer Division for additional investigation as to the root cause of the excessive volume of material. Appropriate mitigation efforts will be made to augment the basin, area or drain as applicable to reduce the level of material present at the next scheduled inspection/ cleaning event. As a second line of defense, the drain is inspected with CCTV and flushed of any excessive sediment. Needham also has a brook and culvert program designed to catch large amounts of sediment that may have been missed through catch basin cleaning and drain flushing efforts. Should such mitigation efforts result in no significant change in volume of material, the catch basin will be flagged for additional inspections/ cleanings on a more frequent basis to be determined by the Water and Sewer Division. **Street Sweeping** Report on street sweeping completed during this reporting period using one of the three metrics below. O Number of miles cleaned: O Volume of material removed: [Select Units] • Weight of material removed: 288.2 tons

Stormwater Pollution Prevention Plan (SWPPP)

Below, report on the number of site inspections for facilities that require a SWPPP completed during this reporting period.

Number of site inspections completed	: 7
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Describe any corrective actions taken at a facility with a SWPPP:

Per findings on inspection reports, in conjunction with regular maintenance, identified areas cleaned or repaired as needed.

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.

0	Not applicable
\circ	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 publicly available $website(s)$:
	https://needhamma.gov/4799/Municipal-Separate-Storm-Sewer-System-MS

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:

Needham has taken the approach to delineate the Town into sixteen (16) subwatersheds for comprehensive
analysis of one (1) per year, at minimum, with the following goals:
☐ Stormwater System data collection and assessment
☐ Creation/Improvement of Town stormwater regulations and bylaws
☐ Outfall sampling and monitoring
☐ Improve receiving water quality
☐ Inventory of Town BMPs/LIDs
☐ Identify opportunities to implement infiltration/BMPs/LIDs
□ Public Education
☐ Operation and Maintenance of MS4 infrastructure

Additional Information

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.

Needham has continued to face staffing challenges and the impacts of severe weather events have required the diversion of resources to respond to emergency issues. The town remains committed to the NPDES program and is actively pursuing projects to help us reach our goals in stormwater management. Needham has engaged contractors as needed and continues to comply with requirements while also looking at tools and strategies for continued improvement. The success of the completed categories of the pilot improvement project has provided further confidence in our subwatershed approach and we look forward to sharing the progress on subsequent analysis, design and construction activities as we move towards Total Watershed Management within our community.

Year 7

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 7 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree 🗵

- Complete investigations of catchments associated with Problem Outfalls
- Complete investigations of catchments where any information gathered on the outfall/interconnection identifies sewer input

Annual Requirements

- Annual report submitted and available to the public
- Annual opportunity for public participation in review and implementation of SWMP
- Keep records relating to the permit available for 5 years and make available to the public
- Properly store and dispose of catch basin cleanings and street sweepings so they do not discharge to receiving waters
- Annual training to employees involved in IDDE program
- Update inventory of all known locations where SSOs have discharged to the MS4
- Continue public education and outreach program
- Update outfall and interconnection inventory and priority ranking and include data collected in connection with the dry weather screening and other relevant inspections conducted
- Implement IDDE program
- Review site plans of construction sites as part of the construction stormwater runoff control program
- Conduct site inspection of construction sites as necessary
- Inspect and maintain stormwater treatment structures
- Log catch basins cleaned or inspected
- Sweep all curbed streets at least annually
- Continue investigations of catchments associated with Problem Outfalls
- Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities
- Review inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment; update if necessary
- Review O&M programs for all permittee owned facilities; update if necessary
- Implement all maintenance procedures for permittee owned facilities in accordance with O&M programs
- Implement program for MS4 infrastructure maintenance to reduce the discharge of pollutants
- Enclose all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt
- Review as-built drawings for new and redevelopment to ensure compliance with post construction bylaws, regulations, or regulatory mechanism consistent with permit requirements
- Inspect all permittee owned treatment structures (excluding catch basins)
- 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 7 below:					

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Part V: Certification of Small MS4 Annual Report 2024

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:	Carys Lustig	Title:	DPW Director
	Signatory may be a duly authorized	Date:	9/26/2024
1	representative]		