



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 1
5 POST OFFICE SQUARE, SUITE 100
BOSTON, MA 02109-3912

VIA EMAIL

June 26, 2019

Daniel M. Keyes
Town Administrator

And;

James Sullivan
Superintendent of Public Works
53 Elm Street
Blackstone, MA. 01504
jsullivan@townofblackstone.org

Re: National Pollutant Discharge Elimination System Permit ID #: MAR041093, Town of Blackstone

Dear James Sullivan:

The 2016 NPDES General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems in Massachusetts (MS4 General Permit) is a jointly issued EPA-MassDEP permit. Your Notice of Intent (NOI) for coverage under this MS4 General Permit has been reviewed by EPA and appears to be complete. You are hereby granted authorization by EPA and MassDEP to discharge stormwater from your MS4 in accordance with the applicable terms and conditions of the MS4 General Permit, including all relevant and applicable Appendices. This authorization to discharge expires at midnight on **June 30, 2022**.

For those permittees that certified Endangered Species Act eligibility under Criterion C in their NOI, this authorization letter also serves as EPA's concurrence with your determination that your discharges will have no effect on the listed species present in your action area, based on the information provided in your NOI.

As a reminder, your first annual report is due by **September 30, 2019** for the reporting period from May 1, 2018 through June 30, 2019.

Information about the permit and available resources can be found on our website:

<https://www.epa.gov/npdes-permits/massachusetts-small-ms4-general-permit>. Should you have

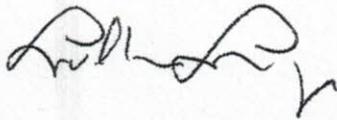
any questions regarding this permit please contact Newton Tedder at tedder.newton@epa.gov or (617) 918-1038.

Sincerely,

A handwritten signature in blue ink that reads "Thelma Murphy". The signature is written in a cursive style with a long, sweeping underline.

Thelma Murphy, Chief
Stormwater and Construction Permits Section
Office of Ecosystem Protection
United States Environmental Protection Agency, Region 1

and;

A handwritten signature in black ink that reads "Lealdon Langley". The signature is written in a cursive style with a long, sweeping underline.

Lealdon Langley, Director
Wetlands and Wastewater Program
Bureau of Water Resources
Massachusetts Department of Environmental Protection

Stormwater Management Program (SWMP)

Blackstone

53 Elm Street MA 01504

EPA NPDES Permit Number MA041015

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

JAMES M. SULLIVAN

Signature

James M. Sullivan

Date

6-26-19

[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)

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):

Stormwater Management Program Team

SWMP Team Coordinator

Name	James Sullivan	Title	Superintendent
Department	Department of Public Works		
Phone Number	508-883-9331	Email	jsullivan@townofblackstone.com
Responsibilities	MCM 1; MCM 2; MCM 3; MCM 4; MCM 5; MCM 6		

SWMP Team

Name	Gino Carlucci	Title	Planning Coordinator ; Coordinator
Department	Planning Board; Building Department / Zoning Board of Appeals		
Phone Number	508-533-8106	Email	gino@pgcassociates.com
Responsibilities	MCM 1; MCM 3; MCM 4; MCM 5		

Name	Daniel M. Keyes	Title	Town Administrator
Department	Board of Selectmen		
Phone Number	508-883-1500, ext. 102	Email	dkeyes@townofblackstone.org
Responsibilities	MCM 2; MCM 3		

Name	Colleen Strapponi	Title	Health Agent
Department	Board of Health		
Phone Number	508-883-1500 ext. 129	Email	cstrapponi@townofblackstone.com
Responsibilities	MCM 2; MCM 4		

Name	<input type="text" value="John Wozniak"/>	Title	<input type="text" value="Chairman"/>
Department	<input type="text" value="Finance Committee"/>		
Phone Number	<input type="text" value="508-883-1500"/>	Email	<input type="text"/>
Responsibilities	<input type="text" value="MCM 3"/>		

Name	<input type="text" value="Kevin Ryan"/>	Title	<input type="text" value="Chairman"/>
Department	<input type="text" value="Health Department"/>		
Phone Number	<input type="text" value="508-883-1500 ext. 129"/>	Email	<input type="text"/>
Responsibilities	<input type="text" value="MCM 2; MCM 4"/>		

Name	<input type="text" value="Paul Marvelle"/>	Title	<input type="text" value="Chairman"/>
Department	<input type="text" value="Planning Board/Zoning Board"/>		
Phone Number	<input type="text" value="508-883-1500 ext. 163"/>	Email	<input type="text"/>
Responsibilities	<input type="text" value="MCM 1; MCM 3, MCM 4, MCM 5"/>		

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	Chloride	Chlorophyll-a	Dissolved Oxygen/DO Saturation	Nitrogen	Oil & Grease/PAH	Phosphorus	Solids/ TSS/ Turbidity	E. coli	Enterococcus	Other pollutant(s) causing impairments
Blackstone River (MA51-06)	19	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cadmium, Copper, DDT, Lead, PCB in fish Tissue, Phosphorous (Total), Total Suspended Solids (TSS)
Mill River (MA51-36)	20	<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"/>	Non-native aquatic plants, aquatic plants (macrophytes), Copper, Other
Fox Brook	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"/>	
Hop Brook	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"/>	
Tributary to Mill River Southwest of Farm St and Pickering Rd	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"/>	
Tributary to Hop Brook crossing Summer St and Autumn Ln	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"/>	
Tributary to Mill River crossing Rathbun St and Elm St	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"/>	
Tributary to Mill River crossing Farm St. and Park St	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"/>	
Tributary to Mill River crossing Carol Ln and Elm St	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"/>	

Tributary to Fox Brook downstream of Crane Pond	2	<input type="checkbox"/>																																																																											
Tributary to Fox Brook upstream of Crane Pond	2	<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)

Blackstone_Species List New England Ecological Services Field Office

- 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):

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):

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:Shared Social Media Post

BMP Number (Optional) PE-1

Document Name and/or Web Address: Think Blue Residents Pet Waste Social Media Post *8/1/19*

BPD Facebook

Description:

A social media post will be shared on Blackstone's Facebook page annually in the summer. The social media post reminds residents to pick up dog waste to keep water clean and provides a link to the Think Blue Massachusetts website.

Targeted Audience: Residents

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

Number of post views, shares, and likes.

Message Date(s): Annually in the summer.

BMP:Flyer Distribution

BMP Number (Optional) PE-2

Document Name and/or Web Address: Think Blue Parking Lot Infographic

Description:

A flyer describing ways that businesses can reduce stormwater will be included in tax bills or by special mailing to businesses, institutions, and commercial facilities. Tips include frequently sweeping parking lots, keeping trash barrels covered, and maintaining stormwater structures frequently.

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

Number of businesses receiving mailing.

Message Date(s): Annually with tax bill mailing.

BMP:Flyer Distribution

BMP Number (Optional) PE-3

Document Name and/or Web Address: Think Blue Developers Sediment Control Flyer

Description:

A flyer describing the importance of erosion controls for construction sites will be distributed with every approved construction permit.

Targeted Audience: Developers (construction)

Responsible Department/Parties: Planning Board

Measurable Goal(s):

Number of flyers distributed, measured as number of construction permits issued per year.

Message Date(s): Rolling throughout the year.

BMP:Flyer Distribution

BMP Number (Optional) PE-4

Document Name and/or Web Address: Think Blue Materials Handling Flyer

Description:

A flyer describing ways that industrial site owners can reduce stormwater pollution will be distributed to every industrial facility with a NPDES permit. Tips include how to properly store and dispose of hazardous materials and how to minimize leaks and spills.

Targeted Audience: Industrial facilities

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

Number of flyers distributed, measured as number of facilities with NPDES permits.

Message Date(s): Annually in the spring

BMP:Flyer Distribution at Town Meeting

BMP Number (Optional) PE-5

Document Name and/or Web Address: Do Your "Doody" for Clean Water

Description:

A flyer describing the negative effects of pet waste on water quality will be distributed at annual town

election.

Targeted Audience: Residents

Responsible Department/Parties: DPW Operations

Measurable Goal(s):
Number of brochures/pamphlets handed out at annual town election.

Message Date(s): Annually at Town Meeting

BMP: Shared Social Media Post

BMP Number (Optional) PE-6

Document Name and/or Web Address: Think Blue Business Waste Disposal Social Media Post

Description:
A social media post will be shared on the Town of Blackstone's Facebook page annually in the fall. The social media post reminds business owners to keep dumpsters covered to keep water clean and provides a link to the Think Blue Massachusetts website.

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: DPW Operations

Measurable Goal(s):
Number of post views, shares, and likes.

Message Date(s): Annually in the fall.

BMP: Press Release

BMP Number (Optional) PE-7

Document Name and/or Web Address: Think Blue Developers Sediment Control Press Release

Description:
A press release about the importance of erosion control on construction sites to prevent stormwater pollution will be posted to the Developers information section of the Town's Stormwater website.

Targeted Audience: Developers (construction)

Responsible Department/Parties: Planning/zoning Department

Measurable Goal(s):

Number of visitors to the Town's stormwater information page for developers.

Message Date(s): Annually in the fall.

BMP: Brochure/Flyer Distribution

BMP Number (Optional) PE-8

Document Name and/or Web Address: "Gas, Oil and Grease...Oh My!"

Description:

A flyer detailing proper handling of gas, oil, and grease for spill prevention, particularly as related to vehicle maintenance, will be provided to all industrial facilities with a NPDES permit during annual inspections.

Targeted Audience: Industrial facilities

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

Number of flyers distributed, measured as number of NPDES permits.

Message Date(s): Annually

BMP: Post to Town Website/ Shared Social Media Post

BMP Number (Optional) PE-9

Document Name and/or Web Address: Think Blue Landscaping Infographic

Description:

A flyer describing lawn and garden tips to reduce stormwater pollution will be posted on the Town of Blackstone website. The link to the flyer will be shared on social media twice a year (once in the spring and once in the fall). This flyer discusses proper disposal of yard waste (grass clippings and leaf litter) and fertilizer use.

Targeted Audience: Residents

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

Number of post views, shares, and likes.

Message Date(s): Twice annually in the spring and the fall.

BMP:Brochure/Flyer Distribution

BMP Number (Optional) PE-10

Document Name and/or Web Address: "Septic Systems How They Work and How to Keep Them Working"

Description:

A flyer describing the proper operation and maintenance of a septic system.

Targeted Audience: Residents

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

Number of flyers distributed, measured as number of NPDES permits.

Message Date(s): Annually

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.

BMP: Public Review of Stormwater Management Program

BMP Number (Optional) PP-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) PP-2

Description:

Responsible Department/Parties:

Measurable Goal(s):

BMP: Public Participation in Cleanups

BMP Number (Optional) PP-3

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

Add BMP

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) ID-1 _____

Completed (by May 1, 2008)

Ordinances Link or Reference:

Department Responsible for Enforcement:

BMP: Sanitary Sewer Overflow (SSO) Inventory

BMP Number (Optional) ID-2 _____

Completed (by year 1)

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

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.

The MassDEP contacts are:
Northeast Region (978) 694-3215
205B Lowell Street
Wilmington, MA 01887
Central Region (508) 792-7650
8 New Bond Street
Worcester, MA 01606
Southeast Region (508) 946-2750
20 Riverside Drive
Lakeville, MA 02347
Western Region (413) 784-1100
436 Dwight Street
Springfield, MA 01103
24-hour Emergency Line 1-888-304-1133

The EPA contacts are:
EPA New England (617) 918-1510
5 Post Office Square
Boston, MA 02109

BMP: Map of Storm Sewer System

BMP Number (Optional) ID-3

Phase I Completed
(by year 2)

Phase II Completed
(by year 10)

Document Location and/or Web Address:

Description:

Create map of outfalls, receiving waters, open channel conveyances, interconnections, catch basins, municipally-owned BMPs, catchment delineations, and drainage manholes in the Town of Blackstone 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) ID-4

Written Document Completed (by year 1)

Document Name and/or Web Address:

Description:

Create written IDDE program, implement IDDE program and conduct outfall screening. Complete initial outfall ranking.

Responsible Department/Parties: DPW Operations/Consultant Support

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:

BMP: Employee Training

BMP Number (Optional) ID-5 _____

Description:

Train employees on IDDE implementation.

Responsible Department/Parties: Board of Selectmen

Measurable Goal(s):

Training occurs annually.

BMP: Dry Weather Screening

BMP Number (Optional) ID-6 _____

Completed

Document Name and/or Web Address: _____

Description:

Conduct dry weather screening

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

Complete 3 years after effective date of permit

BMP:Wet Weather Screening

BMP Number (Optional) ID-7

Completed

Document Name and/or Web Address:

Description:

Conduct wet weather screening

Responsible Department/Parties:

Measurable Goal(s):

Complete 10 years after effective date of permit

BMP:Outfall Screening

BMP Number (Optional) ID-8

Completed

Document Name and/or Web Address:

Description:

Ongoing screening

Responsible Department/Parties:

Measurable Goal(s):

Complete ongoing outfall screening upon completion of IDDE program

BMP:System Improvement Plan

BMP Number (Optional) ID-9

Completed

Document Name and/or Web Address:

Description:

Implement system improvement plan

Responsible Department/Parties:

Measurable Goal(s):

Evaluate repair costs and prioritize upgrades based on needs and cost

BMP:Capital Improvement Plan

BMP Number (Optional) ID-10

Completed

Document Name and/or Web Address:

Description:

Capital Improvement Plan

Responsible Department/Parties: DPW, Board of Selectmen, Finance Committee

Measurable Goal(s):

Propose fund and complete drainage capital improvements based on needs and funds

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) CS-1

Completed (by May 1, 2008)

Ordinances Link or Reference:

Department Responsible for Enforcement:

BMP: Site Plan Review Procedures

BMP Number (Optional) CS-2

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) CS-3

Completed (by year 1)

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

BMP: Waste Control

BMP Number (Optional) CS-4

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 washes

Responsible Department/Parties:

Measurable Goal(s):

Complete within 1 year of the effective date of permit

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) PC-1

Completed (by year 2)

Town Ordinances Link or Reference:

Department Responsible for Enforcement:

BMP: Street Design and Parking Lot Guidelines Report

BMP Number (Optional) PC-2

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 July 1, 2021 with progress reported annually.

BMP: Green Infrastructure Report

BMP Number (Optional) PC-3

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 July 1, 2021 with progress reported annually.

BMP: List of Municipal Retrofit Opportunities

BMP Number (Optional) PC-4

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 July 1, 2021 and updated as needed.

BMP: As-built plans for on-site stormwater control

BMP Number (Optional) PC-5

Completed

Document Name and/or Web Address:

Description:

The procedures to require submission of as-built drawings and ensure long term operation and maintenance will be added to the Storm Water Bylaw

Responsible Department/Parties:

Measurable Goal(s):

Require and track submission of as-built plans for completed projects

BMP: Retention and Treatment Requirements

BMP Number (Optional) PC-6

Completed

Document Name and/or Web Address:

Description:

Ensure any stormwater controls or management practices for new development and redevelopment meet the retention or treatment requirements of the permit and all applicable requirements of the Massachusetts Stormwater Handbook

Responsible Department/Parties:

Measurable Goal(s):

Adoption, amendment, or modification of a regulatory mechanism to meet permit requirements. Complete by

July 1, 2020.

Add BMP

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) GH-1

Written Document Completed (by year 2)

Document Name and/or Web Address:

Description:

Create written O&M procedures including all requirements contained in 2.3.7.a.ii for parks and open spaces, buildings and facilities, and vehicles and equipment. These plans will include procedures to properly manage grass cuttings and leaf litter, including blowing organic waste onto adjacent impervious surfaces.

Responsible Department/Parties:

Measurable Goal(s):

Implement the SOP listed above on 100% of the parks and open spaces.

Properties List (Optional):

BMP: Buildings and Facilities Operations and Maintenance Procedures

BMP Number (Optional) GH-2

Written Document Completed (by year 2)

Document Name and/or Web Address:

Description:

Create written Operations and Maintenance procedures for buildings and facilities. These plans will include procedures to properly manage grass cuttings and leaf litter, including blowing organic waste onto adjacent impervious surfaces.

Responsible Department/Parties:

Measurable Goal(s):

Implement the SOP listed above on 100% of buildings and facilities.

Properties List (Optional):

BMP: Vehicles and Equipment Operations and Maintenance Procedures

BMP Number (Optional) GH-3

Written Document Completed (by year 2)

Document Name and/or Web Address:

Description:

Create written Operations and Maintenance procedures for vehicles and equipment.

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

Implement the SOP listed above for 100% of vehicles and equipment according to the above document.

Properties List (Optional):

INFRASTRUCTURE

BMP: Infrastructure Operations and Maintenance Procedures

BMP Number (Optional) GH-4

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: DPW Operations

Measurable Goal(s):

100% of infrastructure is maintained to ensure proper function in accordance with the procedures above.

BMP: Catch Basin Cleaning Program

BMP Number (Optional) GH-5

Written Procedure Completed (by year 1)

Document Name and/or Web Address:

"Municipal Stormwater Infrastructure Operation and Maintenance Plan"

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: DPW Operations

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.

BMP: Street Sweeping Program

BMP Number (Optional) GH-6

Written Procedure Completed (by year 1)

Document Name and/or Web Address: "Municipal Stormwater Infrastructure Operation and Maintenance Plan"

Description:

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

Responsible Department/Parties: DPW Operations

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) GH-7

Written Procedure Completed (by year 1)

Document Name and/or Web Address: "Municipal Stormwater Infrastructure Operation and Maintenance Plan"

Description:

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

Responsible Department/Parties: DPW Operations

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) GH-8

Completed (by year 1)

"Municipal Stormwater Infrastructure Operation and Maintenance

Document Name and/or Web Address: Plan"

Description:

Establish and implement inspection and maintenance procedures and frequencies for structures such as water quality swales, retention/detention basins, infiltration structures, proprietary treatment devices, or other similar structures excluding catch basins.

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

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

BMP: SWPPP

BMP Number (Optional) GH-9 **Completed (by year 2)**

Document Name and/or Web Address: N/A

Description:

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

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

Develop and implement SWPPPs for 100% of facilities.

BMP: Inventory all town-owned parks/open spaces, buildings and facilities, and vehicles and equipment

BMP Number (Optional) GH-10 **Completed**

Document Name and/or Web Address: N/A

Description:

Create inventory

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

Complete within 2 years of effective date of the permit and implement annually.

BMP:

BMP Number (Optional) _____

Completed

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

BMP:

BMP Number (Optional) _____

Completed

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

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

TMDLs and Water Quality Limited Waters

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
Blackstone River (MA51-06)	Draft Pathogen TMDL for the Blackstone River Watershed	<input type="checkbox"/> + <input type="checkbox"/> -

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:

ID-4

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:

PE-1

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:

PE-5

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:

PE-10

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
Blackstone River (MA51-06)	N/A	<input type="checkbox"/> + <input type="checkbox"/> -
Mill River (MA51-36)	N/A	<input type="checkbox"/> + <input type="checkbox"/> -

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:

ID-4

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:

This will be incorporated into GH-6.

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:

This will be incorporated into GH-5.

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:

Not yet completed, expected to be completed by Year 2.

Phosphorus

Combination of Impaired Waters Requirements and TMDL Requirements as Applicable

Applicable Receiving Waterbody(ies)	TMDL Name (if applicable)	Add/Delete Row
Blackstone River (MA51-06)	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:

ID-4

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:

PE-9

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:

PE-1

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:

PE-9

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:

This will be incorporated into GH-6.

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:

PE-1

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:

PC-4

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:

Not yet completed.

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:

Not yet completed, expected to be completed by Year 2.

Requirements Due by Year 4

Complete a Phosphorus Source Identification Report

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

Not yet completed, expected to be completed by Year 4.

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:

Not yet completed, expected to be completed by Year 4.

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:

Not yet completed, expected to be completed by Year 5.

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:

Not yet completed, expected to be completed by Year 5.