

# **Stormwater Management Program (SWMP)**

City of Fitchburg

166 Boulder Dr      MA      01420

EPA NPDES Permit Number MAR041189

# 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

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):

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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	Nicholas Erickson, PE	Title	Civil Engineer
Department	Department of Public Works		
Phone Number	(978) 829-1905	Email	nerickson@fitchburgma.gov
Responsibilities	Administering the SWMP.		

## SWMP Team

Name	Gary Withington	Title	Superintendent of Streets
Department	Department of Public Works		
Phone Number	978-829-1901	Email	gwithington@fitchburgma.gov
Responsibilities	Operation and maintenance of the stormwater system.		

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Name	Stephen L. DiNatale	Title	Mayor
Department			
Phone Number	978-829-1801	Email	sdinatale@fitchburgma.gov
Responsibilities	Authorized signatory.		

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:

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Waterbody segment that receives flow from the MS4	Number of outfalls into receiving water segment	Chloride	Chlorophyll-a	Dissolved Oxygen/DO Saturation	Nitrogen	Oil & Grease/PAH	Phosphorus	Solids/ TSS/ Turbidity	E. coli	Enterococcus	Other pollutant(s) causing impairments
Baker Brook (MA81-62)	13	<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"/>	Cat. 3
Falulah Brook (MA81-63)	46	<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"/>	Cat. 3
Flag Brook (MA81-10)	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"/>	Cat. 2
Greenes Pond	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Monoosuc Brook (MA81-13)	6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Escherichia coli
North Nashua River (MA81-01)	24	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Escherichia coli
North Nashua River (MA81-02)	90	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ambient Bioassays -- Chronic Aquatic Toxicity, Aquatic Macroinvertebrate Bioassessments, Escherichia coli
Phillips Brook (MA81-12)	11	<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"/>	Cat. 2
Sand Brook	20	<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"/>	
Sawmill Pond (MA81118)	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cat. 4C
Shea Brook	4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Sheldon Brook	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	







# 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.

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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

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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: Material/Post on Town Website**

**BMP Number (Optional)** \_\_\_\_\_

**Document Name and/or Web Address:**

**Description:**

**Targeted Audience:**

**Responsible Department/Parties:**

**Measurable Goal(s):**

**Message Date(s):**

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**BMP: Fact Sheet - Parking Lot Stormwater Runoff**

**BMP Number (Optional)** \_\_\_\_\_

**Document Name and/or Web Address:**

**Description:**

**Targeted Audience:**

**Responsible Department/Parties:**

**Measurable Goal(s):**

**Message Date(s):**

---

**BMP: Fact Sheet Distribution**

**BMP Number (Optional)** \_\_\_\_\_

**Document Name and/or Web Address:**

**Description:**

Fact Sheet for Developers to be Posted on City's Website, Distributed via Email, and Available in Hard Copy at City Offices.

**Targeted Audience:**

**Responsible Department/Parties:**

**Measurable Goal(s):**

Survey Monkey/Doodle Poll to measure effectiveness of messaging.

**Message Date(s):**

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**BMP: Fact Sheet Distribution**

**BMP Number (Optional)** \_\_\_\_\_

**Document Name and/or Web Address:**

**Description:**

Fact Sheet for Industrial Facilities to be Posted on City's Website, Distributed via Email, and Available in Hard Copy at City Offices.

**Targeted Audience:**

**Responsible Department/Parties:**

**Measurable Goal(s):**

Survey Monkey/Doodle Poll to measure effectiveness of messaging.

**Message Date(s):**

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**BMP: Display/Kiosk**

**BMP Number (Optional)** \_\_\_\_\_

**Document Name and/or Web Address:**

**Description:**

Display/Kiosk to be Set Up at City Hall.

**Targeted Audience:** Residents

**Responsible Department/Parties:** DPW Engineering

**Measurable Goal(s):**

Survey Monkey/Doodle Poll to measure effectiveness of messaging.

**Message Date(s):** 2020

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**BMP: Cable Access TV or Local Radio Spot.**

**BMP Number (Optional)** \_\_\_\_\_

**Document Name and/or Web Address:** \_\_\_\_\_

**Description:**

Cable Access TV or Local Radio spot.

**Targeted Audience:** Businesses, institutions and commercial facilities

**Responsible Department/Parties:** DPW Engineering

**Measurable Goal(s):**

Survey Monkey/Doodle Poll to measure effectiveness of messaging.

**Message Date(s):** 2021

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**BMP: Social Media Post**

**BMP Number (Optional)** \_\_\_\_\_

**Document Name and/or Web Address:** \_\_\_\_\_

**Description:**

Social Media Posts in the Spring, Summer, and Fall Annually per Requirements of Appendix H Parts II and III.

**Targeted Audience:** Residents, Businesses, institutions and commercial facilities

**Responsible Department/Parties:** DPW Engineering

**Measurable Goal(s):**

Survey Monkey/Doodle Poll to measure effectiveness of messaging.

Message Date(s): 2018

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**BMP: Fact Sheet - Construction Pollution Prevention**

BMP Number (Optional) \_\_\_\_\_

Document Name and/or Web Address: <http://www.ci.fitchburg.ma.us/463/Stormwater-Management-Program>

**Description:**

ThinkBlue MA fact sheet: Tips to Reduce Stormwater Runoff during Construction

Targeted Audience: Developers (construction)

Responsible Department/Parties: Engineering

Measurable Goal(s):

Message Date(s): 2020

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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)** \_\_\_\_\_

**Location of Plan and/or Web Address:**

**Responsible Department/Parties:**

**Measurable Goal(s):**

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**BMP: Public Participation in Stormwater Management Program Development**

**BMP Number (Optional)** \_\_\_\_\_

**Description:**

**Responsible Department/Parties:**

**Measurable Goal(s):**

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**BMP: Engage with advocacy groups**

**BMP Number (Optional)** \_\_\_\_\_

**Document Name and/or Web Address:**

**Description:**

**Responsible Department/Parties:**

**Measurable Goal(s):**

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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)** \_\_\_\_\_

**Completed (by May 1, 2008)**

**Ordinances Link or Reference:**

**Department Responsible for Enforcement:**

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**BMP: Sanitary Sewer Overflow (SSO) Inventory**

**BMP Number (Optional)** \_\_\_\_\_

**Completed (by year 1)**

**Document Name and/or Web Address:**

**Description:**

**Responsible Department/Parties:**

**Measurable Goal(s):**

**SSO Reporting:**

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

<p>The MassDEP contacts are:</p> <p>Northeast Region (978) 694-3215  205B Lowell Street  Wilmington, MA 01887</p> <p>Central Region (508) 792-7650  8 New Bond Street  Worcester, MA 01606</p> <p>Southeast Region (508) 946-2750  20 Riverside Drive  Lakeville, MA 02347</p> <p>Western Region (413) 784-1100  436 Dwight Street  Springfield, MA 01103</p> <p>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)** \_\_\_\_\_ **Phase I Completed**  (by year 2) **Phase II Completed**  (by year 10)

**Document Location and/or Web Address:**

**Description:**

**Responsible Department/Parties:**

**Measurable Goal(s):**

**BMP: IDDE Program**

**BMP Number (Optional)** \_\_\_\_\_ **Written Document Completed** (by year 1)

**Document Name and/or Web Address:**

**Description:**

conditions. Conduct dry weather and wet weather screening as necessary.

**Responsible Department/Parties:** DPW Engineering/DPW Operations

**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:**

On file with the DPW Engineering Division.

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**BMP: Employee Training**

**BMP Number (Optional)** \_\_\_\_\_

**Description:**

Train employees on IDDE implementation.

**Responsible Department/Parties:** DPW Engineering/DPW Operations

**Measurable Goal(s):**

Training occurs at least annually. During the reporting period, IDDE training was held on 6/20/19.

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**BMP:**

**BMP Number (Optional)** \_\_\_\_\_

**Completed**

**Document Name and/or Web Address:** \_\_\_\_\_

**Description:**

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**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)** \_\_\_\_\_ **Completed** (by May 1, 2008)

**Ordinances Link or Reference:**

**Department Responsible for Enforcement:**

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**BMP: Site Plan Review Procedures**

**BMP Number (Optional)** \_\_\_\_\_ **Written procedures completed** (by year 1)

**Document Name and/or Web Address:**

**Description:**

**Responsible Department/Parties:**

**Measurable Goal(s):**

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

**BMP Number (Optional)** \_\_\_\_\_ **Completed** (by year 1)

**Document Name and/or Web Address:**

**Description:**

**Responsible Department/Parties:**

**Measurable Goal(s):**

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**BMP:Erosion and Sediment Control**



BMP Number (Optional) \_\_\_\_\_

Completed

Document Name and/or Web Address:

**Description:**

Adoption of requirements for construction operators to implement a sediment and erosion control program.

Responsible Department/Parties:

**Measurable Goal(s):**

Complete within 1 year of the effective date of permit. (Also see [http://www.ci.fitchburg.ma.us/DocumentCenter/View/4865/Rules-and-Regulations\\_chapter-154\\_102318\\_v2](http://www.ci.fitchburg.ma.us/DocumentCenter/View/4865/Rules-and-Regulations_chapter-154_102318_v2))

**BMP:Waste Control**

BMP Number (Optional) \_\_\_\_\_

Completed

Document Name and/or Web Address:

**Description:**

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

Responsible Department/Parties:

**Measurable Goal(s):**

Complete within 1 year of the effective date of permit. (Also see [http://www.ci.fitchburg.ma.us/DocumentCenter/View/4865/Rules-and-Regulations\\_chapter-154\\_102318\\_v2](http://www.ci.fitchburg.ma.us/DocumentCenter/View/4865/Rules-and-Regulations_chapter-154_102318_v2))

Add BMP

# MCM 5

## Post Construction Stormwater Management in New Development and Redevelopment

Permit Part 2.3.6

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

**Examples and Templates:**

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

**BMP: Post-Construction Ordinance**

BMP Number (Optional) \_\_\_\_\_

Completed (by year 2)

Town Ordinances Link or Reference:

Department Responsible for Enforcement:

---

**BMP: Street Design and Parking Lot Guidelines Report**

BMP Number (Optional) \_\_\_\_\_

Completed (by year 4)

Document Name and/or Web Address:

**Description:**

Responsible Department/Parties:

**Measurable Goal(s):**

---

**BMP: Green Infrastructure Report**

BMP Number (Optional) \_\_\_\_\_

Completed (by year 4)

Document Name and/or Web Address:

**Description:**

Responsible Department/Parties:

**Measurable Goal(s):**

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**BMP: List of Municipal Retrofit Opportunities**

**BMP Number (Optional)** \_\_\_\_\_

**Completed (by year 4)**

**Document Name and/or Web Address:**

**Description:**

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

**Responsible Department/Parties:**

**Measurable Goal(s):**

The list is completed by (DATE) and updated as needed.

**BMP:As-built Plans for On-site Stormwater Control**

**BMP Number (Optional)** \_\_\_\_\_

**Completed**

**Document Name and/or Web Address:**

**Description:**

The procedures to require submission of as-built drawings and ensure long term operation and maintenance will be a part of the SWMP.

**Responsible Department/Parties:**

**Measurable Goal(s):**

Require submission of as-built plans for completed projects.

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) \_\_\_\_\_

Written Document Completed (by year 2)

Document Name and/or Web Address: Stormwater Management Manual - Operations and Maintenance for Municipal Facilities

**Description:**

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

Responsible Department/Parties: DPW Engineering

**Measurable Goal(s):**

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

**Properties List (Optional):**

### BMP: Buildings and Facilities Operations and Maintenance Procedures

BMP Number (Optional) \_\_\_\_\_

Written Document Completed (by year 2)

Document Name and/or Web Address: Stormwater Management Manual - Operations and Maintenance for Municipal Facilities

**Description:**

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

Responsible Department/Parties: DPW Engineering

**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) \_\_\_\_\_

Written Document Completed (by year 2)

Document Name and/or Web Address:

**Description:**

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

Responsible Department/Parties: DPW Engineering

**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) \_\_\_\_\_

Written Procedure Completed (by year 2)

Document Name and/or Web Address:

Stormwater Management Manual - Operations and Maintenance for Municipal Facilities

**Description:**

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

Responsible Department/Parties: DPW Engineering\DPW Operations

**Measurable Goal(s):**

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

### BMP: Catch Basin Cleaning Program

BMP Number (Optional) \_\_\_\_\_

Written Procedure Completed (by year 1)

Document Name and/or Web Address: In progress

**Description:**

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

**Responsible Department/Parties:** DPW Engineering\DPW Operations

**Measurable Goal(s):**

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

**BMP: Street Sweeping Program**

**BMP Number (Optional)** \_\_\_\_\_

**Written Procedure Completed (by year 1)**

**Document Name and/or Web Address:** In progress

**Description:**

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

**Responsible Department/Parties:** DPW Engineering\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:** In progress

**Description:**

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

**Responsible Department/Parties:** DPW Engineering\DPW Operations

**Measurable Goal(s):**

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

**BMP: Stormwater Treatment Structures Inspection and Maintenance Procedures**

**BMP Number (Optional)** \_\_\_\_\_

**Completed (by year 1)**



**Document Name and/or Web Address:** In progress

**Description:**

Establish and implement inspection and maintenance procedures and frequencies.

**Responsible Department/Parties:** DPW Engineering\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:** Stormwater Management Manual - Operations and Maintenance for Municipal Facilities

**Description:**

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

**Responsible Department/Parties:** DPW Engineering

**Measurable Goal(s):**

Develop and implement SWPPPs for 100% of facilities.

**BMP:Inventory All Permittee-owned Parks, Open Spaces, Buildings, Facilities, Vehicles and Equipment**

**BMP Number (Optional)** \_\_\_\_\_

**Completed**

**Document Name and/or Web Address:** Stormwater Management Manual - Operations and Maintenance for Municipal Facilities

**Description:**

Create Inventory.

**Responsible Department/Parties:** \_\_\_\_\_

**Measurable Goal(s):**

Complete 2 years after effective date of permit and implement annually.

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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:

# 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
MA81-01 North Nashua River		<input type="button" value="+"/> <input type="button" value="-"/>
MA81-02 North Nashua River		<input type="button" value="+"/> <input type="button" value="-"/>
MA81-13 Monoosnuc Brook		<input type="button" value="+"/> <input type="button" value="-"/>

### Annual Requirements Beginning Year 1

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 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))*

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 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:

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 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:

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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:

# Phosphorus

## Combination of Impaired Waters Requirements and TMDL Requirements as Applicable

Applicable Receiving Waterbody(ies)	TMDL Name (if applicable)	Add/Delete Row
MA81-05 Nashua River		<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:

#### *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:

Lawn and Garden Care Fact Sheet available June 2020: <http://www.ci.fitchburg.ma.us/463/Stormwater-Management-Program>

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:

Pet Waste Fact Sheet available June 2020: <http://www.ci.fitchburg.ma.us/463/Stormwater-Management-Program>

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*

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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:

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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:

Best Management Practices/Procedures are included in the City's Stormwater Management Manual - O&M for Municipal Facilities

*Stormwater Management in New Development and Redevelopment*

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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:

*Nitrogen Reduction Tracking BMP*

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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*

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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:

The City's Stormwater Ordinance and Rules and Regulations address this requirement.

Requirements Due by Year 4

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Complete a Phosphorus Source Identification Report

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

*Stormwater Management in New Development and Redevelopment*

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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*

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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:

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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: