

Stormwater Management Program (SWMP)

Town of Merrimac, Massachusetts

July 9, 2019



EPA NPDES Permit Number: MAR041209

Certification

Authorized Representative (Optional): All reports, including SWPPPs, inspection reports, annual reports, monitoring reports, reports on training and other information required by this permit must be signed by a person described in Appendix B, Subsection 11.A or by a duly authorized representative of that person in accordance with Appendix B, Subsection 11.B. If there is an authorized representative to sign MS4 reports, there must be a signed and dated written authorization.

The authorization letter is:

- Attached to this document (document name listed below)

- Publicly available at the website below

“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

Printed Name

Signature _____

Date

[Click Here for Revisions](#)

Background

Stormwater Regulation

The Stormwater Phase II Final Rule was promulgated in 1999 and was the next step after the 1987 Phase I Rule in EPA's effort to preserve, protect, and improve the Nation's water resources from polluted stormwater runoff. The Phase II program expands the Phase I program by requiring additional operators of MS4s in urbanized areas and operators of small construction sites, through the use of NPDES permits, to implement programs and practices to control polluted stormwater runoff. Phase II is intended to further reduce adverse impacts to water quality and aquatic habitat by instituting the use of controls on the unregulated sources of stormwater discharges that have the greatest likelihood of causing continued environmental degradation. Under the Phase II rule all MS4s with stormwater discharges from Census designated Urbanized Area are required to seek NPDES permit coverage for those stormwater discharges.

Permit Program Background

On May 1, 2003, EPA Region 1 issued its Final General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (2003 small MS4 permit) consistent with the Phase II rule. The 2003 small MS4 permit covered "traditional" (i.e., cities and towns) and "non-traditional" (i.e., Federal and state agencies) MS4 Operators located in the states of Massachusetts and New Hampshire. This permit expired on May 1, 2008 but remained in effect until operators were authorized under the 2016 MS4 general permit, which became effective on July 1, 2018.

Stormwater Management Program (SWMP)

The SWMP describes and details the activities and measures that will be implemented to meet the terms and conditions of the permit. The SWMP accurately describes the permittees plans and activities. The document should be updated and/or modified during the permit term as the permittee's activities are modified, changed or updated to meet permit conditions during the permit term. The main elements of the stormwater management program are (1) a public education program in order to affect public behavior causing stormwater pollution, (2) an opportunity for the public to participate and provide comments on the stormwater program (3) a program to effectively find and eliminate illicit discharges within the MS4 (4) a program to effectively control construction site stormwater discharges to the MS4 (5) a program to ensure that stormwater from development projects entering the MS4 is adequately controlled by the construction of stormwater controls, and (6) a good housekeeping program to ensure that stormwater pollution sources on municipal properties and from municipal operations are minimized.

Town Specific MS4 Background (optional)

Small MS4 Authorization

The NOI was submitted on

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

Authorization to Discharge was granted on

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

Stormwater Management Program Team

SWMP Team Coordinator

Name	Robert Sinibaldi	Title	Director of Public Works
Department	Public Works Department		
Phone Number	978-346-0612	Email	dpwdir@townofmerrimac.com
Responsibilities	Perform as the Primary MS4 Program manager. Manages the Sewer, Water, and Highway Departments. Also responsible for the Town's stormwater management.		

SWMP Team

Name	Alyssa Mades	Title	Administrative Assistant
Department	Public Works Department		
Phone Number	978-346-0525	Email	amades@townofmerrimac.com
Responsibilities	Responsibilities include assisting the Primary MS4 Program Manager, distribution of the the Stormwater Education Flyers, and management of the Town's Stormwater web page.		

Name	Michael Roy	Title	Consultant
Department	N/A		
Phone Number	207-347-8100	Email	mike.roy@lr.org
Responsibilities	Town's consulting engineer. Responsibilities include assisting the Town with permit requirements.		

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:

Notice of Intent for Coverage Under Small MS4 General Permit. <http://www.merrimac01860.info/199/Stormwater>

Waterbody segment that receives flow from the MS4	Number of outfalls into receiving water segment											Other pollutant(s) causing impairments
		Chloride	Chlorophyll-a	Dissolved Oxygen/DO Saturation	Nitrogen	Oil & Grease/PAH	Phosphorus	Solids/ TSS/ Turbidity	E. coli	Enterococcus		
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[Click here to lengthen table](#)

Eligibility: Endangered Species and Historic Properties

*Reminder: The proper consultations and updates to the SWMP must be conducted for construction projects related to your permit compliance where Construction General Permit (CGP) coverage, which requires its own endangered species and history preservation determination, is NOT being obtained.

Attachments:

- The results of Appendix C U.S. Fish and Wildlife Service endangered species screening determination
- The results of the Appendix D historic property screening investigations
- If applicable, any documents from the State Historic Preservation Officer (SHPO), Tribal Historic Preservation Officer (THPO), or other Tribal representative to mitigate effects

These attachments are required within one year of the permit effective date and are:

- Attached to this document (document names listed below)

- Publicly available at the website listed below

Within the NOI for Coverage Under Small MS4 General Permit.
<http://www.merrimac01860.info/199/Stormwater>

Under what criterion did permittee determine eligibility for ESA?

- Criterion A Criterion B Criterion C

Under what criterion did permittee determine eligibility for Historic Properties?

- Criterion A Criterion B Criterion C

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

Not 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):

Not Applicable.

MCM 1

Public Education and Outreach

Permit Part 2.3.2

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

Examples and Templates:

[EPA's Stormwater Education Toolbox](#)

[MassDEP's Stormwater Outreach Materials](#)

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

BMP: Brochures and Pamphlets

BMP Number (Optional) 1 _____

Document Name and/or Web Address:

Description:

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Message Date(s):

BMP: Brochures and Pamphlets

BMP Number (Optional) 2 _____

Document Name and/or Web Address:

Description:

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Message Date(s):

BMP: Brochures and Pamphlets

BMP Number (Optional) 3 _____

Document Name and/or Web Address:

Description:

Stormwater Education Flyer

Targeted Audience: Developers (construction)

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

Reduce pollution and Number of Flyers distributed per year.

Message Date(s): 2018

BMP: Web Page

BMP Number (Optional) 4 _____

Document Name and/or Web Address: <http://www.merrimac01860.info/199/Stormwater>

Description:

Stormwater educational web page on the Town's website.

Targeted Audience: Residents

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

Reduce pollution and increase public awareness and involvement.

Message Date(s): 2018

BMP: Web Page

BMP Number (Optional) 5 _____

Document Name and/or Web Address: <http://www.merrimac01860.info/199/Stormwater>

Description:

Stormwater educational web page on the Town's website.

Targeted Audience: Businesses, institutions and commercial facilities

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

Reduce pollution and increase public awareness and involvement.

Message Date(s): 2018

BMP: Web Page

BMP Number (Optional) 6 _____

Document Name and/or Web Address: <http://www.merrimac01860.info/199/Stormwater>

Description:

Stormwater educational web page on the Town's website.

Targeted Audience: Developers (construction)

Responsible Department/Parties: _____

Measurable Goal(s):

Reduce pollution and increase public awareness and involvement.

Message Date(s): 2018

BMP: FOR FUTURE USE ONLY

BMP Number (Optional) _____

Document Name and/or Web Address: _____

Description:

Targeted Audience: _____

Responsible Department/Parties: _____

Measurable Goal(s):

Message Date(s):

BMP: FOR FUTURE USE ONLY

BMP Number (Optional) _____

Document Name and/or Web Address:

Description:

Targeted Audience:

Responsible Department/Parties:

Measurable Goal(s):

Message Date(s):

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) 1 _____

Location of Plan and/or Web Address:

Responsible Department/Parties:

Measurable Goal(s):

BMP: Public Participation in Stormwater Management Program Development

BMP Number (Optional) 2 _____

Description:

Responsible Department/Parties:

Measurable Goal(s):

BMP: FOR FUTURE USE ONLY

BMP Number (Optional) _____

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

Add BMP

MCM 3

Illicit Discharge Detection and Elimination (IDDE) Program

Permit Part 2.3.4

Objective: The permittee shall implement an IDDE program to systematically find and eliminate illicit sources of non-stormwater discharges to its municipal separate storm sewer system and implement procedures to prevent such discharges.

Examples and Templates:

[IDDE Program Template and SOPs](#)

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

BMP: IDDE Legal Authority

BMP Number (Optional) _____

Completed (by May 1, 2008)

Ordinances Link or Reference:

Department Responsible for Enforcement:

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.

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

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

BMP: Map of Storm Sewer System

BMP Number (Optional) _____

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:

Responsible Department/Parties: 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:

<http://www.merrimac01860.info/199/Stormwater>

BMP: Employee Training

BMP Number (Optional) _____

Description:

Train employees on IDDE implementation.

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

Training occurs on an annual basis.

BMP: Conduct Dry Weather Screening

BMP Number (Optional) _____

Completed

Document Name and/or Web Address: <http://www.merrimac01860.info/199/Stormwater>

Description:

Conduct in accordance with outfall screening procedure and permit conditions.

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

Complete 3 years are the effective date of the permit.

BMP: Conduct Wet Weather Screening

BMP Number (Optional) _____

Completed

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

BMP: Ongoing Screening

BMP Number (Optional) _____

Completed

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

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: Merrimac Zoning Bylaw - Article 19
<http://www.merrimac01860.info/DocumentCenter/View/184/Zoning-Bylaw-PDF>

Stormwater Management and Land Disturbance
<http://www.merrimac01860.info/DocumentCenter/View/368/Stormwater-Management-and-Land-Disturbance-PDF>

Department Responsible for Enforcement: Merrimac Planning Department

BMP: Site Plan Review Procedures

BMP Number (Optional) _____

Written procedures completed (by year 1)

Document Name and/or Web Address: Merrimac Zoning Bylaw - Article 19
<http://www.merrimac01860.info/DocumentCenter/View/184/Zoning-Bylaw-PDF>

Stormwater Management and Land Disturbance
<http://www.merrimac01860.info/DocumentCenter/View/368/Stormwater-Management-and-Land-Disturbance-PDF>

Description:

Complete written procedures of site plan review and begin implementation.

Responsible Department/Parties: Planning/zoning Department

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: Stormwater Management and Land Disturbance
<http://www.merrimac01860.info/DocumentCenter/View/368/Stormwater-Management-and-Land-Disturbance-PDF>

Merrimac Zoning Bylaw

<http://www.merrimac01860.info/DocumentCenter/View/184/Zoning-Bylaw-PDF>
Town of Merrimac Rules and Regulations Governing the Subdivision of Land

Description:

Complete written procedures of site inspections and enforcement procedures.

Responsible Department/Parties: Planning/zoning Department

Measurable Goal(s):

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

BMP: Waste Control

BMP Number (Optional) _____

Completed

Document Name and/or Web Address: Town of Merrimac Rules and Regulations Governing the Subdivision of Land - Hard copies available at the Town Offices

Merrimac Zoning Bylaw
<http://www.merrimac01860.info/DocumentCenter/View/184/Zoning-Bylaw-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: Planning/zoning Department

Measurable Goal(s):

Reduce waste at construction sites.

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):

BMP: List of Municipal Retrofit Opportunities

BMP Number (Optional) _____

Completed (by year 4)

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

BMP: FOR FUTURE USE ONLY

BMP Number (Optional) _____

Completed

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

MCM 6

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

Permit Part 2.3.7

Objective: The permittee shall implement an operations and maintenance program for permittee-owned operations that has a goal of preventing or reducing pollutant runoff and protecting water quality from all permittee-owned operations.

Examples and Templates:

Examples and templates relevant to MCM 6, including SOP templates for catch basin cleaning, street sweeping, vehicle maintenance, parks and open space management, winter deicing, and Stormwater Pollution Prevention Plans can be found here: <https://www.epa.gov/npdes-permits/stormwater-tools-new-england#gh>

PERMITTEE OWNED FACILITIES

BMP: Parks and Open Spaces Operations and Maintenance Procedures

BMP Number (Optional) _____

Written Document Completed (by year 2)

Document Name and/or Web Address:

Description:

Create written O&M procedures including Section 2.3.7.a.ii of the Permit for parks and open spaces.

Responsible Department/Parties:

Measurable Goal(s):

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

Properties List (Optional):

BMP: Buildings and Facilities Operations and Maintenance Procedures

BMP Number (Optional) _____

Written Document Completed (by year 2)

Document Name and/or Web Address:

Description:

Create written O&M procedures including Section 2.3.7.a.ii of the Permit for buildings and facilities.

Responsible Department/Parties:

Measurable Goal(s):

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

Properties List (Optional):

BMP: Vehicles and Equipment Operations and Maintenance Procedures

BMP Number (Optional) _____

Written Document Completed (by year 2)

Document Name and/or Web Address: To be Completed by Year 2

Description:

Create written O&M procedures including Section 2.3.7.a.ii of the Permit for vehicles and equipment.

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

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

Properties List (Optional):

INFRASTRUCTURE

BMP: Infrastructure Operations and Maintenance Procedures

BMP Number (Optional) _____ **Written Procedure Completed (by year 2)**

Document Name and/or Web Address: To be Completed by Year 2

Description:

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

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

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

BMP: Catch Basin Cleaning Program

BMP Number (Optional) _____ **Written Procedure Completed (by year 1)**

Document Name and/or Web Address: Catch Basin Inspection and Cleaning Procedures

Description:

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

Responsible Department/Parties: DPW Operations - Highway Department

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: Standard Operating Procedures: Sweeping Streets and Parking Lots

Description:

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

Responsible Department/Parties: DPW Operations - Highway Department

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: Standard Operating Procedures: Snow Removal and De-Icing

Description:

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

Responsible Department/Parties: DPW Operations - Highway Department

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: Not Applicable at this time.

Description:

Establish and implement inspection and maintenance procedures and frequencies.

Responsible Department/Parties: DPW Operations - Highway Department

Measurable Goal(s):

Inspect and maintain 100% of treatment structures to ensure proper function. It should be understood that at the time this SWMP was prepared, the Town does not own any Stormwater Treatment Structures.

BMP: SWPPP

BMP Number (Optional) _____ **Completed (by year 2)**

Document Name and/or Web Address: To be Completed by Year 2

Description:

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

Responsible Department/Parties: DPW Operations

Measurable Goal(s):

Develop and implement SWPPPs for 100% of facilities.

BMP: FOR FUTURE USE ONLY

BMP Number (Optional) _____ **Completed**

Document Name and/or Web Address:

Description:

Responsible Department/Parties:

Measurable Goal(s):

Add BMP

Annual Evaluation

Year 1 Annual Report

Document Name and/or Web Address:

To be posted to Town's Stormwater Web Page when completed.

Year 2 Annual Report

Document Name and/or Web Address:

Year 3 Annual Report

Document Name and/or Web Address:

Year 4 Annual Report

Document Name and/or Web Address:

Year 5 Annual Report

Document Name and/or Web Address:

Year X Annual Report

Document Name and/or Web Address:

Add a Year

TMDLs and Water Quality Limited Waters

Select the applicable Impairment(s) and/or TMDL(s).

Impairment(s)

- Bacteria/Pathogens Chloride Nitrogen Phosphorus
 Solids/oil/grease (hydrocarbons)/metals

TMDL(s)

In State:

- Assabet River Phosphorus Bacteria and Pathogen Cape Cod Nitrogen
 Charles River Watershed Phosphorus Lake and Pond Phosphorus

Out of State:

- Bacteria and Pathogen Metals Nitrogen Phosphorus

Clear Impairments and TMDLs

Bacteria/Pathogens

Combination of Impaired Waters Requirements and TMDL Requirements as Applicable

Applicable Receiving Waterbody(ies)	TMDL Name (if applicable)	Add/Delete Row
Cobbler Brook (MA84A-22)	Not Applicable	<input type="button" value="+"/> <input type="button" value="-"/>
Merrimack River (MA84A-05)	Not Applicable	<input type="button" value="+"/> <input type="button" value="-"/>
East Meadow River (MA84A-39)	Not Applicable	<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))

 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:

MCM 1 Public Education and Outreach BMP Numbers 4.

 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:

MCM 1 Public Education and Outreach BMP Numbers 1.

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:

MCM 1 Public Education and Outreach BMP Numbers 1 through 6.

Solids, Oil and Grease (Hydrocarbons), or Metals

Combination of Impaired Requirements and TMDL Requirements as Applicable

Applicable Receiving Waterbody(ies)	TMDL Name (if applicable)	Add/Delete Row
Cobbler Brook (MA84A-22)	Not Applicable	<input type="button" value="+"/> <input type="button" value="-"/>
Merrimac River (MA84A-5)	Not Applicable	<input type="button" value="+"/> <input type="button" value="-"/>
(Lake Attitash (MA84002)	Not Applicable	<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:

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

Increase street sweeping frequency of all municipal owned streets and parking lots to a schedule to target areas with potential for high pollutant loads

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

MCM 6 Good Housekeeping and Pollution Prevention for Permittee Owned Operations, BMP Street Sweeping Program

Prioritize inspection and maintenance for catch basins to ensure that no sump shall be more than 50 percent full; Clean catch basins more frequently if inspection and maintenance activities indicate excessive sediment or debris loadings

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

MCM 6 Good Housekeeping and Pollution Prevention for Permittee Owned Operations, BMP Catch Basin Cleaning Program.

Requirements Due by Year 2

Stormwater Management in New Development and Redevelopment

Stormwater management systems designed on commercial and industrial land use area draining to the water quality limited water body shall incorporate designs that allow for shutdown and containment where appropriate to isolate the system in the event of an emergency spill or other unexpected event

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

Shall be completed within 2 years of the effective date of the permit.