

# 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

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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 October 1, 2018

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

[http://www.ci.fitchburg.ma.us/DocumentCenter/View/4861/2016-EPA-MS4-Permit NOI Fitchburg\\_Signed](http://www.ci.fitchburg.ma.us/DocumentCenter/View/4861/2016-EPA-MS4-Permit NOI Fitchburg_Signed)

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Authorization to Discharge was granted on April 22, 2019

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

[http://www.ci.fitchburg.ma.us/DocumentCenter/View/4862/MA-MS4-Authorization Fitchburg\\_MA041189](http://www.ci.fitchburg.ma.us/DocumentCenter/View/4862/MA-MS4-Authorization Fitchburg_MA041189)

# Stormwater Management Program Team

## SWMP Team Coordinator

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

## SWMP Team

Name	Ryan Killeen	Title	Assistant City Engineer
Department	Department of Public Works		
Phone Number	(978) 829-1918	Email	rkilleen@fitchburgma.gov
Responsibilities	Operation and maintenance of the stormwater system.		

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Name	Samantha Squailia	Title	Mayor
Department			
Phone Number	(978) 829-1801	Email	mayor@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:

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	Phosphorus	Solids/TSS/Turbidity	E. coli	Enterococcus	Other pollutant(s) causing impairments
Baker Brook (MA81-62)	13	<input type="checkbox"/>	<input type="checkbox"/>	Category 3								
Falulah Brook (MA81-63)	46	<input type="checkbox"/>	<input type="checkbox"/>	Category 3								
Flag Brook	5	<input type="checkbox"/>	<input type="checkbox"/>	Category 2								
Greenes Pond	1	<input type="checkbox"/>	<input type="checkbox"/>									
Monocsnoc Brook (MA81-13)	6	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Escherichia coli							
North Nashua River (MA81-01)	24	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Escherichia coli							
North Nashua River (MA81-02)	90	<input 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"/>	Category 2								
Sand Brook	20	<input type="checkbox"/>	<input type="checkbox"/>									
Sawmill Pond (MA81118)	4	<input type="checkbox"/>	<input type="checkbox"/>	Category 4C								
Shea Brook	4	<input type="checkbox"/>	<input type="checkbox"/>									
Sheldon Brook	1	<input type="checkbox"/>	<input type="checkbox"/>									
Snows Millpond (MA81127)	3	<input type="checkbox"/>	<input type="checkbox"/>	Category 3								



[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.

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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

<http://www.fitchburgma.gov/463/Stormwater-Management-Program>

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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

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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:** <http://www.ci.fitchburg.ma.us/463/Stormwater-Management-Program>

**Description:**

Incorporate Think Blue MA Educational Campaign Tools into City's Website and Social Media.

**Targeted Audience:** Residents

**Responsible Department/Parties:** DPW Engineering

**Measurable Goal(s):**

The City is a member of the Central MA Regional Stormwater Coalition and receives Educational Advertisement Campaign reports tracking metrics for the advertising campaign.

**Message Date(s):** Annual Ad Campaign.

## BMP: Parking Lot Stormwater Runoff Fact Sheet

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

**Document Name and/or Web Address:** <http://www.ci.fitchburg.ma.us/DocumentCenter/View/6458/Fact-Sheet---Parking-Lot-Stormwater-Runoff>

**Description:**

Fact sheet on best practices to reduce pollution from runoff occurring in parking lots. Distributed by posting on City web page.

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

**Responsible Department/Parties:** DPW Engineering

**Measurable Goal(s):**

Number of website views, reported in Year 5 Annual Report.

**Message Date(s):** June 30, 2020

## BMP:Fact Sheet for Developers Distribution

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

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

<http://www.ci.fitchburg.ma.us/DocumentCenter/View/6457/Fact-Sheet---Construction-Pollution-Prevention>

**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:** Developers (construction)

**Responsible Department/Parties:** Conservation/DPW Engineering/Planning

**Measurable Goal(s):**

Number of website views, reported in Year 5 Annual Report.

**Message Date(s):** 2020 & 2022

### BMP:Stormwater Pollution Prevention for Industrial Sites Fact Sheet

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

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

<http://www.ci.fitchburg.ma.us/DocumentCenter/View/10246/Fact-Sheet---Stormwater-Pollution-Prevention-at-Industrial-Sites>

**Description:**

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

**Targeted Audience:** Industrial facilities

**Responsible Department/Parties:** DPW Engineering

**Measurable Goal(s):**

Number of website views, reported in Year 5 Annual Report.

**Message Date(s):** 2021 & 2023

### 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):	Number of flyers distributed.

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:

ThinkBlue Massachusetts Fowl Water Ad Campaign video.

Targeted Audience:	Businesses, institutions and commercial facilities
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Responsible Department/Parties:	DPW Engineering
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Measurable Goal(s):

The City is a member of the Central MA Regional Stormwater Coalition and receives Educational Advertisement Campaign reports tracking metrics for the advertising campaign.
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Message Date(s):	Annual Ad Campaign in May or June.
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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.
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Targeted Audience:	Residents, Businesses, Institutions, and Commercial Facilities
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Responsible Department/Parties:	DPW Engineering
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**Measurable Goal(s):**

Number of views and social media interactions, reported in Year 5 Annual Report.

**Message Date(s):** 2018, ongoing

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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/DocumentCenter/View/6457/Fact-Sheet---Construction-Pollution-Prevention>

**Description:**

"Plan Ahead to Prevent Pollution" Fact Sheet from "Think Blue Massachusetts". A fact sheet on how to prevent pollutants from construction activities from entering stormwater systems and waterways. Distributed by posting on City web page.

**Targeted Audience:** Developers (Construction)

**Responsible Department/Parties:** Engineering

**Measurable Goal(s):**

Number of website views.

**Message Date(s):** June 30, 2020

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**BMP: Pet Waste Fact Sheet & Social Media Post (Annual)****BMP Number (Optional)****Document Name and/or Web Address:**

<http://www.ci.fitchburg.ma.us/DocumentCenter/View/6456/Fact-Sheet---Pet-Waste>

**Description:**

Fact sheet on Pet Waste and impacts on waterways. Fact sheet covers hazards of pet waste and proper disposal methods. Distributed by posting on City web page and Facebook page annually.

**Targeted Audience:** Residents

**Responsible Department/Parties:** DPW Engineering

**Measurable Goal(s):**

Number of website views and number of social media impressions, reported in Year 5 Annual Report.

**Message Date(s):** Fact sheet was distributed June 30, 2020; Social Media graphic was posted June 28, 2023

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### BMP: Lawn and Garden Care Fact Sheet

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

**Document Name and/or Web Address:** <http://www.ci.fitchburg.ma.us/DocumentCenter/View/6455/Fact-Sheet---Lawn-and-Garden-Care>

**Description:**

Fact sheet from "Think Blue Massachusetts" regarding proper lawn and garden maintenance and how to limit pollutants from lawn maintenance activities from entering stormwater systems and waterways. Distributed by posting on City web page.

**Targeted Audience:** Residents

**Responsible Department/Parties:** DPW Engineering

**Measurable Goal(s):**

Number of website views, reported in Year 5 Annual Report.

**Message Date(s):** June 30, 2020

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### BMP: Tips for Creating a Healthy Yard Fact Sheet

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

**Document Name and/or Web Address:** <http://www.ci.fitchburg.ma.us/DocumentCenter/View/6892/Fact-Sheet---Tips-for-Creating-a-Healthy-Yard>

**Description:**

Fact sheet on healthy yard maintenance including organic practices and information on fertilizer, pesticides and herbicides.

Distributed by posting on City web page.

**Targeted Audience:** Residents

**Responsible Department/Parties:** DPW Engineering

**Measurable Goal(s):**

Number of website views, reported in Year 5 Annual Report.

**Message Date(s):** June 30, 2020

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## BMP: Tips for Septic System Owners Fact Sheet (Annual)

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

**Document Name and/or Web Address:** <http://www.ci.fitchburg.ma.us/DocumentCenter/View/6891/Fact-Sheet---Tips-for-Septic-System-Owners>

**Description:**

Fact sheet on the proper septic system maintenance. Distributed by posting on City web page.

**Targeted Audience:** Residents

**Responsible Department/Parties:** DPW Engineering

**Measurable Goal(s):**

The IT Department has the ability to monitor web traffic and downloads from the City web page.

**Message Date(s):** June 30, 2020

## BMP: Grease Disposal Social Media Post

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

**Document Name and/or Web Address:** <http://www.ci.fitchburg.ma.us/DocumentCenter/View/12584/Protecting-Pipes-from-Grease>

**Description:**

A grease disposal social media infographic was posted to the Town's Facebook page to educate on the impact of grease on pipes and how to properly dispose of it. Available on City website as well.

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

**Responsible Department/Parties:** DPW Engineering

**Measurable Goal(s):**

Number of social media impressions, reported in Year 5 Annual Report.

**Message Date(s):** June 28, 2023

## BMP: Household Chemical Disposal Social Media Post

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

**Document Name and/or Web Address:** [http://www.ci.fitchburg.ma.us/DocumentCenter/View/12586/  
Household-Chemicals-and-Cleaners](http://www.ci.fitchburg.ma.us/DocumentCenter/View/12586/Household-Chemicals-and-Cleaners)

**Description:**

A household chemical disposal social media infographic was posted to the Town's Facebook page including information on the events the town has for hazardous waste disposal. Available on City website as well.

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

**Responsible Department/Parties:** DPW Engineering

**Measurable Goal(s):**

Number of social media impressions, reported in Year 5 Annual Report.

**Message Date(s):** June 28, 2023

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**BMP: Yard Waste Social Media Post**

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

**Document Name and/or Web Address:** [http://www.ci.fitchburg.ma.us/DocumentCenter/View/12587/  
Grass-Clippings-and-Yard-Debris](http://www.ci.fitchburg.ma.us/DocumentCenter/View/12587/Grass-Clippings-and-Yard-Debris)

**Description:**

A yard waste social media infographic was posted to the Town's Facebook page to educate on the environmental impact that grass clippings and yard debris can have when not properly disposed. Available on City website as well.

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

**Responsible Department/Parties:** DPW Engineering

**Measurable Goal(s):**

Number of social media impressions, reported in Year 5 Annual Report.

**Message Date(s):** June 28, 2023

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**BMP: Vehicle Fluid Management Social Media Post**

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

**Document Name and/or Web Address:** <http://www.ci.fitchburg.ma.us/DocumentCenter/View/12588/>

**Description:**

A vehicle fluid management social media infographic was posted to the Town's Facebook page to educate on the environmental impact that vehicle fluid can have on waterways if it enters the stormwater system. Available on City website as well.

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

**Responsible Department/Parties:** DPW Engineering

**Measurable Goal(s):**

Number of social media impressions, reported in Year 5 Annual Report.

**Message Date(s):** June 28, 2023

**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:** <http://www.ci.fitchburg.ma.us/463/Stormwater-Management-Program>

**Responsible Department/Parties:** DPW Engineering/Stormwater Committee

**Measurable Goal(s):**

Stormwater Management Plan is publicly available.

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## BMP: Public Participation in Stormwater Management Program Development

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

**Description:**

Consistent with the City's approved NOI, the SWMP was posted to the City web page with the public encouraged to submit comments to DPW Engineering.

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

**Measurable Goal(s):**

Annual public input provided. The stormwater program and budget is discussed at City Council meetings at least annually.

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## BMP: Rain Barrel Program

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

**Document Name and/or Web Address:** <http://www.fitchburgma.gov/DocumentCenter/View/3392/Rain-Barrel-Program---Informational-Poster?bidId=>

**Description:**

The City's DPW Engineering Division, DPW Wastewater Division, and Conservation Commission partnered with the "Great American Rain Barrel" Company to facilitate a City-subsidized rain barrel purchase program. The City has held the program as an effort to grow "green infrastructure". The program was not held during Year 7.

**Responsible Department/Parties:** DPW Engineering, DPW Wastewater, Conservation Commission

**Measurable Goal(s):**

The number of barrel's sold each year is reported in the Annual Report.

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**BMP: Household Hazardous Waste Day**

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

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

**Description:**

The City holds annual Household Hazardous Waste Days in partnership with the Town of Westminster to offer resident the opportunity to dispose of hazardous household items at no cost.

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

**Measurable Goal(s):**

Quantity of materials disposed and quantity of resident participants. Specific dates are noted in the Annual Report.

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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:** <http://www.ci.fitchburg.ma.us/DocumentCenter/View/4865/Fitchburg-Stormwater-Rules--Regulations>

**Department Responsible for Enforcement:** DPW

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## BMP: Sanitary Sewer Overflow (SSO) Inventory

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

**Document Name and/or Web Address:** <https://www.fitchburgma.gov/463/Stormwater-Management-Program>

**Description:**

Developed and maintain SSO inventory in accordance with permit conditions. See website for recent inventory.

**Responsible Department/Parties:** DPW Engineering

**Measurable Goal(s):**

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

**SSO Reporting:**

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

<p>The MassDEP contacts are:</p> <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

<p><b>BMP Number (Optional)</b> _____</p>	<p><b>Phase I Completed</b> <input checked="" type="checkbox"/>  (by year 2)</p>	<p><b>Phase II Completed</b> <input type="checkbox"/>  (by year 10)</p>
<p><b>Document Location and/or Web Address:</b></p>	<p><a href="http://www.ci.fitchburg.ma.us/DocumentCenter/View/6893/Fitchburg-Stormwater-System-Map-Arcadis-2020">http://www.ci.fitchburg.ma.us/DocumentCenter/View/6893/Fitchburg-Stormwater-System-Map-Arcadis-2020</a></p>	

**Description:**

Create map and update during IDDE program completion.

<p><b>Responsible Department/Parties:</b></p>	<p>DPW Engineering</p>
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**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

<p><b>BMP Number (Optional)</b> _____</p>	<p><b>Written Document Completed</b> (by year 1) <input checked="" type="checkbox"/></p>
<p><b>Document Name and/or Web Address:</b></p>	<p><a href="http://www.ci.fitchburg.ma.us/DocumentCenter/View/4863/Illicit-Discharge-Detection-and-Elimination-IDDE-Plan">http://www.ci.fitchburg.ma.us/DocumentCenter/View/4863/Illicit-Discharge-Detection-and-Elimination-IDDE-Plan</a></p>

**Description:**

Created written IDDE program. Completed and available on website. Continue to implement catchment investigations according to program and permit conditions. Conduct dry weather and wet weather screening as

necessary.

**Responsible Department/Parties:**

**Measurable Goal(s):**

Conduct 100% of outfall screening on High and Low Priority Outfalls within 3 years of the permit's effective date. Complete catchment investigations for 100% of the Problem Outfalls within 7 years of the permit's effective date. Problem Outfall catchment investigations were completed within Permit Year 7 as required. 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 and can be found at <http://www.ci.fitchburg.ma.us/463/Stormwater-Management-Program> in Annual Reports during which inventory/ranking/screening was completed.

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### **BMP: Employee Training**

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

**Description:**

The DPW Commissioner, Assistant City Engineer, and Collections System crew have been briefed and trained on Illicit Discharges and the IDDE program. Facility managers received stormwater pollution prevention briefings during facility audits.

The City primarily utilizes consultants for IDDE investigations. Virtual recorded employee training is available for new employees. Employees involved in IDDE work are trained annually.

**Responsible Department/Parties:**

**Measurable Goal(s):**

Training occurs in May/June annually.

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### **BMP: Conduct Dry Weather Screening**

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

Completed

**Document Name and/or Web Address:** <http://www.fitchburgma.gov/463/Stormwater-Management-Program>

**Description:**

Conduct in accordance with outfall screening procedure and permit conditions.

**Responsible Department/Parties:** DPW Engineering

**Measurable Goal(s):**

Complete 3 years after effective date of permit. Screening results are included in Annual Reports.

**BMP: Conduct Wet Weather Screening****BMP Number (Optional)** \_\_\_\_\_**Completed** **Document Name and/or Web Address:** <http://www.fitchburgma.gov/463/Stormwater-Management-Program>**Description:**

Conduct in accordance with outfall screening procedure.

**Responsible Department/Parties:** DPW Engineering**Measurable Goal(s):**

Complete 10 years after effective date of permit. Screening results are included in Annual Reports.

**BMP: Ongoing Screening****BMP Number (Optional)** \_\_\_\_\_**Completed** **Document Name and/or Web Address:** <http://www.fitchburgma.gov/463/Stormwater-Management-Program>**Description:**

Conduct dry weather and wet weather investigations (as necessary).

**Responsible Department/Parties:** DPW Engineering**Measurable Goal(s):**

Complete ongoing outfall investigation upon completion of IDDE program. Screening results are included in Annual Reports. Due 10 years after effective date of permit.

**BMP: IDDE Ordinance/Bylaw****BMP Number (Optional)** \_\_\_\_\_**Completed** **Document Name and/or Web Address:** <http://www.fitchburgma.gov/463/Stormwater-Management-Program>

**Description:**

Establish IDDE Ordinance/Bylaw.

**Responsible Department/Parties:** Building/Conservation/DPW Engineering/Planning/City Council

**Measurable Goal(s):**

Complete within 1 year of the effective date of permit.

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**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:** <http://www.ci.fitchburg.ma.us/DocumentCenter/View/4865/Fitchburg-Stormwater-Rules--Regulations>

**Department Responsible for Enforcement:** Building/Conservation/DPW Engineering/Planning

---

## BMP: Site Plan Review Procedures

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

**Document Name and/or Web Address:** <https://ecode360.com/FI0879/laws/LF1092934.pdf>

**Description:**

Complete written procedures of site plan review and begin implementation. (Also see <http://www.ci.fitchburg.ma.us/DocumentCenter/View/4865/Fitchburg-Stormwater-Rules--Regulations>)

**Responsible Department/Parties:** Building/Conservation/DPW Engineering/Planning

**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)** \_\_\_\_\_ **Completed (by year 1)**

**Document Name and/or Web Address:** <https://www.ecode360.com/FI0879/laws/LF1092934.pdf>

**Description:**

Complete written procedures of site inspections and enforcement procedures. (Also see <http://www.ci.fitchburg.ma.us/DocumentCenter/View/4865/Fitchburg-Stormwater-Rules--Regulations>)

**Responsible Department/Parties:** Building/Conservation/DPW Engineering/Planning

**Measurable Goal(s):**

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

---

## BMP: Erosion and Sediment Control

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

Completed

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

<https://www.ecode360.com/FI0879/laws/LF1092934.pdf>

**Description:**

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

**Responsible Department/Parties:**

Building/Conservation/DPW Engineering/Planning

**Measurable Goal(s):**

Complete within 1 year of the effective date of permit. (Also see <http://www.ci.fitchburg.ma.us/DocumentCenter/View/4865/Fitchburg-Stormwater-Rules--Regulations>)

---

**BMP: Waste Control**

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

Completed

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

<https://www.ecode360.com/FI0879/laws/LF1092934.pdf>

**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/Fitchburg-Stormwater-Rules--Regulations>)

---

**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:** <https://www.ecode360.com/FI0879/laws/LF1092934.pdf>

**Department Responsible for Enforcement:** Building/Conservation/DPW Engineering/Planning

---

## BMP: Street Design and Parking Lot Guidelines Report

**BMP Number (Optional)** \_\_\_\_\_ **Completed (by year 4)**

**Document Name and/or Web Address:** <http://www.ci.fitchburg.ma.us/DocumentCenter/View/10241/MS4-Street-Design-and-Parking-Assessment-Report>

**Description:**

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

**Responsible Department/Parties:** DPW Engineering/Stormwater Committee

**Measurable Goal(s):**

Report is completed annually in June, recommendations are implemented in accordance with report schedule and progress is reported annually.

---

## BMP: Green Infrastructure Report

**BMP Number (Optional)** \_\_\_\_\_ **Completed (by year 4)**

**Document Name and/or Web Address:** <http://www.ci.fitchburg.ma.us/DocumentCenter/View/10239/MS4-Green-Infrastructure-and-Low-Impact-Development-Assessment-Report>

**Description:**

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

**Responsible Department/Parties:** DPW Engineering/Stormwater Committee

**Measurable Goal(s):**

Report completed in Year 4, recommendations are implemented in accordance with report schedule and progress is reported annually.

## BMP: List of Municipal Retrofit Opportunities

**BMP Number (Optional)** \_\_\_\_\_ **Completed (by year 4)**

**Document Name and/or Web Address:** <http://www.ci.fitchburg.ma.us/DocumentCenter/View/10703/MS4-Phosphorus-Source-Identification-Report--BMP-Retrofit-Site-Selection>

**Description:**

Identified at least 5 permittee-owned properties that could be modified or retrofitted with BMPs to reduce impervious areas and update annually. List located in "MS4 Phosphorus Source Identification Report & BMP Retrofit Site Selection" on stormwater webpage.

**Responsible Department/Parties:** DPW Engineering/Stormwater Committee

**Measurable Goal(s):**

The list is completed annually in June and updated as needed.

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

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

**Document Name and/or Web Address:** <https://www.ecode360.com/FI0879/laws/LF1092934.pdf>

**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:** Buildings/Conservation/DPW Engineering/Planning

**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:**

[http://www.ci.fitchburg.ma.us/DocumentCenter/View/10245/  
Stormwater-Management-Manual---OM-for-Municipal-Facilities](http://www.ci.fitchburg.ma.us/DocumentCenter/View/10245/Stormwater-Management-Manual---OM-for-Municipal-Facilities)

**Description:**

Created 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:**

[http://www.ci.fitchburg.ma.us/DocumentCenter/View/10245/  
Stormwater-Management-Manual---OM-for-Municipal-Facilities](http://www.ci.fitchburg.ma.us/DocumentCenter/View/10245/Stormwater-Management-Manual---OM-for-Municipal-Facilities)

**Description:**

Created 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:**

<http://www.ci.fitchburg.ma.us/DocumentCenter/View/10245/Stormwater-Management-Manual---OM-for-Municipal-Facilities>

**Description:**

Created 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 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:**

<http://www.ci.fitchburg.ma.us/DocumentCenter/View/10245/Stormwater-Management-Manual---OM-for-Municipal-Facilities>

**Description:**

Established and implemented 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:**

<http://www.ci.fitchburg.ma.us/DocumentCenter/View/10245/Stormwater-Management-Manual---OM-for-Municipal-Facilities>

**Description:**

If a catch basin sump is found to be more than 50% full during two consecutive routine inspections/cleanings, the Superintendent of Streets is notified and he or she will re-prioritize the subject area to receive more

frequent cleanings.

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

**Measurable Goal(s):**

All catch basins are cleaned in accordance to the document above such that no inspected 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:**

<http://www.ci.fitchburg.ma.us/DocumentCenter/View/10245/Stormwater-Management-Manual---OM-for-Municipal-Facilities>

**Description:**

Sweep all streets and permittee-owned parking lots in accordance with permit conditions. Every spring, sweeping begins on the main lines of the city, followed by side streets on a ward-by-ward basis. The schedule rotates every year, so that the first ward done in one year is moved to the bottom of the list in the following year.

**Responsible Department/Parties:** DPW Engineering

**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:**

<http://www.ci.fitchburg.ma.us/DocumentCenter/View/4867/Fitchburg-Snow--Ice-Manual-2016-2017>

**Description:**

Established and implemented 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:**

Inspection/Maintenance records are on file at DPW

**Description:**

Stormwater treatment structures are inspected annually and maintenance recommendations are prescribed.

**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:**

<http://www.ci.fitchburg.ma.us/DocumentCenter/View/10245/Stormwater-Management-Manual---OM-for-Municipal-Facilities>

**Description:**

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

**Responsible Department/Parties:** DPW Engineering

**Measurable Goal(s):**

SWPPP inspections are conducted quarterly at the DPW facility.

---

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

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

**Completed**

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

<http://www.ci.fitchburg.ma.us/DocumentCenter/View/10245/Stormwater-Management-Manual---OM-for-Municipal-Facilities>

**Description:**

Create Inventory.

**Responsible Department/Parties:** DPW Engineering

**Measurable Goal(s):**

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

---

[Add BMP](#)

# Annual Evaluation

## Year 1 Annual Report

Document Name and/or Web Address:

<http://www.ci.fitchburg.ma.us/DocumentCenter/View/5226/Year-1-Annual-Report-2018-2019>

## Year 2 Annual Report

Document Name and/or Web Address:

<http://www.ci.fitchburg.ma.us/DocumentCenter/View/10254/Year-2-Annual-Report-2019-2020>

## Year 3 Annual Report

Document Name and/or Web Address:

<http://www.ci.fitchburg.ma.us/DocumentCenter/View/10253/Year-3-Annual-Report-2020-2021>

## Year 4 Annual Report

Document Name and/or Web Address:

<http://www.ci.fitchburg.ma.us/DocumentCenter/View/10240/Year-4-Annual-Report-2021-2022>

## Year 5 Annual Report

Document Name and/or Web Address:

<https://www.fitchburgma.gov/DocumentCenter/View/17559/Year-5-Annual-Report-2022-2023>

## Year 6 Annual Report

Document Name and/or Web Address:

<https://www.fitchburgma.gov/DocumentCenter/View/17560/Year-6-Annual-Report-2023-2024>

## Year 7 Annual Report

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

http://www.fitchburgma.gov/463/Stormwater-Management-Program

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
MA81-01 North Nashua River		<input style="width: 20px; height: 20px; border: 1px solid black;" type="button" value="+"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="button" value="-"/>
MA81-02 North Nashua River		<input style="width: 20px; height: 20px; border: 1px solid black;" type="button" value="+"/> <input style="width: 20px; height: 20px; border: 1px solid black;" type="button" value="-"/>
MA81-01 North Nashua River		<input style="width: 20px; height: 20px; border: 1px solid black;" type="button" value="+"/> <input style="width: 20px; height: 20px; border: 1px solid black;" 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:

Outfall ranking, inspections, and re-ranking can be found in the Annual Reports on the City's Stormwater Webpage: <http://www.ci.fitchburg.ma.us/463/Stormwater-Management-Program>

### *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:

<http://www.ci.fitchburg.ma.us/DocumentCenter/View/6456/Fact-Sheet---Pet-Waste>

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:

Pet waste flyers have been made available during dog license renewal and registration.

---

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:

Annual message found on the City's Stormwater Webpage:

<http://www.ci.fitchburg.ma.us/DocumentCenter/View/6891/Fact-Sheet---Tips-for-Septic-System-Owners>

# 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

#### *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 since June 2020 and distributed annually: <http://www.ci.fitchburg.ma.us/DocumentCenter/View/6455/Fact-Sheet---Lawn-and-Garden-Care>

Grass Clippings Social Media Post distributed annually:

<http://www.ci.fitchburg.ma.us/DocumentCenter/View/12587/Grass-Clippings-and-Yard-Debris>

---

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:

Annually distributed fact sheet on pet waste:

<http://www.ci.fitchburg.ma.us/DocumentCenter/View/6456/Fact-Sheet---Pet-Waste>

---

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:

Lawn and Garden Care Fact Sheet mentions using leaves as mulch: <http://www.ci.fitchburg.ma.us/DocumentCenter/View/6455/Fact-Sheet---Lawn-and-Garden-Care>

The Grass Clippings and Yard Debris Social Media Post: <http://www.ci.fitchburg.ma.us/DocumentCenter/View/12587/Grass-Clippings-and-Yard-Debris>

"Keep Grass Clippings and Yard Debris Away from Storm Drains!" social media post on Central Massachusetts Regional Stormwater Coalition Facebook page.

## *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:

The Standard Operating Procedure for Sweeping Streets and Parking Lots includes scheduled sweepings twice a year in the spring and fall. In addition, regular sweeping occurs to clean areas with complaints or known problem areas such as hilly areas.

<http://www.ci.fitchburg.ma.us/DocumentCenter/View/10245/Stormwater-Management-Manual---OM-for-Municipal-Facilities>

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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 and can be found on the City's Stormwater Webpage: <http://www.ci.fitchburg.ma.us/DocumentCenter/View/10245/Stormwater-Management-Manual---OM-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 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:

MS4 Phosphorus Source Identification Report and BMP Retrofit Site Selection document includes discussion of BMPs considered for retrofits for phosphorus removal. Retrofit inventory and ranking can be found in the following report located on the City's Stormwater Webpage: <http://www.ci.fitchburg.ma.us/DocumentCenter/View/10703/MS4-Phosphorus-Source-Identification-Report--BMP-Retrofit-Site-Selection>

## *Phosphorus 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:

Phosphorus Reduction Tracking BMP sheet is included in the Annual Report which is posted to the City's Stormwater Webpage: <http://www.ci.fitchburg.ma.us/463/Stormwater-Management-Program>

## 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 and can be found on the City's Stomrwater Webpage: <http://www.ci.fitchburg.ma.us/463/Stormwater-Management-Program>

## Requirements Due by Year 4

### *Complete a Phosphorus Source Identification Report*

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

MS4 Phosphorus Source Identification Report and BMP Retrofit Site Selection report can be found on the City's stormwater management webpage. <http://www.fitchburgma.gov/463/Stormwater-Management-Program>

### *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:

MS4 Phosphorus Source Identification Report and BMP Retrofit Site Selection report can be found on the City's stormwater management webpage. <http://www.fitchburgma.gov/463/Stormwater-Management-Program>

## 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:

Municipal BMP List and Implementation Schedule are included as Appendix A within the Year 7 Annual Report which is posted to the City's Stormwater Webpage: <http://www.ci.fitchburg.ma.us/463/Stormwater-Management-Program>

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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:

Municipal BMP List and implementation schedule are included as Appendix A within the Year 7 Annual Report which is posted to the City's Stormwater Webpage: <http://www.ci.fitchburg.ma.us/463/Stormwater-Management-Program>