

Stormwater Management Program (SWMP)

Town of Amherst

2 Main Street Amherst NH 03031

June 30, 2022

EPA NPDES Permit Number NHR41001

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

<https://www.amherstnh.gov/public-works/pages/stormwater-management-program>

“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 Please see Certification: <https://www.amherstnh.gov/public-works/pages/stormwater-manageme>

Signature

Date

Revisions

Printed Name

Signature

Date

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 09/28/2018

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

<https://www3.epa.gov/region1/npdes/stormwater/nh/tms4noi/amherst.pdf>

Authorization to Discharge was granted on May 14, 2019

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

https://www.amherstnh.gov/sites/amherstnh/files/uploads/nh_ms4_authorization_amherst_nhr041001.pdf

Stormwater Management Program Team

SWMP Team Coordinator

| | | | |
|------------------|--|-------|--|
| Name | <input type="text" value="Eric Slosek"/> | Title | <input type="text" value="Director"/> |
| Department | <input type="text" value="Public Works"/> | | |
| Phone Number | <input type="text" value="(603)673-2317"/> | Email | <input type="text" value="eslosek@amherstnh.gov"/> |
| Responsibilities | <input type="text"/> | | |

SWMP Team

| | | | |
|------------------|--|-------|---|
| Name | <input type="text" value="Nic Strong"/> | Title | <input type="text" value="Community Development Director"/> |
| Department | <input type="text" value="Community Development"/> | | |
| Phone Number | <input type="text" value="(603)673-6041"/> | Email | <input type="text" value="nstrong@amherstnh.gov"/> |
| Responsibilities | <input type="text"/> | | |

| | | | |
|------------------|---|-------|---|
| Name | <input type="text" value="Dean Shankle, Jr., PhD"/> | Title | <input type="text" value="Town Administrator"/> |
| Department | <input type="text" value="Administration"/> | | |
| Phone Number | <input type="text" value="(603)673-6041"/> | Email | <input type="text" value="dshankle@amherstnh.gov"/> |
| Responsibilities | <input type="text"/> | | |

| | | | |
|------------------|----------------------|----------------------|--|
| Name | <input type="text"/> | | |
| Department | <input type="text"/> | | |
| Phone Number | <input type="text"/> | <input type="text"/> | |
| Responsibilities | <input type="text"/> | | |

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 |
|---|---|--------------------------|-------------------------------------|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|-------------------------------------|--------------------------|---|
| HARTSHORN BROOK (NHRIV700060906-05) | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Mercury |
| UNNAMED TRIB. TO THE SOUHEGAN RIVER (NHRIV700060906-45) | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Mercury |
| HONEY POT POND (NHLAK700060906-01) | | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | pH, Mercury |
| STUMP POND (NHLAK700061001-03) | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Mercury |
| SOUHEGAN RIVER (NHRIV700060906-18) | 3 | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | pH, Mercury, Aluminum |
| BEAVER BROOK - WOOLFORD DAM (NHIMP700060906-10) | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Mercury |
| UNNAMED BROOK (NHRIV700060905-24) | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Mercury |
| BABOOSIC LAKE (NHLAK700060905-01-01) | 2 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Cyanobacteria hepatotoxic Microcystis, Mercury, pH |
| BABOOSIC LAKE - TOWN BEACH (NHLAK700060905-01-02) | 1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Excess Algal Growth, Cyanobacteria hepatotoxic macrocystis, Mercury |

[illegible]

| | | | | | | | | | | | |
|--|--|--------------------------|--------------------------|---------------------------------------|--------------------------|-----------------------------|--------------------------|-------------------------------------|-------------------------------------|--------------------------|---|
| PAVILION BROOK (NHRIV700060905-25) | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Mercury, pH |
| UNNAMED BROOK - BETWEEN LITTLE BABOOSIC LAKE AND WASHER COVE BABOOSIC LAKE (NHRIV700060905-09) | 1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Mercury, pH |
| BABOOSIC BROOK (NHRIV700060905-10) | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Mercury |
| SOUHEGAN RIVER (NHRIV700060906-16) | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Mercury, Copper |
| SOUHEGAN RIVER (NHRIV700060906-14) | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Mercury |
| BEAVER BROOK (NHRIV700060906-01) | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Mercury, pH, Aluminum |
| 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 |
| BEAVER BROOK (NHRIV700060906-02) | 2 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Mercury |
| UNNAMED BROOK - TO SOUHEGAN RIVER (NHRIV700060906-17) | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Mercury |
| UNNAMED BROOK (NHRIV700060906-39) | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Mercury |
| UNNAMED BROOK (NHRIV700060906-38) | 2 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Mercury |
| UNNAMED BROOK - TO SOUHEGAN RIVER (NHRIV700060906-06) | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Mercury |
| UNNAMED BROOK (NHRIV700060906-37) | | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Mercury |
| WITCHES BROOK (NHRIV700061001-02) | 1 | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | Mercury, pH |
| UNNAMED BROOK - FROM CARRIAGE PLACE POND TO STUMP POND (NHRIV700061001-04) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Mercury |
| PENNICHUCK BROOK - WITCHES BROOK (NHRIV700061001-07) | | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> | Mercury, pH |

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)

09-28-2018 LTS US Fish and Wildlife Service.pdf

- ☐ Publicly available at the website listed below

Under what criterion did permittee determine eligibility for ESA?

- ☐ Criterion A ☐ Criterion B ☒ Criterion C

Under what criterion did permittee determine eligibility for Historic Properties?

- ☒ Criterion A ☐ Criterion B ☐ Criterion C ☐ Criterion D

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: Web page

BMP Number (Optional) 11

Document Name and/or Web Address: <https://www.amherstnh.gov/public-works/pages/stormwater-management-program>

Description:

Use NH Stormwater Coalition outreach materials and guidance - implementing outreach for relevant impairments town wide

Targeted Audience: Businesses, institutions, and commercial facilities

Responsible Department/Parties: Community Development Department

Measurable Goal(s):

1. Increased awareness of how fertilizer works
2. Increased awareness of pet waste impacts to water quality
3. Increased awareness of yard waste impacts to water quality
4. Increased awareness of septic system impacts to water quality

Message Date(s): 2019-2020

BMP: Promotional materials to residents

BMP Number (Optional) 12

Document Name and/or Web Address: <https://www.amherstnh.gov/public-works/pages/stormwater-management-program>

Description:

Use NH Stormwater Coalition outreach materials and guidance - implementing outreach for relevant impairments town wide

Targeted Audience: Residents

Responsible Department/Parties: Community Development Department

Measurable Goal(s):

1. Increased awareness of how fertilizer works
2. Increased awareness of pet waste impacts to water quality
3. Increased awareness of yard waste impacts to water quality
4. Increased awareness of septic system impacts to water quality

Message Date(s): 2019-2020

BMP: Outreach to developers

BMP Number (Optional) 13

Document Name and/or Web Address: <https://www.amherstnh.gov/public-works/pages/stormwater-management-program>

Description:

Use NH Stormwater Coalition outreach materials and guidance for developer audience

Targeted Audience: Developers (construction)

Responsible Department/Parties: Community Development Department

Measurable Goal(s):

Local developers aware of federal SW regulations

Message Date(s): 2019-2020

BMP: Outreach to industrial facilities

BMP Number (Optional) 14

Document Name and/or Web Address: <https://www.amherstnh.gov/public-works/pages/stormwater-management-program>

Description:

Use NH Stormwater Coalition outreach materials and guidance for industrial facilities

Targeted Audience: Industrial facilities

Responsible Department/Parties: Community Development Department

Measurable Goal(s):

Increased awareness of Industrial facilities permits

Message Date(s): 2020

BMP: Outreach to developers

BMP Number (Optional) 15

Document Name and/or Web Address: <https://www.amherstnh.gov/public-works/pages/stormwater-management-program>

Description:

Use NH Stormwater Coalition outreach materials and guidance for developer audience

Targeted Audience: Developers (construction)

Responsible Department/Parties: Community Development Department

Measurable Goal(s):

Local developers aware of local SW regulations

Message Date(s): 2022

BMP: Outreach to industrial facilities

BMP Number (Optional) 16

Document Name and/or Web Address: <https://www.amherstnh.gov/public-works/pages/stormwater-management-program>

Description:

Use NH Stormwater Coalition outreach materials and guidance for industrial facilities

Targeted Audience: Industrial facilities

Responsible Department/Parties: Community Development Department

Measurable Goal(s):

Attendees to webinar

Message Date(s): 2023

BMP: Pet Waste Disposal

BMP Number (Optional)

Document Name and/or Web Address: <https://www.amherstnh.gov/public-works/files/pet-waste-brochure-2022>

Description:

Publish brochure and information promoting proper pet waste disposal on the website and at Town Hall

and distribute with every dog license issued

Targeted Audience: Resident Pet Owners

Responsible Department/Parties: Office of Community Development

Measurable Goal(s):

Increased awareness of pet waste impacts to water quality

Message Date(s): Spring 2022

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) 21

Location of Plan and/or Web Address: <https://www.amherstnh.gov/public-works/pages/stormwater-management-program>

Responsible Department/Parties: Department of Public Works and Office of Community Development

Measurable Goal(s):

Stormwater Management Plan is publicly available.

BMP: Public Participation in Stormwater Management Program Development

BMP Number (Optional) 22

Location of Plan and/or Web Address: <https://www.amherstnh.gov/public-works/pages/stormwater-management-program>

Description:

The SWMP is published on the town website with direction where to make comments. Presentations are periodically made to the Board of Selectmen and there is time for questions and comments

Responsible Department/Parties: Community Development Department

Measurable Goal(s):

Annual input collected

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) 31

Completed (by May 1, 2008) ☒

Ordinances Link or Reference:

Department Responsible for Enforcement:

BMP: Sanitary Sewer Overflow (SSO) Inventory

BMP Number (Optional) 32

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 EPA. Follow up the verbal notification with a written notification to EPA and NHDES within five days of becoming aware of the SSO occurrence.

| | |
|--|---|
| The NHDES contacts are: (603) 271-3503 Mailing: PO Box 95 Concord, NH 03302-0095 | 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) 33

Phase I Completed
(By year 2) ☐

Phase II Completed
(By year 10) ☐

Document Location and/or Web Address:

Description:

Create map and update during IDDE program completion

Responsible Department/Parties: Community Development and Public Works 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, municipal sanitary sewer system (if available), and municipal combined sewer system (if applicable) within 10 years of the permit's effective date.

BMP: IDDE Program

BMP Number (Optional) 34

Written Document Completed (by year 1) ☒

Document Name and/or Web Address: Department of Public Works and Community Development
Department

Description:

Generate document as Permit requires.

Responsible Department/Parties: Community Development and Public Works Department

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:

Department of Public Works and Community Development Department

BMP: Employee Training

BMP Number (Optional) 35

Description:

Employee training

Responsible Department/Parties:

Department of Public Works

Measurable Goal(s):

Training occurs on June 20 annually. Name of employees, department, and date participated.

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) 41

Completed (by May 1, 2008) ☒

Ordinances Link or Reference: Adopted 2/22/07

Department Responsible for Enforcement: Community Development Department

BMP: Sediment and Erosion Control Ordinance

BMP Number (Optional)

Completed ☐

Document Name and/or Web Address:

<https://www.amherstnh.gov/amherst-board-selectmen/files/stormwater-regulations-adopted-1262020>

Description:

Updated Stormwater Regulations Adopted December 16, 2020

Responsible Department/Parties: Office of Community Development

Measurable Goal(s):

Stormwater Management Plans submitted for development and construction

BMP: Site Plan Review Procedures

BMP Number (Optional) 42

Written procedures completed (by year 1) ☒

Document Name and/or Web Address: Community Development Department's page on Town website

Description:

Complete written procedure of site plan review and begin implementation

Responsible Department/Parties: Community Development Department

Measurable Goal(s):

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

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

BMP Number (Optional) 43 _____

Completed (by year 1) ☒

Document Name and/or Web Address: Community Development Department's page on Town website

Description:

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

Responsible Department/Parties: Community Development Department

Measurable Goal(s):

Follow the above document and take enforcement actions as needed.

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) 51

Completed (by year 2) ☐

Town Ordinances Link or Reference: Adopted in 2/22/07

Department Responsible for Enforcement: Community Development Department

BMP: Sediment and Erosion Control Ordinance

BMP Number (Optional)

Completed ☐

Document Name and/or Web Address: <https://www.amherstnh.gov/amherst-board-selectmen/files/stormwater-regulations-adopted-1262020>

Description:

Updated Stormwater Regulations Adopted December 16, 2020

Responsible Department/Parties: Office of Community Development

Measurable Goal(s):

Stormwater Management Plans submitted for development and construction

BMP: Street Design and Parking Lot Guidelines Report

BMP Number (Optional) 52

Completed (by year 4) ☐

Document Name and/or Web Address: Community Development Department's page on Town website

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: Community Development Department

Measurable Goal(s):

Complete 4 years after effective date of permit and implement recommendations of report.

BMP: Green Infrastructure Report

BMP Number (Optional) 53 _____

Completed (by year 4) ☐

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

Responsible Department/Parties:

Measurable Goal(s):

Complete 4 years after effective date of permit and implement recommendations of report.

BMP: List of Municipal Retrofit Opportunities

BMP Number (Optional) 54 _____

Completed (by year 4) ☐

Document Name and/or Web Address:

Description:

Complete an inventory and priority ranking of permittee-owned property and existing infrastructure that could be retrofitted with BMPs designated to reduce the frequency, volume, and pollutant loads of stormwater discharges to its MS4 through the mitigation of impervious area.

Responsible Department/Parties:

Measurable Goal(s):

Complete 4 years after effective date of permit and report annually on retrofitted properties.

BMP: As-Built plans for on-site stormwater control

BMP Number (Optional) 55 _____

Completed ☐

Document Name and/or Web Address:

Description:

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

Responsible Department/Parties:

Measurable Goal(s):

Require submission of as-built plans for completed projects.

BMP: Ensure any stormwater controls or management practices for new development and redevelopment

BMP Number (Optional) 56

Completed ☐

Document Name and/or Web Address: Community Development Department's page on Town website

Description:

Adoption, amendment, or modification of a regulatory mechanism to meet permit requirements

Responsible Department/Parties: Community Development Department

Measurable Goal(s):

Complete 2 years after effective date of permit

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) 61

Written Document Completed (by year 2) ☐

Document Name and/or Web Address: Department of Public Works' page on the Town's website

Description:

Create written O&M procedures including all requirements contained in 2.3.7.1 for parks and open spaces, buildings and facilities, and vehicles and equipment

Responsible Department/Parties: Department of Public Works, Recreation Department, and SAU39

Measurable Goal(s):

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

Properties List (Optional):

Amherst has this for reference

BMP: Buildings and Facilities Operations and Maintenance Procedures

BMP Number (Optional) 62

Written Document Completed (by year 2) ☐

Document Name and/or Web Address: Department of Public Works' page on the Town's website

Description:

Create inventory of all permittee-owned facilities and equipment

Responsible Department/Parties: Department of Public Works, Recreation Department, and SAU39

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) 63

Written Document Completed (by year 2) ☐

Document Name and/or Web Address: Department of Public Works' page on the Town's website

Description:

Create inventory of all permittee-owned facilities and equipment

Responsible Department/Parties: Department of Public Works

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) 64

Written Procedure Completed (by year 2) ☐

Document Name and/or Web Address: Department of Public Works' page on the Town's website

Description:

Establish and implement program for repair and rehabilitation of MS4 infrastructure

Responsible Department/Parties: Department of Public Works

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) 65

Written Procedure Completed (by year 1) ☒

Document Name and/or Web Address: Department of Public Works' page on the Town's website

Description:

Establish schedule for catch basin cleaning

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

All catch basins are cleaned in accordance with the document above such that no catch basin is more than 50% full at any given time. Clean catch basins on established schedule and report number of catch basins cleaned and volume of material moved annually.

BMP: Street Sweeping Program**BMP Number (Optional)** 66**Written Procedure Completed** (by year 1) ☒**Document Name and/or Web Address:** Department of Public Works' page on the Town's website**Description:**

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

Responsible Department/Parties: Department of Public Works, SAU39**Measurable Goal(s):**

Annually sweep all streets and all municipal parking lots in accordance with the schedule listed above.

BMP: Winter Road Maintenance Program**BMP Number (Optional)** 67**Written Procedure Completed** (by year 1) ☒**Document Name and/or Web Address:** Department of Public Works' page on the Town's website**Description:**

Revise Winter Road Maintenance Program.

Responsible Department/Parties: Department of Public Works**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)** 68**Completed** (by year 1) ☒**Document Name and/or Web Address:** Department of Public Works

Description:

Regularly inspect and maintain treatment structures to ensure proper function.

Responsible Department/Parties: Department of Public Works

Measurable Goal(s):

Regularly inspect and maintain treatment structures to ensure proper function.

BMP: SWPPP

BMP Number (Optional) 69

Completed (by year 2) ☐

Document Name and/or Web Address: Department of Public Works' page on the Town's website

Description:

Write and use Stormwater Pollution Prevention Plan.

Responsible Department/Parties: Department of Public Works, Recreation Department, and SAU39

Measurable Goal(s):

Develop and implement SWPPPs for 100% of facilities.

Annual Evaluation

Year 1 Annual Report

Document Name and/or Web Address:

<https://www.amherstnh.gov/public-works/pages/stormwater-management-program>

Year 2 Annual Report

Document Name and/or Web Address:

<https://www.amherstnh.gov/public-works/pages/stormwater-management-program>

Year 3 Annual Report

Document Name and/or Web Address:

<https://www.amherstnh.gov/public-works/pages/stormwater-management-program>

Year 4 Annual Report

Document Name and/or Web Address:

Year 5 Annual Report

Document Name and/or Web Address:

Year X Annual Report

Document Name and/or Web Address:

TMDLs and Water Quality Limited Waters

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

Impairment(s)

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

TMDL(s) (Appendix F)

- ☐ Bacteria/ Pathogens ☐ Chloride ☒ Lake and Pond Phosphorus

Alternative TMDL Plans (if applicable)

- ☐ Alternative Bacteria/Pathogens Reduction Plan

can be found (document name or web address):

- ☐ Alternative Chloride Reduction Plan

can be found (document name or web address):

- ☐ Alternative Lake and Pond Phosphorus Reduction Plan

can be found (document name or web address):

Bacteria/Pathogens

Combination of Impaired Waters Requirements and TMDL Requirements as Applicable

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

Annual Requirements Beginning Year 1

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:

Stormwater Management Program BMP #34

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:

Stormwater Management Program BMP #11 & BMP #12

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:

Stormwater Management Program BMP #11 & BMP #12

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:

Stormwater Management Program BMP #11 & BMP #12

Phosphorus Impairment

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

Annual Requirements Beginning Year 1

Rank outfalls to these receiving waters as high priority for IDDE implementation in the initial outfall ranking

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

Stormwater Management Program BMP #34

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:

Stormwater Management Program BMP #11 & BMP #12

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:

Stormwater Management Program BMP #11 & BMP #12

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:

Planned for October 2019; Stormwater Management Program BMP #11 & BMP #12

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

Increase street sweeping frequency of all municipal owned streets and parking lots subject to Permit part 2.3.7.a.iii. (c) to a minimum of two times per year (spring and fall)

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

Stormwater Management Program BMP #66

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:

Town website on Department of Public Works page; Stormwater Management Program BMP #11 & BMP #12

Stormwater Management in New Development and Redevelopment

Retrofit inventory and priority ranking under 2.3.6.1.b. shall include consideration of BMPs to reduce nitrogen discharges

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

Potential structural BMPs

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. Document 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 in each annual report

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:

Requirements Due by Year 4

Complete a Phosphorus Source Identification Report

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

Stormwater Management in New Development and Redevelopment

Retrofit inventory and priority ranking under 2.3.6.1.b. shall include consideration of BMPs that infiltrate stormwater where feasible

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

Requirements Due by Year 5

Potential Structural BMPs

Evaluate all permittee-owned properties identified as presenting retrofit opportunities or areas for structural BMP installation under Permit part 2.3.6.d.ii or identified in the Phosphorus Source Identification Report that are within the drainage area of the impaired water or its tributaries

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

Complete a listing of planned structural BMPs and a plan and schedule for implementation

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

Solids, Oil and Grease (Hydrocarbons), or Metals Impairments

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

Annual Requirements Beginning Year 1

Rank outfalls to these receiving waters as high priority for IDDE implementation in the initial outfall ranking

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

Stormwater Management Program BMP #34

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:

Stormwater Management Program BMP #66

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:

Stormwater Management Program BMP #65

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:

Lake and Pond Phosphorus TMDL

| Applicable Receiving Waterbody(ies) | PCP Complete | Document Location | Add/Delete Row |
|-------------------------------------|-------------------------------------|---|---|
| Baboosic Lake | <input checked="" type="checkbox"/> | https://www.des.nh.gov/organization/divisions/water/wmb/tmdl/documents/baboosic-lake.pdf | <input type="button" value="+"/> <input type="button" value="-"/> |