

Stormwater Management Program (SWMP)

City of Springfield, Massachusetts

36 Court Street

01103

EPA NPDES Permit Number MAR041023

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)

SPFD-delegation-of-authority

- 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

CHRIS CIGNOLI

Signature



Date

7-1-19

[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)

The City of Springfield has been a regulated community since 2003 and has expended considerable resources in the prevention of stormwater pollution. The entirety of Springfield is mapped as urbanized area with approximately 20,000 catch basins and 347 outfalls. We look forward to expanding our program to meet the requirements of the 2016 MA permit.

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	Christopher Cignoli	Title	Director of Public Works
Department	Public Works		
Phone Number	413-750-2808	Email	ccignoli@springfieldcityhall.com
Responsibilities	general NPDES permit compliance, oversight and delegation of responsibilities		

SWMP Team

Name	Kevin Chaffee	Title	Natural Resources Manager
Department	Planning and Economic Development		
Phone Number	413-787-6020	Email	kchaffee@springfieldcityhall.com
Responsibilities	Permit compliance, auditing, reporting, education and outreach, inspections and representing the City in our regional stormwater committee.		

Name	Luca Mineo	Title	Civil Engineer, Senior
Department	Streets and Engineering		
Phone Number	413-787-6214	Email	lmineo@springfieldcityhall.com
Responsibilities	permit compliance, IDDE program implementation,		

Add SWMP Member

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

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

n/a

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

n/a

MCM 1

Public Education and Outreach

Permit Part 2.3.2

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

Examples and Templates:

[EPA's Stormwater Education Toolbox](#)

[MassDEP's Stormwater Outreach Materials](#)

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

BMP:[BMP name here]

BMP Number (Optional) A-1

Document Name and/or Web Address: 2016 Permit Education and Outreach Plan - Updated May 14 2019

Description:

Flyer: Dumpster waste and avoiding contaminated flows. Will be provided to waste management companies in region for distribution to business customers. Customize Think Blue MA materials

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: External Contractor

Measurable Goal(s):

estimated audience, # of materials distributed

Message Date(s): Year 2

BMP:[BMP name here]

BMP Number (Optional) A-2

Document Name and/or Web Address: 2016 Permit Education and Outreach Plan - Updated May 14 2019

Description:

Letter: Installation of hooded catch basins to keep fuels from local surface waters. Letter is sent to facility directors of properties with large parking lots.

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: External Contractor

Measurable Goal(s):

estimated audience, materials distributed, responses given

Message Date(s): Year 4

BMP:[BMP name here]

BMP Number (Optional) A-3

Document Name and/or Web Address: Leaf Litter Flyer

Description:

Letter: Proper disposal of leaf litter. Letter from our regional stormwater committee to landscapers in region on importance of proper disposal to avoid contamination of stormwater and local waterways. Fact sheets created to list locations for proper disposal of leaf litter and send laminated resource to landscapers.

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: External Contractor

Measurable Goal(s):

Estimated audience, materials distributed, responses given

Message Date(s): Letter sent in the fall Years 1, 3 and 5, Fact sheets on years 2 and 4

BMP:[BMP name here]

BMP Number (Optional) A-4

Document Name and/or Web Address: Lawn Flyer - Option B

Description:

Letter: sent to professional landscapers in the region on proper use and disposal of grass clippings and use of slow release fertilizers based on soil conditions present. Workshops to be developed with UMASS Cooperative Extension for professional landscapers

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: External Contractor

Measurable Goal(s):

Estimated audience reached, materials distributed and attendance at workshops.

Message Date(s): Letter in year 1 and year 5; workshops on years 2, 3 and 4.

BMP:[BMP name here]

BMP Number (Optional) A-5

Document Name and/or Web Address: 2016 Permit Education and Outreach Plan - Updated May 14 2019

Description:

Letter: to businesses, commercial and institutional property owners explaining strategies for geese management and resources

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: External Contractor

Measurable Goal(s):

estimated audience, materials distributed, survey of parks and DPW officials to ID problem areas and quantify nature of the problem

Message Date(s): Year 1 and 4

BMP: [BMP name here]

BMP Number (Optional) A-6

Document Name and/or Web Address: 2016 Permit Education and Outreach Plan - Updated May 14 2019

Description:

Letter: offering template for signs for larger properties at problem locations to deal with Pet Waste. Run panels on PVTA bus routes and issue press release

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: External Contractor

Measurable Goal(s):

Estimated audience, materials distributed, number of bus routes with signage panel

Message Date(s): Letter with template on year 2 and 5; bus panel on year 3

BMP: [BMP name here]

BMP Number (Optional) A-7

Document Name and/or Web Address: 2016 Permit Education and Outreach Plan - Updated May 14 2019

Description:

Workshop: at regional conference w/ survey at the end. To discuss new MS4 development standards and E&S controls. Second workshop to discuss LID strategies and technologies

Targeted Audience: Developers (construction)

Responsible Department/Parties: External Contractor

Measurable Goal(s):

Improved understanding of topics discussed using survey

Message Date(s): New MS4 workshop on year 2; LID workshop year 3

BMP:[BMP name here]

BMP Number (Optional) A-8

Document Name and/or Web Address: 2016 Permit Education and Outreach Plan - Updated May 14 2019

Description:

Fact sheet: for industrial facility directors concerning fleet maintenance

Targeted Audience: Industrial facilities

Responsible Department/Parties: External Contractor

Measurable Goal(s):

estimated audience, materials distributed

Message Date(s): Year 2

BMP:[BMP name here]

BMP Number (Optional) A-9

Document Name and/or Web Address: 2016 Permit Education and Outreach Plan - Updated May 14 2019

Description:

Letter to facility directors of properties with large parking lots concerning installation of hooded catch basins to keep fuels from local surface waters

Targeted Audience: Industrial facilities

Responsible Department/Parties: External Contractor

Measurable Goal(s):

estimated audience, materials distributed

Message Date(s): Year 4

BMP:[BMP name here]

BMP Number (Optional) A-10

Document Name and/or Web Address: Think Blue CT River - Pet Waste Poster

Description:

Posters and letters to veterinary offices with follow up by each SW coordinator, "Spike materials" ; Pledge cards to state I will pick up after my pet and properly dispose of waste; panels on PVTA buses on pet waste

Targeted Audience: Residents

Responsible Department/Parties: Conservation Committee

Measurable Goal(s):

increased awareness about connection between dog waste and polluted rivers based on estimated audience, materials distributed and pledges.

Message Date(s): posters letters on years 1, 4; pledge cards on years 2 and 5; panels on buses year 3

BMP:[BMP name here]

BMP Number (Optional) A-11

Document Name and/or Web Address: 2016 Permit Education and Outreach Plan - Updated May 14 2019

Description:

Video: "15 Minutes to the River", Think Blue Video, Radio Interview on local radio, launch of Think Blue CT River website; panels on PVTA buses concerning cigarette butts and nip bottles

Targeted Audience: Residents

Responsible Department/Parties: External Contractor

Measurable Goal(s):

Increased awareness about stormwater pollution based on estimated audience and materials distributed

Message Date(s): videos, radio and website in year 1; cigarette butts panel on bus year 2; Nip bottle panels on year 4

BMP:[BMP name here]

BMP Number (Optional) A-12

Document Name and/or Web Address: 2016 Permit Education and Outreach Plan - Updated May 14 2019

Description:

Informational materials on proper disposal of leaf litter including flyers/door hangers, press releases/social media posts and PSA

Targeted Audience: Residents

Responsible Department/Parties: External Contractor

Measurable Goal(s):

increased awareness about composting and value of leaf litter based on estimated audience and materials submitted.

Message Date(s): flyers and door hangers years 1 and 3; press release years 2 and 4; PSA on year 5

BMP: [BMP name here]

BMP Number (Optional) A-13

Document Name and/or Web Address: 2016 Permit Education and Outreach Plan - Updated May 14 2019

Description:

information regarding proper use and disposal of grass clippings and encourage proper use of slow release fertilizers.

Targeted Audience: Residents

Responsible Department/Parties: External Contractor

Measurable Goal(s):

Increased awareness about connection between fertilizers and polluted rivers, streams, lakes and use of grass clippings as fertilizers based on estimated audience and materials distributed

Message Date(s): years 1-5

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) B-1

Location of Plan and/or Web Address: Hard copy will be at DPW Facility, 70 Tapley St. Online at DPW website:

Responsible Department/Parties: DPW Operations

Measurable Goal(s):
Stormwater Management Plan is publicly available.

BMP: Public Participation in Stormwater Management Program Development

BMP Number (Optional) B-2

Description:
Publish a request for review by the public to visit plan on website and provide email contact for comment.

Responsible Department/Parties: DPW Operations

Measurable Goal(s):
Annual public input provided.

BMP: [BMP name here]

BMP Number (Optional) B-3

Document Name and/or Web Address: n/a

Description:
Participation in annual City-wide Earth Day Cleanup

Responsible Department/Parties: DPW Operations

Measurable Goal(s):
Number of volunteers, tons of refuse collected, tons of metal and tires recycled

BMP: [BMP name here]

BMP Number (Optional) B-4

Document Name and/or Web Address: n/a

Description:

Public participation in household waste and recycling program; participation in household yard waste composting program; participation in household hazardous waste drop-off events

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

Tons of trash and recycling collected, tons of yard waste composted at Bondies Island, volume household hazardous waste collected

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) C-1

Completed (by May 1, 2008)

Ordinances Link or Reference:

Department Responsible for Enforcement:

BMP: Sanitary Sewer Overflow (SSO) Inventory

BMP Number (Optional) C-2

Completed (by year 1)

Document Name and/or Web Address:

Description:

The Springfield Water and Sewer Commission is private utility and the responsible Party for Sanitary Sewer Overflows.

Responsible Department/Parties:

Measurable Goal(s):

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

SSO Reporting:

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

<p>The MassDEP contacts are: 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: 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) C-3

Phase I Completed
(by year 2)

Phase II Completed
(by year 10)

Document Location and/or Web Address:

Description:

All measurable goals have been met at this time.

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) C-4

Written Document Completed (by year 1)

Document Name and/or Web Address:

Description:

Between 2015-present, the City of Springfield has performed the following:

1. Dry weather flow monitoring and visual inspections of all 383 outfalls within the limits of the City of Springfield. Outfall reconnaissance inventory (ORI) forms were filled out for each outfall. Information collected includes, but not limited to, outfall location, material, shape, dimensions, submerged vs. not submerged, any issues with sediment, any issues with trash or debris. Information regarding the physical condition of the outfall was also collected, including but not limited to outfall damage, deposits/stains, abnormal vegetation, poor pool quality and pipe benethic growth. Most importantly, the City also documented whether the outfall showed signs of dry weather flow. Dry weather flow information collected included, but not limited to, description of flow and analysis of physical indicators such odor, color, turbidity and floatables. A total of 127 outfalls showed signs of dry weather flow.
2. The City issued an RFP for the engineering/testing services as part of it's IDDE program, eventually retaining Brown and Caldwell to assist the City in its IDDE program. Stormwater/flow samples were taken from all 127 outfalls that showed signs of dry weather flow and laboratory testing was performed per EPA guidelines. Laboratory analysis of the stormwater/flow samples indicated 91 outfalls showed signs of possible contamination. The City has ranked the outfalls in terms of priority as either high, medium and low.

3. Upstream investigations have been performed on 69 of the 91 outfalls that showed signs of possible contamination, based upon the severity of water contamination, following the EPA New England Source Tracking Protocol. 478 upstream inlet inspections were performed along with CCTV investigations on 13,485 linear feet of stormwater pipe segments.

4. From the upstream investigations, two illicit discharges were found. The City reached out to both suspected property owners whose infrastructure was illegally tied into the City's stormwater drainage system. The City worked with the property owners to verify that the illegal connections were in fact theirs and both illicit discharges were expeditiously removed.

Responsible Department/Parties: The Department of Public Works of the City of Springfield

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:

Insert Links Here

BMP: Employee Training

BMP Number (Optional) C-4 _____

Description:

MS4 Training video created for employee training regarding good housekeeping and IDDE.

Responsible Department/Parties: Environment Department

Measurable Goal(s):

Training occurs annually.

BMP: [BMP name here]

BMP Number (Optional) _____

Completed

Document Name and/or Web Address: _____

Description:

Responsible Department/Parties:

Measurable Goal(s):

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) D-1

Completed (by May 1, 2008)

Ordinances Link or Reference:

Department Responsible for Enforcement:

BMP: Site Plan Review Procedures

BMP Number (Optional) D-2

Written procedures completed (by year 1)

Document Name and/or Web Address:

Description:

The Department of Public Works of the City of Springfield developed site plan, traffic report, and drainage report checklists from existing DPW requirements, best practices from other communities and plans submitted by several consulting engineering firms. The purpose of these checklists are to clarify, standardize, and simplify our requirements; to aid in internal site plan review procedures; and to ultimately reduce the submission to approval time to enhance economic development in the City of Springfield.

These checklists are “living documents” which will modified as needed based on changes in technology, Federal & State regulation / guidance, City Ordinance, and customer feed back.

Responsible Department/Parties:

Measurable Goal(s):

Conduct site plan review of 100% of projects according to the procedures outlined above.

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

BMP Number (Optional) D-3

Completed (by year 1)

Document Name and/or Web Address:

Description:

Construction sites that lack adequate stormwater controls can contribute a significant amount of sediment to nearby bodies of water. The City of Springfield has developed site inspection and enforcement of sediment and erosion control measures procedures for evaluating compliance of stormwater controls at construction sites.

Responsible Department/Parties:

Measurable Goal(s):

Inspect 100% of construction sites as outlined in the above document and take enforcement actions as needed.

BMP:[BMP name here]

BMP Number (Optional) D-4

Completed

Document Name and/or Web Address: n/a

Description:

Conduct pre-construction meetings with all applicable parties to ensure compliance with NPDES regulations

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

number of projects per year where pre-construction consultation occurs

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) E-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) E-2

Completed (by year 4)

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

BMP: Green Infrastructure Report

BMP Number (Optional) E-3

Completed (by year 4)

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

BMP: List of Municipal Retrofit Opportunities

BMP Number (Optional) E-4

Completed (by year 4)

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

BMP:[BMP name here]

BMP Number (Optional) _____

Completed

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

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) F-1

Written Document Completed (by year 2)

Document Name and/or Web Address:

Description:

Standard operating procedures for the management of vegetation and materials on all Park Department properties in order to reduce chemical use/waste and to prevent grass/leaves/etc out of MS4 system

Responsible Department/Parties:

Measurable Goal(s):

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

Properties List (Optional):

SEE SOP document

BMP: Buildings and Facilities Operations and Maintenance Procedures

BMP Number (Optional) F-2

Written Document Completed (by year 2)

Document Name and/or Web Address:

Description:

Standard Operating Procedures for the maintenance of all buildings within the municipality

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) F-3

Written Document Completed (by year 2)

Document Name and/or Web Address:

Description:

Standard Operation procedures for maintaining vehicles and equipment to reduce the frequency of releases of hazardous materials and liquids to the MS4

Responsible Department/Parties:

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) F-4

Written Procedure Completed (by year 2)

Document Name and/or Web Address:

Description:

General standard operating procedures for City infrastructure

Responsible Department/Parties:

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) _____

Written Procedure Completed (by year 1)

Document Name and/or Web Address:

Description:

Standard Operating Procedures for the maintenance of the City's catch basins to reduce sediment and hazardous materials from MS4

Responsible Department/Parties:

Measurable Goal(s):

All catch basins are cleaned in accordance to the document above such that no catch basin is more than 50% full at any given time.

BMP: Street Sweeping Program

BMP Number (Optional) _____

Written Procedure Completed (by year 1)

Document Name and/or Web Address: Springfield_OM_Plan

Description:

SOP for Street sweeping program to reduce sediment and hazardous materials from MS4

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) _____

Written Procedure Completed (by year 1)

Document Name and/or Web Address: Springfield_OM_Plan

Description:

Responsible Department/Parties: Engineering

Measurable Goal(s):

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

BMP: Stormwater Treatment Structures Inspection and Maintenance Procedures

BMP Number (Optional) _____

Completed (by year 1)

Document Name and/or Web Address: Springfield Green Infrastructure Plan - PVPC

Description:

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

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

BMP: SWPPP

BMP Number (Optional) _____

Completed (by year 2)

Document Name and/or Web Address: swppp_Spfd_2019

Description:

Stormwater Pollution Prevention Plan for all buildings within the City to reduce hazardous materials entering the MS4

Responsible Department/Parties: Parks/Recreation

Measurable Goal(s):

Develop and implement SWPPPs for 100% of facilities.

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:

TBD

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
Please see document: Spfd_receiving_waters		<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:

C-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:

A-6, A-10

 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:

A-6, A-10

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:

vast majority of Springfield is municipal waste water system, septic information will be available for small number of homes requiring

Nitrogen

Combination of Impaired Waters Requirements and TMDL Requirements as Applicable

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

Annual Requirements Beginning Year 1

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:

A-13

 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:

A-6, A-10

 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:

A-12

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:

A-13

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:

A-13

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:

Springfield MA Operations and Maintenance plan for municipal infrastructure

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:

See ordinance

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:

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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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
		<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:

See IDDE program implementation information

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:

O&M Plan

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:

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:

Phosphorus

Combination of Impaired Waters Requirements and TMDL Requirements as Applicable

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

Annual Requirements Beginning Year 1

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:

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

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:

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:

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 phosphorus discharges

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

Phosphorus 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:

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:

Requirements Due by Year 4

Complete a Phosphorus 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 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:

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:

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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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="button" value="+"/> <input type="button" value="-"/>

