Year 8 Annual Report
Massachusetts Small MS4 General Permit
New Permittees
Reporting Period: July 1, 2025-June 30, 2026

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 publicly accessible

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, 2025 and June 30, 2026 unless otherwise requested.

Part I: Contact Information

Name of Municipality or Organization: Town of Dunstable

EPA NPDES Permit Number: MAR041242

Primary MS4 Program Manager Contact Information

Name: Jason Silva Title: Town Administrator

Street Address Line 1: 511 Main Street

Street Address Line 2:

City: Dunstable State: MA Zip Code: 01827

Email: jsilva@dunstable.ma.gov Phone Number: (978) 649-4514

Stormwater Management Program (SWMP) Information

SWMP Location (web address): https://www.dunstable-ma.gov/stormwater-ms4/pages/stormwater-management-plan

Date SWMP was Last Updated: Jun 30, 2026

If the SWMP is not available on the web please provide 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.

Impairment(s)

☐ Bacteria/Pathogens ☐ Chloride ☐ Nitrogen ☒ Phosphorus
☐ Solids/ Oil/ Grease (Hydrocarbons)/ Metals

TMDL(s)

In State: ☐ Assabet River Phosphorus ☐ Bacteria and Pathogen ☐ Cape Cod Nitrogen
☐ Charles River Watershed Phosphorus ☐ Lake and Pond Phosphorus

Out of State: ☐ Bacteria/Pathogens ☐ Metals ☐ Nitrogen ☐ Phosphorus

Clear Impairments and TMDLs

Next, check off all requirements below that have been completed. ***By checking each box you are certifying that you have completed that permit requirement fully.*** *If you have not completed a requirement leave the box unchecked. Additional information will be requested in later sections.*

Annual Requirements

☒ Provided an opportunity for public participation in review and implementation of SWMP and complied with State Public Notice Requirements

☒ Kept records relating to the permit available for 5 years and made available to the public

☒ The SSO inventory has been updated, including the status of mitigation and corrective measures implemented

- ◉ This is not applicable because we do not have sanitary sewer
- ○ 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 publicly available website:

☒ Updated the outfall and interconnection inventory and priority ranking as necessary

- ◉ The priority ranking of outfalls/interconnections is attached to the email submission
- ○ The priority ranking of outfalls/interconnections can be found at the following website:

☒ Updated system map due in year 5 as necessary

☒ Provided training to employees involved in IDDE program within the reporting period

☒ Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters

☒ All curbed roadways were swept at least once within the reporting period

☒ Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities

☒ Enclosed all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt

☒ 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 or provide any additional details, please use the box below:

Phosphorus (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)

Annual Requirements

*Public Education and Outreach**

☒ Distributed an annual message in the spring (April/May) that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release and phosphorus-free fertilizers

☒ Distributed an annual message in the summer (June/July) encouraging the proper management of pet waste, including noting any existing ordinances where appropriate

☒ Distributed an annual message in the fall (August/September/October) encouraging the proper disposal of leaf litter

** Public education messages can be combined with other public education requirements as applicable (see Appendix H and F for more information)*

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

☐ Increased street sweeping frequency of all permittee owned streets and parking lots subject to Permit part 2.3.7.a.iii.(c) to a minimum of two times per year (spring and fall)

Structural BMPs

☐ Installed a structural BMP as a demonstration project within the drainage area of the water quality limited water or its tributaries. The type of BMP installed is *(e.g. biofiltration):*

Total estimated phosphorus removed in **lbs/year** from the installed BMPs: 0

☐ Any structural BMPs listed in Attachment 3 of Appendix F already existing or installed in the regulated area in the catchment/watershed by the permittee or its agents was tracked and the phosphorus removal by the BMP was estimated consistent with Attachment 3 to Appendix F. The BMP type, total area treated by the BMP, the design storage volume of the BMP and the estimated phosphorus removed in mass per year by the BMP were documented.

- (●) No BMPs were installed
- ( ) The BMP information is attached to the email submission
- ( ) The BMP information can be found at the following website:

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:

Optional: Use the box below to provide any additional information you would like to share as part of your self-assessment:

As an allowed alternative to street sweeping, the Town implemented a fall leaf pick-up program.

From the 2024 Phosphorus Source Identification Report, the 3 locations where phosphorus was sampled to be above 0.1 m/L were investigated for practical application of a structural BMP. H1-1 was in the closest proximity to the Nashua River and was first reviewed. It was determined through field investigation that the basin receives seasonal flow and was mostly dry. Stormwater leaving the basin was determined to travel west, to a depressed natural basin above the elevation of the Nashua River, with no observed outlet to the Nashua, indicating that water levels never reached a point where water would directly discharge to the Nashua. Discharge from A8-2 and A8-1 were mapped to reach a Stormwater Control Measure where phosphorus would have the opportunity to attenuate before being released to the Unkety Brook tributary. No water was observed in either basin location. These areas continue to be monitored, and were included in the Year 8 outfall screening.

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? 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

- ○ Yes
- ◉ No

If 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**: 13

*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:Stormwater Management for Small Businesses

Message Description and Distribution Method:

"Stormwater Management for Small Businesses" educates small business owners on property maintenance tips, disposal of hazardous waste, grease traps, and preventing stormwater pollution. The message is available on the Town Stormwater/MS4 web page, and via subscription to E-Alerts.

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: Town Administrator's Office

Measurable Goal(s):

The number of views on the Town website and the number of subscriptions to E-Alerts can be counted.

Message Date(s): 7/1/2025 to 6/30/2026

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:

Measurable goals were adjusted to account for digital distribution of the message on the web page and through E-Alerts.

BMP:Make Your Business the Solution to Stormwater Pollution

Message Description and Distribution Method:

"Make Your Business the Solution to Stormwater Pollution"educates business owners on best practices in the topics of car fleet cleaning, parking lots, winter weather care, building maintenance and storage, and pet care. The message is available on the Town Stormwater/MS4 web page and via subscription to E-Alerts.

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: Town Administrator's Office

Measurable Goal(s):

The number of views on the Town website and the number of subscriptions to E-Alerts can be counted.

Message Date(s): 7/1/2025 to 6/30/2026

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:

Measurable goals were adjusted to account for digital distribution of the message on the web page and through E-Alerts.

BMP:Automotive Industry Guide For Stormwater

Message Description and Distribution Method:

"Automotive Industry Guide for Stormwater" educates automotive businesses on best practices specific to their industry, such as engine and parts cleaning, body repair and painting, and managing vehicle fluids. The message is available on the Town Stormwater/MS4 web page, andvia subscription to E-Alerts.

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: Town Administrator's Office

Measurable Goal(s):

The number of views on the Town website and the number of subscriptions to E-Alerts can be counted.

Message Date(s): 7/1/2025 to 6/30/2026

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:

Measurable goals were adjusted to account for digital distribution of the message on the web page and through E-Alerts.

BMP:Stormwater Guide For Small Businesses

Message Description and Distribution Method:

Outlines best practices for small businesses on the topic of dumpsters, cleaning outdoor areas, general cleaning, landscaping, irrigation, hardscapes. Provides educational material on preventing stormwater pollution and common pollutants. The message is available on the Town Stormwater/MS4 web page and via subscription to E-Alerts.

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: Town Administrator's Office

Measurable Goal(s):

The number of views on the Town website and the number of subscriptions to E-Alerts can be counted.

Message Date(s): 7/1/2025 to 6/30/2026

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:

Measurable goals were adjusted to account for digital distribution of the message on the web page and through E-Alerts.

BMP: Stormwater Guidance for Contractors and Developers

Message Description and Distribution Method:

A link on the Town website that points contractors and developers to the Mass.gov Stormwater Permitting page. The link is available on the Town Stormwater/MS4 web page and via subscription to E-Alerts.

Targeted Audience: Developers (construction)

Responsible Department/Parties: Town Administrator's Office

Measurable Goal(s):

The number of views on the Town website and the number of subscriptions to E-Alerts can be counted.

Message Date(s): 7/1/2025 to 6/30/2026

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:

Measurable goals were adjusted to account for digital distribution of the message on the web page and through E-Alerts.

BMP: After the Storm: A Citizen's Guide to Understanding Stormwater

Message Description and Distribution Method:

"After the Storm: A Citizen's Guide to Understanding Stormwater" helps residents understand what stormwater runoff is, why it is a problem, and the effects of pollution, supported by simple solutions that residents can follow. The message is available on the Town Stormwater/MS4 web page and via subscription to E-Alerts.

Targeted Audience: Residents

Responsible Department/Parties: Town Administrator's Office

Measurable Goal(s):

The number of views on the Town website and the number of subscriptions to E-Alerts can be counted.

Message Date(s): 7/1/2025 to 6/30/2026

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:

Measurable goals were adjusted to account for digital distribution of the message on the web page and through E-Alerts.

BMP:Protecting Your Lake or Pond From Stormwater Pollution

Message Description and Distribution Method:

"Protecting Your Lake or Pond from Stormwater Pollution" educates residents who live near lakes and ponds on the impact they can have on the health of a lake. The message includes steps to prevent and reduce stormwater pollution and best management practices. The message educates the public on reducing and eliminating nutrients and bacteria, encouraging infiltration and controlling sedimentation, and lake water quality. The message is available on the Town Stormwater/MS4 web page and via subscription to E-Alerts.

Targeted Audience: Residents

Responsible Department/Parties: Town Administrator's Office

Measurable Goal(s):

The number of views on the Town website and the number of subscriptions to E-Alerts can be counted.

Message Date(s): 7/1/2025 to 6/30/2026

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:

Measurable goals were adjusted to account for digital distribution of the message on the web page and through E-Alerts.

BMP:Pet Waste Disposal

Message Description and Distribution Method:

"Dog Waste & Surface Water Quality" educated residents on the polluting affects of dog waste to streams,

ponds, rivers, and lakes. The message described the individual action that can be taken to reduce the amount of dog waste entering the stormwater system. The message is available on the Town Stormwater/MS4 web page and via subscription to E-Alerts.

Targeted Audience: Residents

Responsible Department/Parties: Town Administrator's Office

Measurable Goal(s):

The number of views on the Town website and the number of subscriptions to E-Alerts can be counted.

Message Date(s): 7/1/2025 to 6/30/2026

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:

Measurable goals were adjusted to account for digital distribution of the message on the web page and through E-Alerts.

BMP:Make Your Home the Solution to Stormwater Pollution

Message Description and Distribution Method:

"Make Your Home the Solution to Stormwater Pollution" educates residents on protecting our local waterways from pollution. The message includes best management practices for cars and driveways, lawn and garden, home repair and improvement, swimming pool, septic system maintenance, and pet care. The message is available on the Town Stormwater/MS4 web page and via subscription to E-Alerts.

Targeted Audience: Residents

Responsible Department/Parties: Town Administrator's Office

Measurable Goal(s):

The number of views on the Town website and the number of subscriptions to E-Alerts can be counted.

Message Date(s): 7/1/2025 to 6/30/2026

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:

Measurable goals were adjusted to account for digital distribution of the message on the web page and through E-Alerts.

BMP:Natural Yard Care

Message Description and Distribution Method:

"A Homeowner's Guide to Environmentally Sound Lawncare" educates residents on changes they can make in their yard care to protect the
environment. The message includes tips for composting, mulching, reducing fertilizers and pesticides, and smart watering. The message is available on the Town Stormwater/MS4 web page, via subscription to E-Alerts, and in person at the Town Hall.

Targeted Audience: Residents

Responsible Department/Parties: Town Administrator's Office

Measurable Goal(s):

The number of views on the Town website and the number of subscriptions to E-Alerts can be counted.

Message Date(s): 7/1/2025 to 6/30/2026

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:

Measurable goals were adjusted to account for digital distribution of the message on the web page and through E-Alerts.

BMP:What You Can Do As A Citizen - Stormwater

Message Description and Distribution Method:

"What You Can Do As a Citizen - Stormwater" educates residents on best management practices for landscaping, car washing, pet waste, and household waste. The message is available on the Town Stormwater/MS4 web page and via subscription to E-Alerts.

Targeted Audience: Residents

Responsible Department/Parties: Town Administrator's Office

Measurable Goal(s):

The number of views on the Town website, the number of subscriptions to E-Alerts, and the number of brochures picked up from the Town Hall can be counted.

Message Date(s): 7/1/2025 to 6/30/2026

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:

Measurable goals were adjusted to account for digital distribution of the message on the web page and through E-Alerts.

BMP:Phosphorus in the Charles River - What You Should Know

Message Description and Distribution Method:

"Phosphorus in the Charles River - What You Should Know" educates residents on the consequence of too much phosphorous entering the Charles and what you can do to prevent it. The message is available on the Town Stormwater/MS4 web page and via subscription to E-Alerts.

Targeted Audience: Residents

Responsible Department/Parties: Town Administrator's Office

Measurable Goal(s):

The number of views on the Town website, the number of subscriptions to E-Alerts, and the number of brochures picked up from the Town Hall can be counted.

Message Date(s): 7/1/2025 to 6/30/2026

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:

Measurable goals were adjusted to account for digital distribution of the message on the web page and through E-Alerts.

BMP:Small Scale Solutions for your Farm - Runoff Management

Message Description and Distribution Method:

"Small Scale Solutions for your Farm - Runoff Management" educates farmers on protecting water quality. The message includes best management practices in reducing erosion through diversions and waterways, roof runoff control, heavy use area protection, and vegetated buffers. The message is available on the Town Stormwater/MS4 web page and via subscription to E-Alerts.

Targeted Audience: Farmers

Responsible Department/Parties: Town Administrator's Office

Measurable Goal(s):

The number of views on the Town website and the number of subscriptions to E-Alerts can be counted.

Message Date(s): 7/1/2025 to 6/30/2026

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:

Measurable goals were adjusted to account for digital distribution of the message on the web page and through E-Alerts.

BMP:Small Farm Guide to Protect Water Quality

Message Description and Distribution Method:

"Small Farm Guide to Protect Water Quality" educates farmers on their overall effect in a watershed. The message uses the Taunton River Watershed as an example, and provides farmers with best management practices for controlling runoff from sedimentation, nutrients, and pesticides. The message is available on the Town Stormwater/MS4 web page and via subscription to E-Alerts.

Targeted Audience: Farmers

Responsible Department/Parties: Town Administrator's Office

Measurable Goal(s):

The number of views on the Town website and the number of subscriptions to E-Alerts can be counted.

Message Date(s): 7/1/2025 to 6/30/2026

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:

Measurable goals were adjusted to account for digital distribution of the message on the web page and through E-Alerts.

BMP:After the Storm: A Citizen's Guide to Understanding Stormwater

Message Description and Distribution Method:

"After the Storm: A Citizen's Guide to Understanding Stormwater" provides both visual and textural descriptions of what stormwater runoff is, why it is a problem, and how it can contribute to pollution. It shares examples of how residents can make a positive impact by changing the way they handle lawn care, pet waste, septic maintenance, auto care, and landscaping, and gives a broad overview of the effects and solutions for commercial, construction, agricultural, and automotive facilities. The message is available on the Town Stormwater/MS4 web page and via subscription to E-Alerts.

Targeted Audience: Residents

Responsible Department/Parties: Town Administrator's Office

Measurable Goal(s):

The number of views on the Town website and the number of subscriptions to E-Alerts can be counted.

Message Date(s): 7/1/2025 to 6/30/2026

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:

Measurable goals were adjusted to account for digital distribution of the message on the web page and through E-Alerts.

BMP:Fertilizer Notice: Think Blue!

Message Description and Distribution Method:

"Fertilizer Notice: Think Blue!" is one of two spring notices to the community warning about the stormwater impacts of over fertilization. The message is available on the Town Stormwater/MS4 web page, via subscription to E-Alerts, Facebook, Instagram, and is included in the quarterly newsletter "What's Going on in Dunstable" which is mailed to all Town addresses.

Targeted Audience: Residents, businesses, institutions and commercial facilities

Responsible Department/Parties: Town Administrator's Office

Measurable Goal(s):

Besides tracking the number of views on the Town website, subscriptions to E-Alerts, and clicks and shares on social media, every address receives a paper copy.

Message Date(s): 3/1/2026 to 5/31/2026, and year round on the Town website.

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:Dog Waste Notice: Think Blue!

Message Description and Distribution Method:

"Dog Waste Notice: Think Blue!" is one of two dog waste notices used in the spring reminding dog owners to pick up after their pets. The message is available on the Town Stormwater/MS4 web page, via subscription to E-Alerts, Facebook, Instagram, and is included in the quarterly newsletter "What's Going on in Dunstable" which is mailed to all Town addresses.

Targeted Audience: Residents

Responsible Department/Parties: Town Administrator's Office

Measurable Goal(s):

Besides tracking the number of views on the Town website, subscriptions to E-Alerts, and clicks and shares on social media, every address receives a paper copy.

Message Date(s): 6/1/2025 to 8/31/ 2025 and 6/1/2026 to 8/31/2026, and year round on the Town website.

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:Going Green with Stormwater - Rain Gardens

Message Description and Distribution Method:

"Going Green with Stormwater - Rain Gardens" is a digital brochure that explains to residents how to create a rain garden. The message is available on the Town Stormwater/MS4 web page and via subscription to E-Alerts.

Targeted Audience: Residents

Responsible Department/Parties: Town Administrator's Office

Measurable Goal(s):

The number of views on the Town website and the number of subscriptions to E-Alerts can be counted.

Message Date(s): 7/1/2025 to 6/30/2026

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:Don't Leaf Dunstable's Water to Chance this Fall

Message Description and Distribution Method:

"Don't Leaf Dunstable's Water to Chance this Fall" is the fall notice to the community educating about the impacts of dumping leaves in wetlands and leaving them on pavement. The message is available on the Town Stormwater/MS4 web page, via subscription to E-Alerts, Facebook, Instagram, and is included in the quarterly newsletter "What's Going on in Dunstable" which is mailed to all Town addresses.

Targeted Audience: Residents

Responsible Department/Parties: Town Administrator's Office

Measurable Goal(s):

Besides tracking the number of views on the Town website, subscriptions to E-Alerts, and clicks and shares on social media, every address receives a paper copy.

Message Date(s): 9/1/2025 to 11/30/2025, and year round on the Town website.

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:I Poop, You Scoop

Message Description and Distribution Method:

"I Poop, You Scoop" is one of two dog waste notices used in the spring reminding dog owners to pick up after their pets. The message is available on the Town Stormwater/MS4 web page, via subscription to E-Alerts, Facebook, Instagram, and is included in the quarterly newsletter "What's Going on in Dunstable" which is mailed to all Town addresses.

Targeted Audience: Residents

Responsible Department/Parties: Town Administrator's Office

Measurable Goal(s):

Besides tracking the number of views on the Town website, subscriptions to E-Alerts, and clicks and shares on social media, every address receives a paper copy.

Message Date(s): 6/1/2025 to 8/31/ 2025 and 6/1/2026 to 8/31/2026, and year round on the Town website.

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:Stormwater Pollution Education: Fertilizing the Lawn

Message Description and Distribution Method:

"Stormwater Pollution Education: Fertilizing the Lawn" is one of two spring notices to the community warning about the stormwater impacts of over fertilization. The message is available on the Town Stormwater/MS4 web page, via subscription to E-Alerts, Facebook, Instagram, and is included in the quarterly newsletter "What's Going on in Dunstable" which is mailed to all Town addresses.

Targeted Audience: Residents, businesses, institutions and commercial facilities

Responsible Department/Parties: Town Administrator's Office

Measurable Goal(s):

Besides tracking the number of views on the Town website, subscriptions to E-Alerts, and clicks and shares on social media, every address receives a paper copy.

Message Date(s): 3/1/2026 to 5/31/2026, and year round on the Town website.

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:Stormwater Pollution Prevention Tips

Message Description and Distribution Method:

"Stormwater Pollution Prevention Tips" is a general information sheet providing simple tips for mitigating stormwater runoff impacts. The message is available on the Town Stormwater/MS4 web page and via subscription to E-Alerts.

Targeted Audience: Residents, businesses, institutions and commercial facilities

Responsible Department/Parties: Town Administrator's Office

Measurable Goal(s):

The number of views on the Town website and the number of subscriptions to E-Alerts can be counted.

Message Date(s): 7/1/2025 to 6/30/2026

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:

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**:

A link is available on the Town Stormwater/MS4 web page for the public to comment or report any problems/ violations online. Additionally, the Stormwater Management Plan is publicly available at the Town Administrator's office and web page.

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**:

None.

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: 0

Number of SSOs removed: 0

*Below, report on the total number of SSOs identified in the MS4 system and removed to date. At a minimum, report SSOs identified **since the effective date of the permit (July 1, 2018)**.*

Total number of SSOs identified: 0

Total number of SSOs removed: 0

MS4 System Mapping

Percent of Phase II map complete: 9

Optional: Describe any additional progress you made on your map during this reporting period or provide additional status information regarding your map:

The Northern Middlesex Council of Governments working group called Northern Middlesex Stormwater Collaborative completed year one of a two-year regional watershed study. The Town plans to use the data collected from this study to supplement any gaps in its mapping. In addition, the Town continues to apply for Municipal Vulnerability Preparedness Action Grants for mapping and evaluating all culverts and storm drainage.

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. Please also include the updated inventory and ranking of outfalls/interconnections based on monitoring results.

◉ No outfalls were inspected

◉ The outfall screening data is attached to the email submission

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

*Below, report on the number of outfalls/interconnections screened **during this reporting period**.*

Number of outfalls screened: 4

*Below, report on the percent of outfalls/interconnections screened **to date**.*

Percent of outfalls screened: 22

Optional: Provide additional information regarding your outfall/interconnection screening:

One hundred percent of the outfalls were screened in Year 6. Screening has since proceeded with focus on the high priority outfall(s) first, and others as schedule and budget allow, with the intent of rotating through all outfalls before resuming at the beginning. High priority outfalls will be screened annually.

Catchment Investigations

*If conducted, please submit all data collected **during this reporting period** as part of the dry and wet weather investigations. Also include the presence or absence of System Vulnerability Factors for each catchment.*

◉ No catchment investigations were conducted

○ The catchment investigation data is attached to the email submission

○ The catchment investigation data can be found at the following website:

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

Number of catchment investigations completed this reporting period: 0

*Below, report on the percent of catchments investigated **to date**.*

Percent of total catchments investigated: 0

Optional: Provide any additional information for clarity regarding the catchment investigations below:

No catchment investigations were conducted during this period because no problem outfalls were found.

IDDE Progress

If illicit discharges were found, please submit a document describing work conducted over this reporting period, and cumulative to date, including location source; description of the discharge; method of discovery; date of discovery; and date of elimination, mitigation, or enforcement OR planned corrective measures and schedule of removal.

◉ No illicit discharges were found

○ The illicit discharge removal report is attached to the email submission

○ The illicit discharge removal report can be found at the following website:

*Below, report on the number of illicit discharges identified and removed, along with the volume of sewage removed **during this reporting period**.*

Number of illicit discharges identified: 0

Number of illicit discharges removed: 0

Estimated volume of sewage removed: 0 gallons/day

*Below, report on the total number of illicit discharges identified and removed to date. At a minimum, report on the number of illicit discharges identified and removed **since the effective date of the permit (July 1, 2018)**.*

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:

Employee Training

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

Annual IDDE training was provided through the Northern Middlesex Stormwater Collaborative on April 28, 2026 and attended by 2 Town employees.

MCM4: Construction Site Stormwater Runoff Control

*Below, report on the construction site plan reviews, inspections, and enforcement actions completed **during this reporting period**.*

Number of site plan reviews completed: 4

Number of inspections completed: 10

Number of enforcement actions taken: 0

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

Several inspections carried over from site plans approved in the previous plan year.

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

Ordinance or Regulatory Mechanism

As-built Drawings

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

Number of as-built drawings received: 2

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

As-builts were from site plans approved in previous plan years.

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 6:

None.

Green Infrastructure Report

Below, describe progress towards making green infrastructure practices allowable based on the report completed in Year 6:

Green infrastructure practices are included within the Stormwater and Illicit Discharge Regulations and have been implemented at several residential projects in Town.

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):

Swallow Union Elementary School
Dunstable Fire Station
Dunstable Police Station
Dunstable Free Public Library

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.

None.

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: 153

Number of catch basins cleaned: 153

Total volume or weight of material removed from all catch basins: 18 cubic yards

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

Total number of catch basins: 153

If applicable:

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

No catch basins were more than 50% full.

Street Sweeping

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

- ○ Number of miles cleaned:
- ◉ Volume of material removed: 12 cubic yards
- ○ Weight of material removed: [Select Units]

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: 0

Describe any corrective actions taken at a facility with a SWPPP:

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
- ○ The results from additional reports or studies are attached to the email submission
- ○ The results from additional reports or studies can be found at the following website(s):

If such monitoring or studies were conducted on your behalf or if monitoring or studies conducted by other entities were reported to you, a brief description of the type of information gathered or received shall be described below:

Additional Information

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.

Year 9

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

Yes, I agree ☒

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
- Continue public education and outreach program
- Update inventory of all known locations where SSOs have discharged to the MS4
- Sweep all curbed roadways at least once within the reporting period
- Annual training to employees involved in IDDE program
- Clean catch basins in accordance with catch basin cleaning procedures to ensure that no catch basin is greater than 50% full
- Review site plans of construction sites as part of the construction stormwater runoff control program
- Conduct site inspections of construction sites as necessary
- Inspect and maintain stormwater treatment structures
- Log catch basins cleaned or inspected
- Sweep all curbed streets at least annually
- Implement 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
- Enclose all road salt storage piles or facilities and implement 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

Provide any additional details on activities planned for permit year 9 below:

The Town will continue to pursue grant funding in order to complete a comprehensive documentation of the stormwater system.

Part VI: Certification of Small MS4 Annual Report 2026

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:	Jason Silva	Title:	Town Administrator
Signature:	Jason Silva Digitally signed by Jason Silva Date: 2026.09.28 12:15:50 -04'00'	Date:	09/28/26

[Signatory may be a duly authorized representative]

Outfall Priority Matrix - Updated 2026

Outfall ID	Receiving Water	Previous Screening Results Indicate Likely Sewer Input? [1]	Receiving Water Body Impairment? [2]	Discharging to Area of Concern to Public Health? [3]	Frequency of Past Discharge Complaints	Density of Generating Sites [4]	Age of Development/ Infrastructure [5]	Historic Combined Sewers or Septic? [6]	Aging Septic? [7]	Culverted Streams? [8]	Additional Characteristics	Score	Priority Ranking
Information Source		Outfall inspections and sample results	Impaired Waters List	Maps	Town Staff	Land Use/GIS Maps, Aerial Photography	Land Use Information, Visual Observation	Town Staff, GIS Maps	Land Use, Town Staff	GIS and Storm System Maps	Phosphorus Source Identification Report (2024)		
Scoring Criteria		Yes = 10 (Problem Outfall) No = 0	Yes = 10 (imparement listed as high priority in permit) No = 0	Yes = 10 No = 0	Frequent = 3 Occasional = 2 None = 0	High = 3 Medium = 2 Low = 1	High = 3 Medium = 2 Low = 1	Yes = 3 No = 0	Yes = 3 No = 0	Yes = 3 No = 0	Total Phosphorus, in mg/L (EPA Goal is 0.1 max for flowing waters)		
H1-1	Nashua River	0	10	0	0	1	2	0	2	0	0.224	15	High Priority
C10-1	Joint Grass Brook	0	0	0	0	1	3	0	3	0	0.044	7	Low Priority
C10-2	Joint Grass Brook	0	0	0	0	1	3	0	3	0	0.015	7	Low Priority
C10-3	Joint Grass Brook	0	0	0	0	1	3	0	3	0	0.118	7	Low Priority
S10-1	Joint Grass Brook	0	0	0	0	1	2	0	2	0	0.336	5	Low Priority
S10-2	Joint Grass Brook	0	0	0	0	1	2	0	2	0	0.224	5	Low Priority
S10-3	Joint Grass Brook	0	0	0	0	1	2	0	2	0	2.68	5	Low Priority
D12-1	Hauk Brook	0	0	0	0	1	2	0	3	0	5.55	6	Low Priority
A8-1	Unkety Brook	0	0	0	0	1	2	0	2	0	0.216	5	Low Priority
A8-2	Unkety Brook	0	0	0	0	1	2	0	2	0	0.155	5	Low Priority
A8-3	Unkety Brook	0	0	0	0	1	2	0	2	0	0.052	5	Low Priority
A8-4	Unkety Brook	0	0	0	0	1	2	0	2	0	Not Sampled	5	Low Priority
K9-1	Unkety Brook	0	0	0	0	1	2	0	2	0	0.1	5	Low Priority
P12-1	Hauk Brook	0	0	0	0	1	3	0	3	0	0.307	7	Low Priority
P12-2	Hauk Brook	0	0	0	0	1	3	0	3	0	Not Sampled	7	Low Priority
C12-1	Hauk Brook	0	0	0	0	1	3	0	3	0	1.13	7	Low Priority
P17-1	Black Brook	0	0	0	0	2	3	0	3	0	0.019	8	Low Priority
P18-1	Lower Massapoag Pond	0	0	0	0	1	3	0	3	0	Not Sampled	7	Low Priority

OUTFALL RECONAISSANCE INVENTORY SHEET

FOR OFFICE USE ONLY

OUTFALL ID No: HI-1 **MAP** 1
SUBWATERSHED: Nashua River Sub basin **LOT** 16
WATERSHED LAND USE : Suburban Residential

GENERAL INFORMATION

DATE : 6/25/26 TIME: 18:19
WEATHER : Mostly Sunny RAINFALL IN LAST 24-HR : 0.00"
OUTFALL LOCATION : LATITUDE: ~~42.666556~~ 42.701948
LONGITUDE: -71.539066
ADDRESS: 638 Hollis Street
PHOTOS TAKEN? (YES) NO PHOTO #'S : IMG_2324 → 2328

OUTFALL DESCRIPTION

OPEN CHANNEL : YES (NO) SHAPE: ☒ CIRCULAR
PIPE DIAMETER : 15" N / 12" S (FT/IN) HDPE ☐ ELLIPTICAL
☐ BOX
☐ OTHER

OUTFALL SUBMERGED YES (NO)
IF YES IN: ☐ WATER PIPE MATERIAL
☐ FULLY ☐ CONCRETE
☐ PARTIALLY ☐ PVC
☐ SEDIMENT ☐ CMP
☐ FULLY ☒ OTHER HDPE
☐ PARTIALLY

VISUAL OBSERVATION

FLOW PRESENT? YES (NO)

FLOW VOLUME		FLOW ODOR:		DEBRIS IN PIPE:	
☐	LOW	☒	NONE	☒	NONE
☐	MODERATE	☐	PETROLEUM	☐	SEDIMENT
☐	HEAVY	☐	SEWAGE/ROTTEN	☐	TRASH
☐	INTERMITENT	☐	OTHER	☐	OTHER

FLOW COLOR:		DEBRIS AROUND OUTFALL:		STAINING & SCUM PRESENT:	
☐	CLEAR	☒	NONE	☒	NONE
☐	MUDDY	☐	SEDIMENT	☐	RED/ORANGE
☐	MILKY OR CLOUDY	☐	TRASH	☐	WHITE
☐	SHEEN	☐	OTHER	☐	GREEN ALGAE
☐	SOAPY FOAM			☐	OILY SCUM
☐	OTHER				

Location: H1-1
Date: 6/25/2026

Photo 1: Downstream of culvert outfall (facing west)



Photo 2: Looking down on culvert outfall headwall (facing south)



Photo 3: Head-on view of Outfall culvert (facing east)



Photo 4: Head-on Close-up of outfall invert/opening culvert (facing east), looking up northerly culvert through to inlet



Location: H1-1
Date: 6/25/2026

Photo 5: Head-on Close-up of outfall invert/opening culvert (facing east), looking up southerly culvert through to inlet 	

OUTFALL RECONAISSANCE INVENTORY SHEET

FOR OFFICE USE ONLY

OUTFALL ID No: A8-1 **MAP** _____
SUBWATERSHED: Nashua River - Unkd, Trude **LOT** _____
WATERSHED LAND USE : Suburban Residential / Sub-basin

GENERAL INFORMATION

DATE : 6/25/26 TIME: 18:55
WEATHER : Mostly Sunny RAINFALL IN LAST 24-HR : 0.00"
OUTFALL LOCATION : LATITUDE: 42.666556
LONGITUDE: -71.531779
ADDRESS: Across from 4 Adams Street
PHOTOS TAKEN? (YES) NO PHOTO #'S : IMG_2330

OUTFALL DESCRIPTION

OPEN CHANNEL : YES (NO) SHAPE: ☒ CIRCULAR
PIPE DIAMETER : 18 (FT / IN) ☐ ELLIPTICAL
☐ BOX
☐ OTHER

OUTFALL SUBMERGED (YES) NO
IF YES IN: ☐ WATER PIPE MATERIAL
☐ FULLY ☒ CONCRETE
☐ PARTIALLY ☐ PVC
☒ SEDIMENT ☐ CMP
☐ FULLY ☐ OTHER
☒ PARTIALLY

VISUAL OBSERVATION

FLOW PRESENT? YES (NO)

FLOW VOLUME
☐ LOW
☐ MODERATE
☐ HEAVY
☐ INTERMITENT

FLOW ODOR:
☒ NONE
☐ PETROLEUM
☐ SEWAGE/ROTTEN
☐ OTHER

DEBRIS IN PIPE:
☐ NONE
☒ SEDIMENT
☐ TRASH
☐ OTHER

FLOW COLOR:
☐ CLEAR
☐ MUDDY
☐ MILKY OR CLOUDY
☐ SHEEN
☐ SOAPY FOAM
☐ OTHER

DEBRIS AROUND OUTFALL:
☐ NONE
☒ SEDIMENT
☐ TRASH
☐ OTHER

STAINING & SCUM PRESENT:
☒ NONE
☐ RED/ORANGE
☐ WHITE
☐ GREEN ALGAE
☐ OILY SCUM

Location: A8-1
Date: 6/25/26

Photo 1: Close-up of outfall partially occluded with dirt 	

OUTFALL RECONAISSANCE INVENTORY SHEET

FOR OFFICE USE ONLY

OUTFALL ID No: AB-2 **MAP** _____
SUBWATERSHED: Nashua River Sub-basin, Unkety Brook **LOT** _____
WATERSHED LAND USE : Suburban Residential

GENERAL INFORMATION

DATE : 6/25/24 TIME: 19:07
WEATHER : Mostly Sunny RAINFALL IN LAST 24-HR : 0.00"
OUTFALL LOCATION : LATITUDE: 42.665788
LONGITUDE: -71.532643
ADDRESS: Adjacent to 75 Adams Street
PHOTOS TAKEN? (YES) NO PHOTO #'S : IMG_2331, 2333, 2334

OUTFALL DESCRIPTION

OPEN CHANNEL : YES (NO) SHAPE: ☒ CIRCULAR
PIPE DIAMETER : 24 (FT) (IN) ☐ ELLIPTICAL
24 ☒ BOX
☐ OTHER

OUTFALL SUBMERGED YES (NO)

IF YES IN: ☐ WATER — ☐ FULLY, ☐ PARTIALLY
☐ SEDIMENT — ☐ FULLY, ☐ PARTIALLY

PIPE MATERIAL: ☐ CONCRETE, ☐ PVC, ☐ CMP, ☒ OTHER HDPE

VISUAL OBSERVATION

FLOW PRESENT? YES (NO)

FLOW VOLUME: ☐ LOW, ☐ MODERATE, ☐ HEAVY, ☐ INTERMITENT

FLOW ODOR: ☒ NONE, ☐ PETROLEUM, ☐ SEWAGE/ROTTEN, ☐ OTHER

DEBRIS IN PIPE: ☐ NONE, ☐ SEDIMENT, ☐ TRASH, ☒ OTHER LEAVES

FLOW COLOR: ☐ CLEAR, ☐ MUDDY, ☐ MILKY OR CLOUDY, ☐ SHEEN, ☐ SOAPY FOAM, ☐ OTHER

DEBRIS AROUND OUTFALL: ☐ NONE, ☐ SEDIMENT, ☐ TRASH, ☒ OTHER LEAVES

STAINING & SCUM PRESENT: ☒ NONE, ☐ RED/ORANGE, ☐ WHITE, ☐ GREEN ALGAE, ☐ OILY SCUM

Location: A8-2
Date: 6/25/26

Photo 1: Close-up of northerly outfall, inside chamber looking through to inlet (facing east)



Photo 2: View from above southerly outfall, showing top of chamber (facing east)



Photo 3: View downstream of outfall (facing east)



OUTFALL RECONAISSANCE INVENTORY SHEET

FOR OFFICE USE ONLY

OUTFALL ID No: AB-3 **MAP** _____
SUBWATERSHED: Nashua River Sub-basin Unlisted Brook **LOT** _____
WATERSHED LAND USE: Suburban Residential

GENERAL INFORMATION

DATE: 6/25/24 TIME: 16:50
WEATHER: Mostly Sunny RAINFALL IN LAST 24-HR: 0.00"
OUTFALL LOCATION: LATITUDE: 42.664878
LONGITUDE: -71.531263
ADDRESS: Adjacent to 40 Asbury Street
PHOTOS TAKEN? (YES) NO PHOTO #'S: IMG_2324

OUTFALL DESCRIPTION

OPEN CHANNEL: YES (NO) SHAPE: ☒ CIRCULAR
PIPE DIAMETER: 15" RCP (FT/IN) ☐ ELLIPTICAL
☐ BOX
☐ OTHER

OUTFALL SUBMERGED (YES) NO
IF YES IN: ☒ WATER PIPE MATERIAL
☐ FULLY ☒ CONCRETE
☒ PARTIALLY ☐ PVC
☐ SEDIMENT ☐ CMP
☐ FULLY ☐ OTHER
☐ PARTIALLY

VISUAL OBSERVATION

FLOW PRESENT? YES (NO)

FLOW VOLUME
☐ LOW
☐ MODERATE
☐ HEAVY
☐ INTERMITENT

FLOW ODOR:
☒ NONE
☐ PETROLEUM
☐ SEWAGE/ROTTEN
☐ OTHER

DEBRIS IN PIPE:
☐ NONE
☐ SEDIMENT
☐ TRASH
☒ OTHER Rocks

FLOW COLOR:
☐ CLEAR
☐ MUDDY
☐ MILKY OR CLOUDY
☐ SHEEN
☐ SOAPY FOAM
☐ OTHER

DEBRIS AROUND OUTFALL:
☐ NONE
☐ SEDIMENT
☐ TRASH
☒ OTHER Rocks

STAINING & SCUM PRESENT:
☒ NONE
☐ RED/ORANGE
☐ WHITE
☐ GREEN ALGAE
☐ OILY SCUM

Location: A8-3
Date: 6/25/26

Photo 1: Close-up of outfall partially occluded with dirt 	