Stormwater Management Program (SWMP)

Town of Berkley

North Main Street, Berkley MA 02779

EPA NPDES Permit Number MAR041092

Certification

monitoring rep person describe accordance with	epresentative (Optional): All reports, including SWPPPs, inspection report orts, reports on training and other information required by this permit must ed in Appendix B, Subsection 11.A or by a duly authorized representative of the Appendix B, Subsection 11.B. If there is an authorized representative to satisfact and dated written authorization.	be signed by a f that person in
Attached	d to this document (document name listed below)	
☐ Publicly	available at the website below	
supervision in evaluated the in those persons of knowledge and	r penalty of law that this document and all attachments were prepared under accordance with a system designed to assure that qualified personnel proper information submitted. Based on my inquiry of the person or persons who make the information information submitted belief, true, accurate, and complete. I am aware that there are significant per information, including the possibility of fine and imprisonment for knowing the information.	ly gathered and anage the system, or lis, to the best of my enalties for
Printed Name	Alan Coutinho, Town Administrator	
Signature	Date	е

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)

Berkley, Massachusetts is located in Bristol County and has a total land area of 17.36 square miles. The Town of Berkley is surrounded by the Taunton River on the west and the Assonet River at the southeast point, and is located located in the Taunton River Basin. There are no public surface drinking water supply sources or their tributaries located in Berkley. The Town has two public drinking water wells located at the Berkley Community School and the Berkley Middle School.

Berkley is a small rural town known as a "Bedroom Community" with most residents commuting out of town to work. According to the 2010 US Census, the population of the Town of Berkley was 6,411 and the regulated population was 4,700, as a result, the automatically designated MS4 area covers more of the Town than it did under the 2003 MS4 General Permit. The NPDES Phase II Stormwater Program Automatically Designated MS4 Areas developed by the EPA, which shows both the 2000 and the 2010 Urbanized Area is included as Attachment A.

Small MS4 Authorization

The NOI was submitted on Sep 27, 2018	
The NOI can be found at the following (document name or web address):	
https://www.townofberkleyma.com/highway-department/pages/stormwater	
Authorization to Discharge was granted on Jun 4, 2018 The Authorization Letter can be found (document name or web address):	
https://www.townofberkleyma.com/highway-department/pages/stormwater	

Stormwater Management Program Team

SWMP Team Coordinator

Name	Robert Rose	Т	itle	Highway Surveyor	
Department	Highway Department				
Phone Number	(508) 824-8380	Email berhig@	con	ncast.net	
Responsibilities	Oversees the SWMP, coordinates between Departments, and compiles annual reports.				
SWMP Team					
Name	Helen McCrohan	Т	itle		
Department	Highway Department				
Phone Number	(508) 824-8380	Email berhig@	com	ncast.net	
Responsibilities	Submits filings associated with the permit, maintains permit files for the Highway Department, and coordinates the preparation of annual reports.				
Name	Alan Coutinho	Т	itle	Town Administrator	
Department	Board of Selectmen				
Phone Number	(508) 822-4603	Email			
Responsibilities	Certifies MS4 reports related to	the SWMP, incl	udin	g annual reports.	

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/ PAH	Phosphorus	Solids/ TSS/ Turbidity	E. coli	Enterococcus	Other pollutant(s) causing impairments
Taunton River (MA62-02)	36											Fecal coliform
Taunton River (MA62-03)	5				X							Fecal coliform
Charles Brook	32											
Cuds Brook	6											
Assonet River (MA62-20)	14			L								Fecal coliform
Quaker Brook	12											
Cedar Swamp River (MA62-44)	8											
Pierce Brook	1											
Cotley River (MA62-41)	28											
·												

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:				
Official Species List, USFWS EPA 2016 MS4 Permit Letter				
Publicly available at the website listed below				
Under what criterion did permittee determine eligibility for ESA?				
☐ Criterion A ☐ Criterion C				
Under what criterion did permittee determine eligibility for Historic Properties?				
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				
Tvot 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				
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: Pet Waste Brochure/Pamphlet

BMP Number (Optional) 1-1
Document Name and/or Web Address:
Description:
Distribute pet waste annual message with license issuance or renewal or by mailing. This BMP also meets the additional requirements for discharges to water with an approved TMDL.
Targeted Audience: Residents, businesses, institutions and commercial facilities
Responsible Department/Parties: Town Clerk
Measurable Goal(s):
Increased awareness of pet waste impacts to water quality.
The annual report will include the method of distribution, the measures/methods used to assess effectiveness of the messages and overall effectiveness of the education program.
Message Date(s): Annually
BMP:Fertilizer Brochure/Pamphlet BMP Number (Optional) 1-2
Document Name and/or Web Address:
Description:
Distribute proper fertilizer use message annually in the spring.
Targeted Audience: Residents, businesses, institutions and commercial facilities
Responsible Department/Parties: Highway Department and Board of Health
Measurable Goal(s):
Increased awareness of proper fertilizer use
The annual report will include the method of distribution, the measures/methods used to assess effectiveness of the messages and overall effectiveness of the education program.
Message Date(s): Annually in spring

BMP: Developer Brochure/Pamphlet BMP Number (Optional) 1-3 **Document Name and/or Web Address: Description:** Distribute regulations fact sheet to developers when inquiring about new land development projects. **Targeted Audience:** Developers (construction) Responsible Department/Parties: Planning Board **Measurable Goal(s):** Increased awareness of the local, state, and federal stormwater regulations. The annual report will include the method of distribution, the measures/methods used to assess effectiveness of the messages and overall effectiveness of the education program. Message Date(s): 2019 **BMP: Salt Use Brochure/Pamphlet** BMP Number (Optional) 1-4 **Document Name and/or Web Address:** | Highway Department **Description:** Distribute proper salt use messages. **Targeted Audience:** Industrial facilities **Responsible Department/Parties: Measurable Goal(s):**

This BMP has been removed from the SWMP as there is no industrial audience in the Town of Berkley.

Message Date(s):2020

BMP: Septic Smart Display/Poster/Kiosk

BMP Number (Optional) 1-5
Document Name and/or Web Address:
Description:
Utilize EPA's SepticSmart resources to increase awareness of septic system maintenance. To meet the additional requirements for discharges to water with an approved TMDL, information will be provided to owners of septic systems in all catchments that discharges to a waterbody impaired for bacteria.
Targeted Audience: Residents
Responsible Department/Parties: Board of Health
Measurable Goal(s):
Increased septic system testing/maintenance.
The annual report will include the method of distribution, the measures/methods used to assess effectiveness of the messages and overall effectiveness of the education program.
Message Date(s):2019
BMP: Leaf and Yard Waste Disposal Display/Poster/Kiosk BMP Number (Optional) 1-6
Document Name and/or Web Address:
Description:
Post notices of proper leaf and yard waste disposal annually in the fall.
Targeted Audience: Residents, businesses, institutions and commercial facilities
Responsible Department/Parties: Highway Department
Measurable Goal(s):
Increased disposal of leaf and yard waste at transfer station.
The annual report will include the method of distribution, the measures/methods used to assess effectiveness of the messages and overall effectiveness of the education program.
Message Date(s): Annually in fall

BMP: Stormwater Pollution Prevention for Small Residential Construction Sites Flier BMP Number (Optional) 1-7 **Document Name and/or Web Address:** Town website **Description:** Post a flier regarding stormwater pollution prevention for small residential construction sites on the Town website. **Targeted Audience:** Developers (construction) Responsible Department/Parties: Planning Board **Measurable Goal(s):** Increase awareness of stormwater pollution prevention practices. The annual report will include the method of distribution, the measures/methods used to assess effectiveness of the messages and overall effectiveness of the education program. Message Date(s): 2022 **BMP: Stormwater Pollution Prevention for Industrial Sites Flier** BMP Number (Optional) 1-8 **Document Name and/or Web Address: Description:**

Measurable Goal(s):This BMP has been re

Targeted Audience: Industrial facilities

Responsible Department/Parties: Highway Department

This BMP has been removed from the SWMP as there is no industrial audience in the Town of Berkley.

Distribute, by mailing, a flier regarding stormwater pollution prevention for industrial sites.

Message Date(s):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) 2-1 **Location of Plan and/or Web Address:** https://www.townofberkleyma.com/highway-department/pages/ stormwater Responsible Department/Parties: Highway Department **Measurable Goal(s):** Provide the public the opportunity to review the SWMP by making the SWMP and annual reports publicly BMP: Public Participation in Stormwater Management Program Development BMP Number (Optional) 2-2 **Description:** Provide the public with opportunities to submit comments on the SWMP by posting instructions on the Town's Stormwater webpage regarding how to submit comments. Responsible Department/Parties: Highway Department **Measurable Goal(s):** Receive annual input on the SWMP from the public. Pubic comments on the SWMP will be compiled, reviewed, tracked, and incorporated into SWMP updates, as appropriate. **BMP: Annual Town-wide Cleanup** BMP Number (Optional) 2-3 **Document Name and/or Web Address: Description:**

Responsible Department/Parties: Board of Selectmen and Highway Department

Measurable Goal(s):

Increased participation in the Town-wide clean-up held each year in the Spring by advertising for the event. The Town will provide a dumpster for disposal of waste collected during the clean-up.

Provide the public with the opportunity to participate in an a public participation activity each year.

MCM₃

Illicit Discharge Detection and Elimination (IDDE) Program

Permit Part 2.3.4

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

Examples and Templates:

IDDE Program Template and SOPs

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

BMP: IDDE Legal Authority

BMP Number (Optional) 3-1		Completed (by May 1, 2008) ⊠			
Ordinances Link or Reference:		ter Bylaw: https://www.townofberkleyma.com/sites/ads/4-stormwaterbylaw.pdf			
Department Responsible for Enforcement: Board of Health					
BMP: Sanitary Sewer Overflow	(SSO) Inventory				
BMP Number (Optional) 3-2		Completed (by year 1) ⊠			
Document Name and/or Web A	ddress:				
Description: There is no sanitary sewer in the have been no sanitary sewer over	•	ne town is on private septic systems; therefore, there			
Responsible Department/Partie	s: Board of Health				
Measurable Goal(s):					
Complete inventory within one ye	ear of effective date o	f permit.			
EPA, and other relevant parties. F	ollow up the verbal no Bypass notification for	st be reported within 24 hours by phone to MassDEP, otification with a written report following MassDEP's rm within 5 calendar days of the time you become aware			
Not applicable as Berkley has no sewer	municipal sanitary				

Phase I Completed **Phase II Completed** BMP Number (Optional) 3-3 (by year 2) (by year 10) **Document Location and/or Web Address:** Highway Department: https://www.townofberkleyma.com/sites/ berkleyma/files/uploads/2-sw_system_regulatedcomm_11x17. pdf **Description:** Update map during IDDE program implementation. **Responsible Department/Parties:** Highway Department **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 within 10 years of the permit's effective date. **BMP: IDDE Program** BMP Number (Optional) 3-4 **Written Document Completed** (by year 1) **Document Name and/or Web Address: Description:** Develop written IDDE program and implement catchment investigations. Responsible Department/Parties: Highway Department **Measurable Goal(s):** Develop written IDDE program by June 30, 2019. Complete catchment investigations for 100% of the Problem Outfalls by June 30, 2025. Complete 100% of all catchment investigations by June 30, 2028. Annually report results and progress. The outfall/interconnection inventory and initial ranking and the dry weather outfall and interconnection screening and sampling results can be found: All IDDE program related documents are maintained at the Highway Department.

BMP: Map of Storm Sewer System

BMP Number (Optional) 3-5 **Description:** Train employees on IDDE implementation. Responsible Department/Parties: Highway Department **Measurable Goal(s):** Provide training annually, and include a record of training and attendance in annual report. **BMP: Conduct Dry Weather Screening** BMP Number (Optional) 3-6 **Completed Document Name and/or Web Address: Description:** Conduct in accordance with outfall screening procedures in the written IDDE program. Responsible Department/Parties: Highway Department **Measurable Goal(s):** Conduct 100% of outfall screening on High and Low Priority Outfalls by June 30, 2021. Annually report results and progress. **BMP:Conduct Wet Weather Screening** BMP Number (Optional) 3-7 **Completed Document Name and/or Web Address:** Highway Department **Description:** Conduct in accordance with outfall screening procedures in the written IDDE program. **Responsible Department/Parties: Measurable Goal(s):**

Conduct wet-weather screening of outfalls, as necessary during catchment investigations. Annually report

BMP: Employee Training

results and progress.	
BMP:Ongoing Screening	
BMP Number (Optional) 3-8	Completed □
Document Name and/or Web Address:	
Description:	
Conduct dry weather and wet weather screening, as necessary.	
Responsible Department/Parties: Highway Department	
Measurable Goal(s):	
Conduct ongoing outfall screening in accordance with the written IDDE progress.	rogram. Annually report results and
BMP:IDDE Ordinance/Bylaw Review BMP Number (Optional) 3-9	Completed □
Document Name and/or Web Address:	
Description:	
Review existing bylaws and update.	
Responsible Department/Parties: Highway Department, Planning Board	, and Board of Health
Measurable Goal(s):	
Review annually and update as needed.	

Add BMP

MCM 4

Construction Site Stormwater Runoff Control

Permit Part 2.3.5

Objective: The objective of an effective construction stormwater runoff control program is to minimize or eliminate erosion and maintain sediment on site so that it is not transported in stormwater and allowed to discharge to a water of the U.S. through the permittee's MS4.

Examples and Templates:

Examples and templates relevant to MCM 4, including model ordinances and site inspection templates, can be found here: https://www.epa.gov/npdes-permits/stormwater-tools-new-england#csrc

BMP: Sediment and Erosion Control Ordinance

BMP Number (Optional) 4-1	Completed (by May 1, 2008) ⊠				
Ordinances Link or Reference: Subdivision Rules and Regulations					
Department Responsible for Enforcement: Planning Board					
BMP: Site Plan Review Procedures					
BMP Number (Optional) 4-2	Written procedures completed (by year 1)				
Document Name and/or Web Address:					
Description:					
• •	rticle 32), Site Plan Review procedures (Section 7.D of Article 21 ations will be reviewed and updated to include specific review rence or otherwise, as appropriate.				
Responsible Department/Parties: Board	of Health and Planning Board				
Measurable Goal(s):					
Complete the review and update by June 30 the procedures outlined above.	0, 2019. Conduct site plan review of projects in accordance with				
BMP: Site Inspections and Enforcement	of Sediment and Erosion Control Measures Procedures				
BMP Number (Optional) 4-3	Completed (by year 1)				
Document Name and/or Web Address:					
Description:					
expand requirements, as appropriate. Deve	utlined in the Subdivision Rules and Regulations and update and/or lop and implement a standard inspection form, as appropriate, and le number of site reviews, inspections, and enforcement actions.				
Responsible Department/Parties: Planning	ng Board				
Measurable Goal(s):					
Complete the review and updated by June 30, 2019. Conduct construction site inspections as outlined in the above document and take enforcement action as needed.					
The number of inspections completed and report.	enforcement action taken will be tracked and included in the annual				

BMP:Construction Site Waste Control

BMP Number (Optional) 4-4	Completed
Document Name and/or Web Address:	
Description:	
	s to incorporate requirements to control wastes, including but increte truck wash out, chemicals, litter, and sanitary wastes.
Responsible Department/Parties: Building In	nspector
Measurable Goal(s):	
Complete by June 30, 2019.	
BMP:[BMP name here]	
BMP Number (Optional)	Completed
Document Name and/or Web Address:	
Description:	
Responsible Department/Parties:	
Measurable Goal(s):	

Add BMP

MCM 5

Post Construction Stormwater Management in New Development and Redevelopment

Permit Part 2.3.6

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

Examples and Templates:

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

BMP: Post-Construction Ordinance BMP Number (Optional) 5-1 **Completed** (by year 2) **Town Ordinances Link or Reference:** Article 32 Stormwater Bylaw: https://www.townofberkleyma.com/ sites/berkleyma/files/uploads/storm_water_bylaw.pdf **Department Responsible for Enforcement:** Board of Health **BMP: Street Design and Parking Lot Guidelines Report** BMP Number (Optional) 5-2 **Completed** (by year 4) **Document Name and/or Web Address: Description:** Develop 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: Planning Board **Measurable Goal(s):** Complete report by June 30, 2022 with progress reported annually. Implement recommendations of report. **BMP: Green Infrastructure Report Completed** (by year 4) BMP Number (Optional) 5-3 **Document Name and/or Web Address: Description:** Develop a report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist.

Complete report by June 30, 2022 with progress reported annually. Implement recommendations of report.

Responsible Department/Parties: Planning Board

Measurable Goal(s):

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BMP Number (Optional) 5-4 **Completed** (by year 4) **Document Name and/or Web Address: Description:** Identify at least five municipally-owned properties that could be modified or retrofitted with best management practices (BMPs) to reduce impervious areas. Responsible Department/Parties: Highway Department, Planning Board, and Board of Selectmen **Measurable Goal(s):** Develop list of municipal retrofit opportunities by June 30, 2022. Starting in Permit Year 5, report annually on retrofitted properties and continue to identify additional municipal retrofit opportunities to maintain a minimum of 5 sites on the list. BMP: As-built Plans for On-site Stormwater Control BMP Number (Optional) 5-5 **Completed Document Name and/or Web Address: Description:** The existing Subdivision Rules and Regulations require "as-built" plans and operation and maintenance (O&M) plans for stormwater management. The existing Subdivision Rules and Regulations, Site Plan Review, and/or Stormwater Bylaw will be reviewed and updated and/or expanded, as appropriate to ensure long-term operation and maintenance for on-site stormwater control. Responsible Department/Parties: Planning Board **Measurable Goal(s):** Continue to require submission of as-built plans and operation and maintenance plans for completed projects. Report annually on measures utilized. **BMP:Post-Construction Stormwater Control or Management Practices BMP Number** (Optional) **5-6 Completed Document Name and/or Web Address: Description:** Review and update regulatory mechanisms to ensure any stormwater controls or management practices for new development and redevelopment meet the retention or treatment requirements of the permit and all

applicable requirements of the Massachusetts Stormwater Handbook.

BMP: List of Municipal Retrofit Opportunities

Responsible Department/Parties: Plann	ng Board
Measurable Goal(s):	
Complete the review and update by June	30, 2020.

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 Pollutoin Prevention Plans can be found here: https://www.epa.gov/npdes-permits/stormwater-tools-new-england#gh

PERMITTEE OWNED FACILITIES

BMP: Parks and Open Spaces Operations and Maintenance Procedures

BMP Number (Optional) 6-1	Written Document Completed (by year 2)
Document Name and/or Web Address:	
Description:	
_	e (O&M) procedures including all requirements contained in 2.3.7.a. arks and open spaces. The completed O&M procedures will be
Responsible Department/Parties: Highw	yay Department and Board of Selectmen
Measurable Goal(s):	
1	e 30, 2020, and implement them annually thereafter. Annually the O&M procedures, including associated maintenance.
Properties List (Optional):	
See BMP 6-11	
BMP: Buildings and Facilities Operation BMP Number (Optional) 6-2	written Document Completed (by year 2)
Document Name and/or Web Address:	
Description:	
`	1) procedures including all requirements contained in 2.3.7.a.ii for all and facilities where pollutants are exposed to stormwater runoff. included as part of the SWMP.
Responsible Department/Parties: Highw	ay Department
Measurable Goal(s):	
1	e 30, 2020, and implement them annually thereafter. Annually the O&M procedures, including associated maintenance.
Properties List (Optional):	
See BMP 6-11	

BMP: Vehicles and Equipment Operations and Maintenance Procedures BMP Number (Optional) 6-3 Written Document Completed (by year 2) **Document Name and/or Web Address: Description:** Create Operations and Maintenance (O&M) procedures including all requirements contained in 2.3.7.a.ii related to storage, fueling, and washing of municipally-owned or operated vehicles and equipment. The completed O&M procedures will be included as part of the SWMP. **Responsible Department/Parties:** Highway Department **Measurable Goal(s):** Develop written O&M procedures by June 30, 2020, and implement them annually thereafter. Annually report on the status and implementation of the O&M procedures, including associated maintenance. **Properties List** (Optional): See BMP 6-11 **INFRASTRUCTURE BMP: Infrastructure Operations and Maintenance Procedures** BMP Number (Optional) 6-4 Written Procedure Completed (by year 2) **Document Name and/or Web Address: Description:** Establish a program for maintenance, repair, and rehabilitation of MS4 infrastructure. The completed O&M procedures will be included as part of the SWMP. **Responsible Department/Parties:** Highway Department **Measurable Goal(s):** Develop and implement the procedures by June 30, 2020 to ensure all MS4 infrastructure is maintained. Annually document program implementation, including associated maintenance.

BMP: Catch Basin Cleaning Progran	<u>n</u>
BMP Number (Optional) 6-5	Written Procedure Completed (by year 1)
Document Name and/or Web Addres	ss:
Description:	
	ning such that each catch basin is no more than 50% full, and clean d schedule. The schedule will include a prioritization to optimize atenance, as applicable.
Responsible Department/Parties: High	ghway Department
Measurable Goal(s):	
By June 30, 2019, report on the plan for information to develop the optimization	or optimizing catch basin cleaning or a schedule for gathering n plan.
	dule. Annually report the total number of catch basins, the number of catch basins cleaned, and the total volume of material removed.
BMP: Street Sweeping Program BMP Number (Optional) 6-6	Written Procedure Completed (by year 1)
Document Name and/or Web Addres	ss:
Description:	
_	g such that all streets and muncipally-owned parking lots are swept de more frequent sweeping in targeted areas.
Responsible Department/Parties: Hi	ghway Department
Measurable Goal(s):	
_	pally-owned parking lots in the spring (following winter activities, such of miles cleaned or the volume or mass of material removed.
BMP: Winter Road Maintenance Pro	ogram_
BMP Number (Optional) 6-7	Written Procedure Completed (by year 1)
Document Name and/or Web Addres	ss:

Description:	
1 1	vinter road maintenance that includes use and storage of salt and valuates opportunities for use of alternative materials.
Responsible Department/Parties: Highw	vay Department
Measurable Goal(s):	
_	redures by June 30, 2020 and implement annually thereafter. ive for use in the municipality. Annually provide a status update on
BMP: Stormwater Treatment Structure	s Inspection and Maintenance Procedures
BMP Number (Optional) 6-8	Completed (by year 1) □
Document Name and/or Web Address:	
Description:	
Establish and implement inspection and m stormwater treatment structures.	naintenance procedures and frequencies for muncipally-owned
Responsible Department/Parties: Highw	vay Department
Measurable Goal(s):	
treatment structures (excluding catch basis	edures by June 30, 2020. Inspect all municipally-owned stormwater ns) each year. Examples of stormwater treatment structures includes pasins, infiltration structures, proprietary treatment devices, etc. d inspections completed.
BMP: SWPPP	
BMP Number (Optional) 6-9	Completed (by year 2) □
Document Name and/or Web Address:	
Description:	
	Plans (SWPPPs) for the Highway Garage and Transfer Station /

Responsible Department/Parties:	Highway Department		
Measurable Goal(s):			
1	facilities by June 30, 2020, and implement annually thereafter. Provide a f the SWPPPs and document findings from SWPPP inspections in the		
BMP: Parks and Open Spaces, Bu	idlings and Facilities, and Vehicles and Equipment Inventory		
BMP Number (Optional) 6-10	Completed □		
Document Name and/or Web Add	lress:		
Description:			
and equipment activities (storage, fu	pally-owned parks and open spaces, buildings and facilities, and vehicle ueling, and washing). Examples of buildings and facilities include schools, g, municipal pools, and parking garages.		
Responsible Department/Parties:	Highway Department		
Measurable Goal(s):			
Develop inventory by June 30, 2020). Annually review and update the inventory.		

Add BMP

Annual Evaluation

Year 1 Annual Report	
Document Name and/or Web Address:	
Voor 2 Annual Donart	
Year 2 Annual Report	
Document Name and/or Web Address:	
Year 3 Annual Report	
Document Name and/or Web Address:	
Document Name and/or Web Address:	
Year 4 Annual Report	
Document Name and/or Web Address:	
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).

	11 1			` '	
Imp	pairment(s)				
	⊠ Bacteria/Pathogens		Chloride	☐ Nitrogen	☐ Phosphorus
Γ	Solids/oil/grease (h	ydrocarb	ons)/metals		
TM In St	DL(s) ate:				
	Assabet River Ph	osphorus	⊠ Bac	teria and Pathoge	n Cape Cod Nitrogen
	Charles River Wa	atershed I	Phosphorus	Lake and	Pond Phosphorus
Out	of State:				
	☐ Bacteria and Path	ogen	☐ 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
Taunton River Watershed	Bacteria and Pathogen TMDL	+ -

Annual Rec	uirements	Beginni	ng Year 1
i iiiiiiwai i tee			

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:

BMP 3-4

Public Education and Outreach

(Public education messages can be combined with other public education requirements as applicable (see Appendix H and F for more information))

Annual message encouraging the proper management of pet waste, including noting any existing ordinances where appropriate

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

BMP 1-1

Permittee or its agents disseminate educational material to dog owners at the time of issuance or renewal of dog license, or other appropriate time

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

BMP 1-1

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:

BMP 1-5

Nitrogen

Combination of Impaired Waters Requirements and TMDL Requirements as Applicable

Applicable Receiving Waterbody(ies)	(if applicable)	Row
		+ -
nual Requirements Beginning Year 1		
Public Education and Outreach Public education messages can be combined with other public education require	ements as applicable (see Appendix H and I	F for more information)
Distribute an annual message in the spring (April/Magrass clippings and encourages the proper use of slow	• • • • • • • • • • • • • • • • • • • •	se and disposal o
The relevant BMP number(s) listed above in the Stor description of implementation actions and document		OR the
Distribute an annual message in the summer (June/Ju		agement of pet
waste, including noting any existing ordinances when	re appropriate	
The relevant BMP number(s) listed above in the Stor description of implementation actions and document	2	OR the
Distribute an annual message in the fall (August/Sep of leaf litter	tember/October) encouraging th	e proper disposa
The relevant BMP number(s) listed above in the Stor description of implementation actions and document		OR the

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

Add/Delete

TMDL Name

	The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:
	Establish procedures to properly manage grass cuttings and leaf litter on permittee property, include prohibiting blowing organic waste materials onto adjacent impervious surfaces
	The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:
	Increase street sweeping frequency of all municipal owned streets and parking lots subject to Perm 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:
) ;	gen Reduction Tracking BMP
	Any structural BMPs listed in Table 3 of Attachment 1 to Appendix H already existing or installed the regulated area by the permittee or its agents shall be tracked and the permittee shall estimate the nitrogen removal by the BMP consistent with Attachment 1 to Appendix H
	The BMP type, total area treated by the BMP, the design storage volume of the BMP and the estimated nitrogen removed in mass per year by the BMP is found in the following document or

Requirements Due by Year 2

Stormwater Management in New Development and Redevelopment

	The requirement for adoption/amendment of the permittee's ordinance or other regulatory mechanism shall include a requirement that new development and redevelopment stormwater management BMPs be optimized for nitrogen removal
	The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:
Require	ments Due by Year 4
	Complete a Nitrogen Source Identification Report
	The document name (if attached) and/or web address is/are:
Storn	nwater Management in New Development and Redevelopment
	Retrofit inventory and priority ranking under 2.3.6.1.b. shall include consideration of BMPs to reduce nitrogen discharges
	The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:
-	ments Due by Year 5
Potei	ntial Structural BMPs
	Evaluate all permittee-owned properties identified as presenting retrofit opportunities or areas for structural BMP installation under Permit part 2.3.6.d.ii or identified in the Nitrogen Source Identification Report that are within the drainage area of the impaired water or its tributaries
	The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

Complete a listing of planned structural BMPs and a plan and schedule for implementation
The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

Chloride

Applicable Receiving Waterbody(ies)	TMDL Name (if applicable)	Add/Delete Row
		+ -

			+ -
Annual 1	Requirements Beginning Year 1		
	ic Education and Outreach c education messages can be combined with other public education requ	irements as applicable (see Appendix H and F for n	nore information))
	Include an annual message in November/December industrial site owners on the proper storage and app with the steps that can be taken to minimize salt use	lication rates of winter deicing mater	
	The relevant BMP number(s) listed above in the Stedescription of implementation actions and document		the
Requirer	ments Due by Year 3		
	Develop a Salt Reduction Plan		
	The document name (if attached) and/or web address	ss is/are:	
Requirer	ments Due by Year 4		
	Continue implementation of the Salt Reduction Plan	1	
Requirer	ments Due by Year 5		
	Fully implement the Salt Reduction Plan		

Solids, Oil and Grease (Hydrocarbons), or Metals

Combination of Impaired Requirements and TMDL Requirements as Applicable

Applicable Rec	eiving Waterbody(ies)	TMDL Name (if applicable)	Add/Delete Row
			+ -
Annual Requirements Beg	nning Year 1		
Rank outfalls to t	hese receiving waters as high priori	ty for IDDE implementation in	the initial outfall
	P number(s) listed above in the Stoplementation actions and document		OR the
Good Housekeeping an	d Pollution Prevention for Permitte	ee Owned Operations	
	eeping frequency of all municipal cotential for high pollutant loads	owned streets and parking lots to	a schedule to
	P number(s) listed above in the Stoplementation actions and document		OR the
percent full; Clea	on and maintenance for catch basir n catch basins more frequently if in nt or debris loadings	-	
	P number(s) listed above in the Stoplementation actions and document		OR the

Requirements Due by Year 2

Stormwater Management in New Development and Redevelopment

Stormwater management systems designed on commercial and industrial land use area draining to the water quality limited water body shall incorporate designs that allow for shutdown and containment where appropriate to isolate the system in the event of an emergency spill or other unexpected event
The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

Phosphorus

Combination of Impaired Waters Requirements and TMDL Requirements as Applicable

+ - Te (see Appendix H and F for more information), ages the proper use and disposal of phosphorus-free fertilizers gement Program OR the
ages the proper use and disposal of phosphorus-free fertilizers gement Program OR the
phosphorus-free fertilizers gement Program OR the
e e
ng the proper management of pet
gement Program OR the
er) encouraging the proper disposa

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

	The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:
	Establish procedures to properly manage grass cuttings and leaf litter on permittee property, including 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:
ıv	vater Management in New Development and Redevelopment
	Retrofit inventory and priority ranking under 2.3.6.1.b. shall include consideration of BMPs to reduce
r	Retrofit inventory and priority ranking under 2.3.6.1.b. shall include consideration of BMPs to reduce the short of the relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:
	Retrofit inventory and priority ranking under 2.3.6.1.b. shall include consideration of BMPs to reduce the short o
	Retrofit inventory and priority ranking under 2.3.6.1.b. shall include consideration of BMPs to reduce the short of the short of the relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

Requirements Due by Year 2
Stormwater Management in New Development and Redevelopment

	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:
Requirer	nents Due by Year 4
	Complete a Phosphorus Source Identification Report
	The document name (if attached) and/or web address is/are:
Storn	water Management in New Development and Redevelopment
	Retrofit inventory and priority ranking under 2.3.6.1.b. shall include consideration of BMPs that infiltrate stormwater where feasible
	The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:
	nents Due by Year 5 trial Structural BMPs
	Evaluate all permittee-owned properties identified as presenting retrofit opportunities or areas for structural BMP installation under Permit part 2.3.6.d.ii or identified in the Phosphorus Source Identification Report that are within the drainage area of the impaired water or its tributaries
	The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:

Complete a listing of planned structural BMPs and a plan and schedule for implementation	
The relevant BMP number(s) listed above in the Stormwater Management Program OR the description of implementation actions and document location(s) are:	

Charles River Watershed Phosphorus TMDL

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

Lake and Pond Phosphorus TMDL

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

Applicable Receiving	PCP	Document Location	Add/Delete
Waterbody(ies)	Complete		Row
			+ -