

Town of Ayer
Stormwater Management Program (SWMP)

EPA NPDES Permit No. MAR04-1179

May 2019



Ayer Department of Public Works

25 Brook Street

Ayer, MA 01432



Certification

Authorized Representative (Optional): All reports, including SWPPPs, inspection reports, annual reports, monitoring reports, reports on training and other information required by this permit must be signed by a person described in Appendix B, Subsection 11.A or by a duly authorized representative of that person in accordance with Appendix B, Subsection 11.B. If there is an authorized representative to sign MS4 reports, there must be a signed and dated written authorization.

The authorization letter is:

- Attached to this document (document name listed below)

- Publicly available at the website below

“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 gathered and evaluated 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, 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.”

Printed Name

Signature

Date

[Click Here for Revisions](#)

Background

Stormwater Regulation

The Stormwater Phase II Final Rule was promulgated in 1999 and was the next step after the 1987 Phase I Rule in EPA's effort to preserve, protect, and improve the Nation's water resources from polluted stormwater runoff. The Phase II program expands the Phase I program by requiring additional operators of MS4s in urbanized areas and operators of small construction sites, through the use of NPDES permits, to implement programs and practices to control polluted stormwater runoff. Phase II is intended to further reduce adverse impacts to water quality and aquatic habitat by instituting the use of controls on the unregulated sources of stormwater discharges that have the greatest likelihood of causing continued environmental degradation. Under the Phase II rule all MS4s with stormwater discharges from Census designated Urbanized Area are required to seek NPDES permit coverage for those stormwater discharges.

Permit Program Background

On May 1, 2003, EPA Region 1 issued its Final General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (2003 small MS4 permit) consistent with the Phase II rule. The 2003 small MS4 permit covered "traditional" (i.e., cities and towns) and "non-traditional" (i.e., Federal and state agencies) MS4 Operators located in the states of Massachusetts and New Hampshire. This permit expired on May 1, 2008 but remained in effect until operators were authorized under the 2016 MS4 general permit, which became effective on July 1, 2018.

Stormwater Management Program (SWMP)

The SWMP describes and details the activities and measures that will be implemented to meet the terms and conditions of the permit. The SWMP accurately describes the permittees plans and activities. The document should be updated and/or modified during the permit term as the permittee's activities are modified, changed or updated to meet permit conditions during the permit term. The main elements of the stormwater management program are (1) a public education program in order to affect public behavior causing stormwater pollution, (2) an opportunity for the public to participate and provide comments on the stormwater program (3) a program to effectively find and eliminate illicit discharges within the MS4 (4) a program to effectively control construction site stormwater discharges to the MS4 (5) a program to ensure that stormwater from development projects entering the MS4 is adequately controlled by the construction of stormwater controls, and (6) a good housekeeping program to ensure that stormwater pollution sources on municipal properties and from municipal operations are minimized.

Town Specific MS4 Background (optional)

The Town of Ayer is approximately 9 square miles with a population of 7,427 (2010 Census). The Town is comprised of several ponds and waterbodies. The Town has two water treatment plants and water distribution and a wastewater treatment plant and sewer collection system which encompass approximately 95% of users. The Town has a mix of industrial, commercial, and residential.

The Town of Ayer obtained coverage under the 2003 MS4 Permit. The MS4 Program is administered by the Department of Public Works (DPW).

Small MS4 Authorization

The NOI was submitted on

The NOI can be found at the following (document name or web address):

Authorization to Discharge was granted on

The Authorization Letter can be found (document name or web address):

DRAFT

Stormwater Management Program Team

SWMP Team Coordinator

Name	<input type="text" value="Mark Wetzel"/>	Title	<input type="text" value="Superintendent"/>
Department	<input type="text" value="Public Works"/>		
Phone Number	<input type="text" value="978-772-8240"/>	Email	<input type="text" value="mwetzel@ayer.ma.us"/>
Responsibilities	<input type="text" value="Overall stewardship of Ayer's MS4, site inspections, reviews stormwater management plans"/>		

SWMP Team

Name	<input type="text" value="Dan Van Schalkwyk"/>	Title	<input type="text" value="Town Engineer"/>
Department	<input type="text" value="Public Works"/>		
Phone Number	<input type="text" value="978-772-8240"/>	Email	<input type="text" value="dvanschalkwyk@ayer.ma.us"/>
Responsibilities	<input type="text" value="Overall stewardship of Ayer's MS4, site inspections, reviews stormwater management plans"/>		

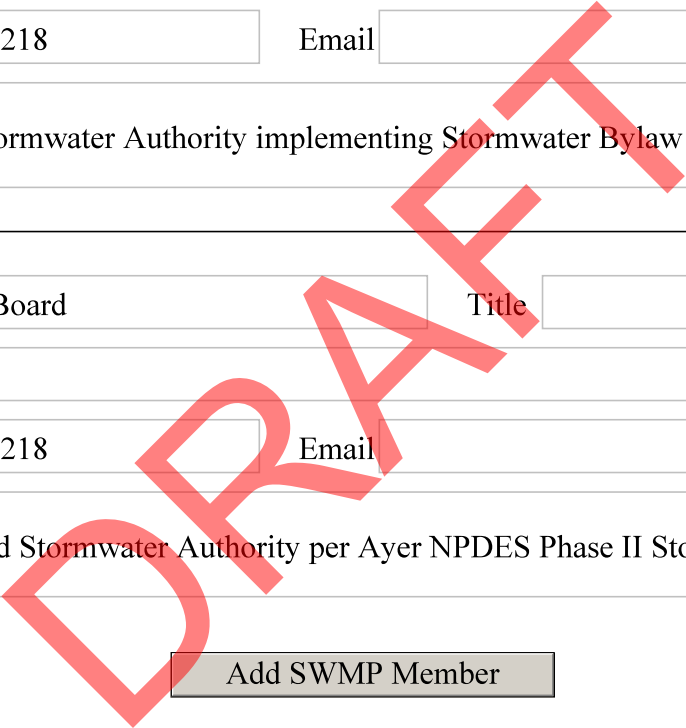
Name	<input type="text" value="Jo-Anne Crystoff"/>	Title	<input type="text" value="Conservation Administrator"/>
Department	<input type="text" value="Conservation Commission"/>		
Phone Number	<input type="text" value="978-772-8249"/>	Email	<input type="text" value="concom@ayer.ma.us"/>
Responsibilities	<input type="text" value="Site inspections, MS4 implementation assistance"/>		

Name	<input type="text"/>	Title	<input type="text"/>
Department	<input type="text" value="Public Works - Highway Department"/>		
Phone Number	<input type="text" value="978-772-8240"/>	Email	<input type="text" value="djaspersen@ayer.ma.us"/>
Responsibilities	<input type="text" value="Site inspections, MS4 maintenance"/>		

Name	<input type="text"/>	Title	<input type="text" value="GIS Intern"/>
Department	<input type="text" value="Public Works"/>		
Phone Number	<input type="text" value="978-772-8240"/>	Email	<input type="text"/>
Responsibilities	<input type="text" value="MS4 mapping"/>		

Name	<input type="text" value="Mark Archambault"/>	Title	<input type="text" value="Town Planner"/>
Department	<input type="text" value="Planning"/>		
Phone Number	<input type="text" value="978-772-8218"/>	Email	<input type="text"/>
Responsibilities	<input type="text" value="Assists Stormwater Authority implementing Stormwater Bylaw"/>		

Name	<input type="text" value="Planning Board"/>	Title	<input type="text"/>
Department	<input type="text"/>		
Phone Number	<input type="text" value="978-772-8218"/>	Email	<input type="text"/>
Responsibilities	<input type="text" value="Designated Stormwater Authority per Ayer NPDES Phase II Stormwater Bylaw"/>		



Receiving Waters

The following table lists all receiving waters, impairments and number of outfalls discharging to each waterbody segment.

OR

The information can be found in the following document or at the following web address:

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Waterbody segment that receives flow from the MS4	Number of outfalls into receiving water segment	Pollutants										Other pollutant(s) causing impairments
		Chloride	Chlorophyll-a	Dissolved Oxygen/DO Saturation	Nitrogen	Oil & Grease/PAH	Phosphorus	Solids/TSS/Turbidity	E. coli	Enterococcus		
Flannagan Pond	15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Non-native aquatic plants
Tributary to Flannagan Pond	5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sandy Pond	6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Long Pond	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Tributary to Long Pond	7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
School House Pond	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Tributary to School House Pond	8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Tributary to Nashua River (Segment MA81-05)	8	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Tributary to Nashua River (Segment MA81-06)	3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Cold Spring Brook	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Willow Brook	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Pine Meadow Pond	2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Tributary to Balch Pond	2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
James Brook	6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Tributary to James Brook	21	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Nonacoicus Brook	3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Waterbody segment that receives flow from the MS4	Number of outfalls into receiving water segment	Chloride	Chlorophyll-a	Dissolved Oxygen/DO Saturation	Nitrogen	Oil & Grease/PAH	Phosphorus	Solids/ TSS/ Turbidity	E. coli	Enterococcus	Other pollutant(s) causing impairments
Tributary to Nonacoicus Brook	9	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Grove Pond	2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Non-native aquatic plants, aquatic plants (macrophytes), Mercury in Fish Tissue, Arsenic, DEHP (Di-sec-octyl phthalate), Polycyclic Aromatic Hydrocarbons (PAHs) (Aquatic Ecosystems), Sediment Bioassays - Chronic Toxicity Freshwater
Tributary to Grove Pond	6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Bennetts Brook	6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Tributary to Bennetts Brook	10	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Eligibility: Endangered Species and Historic Properties

*Reminder: The proper consultations and updates to the SWMP must be conducted for construction projects related to your permit compliance where Construction General Permit (CGP) coverage, which requires its own endangered species and history preservation determination, is NOT being obtained.

Attachments:

- The results of Appendix C U.S. Fish and Wildlife Service endangered species screening determination
- The results of the Appendix D historic property screening investigations
- If applicable, any documents from the State Historic Preservation Officer (SHPO), Tribal Historic Preservation Officer (THPO), or other Tribal representative to mitigate effects

These attachments are required within one year of the permit effective date and are:

- Attached to this document (document names listed below)

- Publicly available at the website listed below

Under what criterion did permittee determine eligibility for ESA?

- Criterion A Criterion B Criterion C

Under what criterion did permittee determine eligibility for Historic Properties?

- Criterion A Criterion B Criterion C Criterion D (NH only)

Below add any additional measures for structural controls that you're required to do through consultation with U.S. Fish and Wildlife Service (if applicable):

N/A

Below add any additional measures taken to avoid or minimize adverse impacts on places listed, or eligible for listing, on the NRHP, including any conditions imposed by the SHPO or THPO (if applicable):

N/A

MCM 1

Public Education and Outreach

Permit Part 2.3.2

Objective: The permittee shall implement an education program that includes educational goals based on stormwater issues of significance within the MS4 area. The ultimate objective of a public education program is to increase knowledge and change behavior of the public so that the pollutants in stormwater are reduced.

Examples and Templates:

[EPA's Stormwater Education Toolbox](#)

[MassDEP's Stormwater Outreach Materials](#)

Other templates relevant to MCM 1 can be found here: <https://www.epa.gov/npdes-permits/stormwater-tools-new-england#peo>

BMP: Resident Message 1 of Permit Term

BMP Number (Optional) 1 _____

Document Name and/or Web Address:

Description:

Web Page - Distribute educational announcement related to effects of lawn care on water quality to web page, eblast, and social media

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Create one announcement, track social media activity and pond water quality monitoring

Message Date(s):

BMP: Business Message 1 of Permit Term

BMP Number (Optional) 2 _____

Document Name and/or Web Address:

Description:

Brochures/Pamphlets - Stormwater educational pamphlets related to grease shall be distributed to restaurant owners

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Distribute one pamphlet, inspect storm drainage near restaurants for related pollutants

Message Date(s):

BMP: Developer Message 1 of Permit Term

BMP Number (Optional) 3 _____

Document Name and/or Web Address:

Description:

Brochures/Pamphlets - Distribute pamphlet to active developments regarding NPDES requirements for construction sites

Targeted Audience: Developers (construction)

Responsible Department/Parties: DPW

Measurable Goal(s):

Distribute one pamphlet, inspect active developments for compliance

Message Date(s): 2019

BMP: Industrial Facilities Message 1 of Permit Term

BMP Number (Optional) 4 _____

Document Name and/or Web Address: NOI

Description:

Meeting - Host meeting. Present material on NPDES Permit requirements for Town and private stewards

Targeted Audience: Industrial facilities

Responsible Department/Parties: DPW

Measurable Goal(s):

Host one meeting, track around report submittals and inspect sites for stewardship.

Message Date(s): 2023

BMP: Resident Message 2 of Permit Term

BMP Number (Optional) 5 _____

Document Name and/or Web Address: NOI

Description:

Brochures/Pamphlets - Benefits of onsite infiltration of stormwater including rain gardens and how to create your own

Targeted Audience: Residents

Responsible Department/Parties: DPW

Measurable Goal(s):

Track pamphlets taken/distributed, track rain gardens installed by private owners by asking for notification.

Message Date(s): 2022

BMP: Business Message 2 of Permit Term

BMP Number (Optional) 6

Document Name and/or Web Address: NOI

Description:

Web Page - Create notification related to O&M of private drainage

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: DPW

Measurable Goal(s):

Create one notification and distribute via web page, eblast, and social media, track social media activity. Contact 3 audience members to discuss message and their implementation.

Message Date(s): 2021

BMP: Developer Message 2 of Permit Term

BMP Number (Optional) 7

Document Name and/or Web Address: NOI

Description:

Web Page - Create hyperlinks to NPDES CGP, and Town Stormwater bylaws information on website

Targeted Audience: Developers (construction)

Responsible Department/Parties: DPW

Measurable Goal(s):

Create hyperlinks on stormwater web page, planning board web page, and other related pages. Ask developers

if received and helpful.

Message Date(s): 2021

BMP: Industrial Facilities Message 2 of Permit Term

BMP Number (Optional) 8

Document Name and/or Web Address: NOI

Description:

Brochures/Pamphlets - Distribute pamphlet to major industries regarding proper maintenance of parking facilities

Targeted Audience: Industrial facilities

Responsible Department/Parties: DPW

Measurable Goal(s):

Create one pamphlet, distribute copies to major industries. Speak to 3 industries if this is helpful and has items that can be implemented.

Message Date(s): 2020

BMP: Pet Waste in Impaired Water Areas

BMP Number (Optional) 9

Document Name and/or Web Address: TBD

Description:

Message Regarding Pet Waste in applicable impaired water areas (See TMDL and Water Quality Limited Waters section of the SWMP)

Targeted Audience: Residents

Responsible Department/Parties: DPW/Conservation

Measurable Goal(s):

Annual message completed. Inspect areas for pet waste before and after notice.

Message Date(s):

BMP: Educational Materials with Dog License

BMP Number (Optional) 10

Document Name and/or Web Address:

Description:

Disseminate educational materials to dog owners at the time of issuance or renewal of dog license in accordance with Appendix H Part III

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Completed by end of Year 1.

Message Date(s):

BMP: Educational Materials to Septic Systems Owners

BMP Number (Optional) 11

Document Name and/or Web Address:

Description:

Disseminate educational materials to septic system owners in bacteria impaired water areas in accordance with Appendix H Part III

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Annual materials distributed

Message Date(s):

BMP: Grass Clipping and Fertilizer Use/Disposal

BMP Number (Optional) 12

Document Name and/or Web Address:

Description:

Message Regarding proper use and disposal of grass clippings and encourages the proper use of slow-release and phosphorus-free fertilizer in applicable impaired water areas (See TMDL and Water Quality Limited Waters section of the SWMP)

Targeted Audience: Residents

Responsible Department/Parties: DPW

Measurable Goal(s):

Message sent every April/May

Message Date(s):

BMP: Leaf Waste

BMP Number (Optional) _____

Document Name and/or Web Address: TBD

Description:

Distribute an annual message in the Fall (August/September/October) encouraging the proper disposal of leaf litter in the areas with Phosphorus impaired waters (See TMDL and Water Quality Limited Waters section of the SWMP)

Targeted Audience: Residents

Responsible Department/Parties: DPW

Measurable Goal(s):

Annual message completed

Message Date(s):

Add BMP

MCM 2

Public Involvement and Participation

Permit Part 2.3.3

Objective: The permittee shall provide opportunities to engage the public to participate in the review and implementation of the permittee's SWMP.

DRAFT

BMP: Public Review of Stormwater Management Program

BMP Number (Optional) 1 _____

Location of Plan and/or Web Address:

Responsible Department/Parties:

Measurable Goal(s):

BMP: Public Participation in Stormwater Management Program Development

BMP Number (Optional) 2 _____

Description:

Responsible Department/Parties:

Measurable Goal(s):

BMP: Public Participation

BMP Number (Optional) 3 _____

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

BMP: Public Participation

BMP Number (Optional) 4

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

BMP: Public Participation

BMP Number (Optional) 5

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

BMP: Public Participation

BMP Number (Optional) 6

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

Continue to promote mercury waste collection boxes through posters and DPW web page

BMP: Public Participation

BMP Number (Optional) 7 _____

Document Name and/or Web Address: NOI

Description:

Stormwater Committee/Task Force

Responsible Department/Parties: Stormwater Committee

Measurable Goal(s):

Review and update bylaws.

BMP: Public Participation

BMP Number (Optional) 8 _____

Document Name and/or Web Address: NOI

Description:

Public Meeting - Stormwater

Responsible Department/Parties: DPW

Measurable Goal(s):

One meeting annually to keep public up-to-date with progress of the Town's stormwater program

BMP: [BMP name here]

BMP Number (Optional) _____

Document Name and/or Web Address: _____

Description:

Responsible Department/Parties:

Measurable Goal(s):

Add BMP

DRAFT

MCM 3

Illicit Discharge Detection and Elimination (IDDE) Program

Permit Part 2.3.4

Objective: The permittee shall implement an IDDE program to systematically find and eliminate illicit sources of non-stormwater discharges to its municipal separate storm sewer system and implement procedures to prevent such discharges.

Examples and Templates:

[IDDE Program Template and SOPs](#)

Other templates relevant to IDDE can be found here: <https://www.epa.gov/npdes-permits/stormwater-tools-new-england#idde>

BMP: IDDE Legal Authority

BMP Number (Optional) _____

Completed (by May 1, 2008)

Ordinances Link or Reference:

Department Responsible for Enforcement:

BMP: Sanitary Sewer Overflow (SSO) Inventory

BMP Number (Optional) _____

Completed (by year 1)

Document Name and/or Web Address:

Description:

SSOs are reported by the Ayer Wastewater Division and records are kept in accordance with the WWTP NPDES Discharge Permit and MassDEP/EPA SSO requirements. SSOs will be reported in the Annual Report for this NPDES Permit.

Responsible Department/Parties:

Measurable Goal(s):

Annually track and report the following SSO information: the location; a clear statement of whether the discharge entered a surface water directly or entered the MS4; date(s) and time(s) of each known SSO occurrence; estimated volume(s) of the occurrence; description of the occurrence indicating known or suspected cause(s); mitigation and corrective measures completed with dates implemented; and mitigation and corrective measures planned with implementation schedules. Update inventory as needed.

SSO Reporting:

In the event of an overflow or bypass, a notification must be reported within 24 hours by phone to MassDEP, EPA, and other relevant parties. Follow up the verbal notification with a written report following MassDEP's Sanitary Sewer Overflow (SSO)/Bypass notification form within 5 calendar days of the time you become aware of the overflow, bypass, or backup.

<p>The MassDEP contacts are:</p> <ul style="list-style-type: none">Northeast Region (978) 694-3215205B Lowell StreetWilmington, MA 01887Central Region (508) 792-76508 New Bond StreetWorcester, MA 01606Southeast Region (508) 946-275020 Riverside DriveLakeville, MA 02347Western Region (413) 784-1100436 Dwight StreetSpringfield, MA 0110324-hour Emergency Line 1-888-304-1133	<p>The EPA contacts are:</p> <ul style="list-style-type: none">EPA New England (617) 918-15105 Post Office SquareBoston, MA 02109
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BMP: Map of Storm Sewer System

BMP Number (Optional) _____

Phase I Completed
(by year 2)

Phase II Completed
(by year 10)

Document Location and/or Web Address:

Description:

Create map and update during IDDE program completion

Responsible Department/Parties:

Measurable Goal(s):

Map 100% of outfalls and receiving waters, open channel conveyances, interconnections with other MS4s and other storm sewer systems, municipally-owned stormwater treatment structures, waterbodies identified by name and indication of all use impairments, and initial catchment delineations within 2 years of the permit's effective date. Map 100% of outfall spatial locations, pipes, manholes, catch basins, refined catchment delineations, municipal sanitary sewer system (if available), and municipal combined sewer system (if applicable) within 10 years of the permit's effective date.

BMP: IDDE Program

BMP Number (Optional) _____

Written Document Completed (by year 1)

Document Name and/or Web Address:

Description:

Create written IDDE program. Implement catchment investigations according to program and permit conditions. Conduct dry weather screening in accordance with outfall screening procedure and permit conditions. Conduct wet weather screening in accordance with outfall screening procedure. Conduct ongoing dry weather and wet weather screening (as necessary).

Responsible Department/Parties:

Measurable Goal(s):

Conduct 100% of outfall screening on High and Low Priority Outfalls within 3 years of the permit's effective date. Complete catchment investigations for 100% of the Problem Outfalls within 7 years of the permit's effective date. Complete 100% of all catchment investigations within 10 years of the permit's effective date.

The outfall/interconnection inventory and initial ranking and the dry weather outfall and interconnection screening and sampling results can be found:

Ayer DPW

BMP: Employee Training

BMP Number (Optional) _____

Description:

Train employees on IDDE implementation

Responsible Department/Parties: DPW

Measurable Goal(s):

Training occurs annually.

BMP: Outfall Ranking for Impaired Waters

BMP Number (Optional) _____

Completed

Document Name and/or Web Address: IDDE Plan

Description:

Rank outfalls to the impaired receiving waters (listed in TMDLs and Water Quality Limited Waters section of the SWMP) as high priority for IDDE implementation in the initial outfall ranking.

Responsible Department/Parties: DPW

Measurable Goal(s):

Outfalls ranked as high priority in initial outfall ranking.

Add BMP

MCM 4

Construction Site Stormwater Runoff Control

Permit Part 2.3.5

Objective: The objective of an effective construction stormwater runoff control program is to minimize or eliminate erosion and maintain sediment on site so that it is not transported in stormwater and allowed to discharge to a water of the U.S. through the permittee's MS4.

Examples and Templates:

Examples and templates relevant to MCM 4, including model ordinances and site inspection templates, can be found here: <https://www.epa.gov/npdes-permits/stormwater-tools-new-england#csrc>

BMP: Sediment and Erosion Control Ordinance

BMP Number (Optional) _____

Completed (by May 1, 2008)

Ordinances Link or Reference:

Department Responsible for Enforcement:

BMP: Site Plan Review Procedures

BMP Number (Optional) _____

Written procedures completed (by year 1)

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

BMP: Site Inspections and Enforcement of Sediment and Erosion Control Measures Procedures

BMP Number (Optional) _____

Completed (by year 1)

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

BMP: Waste Control (IDDE Bylaw)

BMP Number (Optional) _____

Completed

Document Name and/or Web Address:

Description:

Adoption of requirements to control wastes, including but not limited to, discarded building materials, concrete truck wash out, chemicals, litter, and sanitary wastes

Responsible Department/Parties:

Measurable Goal(s):

Town has adopted a IDDE Bylaw

BMP: Town Bylaw Review and Update

BMP Number (Optional) _____

Completed

Document Name and/or Web Address:

Description:

Town shall review its current NPDES Phase II Stormwater and IDDE Bylaws to determine if any revisions are required. Note a revision is required per Appendix H related to Nashua River (Segment MA81-05) with phosphorus impairment.

Responsible Department/Parties:

Measurable Goal(s):

Review and, if necessary, revise bylaws at Fall Town Meeting in calendar year 2019.

Add BMP

MCM 5

Post Construction Stormwater Management in New Development and Redevelopment

Permit Part 2.3.6

Objective: The objective of an effective post construction stormwater management program is to reduce the discharge of pollutants found in stormwater to the MS4 through the retention or treatment of stormwater after construction on new or redeveloped sites and to ensure proper maintenance of installed stormwater controls.

Examples and Templates:

Examples and templates relevant to MCM 5, including model ordinances and bylaw review templates and guidance can be found here: <https://www.epa.gov/npdes-permits/stormwater-tools-new-england#pcsm>

BMP: Post-Construction Ordinance

BMP Number (Optional) _____

Completed (by year 2)

Town Ordinances Link or Reference:

Department Responsible for Enforcement:

BMP: Street Design and Parking Lot Guidelines Report

BMP Number (Optional) _____

Completed (by year 4)

Document Name and/or Web Address:

Description:

Develop a report assessing requirements that affect the creation of impervious cover. The assessment will help determine if changes to design standards for streets and parking lots can be modified to support low impact design options.

Responsible Department/Parties:

Measurable Goal(s):

Recommendations are implemented by year 4 with progress reported annually.

BMP: Green Infrastructure Report

BMP Number (Optional) _____

Completed (by year 4)

Document Name and/or Web Address:

Description:

Develop a report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist.

Responsible Department/Parties:

Measurable Goal(s):

Recommendations are implemented by year 4 with progress reported annually.

BMP: List of Municipal Retrofit Opportunities

BMP Number (Optional) _____

Completed (by year 4)

Document Name and/or Web Address:

Description:

Identify at least 5 permittee-owned properties that could be modified or retrofitted with BMPs to reduce impervious areas and update annually.

Responsible Department/Parties:

Measurable Goal(s):

The list is completed by year 4 and updated as needed.

BMP: As-built Plans for On-Site Stormwater Control

BMP Number (Optional) _____

Completed

Document Name and/or Web Address:

Description:

Create procedures to require submission of as-built drawings and ensure long term operation and maintenance.

Responsible Department/Parties:

Measurable Goal(s):

Require submission of as-built plans for Site Plan Review, Subdivisions, and Projects that apply under the Stormwater Bylaw. Conduct site inspection, review reports, and conduct enforcement for long-term operation and maintenance.

BMP: Stormwater Management in Impaired Water Areas of New and Redevelopment

BMP Number (Optional) _____

Completed

Document Name and/or Web Address:

Description:

Stormwater management systems designed on commercial and industrial land use area draining to the water quality limited water body (see TMDL and Water Quality Limited Water Bodies section of SWMP for target areas) shall incorporate designs that allow for shutdown and containment where appropriate to isolate the system in the event of an emergency spill or other unexpected event.

Responsible Department/Parties:

Measurable Goal(s):

DPW and Town Planner determine how to incorporate into Town review procedures and/or bylaw(s) and implement the requirement

BMP: Nitrogen Reduction in Impaired Water Areas of New and Redevelopment

BMP Number (Optional) _____ Completed

Document Name and/or Web Address: TBD

Description:

Retrofit inventory and priority ranking under 2.3.6.1.b. shall include consideration of BMPs to reduce nitrogen discharges (Nashua River (Segment MA81-05) target area)

Responsible Department/Parties: DPW

Measurable Goal(s):

Complete retrofit inventory and priority ranking.

BMP: Infiltration BMPs in Impaired Water Areas of New and Redevelopment

BMP Number (Optional) _____ Completed

Document Name and/or Web Address: TBD

Description:

Retrofit inventory and priority ranking under 2.3.6.1.b. shall include consideration of BMPs that infiltrate stormwater where feasible for phosphorus impaired area (Nashua River (Segment MA81-05) target area)

Responsible Department/Parties: DPW

Measurable Goal(s):

Completed inventory and priority ranking by year 4

BMP: Structural BMPs in Impaired Water Areas of New and Redevelopment

BMP Number (Optional) _____ Completed

Document Name and/or Web Address: TBD

Description:

Evaluate all permittee-owned properties identified as presenting retrofit opportunities or areas for structural BMP installation under Permit part 2.3.6.d.ii or identified in the Phosphorus Source Identification Report that are within the drainage area of the impaired water or its tributaries (Nashua River (Segment MA81-05) for phosphorus impairment.

Also, complete a listing of planned structural BMPs and a plan and schedule for implementation.

Responsible Department/Parties: DPW

Measurable Goal(s):

Complete by year 5

BMP: Structural BMP

BMP Number (Optional) _____

Completed

Document Name and/or Web Address: _____

Description:

Responsible Department/Parties: _____

Measurable Goal(s):

Add BMP

DRAFT

MCM 6

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

Permit Part 2.3.7

Objective: The permittee shall implement an operations and maintenance program for permittee-owned operations that has a goal of preventing or reducing pollutant runoff and protecting water quality from all permittee-owned operations.

Examples and Templates:

Examples and templates relevant to MCM 6, including SOP templates for catch basin cleaning, street sweeping, vehicle maintenance, parks and open space management, winter deicing, and Stormwater Pollution Prevention Plans can be found here: <https://www.epa.gov/npdes-permits/stormwater-tools-new-england#gh>

PERMITTEE OWNED FACILITIES

BMP: Parks and Open Spaces Operations and Maintenance Procedures

BMP Number (Optional) _____

Written Document Completed (by year 2)

Document Name and/or Web Address:

Description:

Inventory and create written O&M procedures including all requirements contained in 2.3.7.a.ii for parks and open spaces

Responsible Department/Parties:

Measurable Goal(s):

Implement the SOP listed above on 100% of the parks and open spaces. SOP shall be developed by Responsible Departments within 2 years of the permit effective date. DPW shall lead the creation of SOP.

Properties List (Optional):

BMP: Buildings and Facilities Operations and Maintenance Procedures

BMP Number (Optional) _____

Written Document Completed (by year 2)

Document Name and/or Web Address:

Description:

Inventory and create written O&M procedures including all requirements contained in 2.3.7.a.ii for buildings and facilities

Responsible Department/Parties:

Measurable Goal(s):

Implement the SOP listed above on 100% of buildings and facilities. Identify work completed in association with SOP in annual report.

Properties List (Optional):

BMP: Vehicles and Equipment Operations and Maintenance Procedures

BMP Number (Optional) _____

Written Document Completed (by year 2)

Document Name and/or Web Address:

Description:

Inventory and create written O&M procedures including all requirements contained in 2.3.7.a.ii for vehicles and equipment

Responsible Department/Parties:

Measurable Goal(s):

Implement the SOP listed above for 100% of vehicles and equipment according to the above document. Identify work completed in association with SOP in Annual Report.

Properties List (Optional):

INFRASTRUCTURE

BMP: Infrastructure Operations and Maintenance Procedures

BMP Number (Optional) _____ **Written Procedure Completed (by year 2)**

Document Name and/or Web Address:

Description:

Establish and implement program for repair and rehabilitation of MS4 infrastructure.

Responsible Department/Parties:

Measurable Goal(s):

DPW to complete written procedure. Infrastructure is maintained to ensure proper function in accordance with the procedures in the written program.

BMP: Catch Basin Cleaning Program

BMP Number (Optional) _____ **Written Procedure Completed (by year 1)**

Document Name and/or Web Address:

Description:

Establish schedule for catch basin cleaning such that each catch basin is no more than 50% full and clean catch basins on that schedule.

Responsible Department/Parties:

Measurable Goal(s):

All catch basins are cleaned in accordance to the document above such that no catch basin is more than 50% full at any given time. DPW to create written procedure by end of Year 1.

BMP: Street Sweeping Program

BMP Number (Optional) _____

Written Procedure Completed (by year 1)

Document Name and/or Web Address:

Description:

Sweep all streets and permittee-owned parking lots in accordance with permit conditions.

Responsible Department/Parties:

Measurable Goal(s):

Annually sweep 100% of all streets and 50% of all municipal parking lots in accordance with the schedule listed above.

BMP: Winter Road Maintenance Program

BMP Number (Optional) _____

Written Procedure Completed (by year 1)

Document Name and/or Web Address:

Description:

Establish and implement a program to minimize the use of road salt.

Responsible Department/Parties:

Measurable Goal(s):

Evaluate at least one salt/chloride alternative for use in the municipality.

BMP: Stormwater Treatment Structures Inspection and Maintenance Procedures

BMP Number (Optional) _____

Completed (by year 1)

Document Name and/or Web Address:

Description:

Establish and implement inspection and maintenance procedures and frequencies.

Responsible Department/Parties: DPW/Conservation

Measurable Goal(s):

Inspect and maintain 100% of treatment structures to ensure proper function.

BMP: SWPPP

BMP Number (Optional) _____

Completed (by year 2)

Document Name and/or Web Address: TBD

Description:

Create SWPPPs for maintenance garages, transfer stations, and other waste-handling facilities.

Responsible Department/Parties: DPW

Measurable Goal(s):

Develop and implement SWPPPs for 100% of facilities.

BMP: Additional Street Sweeping in Target Areas

BMP Number (Optional) _____

Completed

Document Name and/or Web Address: TBD

Description:

Increase street sweeping frequency of all municipal owned streets and parking lots to a schedule to target areas with potential for high pollutant loads (target areas listed in TMDL and Water Quality Limited Bodies section of the SWMP)

Responsible Department/Parties: DPW

Measurable Goal(s):

Create schedule and implement increased street sweeping in the target areas

BMP: Additional Catch Basin Cleaning in Target Areas

BMP Number (Optional) _____

Completed

Document Name and/or Web Address:

Description:

Inspect and maintain catch basins to ensure that no sump shall be more than 50 percent full in target areas with potential for high pollutant loads (target areas listed in TMDL and Water Quality Limited Bodies section of the SWMP)

Responsible Department/Parties:

Measurable Goal(s):

Complete increased inspection and maintenance of specified catch basins.

BMP: Management of Grass Cuttings and Leaf Litter

BMP Number (Optional) _____

Completed

Document Name and/or Web Address:

Description:

Establish procedures to properly manage grass cuttings and leaf litter on permittee property, including prohibiting blowing organic waste materials onto adjacent impervious surfaces

Responsible Department/Parties:

Measurable Goal(s):

Establish and implement procedures by end of Year 2

Add BMP

Annual Evaluation

Year 1 Annual Report

Document Name and/or Web Address:

Year 2 Annual Report

Document Name and/or Web Address:

Year 3 Annual Report

Document Name and/or Web Address:

Year 4 Annual Report

Document Name and/or Web Address:

Year 5 Annual Report

Document Name and/or Web Address:

Year X Annual Report

Document Name and/or Web Address:

Add a Year

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TMDLs and Water Quality Limited Waters

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Select the applicable Impairment(s) and/or TMDL(s).

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 and Pathogen Metals Nitrogen Phosphorus

Clear Impairments and TMDLs

Bacteria/Pathogens

Combination of Impaired Waters Requirements and TMDL Requirements as Applicable

Applicable Receiving Waterbody(ies)	TMDL Name (if applicable)	Add/Delete Row
James Brook, Bennetts Brook, Nashua River (Segment MA81-05)	N/A	<input type="button" value="+"/> <input type="button" value="-"/>

Annual Requirements Beginning Year 1

Rank outfalls to these receiving waters as high priority for IDDE implementation in the initial outfall ranking

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

MCM 3 - IDDE, BMP: Outfall Ranking for Impaired Waters

Public Education and Outreach

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

Annual message encouraging the proper management of pet waste, including noting any existing ordinances where appropriate

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

MCM 1 - Public Education, BMP: Pet Waste in Impaired Water Areas

Permittee or its agents disseminate educational material to dog owners at the time of issuance or renewal of dog license, or other appropriate time

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

MCM 1 - Public Education, BMP: Educational Materials with Dog License

Provide information to owners of septic systems about proper maintenance in any catchment that discharges to a water body impaired for bacteria

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

MCM 1 - Public Education, BMP: Educational Materials to Septic Systems Owners

DRAFT

Solids, Oil and Grease (Hydrocarbons), or Metals

Combination of Impaired Requirements and TMDL Requirements as Applicable

Applicable Receiving Waterbody(ies)	TMDL Name (if applicable)	Add/Delete Row
Grove Pond	N/A	<input type="button" value="+"/> <input type="button" value="-"/>

Annual Requirements Beginning Year 1

Rank outfalls to these receiving waters as high priority for IDDE implementation in the initial outfall ranking

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

MCM 3 - IDDE, BMP: Outfall Ranking for Impaired Waters

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

Increase street sweeping frequency of all municipal owned streets and parking lots to a schedule to target areas with potential for high pollutant loads

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

MCM 6 - Good Housekeeping, BMP: Additional Street Sweeping in Target Areas

Prioritize inspection and maintenance for catch basins to ensure that no sump shall be more than 50 percent full; Clean catch basins more frequently if inspection and maintenance activities indicate excessive sediment or debris loadings

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

MCM 6 - Good Housekeeping, BMP: Additional Catch Basin Cleaning in Target Areas

Requirements Due by Year 2

Stormwater Management in New Development and Redevelopment

Stormwater management systems designed on commercial and industrial land use area draining to the water quality limited water body shall incorporate designs that allow for shutdown and containment where appropriate to isolate the system in the event of an emergency spill or other unexpected event

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

MCM 5 - Post Construction Stormwater Management in New Development and Redevelopment,
BMP: Stormwater Management in Impaired Water Areas of New and Redevelopment

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Phosphorus

Combination of Impaired Waters Requirements and TMDL Requirements as Applicable

Applicable Receiving Waterbody(ies)	TMDL Name (if applicable)	Add/Delete Row
Nashua River (Segment MA81-05)	N/A	<input type="button" value="+"/> <input type="button" value="-"/>

Annual Requirements Beginning Year 1

Rank outfalls to these receiving waters as high priority for IDDE implementation in the initial outfall ranking

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

MCM 3 - IDDE, BMP: Outfall Ranking for Impaired Waters

Public Education and Outreach

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

Distribute 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

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

MCM 1 - Public Education, BMP: Grass Clipping and Fertilizer Use/Disposal

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

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

MCM 1 - Public Education, BMP: Pet Waste in Impaired Water Areas

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

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

MCM 1 - Public Education, BMP: Leaf Waste

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

Increase street sweeping frequency of all municipal 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)

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

MCM 6 - Good Housekeeping, BMP: Additional Street Sweeping in Target Areas

Establish procedures to properly manage grass cuttings and leaf litter on permittee property, including prohibiting blowing organic waste materials onto adjacent impervious surfaces

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

MCM 6 - Good Housekeeping, BMP: Management of Grass Cuttings and Leaf Litter

Stormwater Management in New Development and Redevelopment

Retrofit inventory and priority ranking under 2.3.6.1.b. shall include consideration of BMPs to reduce nitrogen discharges

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

MCM 5 - Post Construction Stormwater Management in New Development and Redevelopment, BMP: Nitrogen Reduction in Impaired Water Areas of New and Redevelopment

Nitrogen Reduction Tracking BMP

Any structural BMPs listed in Table 3 of Attachment 1 to Appendix H already existing or installed in the regulated area by the permittee or its agents shall be tracked and the permittee shall estimate the phosphorus removal by the BMP consistent with Attachment 1 to Appendix H.

The BMP type, total area treated by the BMP, the design storage volume of the BMP and the estimated phosphorus removed in pass per year by the BMP is found in the following document or website and is updated yearly at a minimum:

SWMP

Requirements Due by Year 2

Stormwater Management in New Development and Redevelopment

The requirement for adoption/amendment of the permittee's ordinance or other regulatory mechanism shall include a requirement that new development and redevelopment stormwater management BMPs be optimized for phosphorus removal

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

MCM 4 - Construction Site Stormwater Runoff Control, BMP: Town Bylaw Review and Update

Requirements Due by Year 4

Complete a Phosphorus Source Identification Report

The document name (if attached) and/or web address is/are:

TBD

Stormwater Management in New Development and Redevelopment

Retrofit inventory and priority ranking under 2.3.6.1.b. shall include consideration of BMPs that infiltrate stormwater where feasible

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

MCM 5 - Post Construction Stormwater Management in New Development and Redevelopment, BMP: Infiltration BMPs in Impaired Water Areas of New and Redevelopment

Requirements Due by Year 5

Potential Structural BMPs

Evaluate all permittee-owned properties identified as presenting retrofit opportunities or areas for structural BMP installation under Permit part 2.3.6.d.ii or identified in the Phosphorus Source Identification Report that are within the drainage area of the impaired water or its tributaries

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

MCM 5 - Post Construction Stormwater Management in New Development and Redevelopment, BMP: Structural BMPs in Impaired Water Areas of New and Redevelopment

Complete a listing of planned structural BMPs and a plan and schedule for implementation

The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

MCM 5 - Post Construction Stormwater Management in New Development and Redevelopment, BMP: Structural BMPs in Impaired Water Areas of New and Redevelopment

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