

Stormwater Management Program (SWMP)

City of Brockton

45 School Street MA 02301

EPA NPDES Permit Number MAR041098

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:

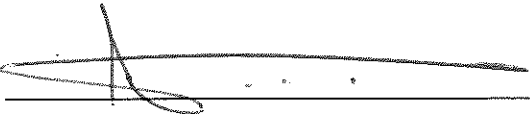
- ☐ Attached to this document (document name listed below)

- ☐ 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)

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	Lawrence Rowley	Title	DPW Commissioner
Department	Department of Public Works		
Phone Number	(508)580-7135	Email	LRowley@cobma.us
Responsibilities			

SWMP Team

Name	Chike Odeunukwe	Title	City Engineer
Department	Department of Public Works		
Phone Number	(508) 580-7139	Email	codeunukwe@cob.ma.us
Responsibilities			

Name		Title	
Department			
Phone Number		Email	
Responsibilities			

Add SWMP Member

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:

[illegible]

Daley 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"/>
Leonards Pond	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"/>
Coweaset River	29	<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"/>
West Meadow Brook	63	<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"/>
Black Betty Brook	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"/>
Dorchester Brook	37	<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"/>

[Click here to lengthen table](#)

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):

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:Brochures/Pamphlets

BMP Number (Optional) 1-1

Document Name and/or Web Address:

Description:

Proper disposal of grass clippings and proper use of slow-release fertilizers.

Targeted Audience: Businesses, institutions, commercial facilities and residents

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

Pamphlet is distributed during the April/May time frame.

Message Date(s): Two per permit term.

BMP:Brochures/Pamphlets

BMP Number (Optional) 1-2

Document Name and/or Web Address:

Description:

Scoop the Poop

Targeted Audience: Residents

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

Pamphlet will be distributed to dog owners at the time of issuance or renewal of a dog license and will be distributed twice over the permit term.

Message Date(s): Two per permit term.

BMP:Brochures/Pamphlets

BMP Number (Optional) 1-3

Document Name and/or Web Address:

Description:

Proper disposal of leaf litter.

Targeted Audience: Businesses, institutions, commercial facilities and residents

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

Pamphlet will be distributed during the August/September/October time frame.

Message Date(s): Two per permit term.

BMP: Brochures/Pamphlets

BMP Number (Optional) 1-4

Document Name and/or Web Address:

Description:

A guide to proper dumpster management

Targeted Audience: Industrial facilities, institutions and commercial facilities

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

Pamphlet will be distributed to the target audience twice over the permit term.

Message Date(s): Two per permit term.

BMP: Brochures/Pamphlets

BMP Number (Optional) 1-5

Document Name and/or Web Address:

Description:

LID - stormwater design for land developers.

Targeted Audience: Developers (construction)

Responsible Department/Parties: Department of Public Works, Department of Planning and Economic Development

Measurable Goal(s):

Pamphlet will be distributed to the target audience twice over the permit term and will be posted on the Department of Planning and Economic Development web page.

Message Date(s): Two per permit term.

BMP:Brochures/Pamphlets

BMP Number (Optional) 1-6

Document Name and/or Web Address:

Description:

General stormwater education

Targeted Audience: Residents

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

Pamphlet will be distributed to the target audience twice over the permit term.

Message Date(s): Two per permit term.

BMP:Brochures/Pamphlets

BMP Number (Optional) 1-7

Document Name and/or Web Address:

Description:

Stormwater management for the proactive business owner.

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: Department of Public Infrastructure.

Measurable Goal(s):

Pamphlet will be distributed to the target audience twice over the permit term.

Message Date(s): Two per permit term.

BMP:Brochures/Pamphlets

BMP Number (Optional) 1-8

Document Name and/or Web Address:

Description:

General stormwater pollution prevention for small residential construction sites

Targeted Audience: Developers (construction)

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

Pamphlet will be distributed to the target audience twice over the permit term.

Message Date(s):

BMP:Brochures/Pamphlets

BMP Number (Optional) 1-9

Document Name and/or Web Address:

Description:

General stormwater pollution prevention for industrial sites

Targeted Audience: Industrial facilities

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

Pamphlet will be distributed to the target audience twice over the permit term.

Message Date(s): Two per permit term.

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) 2-1

Location of Plan and/or Web Address:

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

The Stormwater Management Program will be publicly available. Annual review will be provided and the Stormwater Management Program will be implemented. Meetings and reviews that the public may attend will be posted.

BMP: Public Participation in Stormwater Management Program Development

BMP Number (Optional) 2-2

Description:

Annual review will be provided and the Stormwater Management Program will be implemented. Meetings and reviews that the public may attend will be posted.

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

Annual public input provided.

BMP: Household Hazardous Waste Collection

BMP Number (Optional) 2-3

Document Name and/or Web Address:

Description:

Household hazardous waste and used oil will be collected from houses throughout the City.

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

One collection day will be held annually.

BMP: Hotline/Webline

BMP Number (Optional) 2-4

Document Name and/or Web Address:

Description:

The public will be able to report problems and violations regarding stormwater management.

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

Hotline will be operated 24 hours per day, 365 days per year.

BMP: Catch Basin Stenciling/Markers

BMP Number (Optional) 2-5

Document Name and/or Web Address:

Description:

Catch basins will be stenciled or marked with "Don't dump" messages.

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

Decals will be placed on catch basins

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) 3-1

Completed (by May 1, 2008) ☒

Ordinances Link or Reference: Ordinances: https://library.municode.com/ma/brockton/codes/code_of_ordinances?nodeId=PTIIREOR_CH3ANFO
Brockton Stormwater Management Manual

Department Responsible for Enforcement:

BMP: Sanitary Sewer Overflow (SSO) Inventory

BMP Number (Optional) 3-2

Completed (by year 1) ☒

Document Name and/or Web Address:

Description:

A sanitary sewer overflow (SSO) inventory was developed in accordance of permit conditions. All SSOs that entered the MS4 system in the past 5 years were recorded. The inventory included location, date, time, and volume of the occurrence, as well as a description of suspected cause, whether it entered a surface water, and corrective measures completed and planned. SSOs were also reported and tracked under the capacity, management, operations, and maintenance (CMOM) program.

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

The following SSO information will be annually tracked and reported: 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. The inventory will be updated 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> <p>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</p>	<p>The EPA contacts are:</p> <p>EPA New England (617) 918-1510 5 Post Office Square Boston, MA 02109</p>
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BMP: Map of Storm Sewer System

BMP Number (Optional) 3-3

Phase I Completed ☐
(by year 2)

Phase II Completed ☐
(by year 10)

Document Location and/or Web Address:

Description:

A map will be created detailing the MS4 system and outfalls and will be updated during IDDE program completion. Aspects included in the map for the different phases are outlined in the MS4 permit.

Responsible Department/Parties:

Measurable Goal(s):

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 will be mapped within 2 years of the permit's effective date. 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) will be mapped within 10 years of the permit's effective date.

BMP: IDDE Program

BMP Number (Optional) 3-4

Written Document Completed (by year 1) ☐

Document Name and/or Web Address:

Description:

IDDE program will be written and catchment investigations will be implemented according to program and permit conditions. Storm drainage systems that pose a concern of non-stormwater discharges will be inspected, funding procedures for mitigation of the discharges will be developed, and connections will continue to be identified, located, and removed.

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

100% of outfall screening on High and Low Priority Outfalls will be conducted within 3 years of the permit's effective date. Catchment investigations for 100% of the Problem Outfalls will be completed within 7 years of the permit's effective date. 100% of all catchment investigations will be completed 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) 3-5

Description:

Employees will be trained on IDDE implementation.

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

Training will occur annually. Includes training to recognize illicit discharges and SSOs.

BMP: Dry Weather Screening

BMP Number (Optional) 3-6

Completed ☒

Document Name and/or Web Address:

Description:

Dry weather screening was conducted in accordance with the outfall screening procedure and permit conditions. Information required is outlined in the permit, and included follow-up ranking of outfalls and interconnections. Outfalls and interconnections were inspected for the presence of dry weather flow. Samples were collected if flow was present, and were analyzed for surfactants, ammonia, chlorine, bacteria and others.

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

Screening was completed within 3 years of the permit effective date.

BMP:Wet Weather Screening

BMP Number (Optional) 3-7

Completed ☐

Document Name and/or Web Address:

Description:

Wet weather screening will be conducted in accordance with the outfall screening procedure.

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

Screening will be completed 10 years after permit effective date.

BMP:Ongoing Screening

BMP Number (Optional) 3-8

Completed ☐

Document Name and/or Web Address:

Description:

Each outfall or interconnection will be re-prioritized once every 5 years, followed by conduction of dry weather and wet weather screening as necessary.

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

Ongoing outfall screening will be completed upon finalization of IDDE program.

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) 4-1

Completed (by May 1, 2008) ☒

Ordinances Link or Reference:
Brockton Stormwater Management Manual

Department Responsible for Enforcement:

BMP: Site Plan Review Procedures

BMP Number (Optional) 4-2

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) 4-3

Completed (by year 1) ☐

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

BMP:Waste Control

BMP Number (Optional) 4-4

Completed ☐

Document Name and/or Web Address: Ordinances: https://library.municode.com/ma/brockton/codes/code_of_ordinances?nodeId=PTIIREOR_CH3ANFO
Brockton Stormwater Management Manual

Description:

Requirements to control waste will be adopted, including but not limited to, discarded building materials, concrete truck wash out, chemicals, litter, and sanitary wastes. These waste must not be discharged to the MS4.

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

Enforcement and penalties will begin 1 month after ordinance is passed. Procedures will be completed within 18 months to 2 years of permit effective date.

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) 5-1

Completed (by year 2) ☒

Town Ordinances Link or Reference: Ordinance: https://library.municode.com/ma/brockton/codes/code_of_ordinances?nodeId=PTIIREOR_CH3ANFO
Brockton Stormwater Management Manual

Department Responsible for Enforcement:

BMP: Street Design and Parking Lot Guidelines Report

BMP Number (Optional) 5-2

Completed (by year 4) ☐

Document Name and/or Web Address:

Description:

A report assessing requirements that affect the creation of impervious cover will be developed. 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 will be implemented by 2021 with progress reported annually. The report will be completed 4 years after permit effective date and recommendations will be implemented.

BMP: Green Infrastructure Report

BMP Number (Optional) 5-3

Completed (by year 4) ☐

Document Name and/or Web Address:

Description:

A report will be developed 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 will be implemented by 2021 with progress reported annually. The report will be completed 4 years after permit effective date and recommendations will be implemented.

BMP: List of Municipal Retrofit Opportunities

BMP Number (Optional) 5-4

Completed (by year 4) ☐

Document Name and/or Web Address:

Description:

At least 5 properties will be identified that could be modified or retrofitted with BMPs to reduce impervious areas and the list will be updated annually.

Responsible Department/Parties:

Measurable Goal(s):

The list will be completed 4 years after permit effective date and reported annually on retrofitted properties.

BMP:As-Built Plans

BMP Number (Optional) 5-5

Completed ☐

Document Name and/or Web Address:

Description:

The as-built plans will include site controls designed to manage stormwater associated with the completed site. Submission of as-built drawings will be required to ensure long-term operation and maintenance.

Responsible Department/Parties:

Measurable Goal(s):

Plans will be submitted within 2 years of completed projects.

BMP:Retention and Treatment Requirements

BMP Number (Optional) 5-6

Completed ☐

Document Name and/or Web Address:

Description:

Stormwater controls or management practices for new development and redevelopment will meet the retention or treatment requirements of the permit and all applicable requirements of the Massachusetts Stormwater Handbook. Program will include adoption, amendment, or modification of a regulatory mechanism to meet permit requirements. Full requirements are outlined in the permit.

Responsible Department/Parties:

Measurable Goal(s):

Adherence to permit will be completed 2 years after permit effective date.

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) 6-1

Written Document Completed (by year 2) ☐

Document Name and/or Web Address:

Description:

O&M procedures will be written for parks and open spaces. An inventory of all parks and open spaces will be created. It will include procedures for proper use, storage, and disposal of hazardous materials, and proper management of other substances that may enter stormwater systems.

Responsible Department/Parties:

Measurable Goal(s):

SOP will be implemented on 100% of the parks and open spaces and will be completed 2 years after permit effective date.

Properties List (Optional):

BMP: Buildings and Facilities Operations and Maintenance Procedures

BMP Number (Optional) 6-2

Written Document Completed (by year 2) ☐

Document Name and/or Web Address:

Description:

O&M procedures will be written for buildings and facilities. An inventory of all buildings and facilities will be created. It will include procedures for proper use, storage, and disposal of hazardous materials, and proper management of other substances that may enter stormwater systems.

Responsible Department/Parties:

Measurable Goal(s):

SOP will be implemented on 100% of buildings and facilities and will be completed 2 years after permit effective date.

Properties List (Optional):

BMP: Vehicles and Equipment Operations and Maintenance Procedures

BMP Number (Optional) 6-3

Written Document Completed (by year 2) ☐

Document Name and/or Web Address:

Description:

O&M procedures will be written for vehicles and equipment. An inventory of all vehicles and equipment will be created. It will include procedures for proper use, storage, and disposal of hazardous materials, and proper management of other substances that may enter stormwater systems.

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

SOP will be implemented for 100% of vehicles and equipment and will be completed 2 years after permit effective date.

Properties List (Optional):

INFRASTRUCTURE

BMP: Infrastructure Operations and Maintenance Procedures

BMP Number (Optional) 6-4

Written Procedure Completed (by year 2) ☐

Document Name and/or Web Address: Department of Public Works

Description:

A program for repair and rehabilitation of MS4 infrastructure will be established and implemented. The program will include procedures to reduce the amount of pollutants that are discharged from the MS4.

Responsible Department/Parties:

Measurable Goal(s):

100% of infrastructure will be maintained to ensure proper function in accordance with the procedures above. The program will be completed 2 years after program effective date.

BMP: Catch Basin Cleaning Program

BMP Number (Optional) 6-5

Written Procedure Completed (by year 1) ☐

Document Name and/or Web Address:

Description:

A schedule will be established for cleaning such that each catch basin is no more than 50% full and will be cleaned on that schedule. It will include optimization of inspections, cleaning and maintenance of catch basins. It will include records of maintained catch basins and procedures for cleaning. Those with large volumes will be closely monitored and prioritized.

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

All catch basins will be cleaned in accordance to the document above such that catch basins will not be more than 50% full at any given time. Catch basins will be cleaned on an established schedule and the number of catch basins cleaned and volume of material moved will be reported annually.

BMP: Street Sweeping Program

BMP Number (Optional) 6-6

Written Procedure Completed (by year 1) ☐

Document Name and/or Web Address:

Description:

All streets and parking lots will be swept in accordance with permit conditions. Areas of high concern will be swept more frequently, based on inspections, pollutant loads, catch basin cleaning, land use, water quality, and other relevant factors. Records of sweeping and volume of material collected will be maintained.

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

100% of all streets and 50% of all municipal parking lots will be swept annually.

BMP: Winter Road Maintenance Program

BMP Number (Optional) 6-7

Written Procedure Completed (by year 1) ☐

Document Name and/or Web Address:

Description:

A program to minimize the use of road salt will be established and implemented. It will include use and storage procedures, as well as snow disposal practices that do not allow pollutants to enter the stormwater system.

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

At least one salt/chloride alternative will be evaluated for use in the municipality. Salt use optimization will be implemented during de-icing season.

BMP: Stormwater Treatment Structures Inspection and Maintenance Procedures

BMP Number (Optional) 6-8

Completed (by year 1) ☐

Document Name and/or Web Address:

Description:

Inspection and maintenance procedures and frequencies of stormwater treatment structures will be established and implemented.

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

100% of treatment structures will be inspected and maintained to ensure proper function.

BMP: SWPPP

BMP Number (Optional) 6-9

Completed (by year 2) ☐

Document Name and/or Web Address:

Description:

SWPPPs will be created for maintenance garages, public works services, transfer stations, and other waste-handling facilities. They will include the pollution prevention team, description of the facility and potential pollutants, identification of stormwater controls, control measures, etc.

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

SWPPPs for 100% of facilities will be developed and implemented 2 years after permit effective date.

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
Salisbury Plain River (MA62-05, MA62-06), Trout Brook (MA62-07), Salisbury Brook (MA62-08), Beaver Brook (MA62-09)	Final Pathogen TMDL for the Taunton River Watershed, June 2011	<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:

Outfall prioritization included in IDDE plan.

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:

BMP #1-2: Scoop the Poop
City of Brockton Ordinance 3-6

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:

BMP #1-2: Scoop the Poop

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:

N/A

Nitrogen

Combination of Impaired Waters Requirements and TMDL Requirements as Applicable

Applicable Receiving Waterbody(ies)	TMDL Name (if applicable)	Add/Delete Row
		<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:

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 fertilizers

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

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:

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:

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

Establish requirements for the use of slow release fertilizers on permittee owned property currently using fertilizer, in addition to reducing and managing fertilizer use as provided in part 2.3.7.1

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

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:

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:

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 nitrogen 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 nitrogen removed in mass per year by the BMP is found in the following document or website and is updated yearly at a minimum:

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 nitrogen removal

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

Requirements Due by Year 4

Complete a Nitrogen Source Identification Report

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

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:

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 Nitrogen 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:

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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:

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Chloride

Applicable Receiving Waterbody(ies)	TMDL Name (if applicable)	Add/Delete Row
		<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:

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))

Include an annual message in November/December to private road salt applicators and commercial industrial site owners on the proper storage and application rates of winter deicing material, along with the steps that can be taken to minimize salt use and protect local waterbodies

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

Requirements Due by Year 3

Develop a Salt Reduction Plan

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

Requirements Due by Year 4

Continue implementation of the Salt Reduction Plan

Requirements Due by Year 5

Fully implement the Salt Reduction Plan

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
Salisbury Plain River (MA62-06), Trout Brook (MA62-07)		<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:

Outfall prioritization included in IDDE plan.

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:

BMP 6-6: Street sweeping program

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:

BMP #6-5: Catch basin cleaning

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:

BMP #5-6: Retention and Treatment Requirements
Massachusetts Stormwater Handbook Standard 5

Phosphorus

Combination of Impaired Waters Requirements and TMDL Requirements as Applicable

Applicable Receiving Waterbody(ies)	TMDL Name (if applicable)	Add/Delete Row
Salisbury Plain River (MA62-06)		<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:

Outfall prioritization included in IDDE plan.

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:

BMP #1-1: Proper disposal of grass clippings and proper use of slow-release fertilizers

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:

BMP #1-2: Scoop the Poop

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:

BMP #1-3: Proper disposal of leaf litter

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:

BMP #6-6: Street sweeping program

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:

N/A

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:

BMP #5-4: List of municipal retrofit opportunities

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:

Phosphorus Identification Source Report

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:

Ordinances: https://library.municode.com/ma/brockton/codes/code_of_ordinances?nodeId=PTIIREOR_CH3ANFO
Brockton Stormwater Management Manual

Requirements Due by Year 4

Complete a Phosphorus Source Identification Report

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

Phosphorus Source Identification Report

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:

BMP #5-4: List of municipal retrofit opportunities

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:

BMP #5-4: List of municipal retrofit opportunities

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:

Phosphorus Source Identification Report

Charles River Watershed Phosphorus TMDL

PCP Phase	Document Location
I (completed by year 5)	
II (completed by year 10)	
III (completed by year 15)	

Lake and Pond Phosphorus TMDL

Begin Phase 1 of the Lake Phosphorus Control Plan during year 1 and complete by year 5.

Applicable Receiving Waterbody(ies)	PCP Complete	Document Location	Add/Delete Row
	<input type="checkbox"/>		<input type="checkbox"/> <input type="checkbox"/>