

Stormwater Management Program (SWMP)

TOWN OF BEDFORD, NEW HAMPSHIRE



Permit Year 2

Prepared By:

**Town of Bedford, Seacoast Stormwater Coalition &
Manchester/Nashua Stormwater Coalition**

Revised 11/4/2020

EPA NPDES Permit Number NHR041036

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Appendix A

Appendix B

Certification

Instructions: 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. Use the following language if your municipality wishes to file using an authorized representative.

Authorized Representative:

The authorization letter is:

- Attached to this document (document name listed below):

- Publicly available at the website:

Instructions: Use the following language if signed by a person described in Appendix B.

“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

Rick Sawyer – Town Manager

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.

Small MS4 Authorization

The NOI was submitted on

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

Authorization to Discharge under the 2017 NH Small MS4 General Permit was granted on

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

Stormwater Management Program Team

SWMP Team Coordinator:

Position/Title: Town Engineer/ Assistant Public Works Director	Name: Department: Phone Number: Email Address:	Jeanne Walker Public Works 603-472-3070 jwalker@bedfordnh.org
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SWMP Team:

Position/Title: Public Works Director	Name: Department: Phone Number: Email Address:	Jeffrey W. Foote Public Works 603-472-3070 jfoote@bedfordnh.org
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Position/Title: Environmental Coordinator	Name: Department: Phone Number: Email Address:	Jerome Spooner Public Works 603-792-1328 jspooner@bedfordnh.org
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Position/Title: Engineering Technician/GIS Coordinator	Name: Department: Phone Number: Email Address:	Brandon Boisvert Public Works 603-472-3070 bboisvert@bedfordnh.org
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Position/Title: Planning Director	Name: Department: Phone Number: Email Address:	Becky Hebert Planning 603-472-5343 rhebert@bedfordnh.org
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Receiving Waters

The list of receiving waters, impairments and number of outfalls discharging to each waterbody segment has been included in the Notice of Intent.

Eligibility: Endangered Species and Historic Properties

Endangered Species and Historic Properties eligibility information has been included in the Notice of Intent.

MCM 1
Public Education and Outreach
Permit Part 2.3.2

Requirements - Year 1

BMP #1.1: Septic System Maintenance – Brochures/Pamphlets

Document Name and/or Web Address:

“Get Pumped!” Brochure:

<https://www.bedfordnh.org/DocumentCenter/View/4103/Septic-System-Maintenance-Brochure>

Description: Distribute and promote brochure, directing to website to educate New Hampshire homeowners with septic systems on how to identify, locate and maintain those systems. Get Pumped NH is a collaborated effort between the New Hampshire Association of Septage Haulers (NHASH) and the New Hampshire Department of Environmental Services (NHDES).

Targeted Audience: Septic System Owners

Responsible Department/Parties: Bedford Public Works Department

Measurable Goal(s): Increase residents’ awareness of septic system maintenance and water quality impacts.

Message Date: Ongoing

BMP 1.2: Pet Waste Disposal – Brochures/Pamphlets

Document Name and/or Web Address:

"Every Drop" Brochure:

<https://www.bedfordnh.org/DocumentCenter/View/4102/Petwaste-Disposal-Brochure>

Description: Distribution and promotion of "Every Drop" flyer with proper pet waste management, impacts of improper management, pet waste ordinance, and disposal requirements messaging. May include pledge to pick up pet waste to be made available during dog registration and other events or venues (veterinarians, dog training, groomers, etc.). Every Drop is a collaborative education effort with PREP, NHDES and other partners. Flyers will be available at the Town office and will also be posted online (Bedfordnh.org).

Targeted Audience: Residents - Pet Owners.

Responsible Department/Parties: Bedford Public Works Department.

Measurable Goal(s): Dog owners and/or dog walkers are aware of the potential water quality impacts from pet waste, local pet waste ordinances, and how to dispose of pet waste properly. If pledges are signed, there will be an increase of dog owners committed to picking up pet waste. In addition, the town will be selecting five pledges to receive a standard dog license free of charge.

Message Date: Spring or time of license renewal, Ongoing.

BMP 1.3: Grass and Fertilizer – Brochures/Pamphlets

Document Name and/or Web Address:

“Green Grass & Clear Water” Brochure:

<https://www.bedfordnh.org/DocumentCenter/View/4101/Grass-and-Fertilizer-Brochure>

Description: Distribution and promotion of brochure produced by UNH Cooperative Extension and NH Sea

Grant outlining simple recommendations to keep lawns healthy while reducing water quality impacts - including proper fertilizer techniques and disposal of grass clippings.

Targeted Audience: Residences, Businesses and Institutions.

Responsible Department/Parties: Bedford Public Works Department.

Measurable Goal(s): Lawn care enthusiasts' residents understand the potential water quality impacts from fertilizer and improper disposal of grass clippings and are aware of the proper lawn care management techniques for reducing those impacts. Measurement includes materials distribution methods and numbers and change in visits to UNH Cooperative Extension or municipal stormwater webpages.

Message Date: Spring, 2019

BMP 1.4: Disposal of Leaf and Grass Clipping – Brochures/Pamphlets

Document Name and/or Web Address:

“Rake it or Leave it” Brochure:

<https://www.bedfordnh.org/DocumentCenter/View/4227/Leaf-Litter-Brochure>

Description: Distribute and promote informational flyer with messaging about impacts from yard waste on waterbodies, alternatives to dumping yard waste and laws against dumping yard waste near or in waterbodies.

Targeted Audience: Residences, Businesses and Institutions.

Responsible Department/Parties: Bedford Public Works Department.

Measurable Goal(s): Measurement includes materials distribution methods and numbers and change in visits to UNH Cooperative Extension or municipal stormwater webpages. Track observations of any changes in known dumping sites.

Message Date: Fall, 2020

BMP 1.5: Town Website

Description: Information on MS4 permit requirements and posting of related documents, notices and materials regular pumping and maintenance of septic systems.

Targeted Audience: All target audiences

Responsible Department/Parties: Bedford Public Works Department/Website Administrator.

Measurable Goal(s): Maintain an up-to-date website for dissemination and posting of MS4 permit and stormwater information.

Message Date: Annually/ongoing beginning 2019.

Town Website: www.bedfordnh.org/366/Public-Works

BMP 1.6: Salt Storage and Use – Brochures/Pamphlets

Document Name and/or Web Address: TBD

Description: Information on storage/use of salt or deicing materials. Information will be available on the town website.

Targeted Audience: Businesses, institutions, commercial facilities, landscaping companies and private maintenance and snowplowing contractors.

Responsible Department/Parties: Bedford Public Works Department

Measurable Goal(s): Increase awareness of effects that salt or deicing materials have on surrounding environment and water quality; Increase awareness to better manage and reduce the amount of salt or deicing materials used; Increase awareness of proper storage of salt or deicing materials.

Message Date: Winter 2020

BMP 1.7: Salt Storage and Use – Brochures/Pamphlets

Document Name and/or Web Address: www.bedfordnh.org/DocumentCenter/View/4245/Stormwater-and-Land-Disturbance-Management-Regulations (page 3, #5)

Description: Information on storage/use of salt or deicing materials. Information is be available on the Town website.

Targeted Audience: Industrial facilities.

Responsible Department/Parties: Bedford Public Works Department

Measurable Goal(s): Increase awareness of effects that salt or deicing materials have on surrounding environment and water quality; Increase awareness to better manage and reduce the amount of salt or deicing materials used; Increase awareness of proper storage of salt or deicing materials.

Message Date: Fall 2020

BMP 1.8: Training

Description: Town staff will participate in training as provided by NHDES, local stormwater coalitions, or other agencies or groups.

Targeted Audience: Town employees and department managers.

Responsible Department/Parties: Bedford Public Works Department

Measurable Goal(s): Increase awareness of and education of Town staff pursuant to MS4 permit requirements. Training Highway Department staff on good Housekeeping requirements.

Message Date: Annually beginning 2020.

BMP 1.9: Site and Subdivision Regulations

Document Name and/or Web Address:

<https://www.bedfordnh.org/DocumentCenter/View/4245/Stormwater-and-Land-Disturbance-Management-Regulations>

Description: Promote Low Impact Development (LID) by ensuring that each site plan of subdivision application includes information on LID. Town regulation to be modified to require LID practices. Information will be available in the site plan and subdivision regulations and on the Town website.

Targeted Audience: Developers/Construction

Responsible Department/Parties: Bedford Planning Department.

Measurable Goal(s): Increased awareness and use of Low Impact Development (LID) principles and technologies.

Message Date: Ongoing

MCM 2
Public Involvement and Participation
Permit Part 2.3.3

BMP 2.1: Public Review of Stormwater Management Program

Location of Plan and/or Web Address:

<https://www.bedfordnh.org/DocumentCenter/View/4070/SWMP>

Responsible Department/Parties: Bedford Public Works Department

Measurable Goal(s): Stormwater Management Plan is publicly available

BMP 2.2: Public Participation in Stormwater Management Program Development

Description: The SWMP will be posted on the Town website. The Bedford Town Council will periodically announce updates to the SWMP and direct residents to the website to review the SWMP and provide comments.

Responsible Department/Parties: Bedford Public Works Department and Town Council

Measurable Goal(s): Annual public input provided

MCM 3
**Illicit Discharge Detection and
Elimination (IDDE) Program**
Permit Part 2.3.4

BMP: IDDE Legal Authority

See Illicit Discharge Detection and Elimination (IDDE) Plan.

BMP: Sanitary Sewer Overflow (SSO) Inventory

See Illicit Discharge Detection and Elimination (IDDE) Plan.

BMP: Map of Storm Sewer System

See Illicit Discharge Detection and Elimination (IDDE) Plan.

BMP: IDDE Program

See Illicit Discharge Detection and Elimination (IDDE) Plan.

BMP: Employee Training

See Illicit Discharge Detection and Elimination (IDDE) Plan.

MCM 4
Construction Site Stormwater Runoff Control
Permit Part 2.3.5

BMP 4.1: Sediment and Erosion Control Regulations

Completed (by May 1, 2008)

Ordinances Link or Reference:

<https://www.bedfordnh.org/DocumentCenter/View/4245/Stormwater-and-Land-Disturbance-Management-Regulations>

Department Responsible for Enforcement:

Bedford Public Works Department/Planning Department

BMP 4.2: Site Plan Review Procedures

Written procedures completed (by year 1)

Document Name and/or Web Address:

<https://www.bedfordnh.org/DocumentCenter/View/4580/2020-Land-Development-Control-Regulations>

Department Responsible for Enforcement:

Bedford Public Works Department/Planning Department

Description:

Formal written procedures for review of site plan and subdivision plans/projects for compliance with stormwater management regulations.

Measurable Goal(s):

Conduct site plan review of 100% of projects according to the procedures outlined above.

BMP 4.3: Site Inspections and Enforcement of Sediment and Erosion Control Measures Procedures

Completed (by year 1)

Document Name and/or Web Address:

<https://www.bedfordnh.org/DocumentCenter/View/4245/Stormwater-and-Land-Disturbance-Management-Regulations>

Department Responsible for Enforcement:

Bedford Public Works Department

Description:

Formal written procedures for site inspections of site and subdivision plans/projects for compliance with stormwater management regulations.

Measurable Goal(s):

Inspect 100% of construction sites as outlined in 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

BMP 5.1: Post-Construction Ordinance

Completed (by year 2)

Town Ordinances Link or Reference:

Department Responsible for Enforcement:

BMP 5.2: Street Design and Parking Lot Guidelines Report

Completed (by year 4)

Document Name and/or Web Address:

Department Responsible for Enforcement:

Description:

Measurable Goal(s): Recommendations are implemented by year 4 with progress reported annually.

BMP 5.3: Green Infrastructure Report

Completed (by year 4)

Document Name and/or Web Address:

Department Responsible for Enforcement:

Description:

Measurable Goal(s): Recommendations are implemented by year 4 with progress reported annually.

BMP 5.4: List of Municipal Retrofit Opportunities

Completed (by year 4)

Document Name and/or Web Address:

Department Responsible for Enforcement:

Description:

Measurable Goal(s): The list is completed by year 4 and updated as needed.

MCM 6
Good Housekeeping and Pollution
Prevention for Permittee Owned Operations
Permit Part 2.3.7

PERMITTEE OWNED FACILITIES

BMP 6.1: Parks and Open Spaces Operations and Maintenance Procedures

Written Document Completed (by year 2)

Document Name and/or Web Address: Landscaping and Lawn Care Pollution Prevention Procedures

Responsible Department/Parties: Bedford Public Works Department

Description:

The Town of Bedford will implement the following landscaping and lawn care BMP's:

- Purchase only enough lawn care products necessary for one year – store properly to avoid waste generation
- Use slow release or naturally derived (organic) fertilizers
- Train employees on the proper application of lawn care products
- Plant trees away from underground utilities
- Routinely monitor lawns to identify problems during the early stages
- Consider zero/low input lawns
- Consider alternative landscape techniques

The Town of Bedford will implement the following landscaping and lawn care maintenance procedures:

- Minimize/eliminate fertilizer application
- Leave grass clippings on lawn or mulch clippings into lawn
- Limit watering as necessary to supplement rainwater
- Mow with sharpened blades set high - remove only the top 1/3 of the leaves
- Water plants in the early morning

Measurable Goal(s): Implement the SOP on 100% of the parks and open spaces.

BMP 6.2: Buildings and Facilities Operations and Maintenance Procedures

Written Document Completed (by year 2)

Document Name and/or Web Address: Buildings and Facilities Pollution Prevention Procedures

Responsible Department/Parties: Bedford Public Works Department

Description:

The Town of Bedford will implement the following buildings and facilities BMP's:

- Keep all materials properly stored in closed, labeled containment systems
- Use secondary containment systems where appropriate
- Obtain spill recovery materials for immediate response to a spill

The Town of Bedford will implement the following maintenance procedures:

- Use reusable spill clean-up materials
- Pump out oil water separators as needed
- Protect drains with oil absorbent materials

Measurable Goal(s): Implement the SOP on 100% of buildings and facilities.

BMP 6.3: Vehicles and Equipment Operations and Maintenance Procedures

Written Document Completed (by year 2)

Document Name and/or Web Address: Vehicles and Equipment Pollution Prevention Procedures

Responsible Department/Parties: Bedford Public Works Department

Description: The Town of Bedford will implement the following vehicle and equipment BMP's:

- Conduct maintenance work indoors
- Clean up spilled materials immediately using "dry" methods
- Never leave vehicles unattended while refueling
- Identify appropriate recycling/disposal options for wastes

The Town of Bedford will implement the following vehicle and equipment maintenance procedures:

- Maintain a clean work area – remove contaminants from floors, drains, catch basins, using "dry" methods
- Use non-hazardous cleaners and non-chlorinated solvents where possible
- Repair and replace leaking containers
- Use steam cleaning/pressure washing instead of solvents for parts cleaning where possible
- Store waste fluids in properly capped, labelled storage containers
- Store batteries in leak-proof, compatible containers
- Rinse grass from lawn care equipment on permeable areas
- Protect against pollution if outside maintenance is necessary

Measurable Goal(s): Implement the SOP on 100% of municipal vehicles and equipment.

INFRASTRUCTURE

BMP 6.4: Catch Basin Cleaning Program

Written Document Completed (by year 1)

Document Name and/or Web Address: Bedford Highway Department Maintenance Procedures

Responsible Department/Parties: Bedford Public Works Department

Description:

The Town of Bedford performs routine inspections, cleaning, and maintenance of the approximately 2065 catch basins that are located within the MS4 regulated area. The Town of Bedford will implement the following catch basin inspection and cleaning procedures to reduce the discharge of pollutants from the MS4.

- Routine inspection and cleaning of catch basins. Catch basins should be cleaned such that they are not more than 50 percent full at any time. The Town of Bedford will initially inspect all catch basins within the regulated area within two (2) years of the effective date of the permit to evaluate sediment or debris accumulation and establish optimal inspection and maintenance frequencies to meet the “50 percent” goal.
- If a catch basin sump is more than 50 percent full during two consecutive routine inspections or cleaning events, the finding will be documented, the contributing drainage area will be investigated for sources of excessive sediment loading, and to the extent practicable, contributing sources will be addressed. If no contributing sources are found, the inspection and cleaning frequency will be increased.
- Catch basins located near construction activities (roadway construction, residential, commercial, or industrial development or redevelopment) will be inspected and cleaned more frequently if inspection and maintenance activities indicate excessive sediment or debris loadings (i.e., catch basins more than 50 percent full). Priority will also be given to catch basins that discharge to impaired waters.
- The following information will be included in each annual report:
 - Any action taken in response to excessive sediment or debris loadings;
 - Total number of catch basins;
 - Number of catch basins inspected;
 - Number of catch basins cleaned;
 - Total volume or mass of material removed from catch basins.

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.

BMP 6.5: Street Sweeping Program

Written Document Completed (by year 1)

Document Name and/or Web Address:

Bedford Highway Department Maintenance Procedures

Responsible Department/Parties:

Bedford Public Works Department

Description:

The Town of Bedford will implement the following street and parking lot sweeping procedures to reduce the discharge of pollutants from the MS4:

- All streets with the exception of rural uncurbed roads with no catch basins or high-speed limited access highways will be swept and/or cleaned a minimum of once per year in the spring (following winter activities such as sanding).
- More frequent sweeping will be considered for targeted areas based on pollutant load reduction potential, inspections, pollutant loads, catch basin cleaning or inspection results, land use, impaired waters, or other factors.
- More frequent sweeping is required for municipally-owned streets and parking lots in areas that discharge to certain nutrient-impaired waters. Sweeping must be performed in these areas a minimum of two times per year, once in the spring (following winter activities such as sanding) and at least once in the fall (Sept 1 – Dec 1; following leaf fall)
- For rural uncurbed roadways with no catch basins and limited access highways, the Town of Bedford will either meet the minimum frequencies above, or develop and implement an inspection, documentation, and targeted sweeping plan outlining reduced frequencies within two (2) year of the effective date of the permit and submit such plan with its year one annual report.
- The following information will be included in each annual report:
 - Number of miles cleaned, or the volume or mass of material removed

Measurable Goal(s): Annually sweep 100% of all streets and municipal parking lots in accordance with the schedule listed above.

BMP 6.6: Winter Road Maintenance Program

Written Document Completed (by year 1)

Document Name and/or Web Address: Bedford Highway Department Maintenance Procedures

Responsible Department/Parties: Bedford Public Works Department

Description: The Town of Bedford will implement the following winter maintenance procedures to reduce the discharge of pollutants from the MS4:

- Minimize the use of and optimize the application of sodium chloride and other salt (while maintaining public safety) and consider opportunities for use of alternative materials.
- Optimize sand and/or chemical application rates through the use, where practicable, of automated application equipment (e.g., zero velocity spreaders), anti-icing and pre-wetting techniques, implementation of pavement management systems, and alternate chemicals. Maintain records of the application of sand, anti-icing and/or de-icing chemicals to document the reduction of chemicals to meet established goals.
- Prevent exposure of deicing product (salt, sand, or alternative products) storage piles to precipitation by enclosing or covering the storage piles. Implement good housekeeping, diversions, containment or other measures to minimize exposure resulting from adding to or removing materials from the pile. Store piles in such a manner as not to impact surface water resources, groundwater resources, recharge areas, and wells
- Provide training for municipal employees on winter roadway maintenance

procedures.

Measurable Goal(s): Evaluate at least one salt/chloride alternative for use in the municipality. Monitor salt usage by the Town of Bedford.

BMP 6.7: Stormwater Treatment Structures Inspection and Maintenance Procedures

Written Document Completed (by year 2)

Document Name and/or Web Address:

Responsible Department/Parties:

Description: Structural stormwater BMPs will be inspected annually at a minimum and maintained as needed.

Measurable Goal(s): Inspect and Maintain 100% of treatment structures to ensure proper function.

BMP 6.8: SWPPP

Written Document Completed (by year 2)

Document Name and/or Web Address:

Responsible Department/Parties:

Description: Develop and implement a SWPPP for all municipally owned or operated facilities in accordance with Section 2.3.7.2 of the MS4 permit.

Measurable Goal(s): Develop and implement SWPPP's for 100% of municipally owned facilities.

BMP 6.9: Training of Town Staff

Written Document Completed (by year 2)

Document Name and/or Web Address:

Responsible Department/Parties:

Description: Annually provide education and training to Town staff on required/recommended good housekeeping procedures for municipal facilities.

Measurable Goal(s): Conduct annual training.

Annual Evaluation

Year 1 Annual Report

Document Name and/or Web Address:

<https://www.bedfordnh.org/DocumentCenter/View/4828/MS4-Year-1-Annual-Report---Bedford-NH>

Year 2 Annual Report

Document Name and/or Web Address:

<https://www.bedfordnh.org/DocumentCenter/View/4829/MS4-Year-2-Annual-Report---Bedford-NH>

Year 3 Annual Report

Document Name and/or Web Address:

Year 4 Annual Report

Document Name and/or Web Address: TBD

Year 5 Annual Report

Document Name and/or Web Address: TBD

Year X Annual Report

Document Name and/or Web Address: TBD

TMDLs and Water Quality Limited Waters

Bacteria/Pathogens

Combination of Impaired Waters Requirements and TMDL Requirements as Applicable

Applicable Receiving Waterbody(ies) as listed in Appendix F of the MS4 permit and provided in the most recent approved list of impaired waterbodies.	TMDL/Impairment Name (if applicable)
Patten Brook	Escherichia coli (Bacteria)
McQuade Brook	Escherichia coli (Bacteria)
Riddle Brook	Escherichia coli (Bacteria)

Annual Requirements Beginning Year 1

- Rank outfalls to these receiving waters as high priority for IDDE implementation in the initial outfall ranking (see IDDE Plan for ranking).
- Annual message encouraging the proper management of pet waste, including noting any existing ordinances where appropriate as outlined in this SWMP.

Phosphorus Impairment*

(* see Lake and Pond Phosphorus TMDL)

Applicable Receiving Waterbody(ies)	TMDL/Impairment Name (if applicable)

Annual Requirements Beginning Year 1

- Rank outfalls to these receiving waters as high priority for IDDE implementation in the initial outfall ranking (see IDDE Plan for ranking).

- Distribute an annual message that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release and phosphorus-free fertilizers as outlined in this SWMP.

- Distribute an annual message encouraging the proper management of pet waste, including noting any existing ordinances where appropriate as outlined in this SWMP.

- Distribute an annual message in the encouraging the proper disposal of leaf litter as outlined in this SWMP.

- 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) as outlined in this plan.

- Establish procedures to properly manage grass cuttings and leaf litter on permittee property, including prohibiting blowing organic waste materials onto adjacent impervious surfaces.

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

- 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.

Requirements Due by Year 2

- 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.

Requirements Due by Year 4

- Complete a Phosphorus Source Identification Report.
- The document name (if attached) and/or web address is/are: TBD
- Retrofit inventory and priority ranking under 2.3.6.1.b. shall include consideration of BMPs that infiltrate stormwater where feasible.

Requirements Due by Year 5

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

Nitrogen Impairment

Applicable Receiving Waterbody(ies)	TMDL/Impairment Name (if applicable)
None	

Annual Requirements Beginning Year 1

- Rank outfalls to these receiving waters as high priority for IDDE implementation in the initial outfall ranking (See IDDE Plan for ranking).
- Distribute an annual message that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release fertilizers as outlined in this SWMP.
- Distribute an annual message encouraging the proper management of pet waste, including noting any existing ordinances where appropriate as outlined in this SWMP.
- Distribute an annual message encouraging the proper disposal of leaf litter as outlined in this SWMP.
- Establish requirements for the use of slow release fertilizers on permittee owned property currently using fertilizer, in addition to reducing and managing fertilizer use as provided in part 2.3.7.1.
- Establish procedures to properly manage grass cuttings and leaf litter on permittee property, including prohibiting blowing organic waste materials onto adjacent impervious surfaces.
- 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) as included in this SWMP.
- 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 nitrogen removal by the BMP consistent with Attachment 1 to Appendix H.

Requirements Due by Year 2

- 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.

Requirements Due by Year 4

- Complete a Nitrogen Source Identification Report.
- The document name (if attached) and/or web address is/are: TBD
- Retrofit inventory and priority ranking under 2.3.6.1.b. shall include consideration of BMPs to reduce nitrogen discharges.

Requirements Due by Year 5

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

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

Applicable Receiving Waterbody(ies)	TMDL/Impairment Name (if applicable)
None	

Annual Requirements Beginning Year 1

- Rank outfalls to these receiving waters as high priority for IDDE implementation in the initial outfall ranking (See IDDE Plan for ranking).
- Increase street sweeping frequency of all municipal owned streets and parking lots to a schedule to target areas with potential for high pollutant loads as prescribed by this SWMP.
- 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 as prescribed by this SWMP.

Requirements Due by Year 2

- 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.

Lake and Pond Phosphorus TMDL

Applicable Receiving Waterbody(ies)	PCP Complete	TMDL/Impairment Name (if applicable)
Sebbins Pond	<input type="checkbox"/>	Phosphorus
	<input type="checkbox"/>	
	<input type="checkbox"/>	
	<input type="checkbox"/>	
	<input type="checkbox"/>	

Annual Requirements Beginning Year 1

- Rank outfalls to these receiving waters as high priority for IDDE implementation in the initial outfall ranking (see IDDE Plan for ranking).

- Distribute an annual message that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release and phosphorus-free fertilizers as outlined in this SWMP.

- Distribute an annual message encouraging the proper management of pet waste, including noting any existing ordinances where appropriate as outlined in this SWMP.

- Distribute an annual message in the encouraging the proper disposal of leaf litter as outlined in this SWMP.

- 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) as outlined in this plan.

- Establish procedures to properly manage grass cuttings and leaf litter on permittee property, including prohibiting blowing organic waste materials onto adjacent impervious surfaces.

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

- 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.

Requirements Due by Year 2

- 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.

Requirements Due by Year 4

- Complete a Phosphorus Source Identification Report.
- The document name (if attached) and/or web address is/are: TBD
- Retrofit inventory and priority ranking under 2.3.6.1.b. shall include consideration of BMPs that infiltrate stormwater where feasible.

Requirements Due by Year 5

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

Chloride Impairment

Applicable Receiving Waterbody(ies)	TMDL/Impairment Name (if applicable)
McQuesten Brook	Chloride Impairment
McQuade Brook	Chloride Impairment

Annual Requirements Beginning Year 1

- Rank outfalls to these receiving waters as high priority for IDDE implementation in the initial outfall ranking (See IDDE Plan for ranking).

Requirements Due by Year 3

- Develop a Salt Reduction Plan.

Requirements Due by Year 4

- Continue implementation of the Salt Reduction Plan.

Requirements Due by Year 5

- Fully implement the Salt Reduction Plan.

Chloride TMDL

Applicable Receiving Waterbody(ies)	TMDL/Impairment Name (if applicable)
None	

Annual Requirements Beginning Year 1

- Develop and implement a Chloride Reduction Plan.

Measures to Avoid or Minimize Impacts to Public and Known Private Drinking Water Sources (Surface Water and Groundwater)

There are no public surface water drinking water supplies in the Town of Bedford. Public water is supplied by Manchester Water Works and Pennichuck Water Works to customers connected to the public water supply system(s).

Residences and businesses not connected to the public water supply system(s) are served by onsite drinking water wells.

The Town of Bedford currently has designated Low Salt Use areas to protect sensitive water supply wells.

The NHDES has a number of resources available to assist those on private wells in monitoring their water quality. These include but are not limited to:

- The NHDES Be *Well* Informed Guide;
- NHDES Private Well Brochure;
- NHDES Private Well testing Program;

These resources are available at: <https://www4.des.state.nh.us/DWITool/>

The Water Research Foundation has a fact sheet available describing measures that can be taken to protect groundwater potable water supplies from impacts associated with stormwater. The fact sheet is can be viewed at: http://www.waterrf.org/knowledge/source-water-protection-and-management/FactSheets/SourceWater_FactSheet_landUse.pdf

APPENDIX A

LEGAL AUTHORITY

APPENDIX B

**DRAFT PROPOSED STORMWATER
REGULATIONS**

**TOWN OF BEDFORD,
NEW HAMPSHIRE**