

**United States Environmental Protection Agency (EPA)
National Pollutant Discharge Elimination System (NPDES)**

**GENERAL PERMITS FOR STORMWATER DISCHARGES FROM
SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS**

**AUTHORIZATION TO DISCHARGE UNDER THE
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM**

In compliance with the provisions of the Clean Water Act (CWA), as amended (33 U.S.C. §1251 *et seq.*), any operator of a small municipal separate storm sewer system whose system

- Is located in the areas described in Part 1.1;
- Is eligible for coverage under Part 1.2 and Part 1.9; and
- Submits a complete and accurate Notice of Intent in accordance with Part 1.7 of this permit and receives written authorization from EPA

is authorized to discharge in accordance with the conditions and the requirements set forth herein.

The following appendices are also included as part of these permits:

- Appendix A – Definitions, Abbreviations, and Acronyms;
- Appendix B – Standard permit conditions applicable to all authorized discharges;
- Appendix C – Endangered Species Act Eligibility Guidance;
- Appendix D – National Historic Preservation Act Eligibility Guidance;
- Appendix E – Information required for the Notice of Intent (NOI);
- Appendix F – Requirements for NH Small MS4s Subject to Approved TMDLs;
- Appendix G – Impaired Waters Monitoring Parameter Requirements; and
- Appendix H – Requirements related nitrogen-impaired waters in the Great Bay estuary and to chloride-impaired waters..

These permits become effective on*****.

These permits and the authorization to discharge expire at midnight,***** **[five years from permit effective date]**.

Signed this day of

Stephen S. Perkins, Director
Office of Ecosystem Protection
United States Environmental Protection Agency
5 Post Office Square – Suite 100
Boston, Massachusetts 02109-3912

Table of Contents

1.0	INTRODUCTION	4
1.1	AREAS OF COVERAGE	4
1.2	ELIGIBILITY	4
1.2.1	Small MS4s Covered	4
1.3	LIMITATIONS ON COVERAGE	4
1.4	ALLOWABLE NON-STORMWATER DISCHARGES	5
1.5	PERMIT COMPLIANCE.....	6
1.6	CONTINUATION OF THIS PERMIT	6
1.7	OBTAINING AUTHORIZATION TO DISCHARGE	6
1.7.1	How to Obtain Authorization to Discharge	7
1.7.2	Notice of Intent.....	7
1.7.3	Submission of Notice of Intent.....	7
1.7.4	Public Notice of NOI and Effective Date of Coverage.....	8
1.8	INDIVIDUAL PERMITS AND ALTERNATIVE GENERAL PERMITS	8
1.9	SPECIAL ELIGIBILITY DETERMINATIONS	9
1.9.1	Documentation Regarding Endangered Species.....	9
1.9.2	Documentation Regarding Historic Properties.....	9
1.10	STORMWATER MANAGEMENT PROGRAM (SWMP).....	10
1.10.1	Stormwater Management Program Availability	10
1.10.2	Contents of the Stormwater Management Program	11
1.10.3	Requirements for New Permittees	12
2.0	NON-NUMERIC EFFLUENT LIMITATIONS	13
2.1	WATER QUALITY BASED EFFLUENT LIMITATIONS.....	13
2.1.1	Requirement to Meet Water Quality Standards.....	13
2.2	DISCHARGES TO IMPAIRED WATERS	15
2.2.1	Discharges Subject to an Approved TMDL	15
2.2.2	Discharge to an Impaired Water without an Approved TMDL	17
2.2.3	Great Bay Watershed Nitrogen Requirements.....	23
2.2.4	DISCHARGES TO CHLORIDE-IMPAIRED WATERS	23
2.3	REQUIREMENTS TO REDUCE POLLUTANTS TO THE MAXIMUM EXTENT PRACTICABLE (MEP).....	24
2.3.1	Control Measures.....	24
2.3.2	Public Education and Outreach	25
2.3.3	Public Involvement and Participation.....	26
2.3.4	Illicit Discharge Detection and Elimination (IDDE) Program.....	27
2.3.5	Construction Site Stormwater Runoff Control	39
2.3.6	Stormwater Management in New Development and Redevelopment (Post Construction Stormwater Management)	41
2.3.7	Good House Keeping and Pollution Prevention for Municipal Operations.....	44
3.0	ADDITIONAL STATE REQUIREMENTS	51
3.1	REQUIREMENTS FOR MS4s IN NEW HAMPSHIRE	51
3.2	NEW HAMPSHIRE PUBLIC DRINKING WATER REQUIREMENTS	51
4.0	PROGRAM EVALUATION, RECORD KEEPING, AND REPORTING	53
4.1	PROGRAM EVALUATION.....	53
4.2	RECORD KEEPING	53
4.3	OUTFALL MONITORING	54
4.4	REPORTING	55

5.0	NON-TRADITIONAL MS4S	57
5.1.	REQUIREMENTS FOR NON-TRADITIONAL MS4S	57
5.2	FEDERAL MS4S.....	58
6.0	REQUIREMENTS FOR TRANSPORTATION AGENCIES	59
6.1	PUBLIC EDUCATION.....	59
6.2	ORDINANCES AND REGULATORY MECHANISMS.....	59
6.3	ASSESSMENT OF REGULATIONS	59
6.4	WATER QUALITY BASED REQUIREMENTS FOR NEW DISCHARGERS.....	59
6.4.1	New Discharger to Impaired Waters without an Approved TMDL	59
6.4.2	New Discharger to Impaired Waters with an Approved TMDL.....	60

1.0 Introduction

This document consists of three (3) general permits listed in Part 1.1. Each general permit is applicable to a particular type of municipal system within New Hampshire. Many of the permit terms and conditions are applicable across all regulated entities, and therefore are presented just once in Parts 1-2, Part 4, and Appendices A through E. Other conditions are applicable to a particular set of authorized entities; these terms and conditions are included in Parts 3, 5 and 6 and Appendices F through H. Throughout the permit, the terms “this permit” or “the permit” will refer to all three general permits.

1.1 Areas of Coverage

This permit covers small municipal separate storm sewer systems (MS4s) located in the State of New Hampshire:

- Traditional Cities and Towns (NPDES Permit No. NHR041000)
- State, federal, county and other publicly owned properties (Non-traditional) (NHR042000)
- State transportation agency (NHR043000)

1.2 Eligibility

The MS4 shall meet the eligibility provisions described in Part 1.2.1 and Part 1.9 to be eligible for authorization under this permit.

1.2.1 Small MS4s Covered

This permit authorizes the discharge of stormwater from small MS4s as defined at 40 CFR § 122.26(b)(16) and Appendix A. This includes MS4s described in 40 CFR §122.32(a)(1) or (a)(2). An MS4 is eligible for authorization under this permit if it is:

- An MS4 (see definition in Appendix A) within the permit areas described in Part 1.1;
- Not a large or medium MS4 as defined in 40 CFR §§122.26(b)(4) or (7); and either
- Located either fully or partially within an urbanized area as determined by the 2010 Decennial Census by the Bureau of Census; or
- Located in a geographic area designated by EPA as requiring a permit.

If the small MS4 is not located entirely within an urbanized area, only the portion of the MS4 that is located within the urbanized area is regulated consistent with 40 CFR §122.32(a)(1).

1.3 Limitations on Coverage

This permit does not authorize the following:

- a. Stormwater discharges mixed with sources of non-stormwater, unless the non-stormwater discharges are either (1) authorized under a separate NPDES permit, or (2) allowed under Part 1.4.
- b. Stormwater discharges associated with industrial activity as defined in 40 CFR §122.26 (b)

- (14) (i)-(ix) and (xi).
- c. Stormwater discharges associated with construction activity as defined in 40 CFR §122.26(b) (14) (x) or (b) (15).
- d. Stormwater discharges currently covered under another NPDES permit, including discharges covered under other regionally issued general permits.
- e. Stormwater discharges or discharge related activities that are likely to adversely affect any species that are listed as endangered or threatened under the Endangered Species Act (ESA) or result in the adverse modification or destruction of habitat that is designated as critical under the ESA. The permittee shall follow the procedures detailed in Appendix D to make a determination regarding eligibility. The permittee shall certify compliance with this provision on the submitted NOI.
- f. Stormwater discharges whose direct or indirect impacts do not prevent or minimize adverse effects on any Essential Fish Habitat.
- g. Stormwater discharges, allowable non-stormwater discharges, or stormwater discharge-related activities that have an effect on a property that is listed or eligible for listing on the National Register of Historic Properties (NRHPS). The permittee shall follow the procedures detailed in Appendix E to make a determination regarding eligibility. The permittee shall certify compliance with this provision on the submitted NOI.
- h. Stormwater discharges to territorial seas, the waters of the contiguous zone, or the oceans.
- i. Stormwater discharges prohibited under 40 CFR § 122.4.
- j. Stormwater discharges to the subsurface subject to state Underground Injection Control (UIC) regulations. Although the permit includes provisions related to infiltration and groundwater recharge, structural controls that dispose of stormwater into the ground may be subject to UIC regulation requirements. Authorization for such discharges shall be obtained from the New Hampshire Department of Environmental Services, Groundwater Discharge Permitting and Registration Program.

1.4 Allowable Non-Stormwater Discharges

The following categories of non-stormwater discharges are allowed under this permit unless the permittee, EPA, or the state agency identifies any category of non-stormwater discharge in Part 1.4.a-r as a significant contributor of pollutants to the MS4, then that category is not allowed under Part 1.4, but rather shall be deemed an “illicit discharge” under Part 2.3.4.1. and the permittee shall address that category as part of the Illicit Discharge Detection and Elimination (IDDE) Program described in Part 2.3.4 of this permit.

- a. Water line flushing
- b. Landscape irrigation
- c. Diverted stream flows

- d. Rising ground water
- e. Uncontaminated ground water infiltration (as defined at 40 CFR § 35.2005(20))
- f. Uncontaminated pumped ground water
- g. Discharge from potable water sources
- h. Foundation drains
- i. Air conditioning condensation
- j. Irrigation water, springs
- k. Water from crawl space pumps
- l. Footing drains
- m. Lawn watering
- n. Individual resident car washing
- o. Flows from riparian habitats and wetlands
- p. De-chlorinated swimming pool discharges
- q. Street wash waters
- r. Residential building wash waters without detergents

Discharges or flows from fire fighting activities are allowed under this permit need only be addressed where they are identified as significant sources of pollutants to waters of the United States.

1.5 Permit Compliance

Any non-compliance with any requirement of this permit constitutes a violation of the permit and the CWA and may be grounds for an enforcement action and may result in the imposition of injunctive relief and/or penalties.

1.6 Continuation of this Permit

If this permit is not reissued prior to the expiration date, it will be administratively continued in accordance with the Administrative Procedure Act and remain in force and effect for discharges that were authorized prior to expiration. If a small MS4 was granted permit authorization prior to the expiration date of this permit, it will automatically remain authorized by this permit until the earliest of:

- Authorization under a reissued general permit following timely and appropriate submittal of a complete and accurate NOI requesting authorization to discharge under the reissued permit; or
- Issuance or denial of an individual permit for the MS4's discharges; or
- Authorization or denial under an alternative general permit.

If the MS4 operator does not submit a timely, appropriate, complete and accurate NOI requesting authorization to discharge under the reissued permit, or a timely request for authorization under an individual or alternative general permit, authorization under this permit will terminate on the due date for the NOI under the reissued permit unless otherwise specified in the reissued permit.

1.7 Obtaining Authorization to Discharge

1.7.1 How to Obtain Authorization to Discharge

To obtain authorization under this permit, a small MS4 shall:

- Be located in the areas listed in Part 1.1 of this permit;
- Meet the eligibility requirements in Part 1.2 and Part 1.9;
- Submit a complete and accurate Notice of Intent (NOI) in accordance with the requirements of Part 1.7.2; and
- Receive written authorization from EPA.

1.7.2 Notice of Intent

- a. Operators of Small MS4s seeking authorization to discharge under the terms and conditions of this permit shall submit a Notice of Intent that contains the information identified in Appendix E. This includes operators of small MS4s that were previously authorized under the May 1, 2003 small MS4 general permit (MS4-2003).
- b. The NOI shall be signed by an appropriate official (see Appendix B Subparagraph 11).
- c. The NOI shall contain the following certification: *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 gather and evaluate 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, I certify that the information submitted is, to 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.*

Print the name and title of the official, followed by signature and date.

- d. The NOI shall be submitted within 90 days of the effective date of the permit. If EPA notifies an MS4 that it is designated under 40 CFR §122.32(a) (2) or (b), the NOI shall be submitted within 180 days of receipt of notice unless granted a longer period of time by EPA.

1.7.3 Submission of Notice of Intent

- a. All small MS4s shall submit a complete and accurate Notice of Intent to EPA-Region 1 at the following address:

United States Environmental Protection Agency
5 Post Office Square – Suite 100
Mail Code – OEP06-1
Boston, Massachusetts 02109-3912
ATTN: Newton Tedder

- b. New Hampshire Department of Environmental Services (NHDES) may request that a permittee submit their NOI to NHDES, upon receipt of such request the small MS4s must also submit a copy of the NOI at the following address:

New Hampshire Department of Environmental Services
Water Division – Wastewater Engineering Bureau
P.O. Box 95
Concord, New Hampshire 03302-0095
ATTN: Stormwater Permits Coordinator

- c. Late notification: A small MS4 is not prohibited from submitting a NOI after the dates provided in Part 1.7.2.d. However, if a late NOI is submitted, authorization is only for discharges that occur after permit authorization is granted. EPA reserves the right to take enforcement actions for any unpermitted discharges.

1.7.4 Public Notice of NOI and Effective Date of Coverage

- a. EPA will provide a public notice and opportunity for comment on the contents of the submitted NOIs. The public comment period will be a minimum of 30 calendar days.
- b. Based on a review of an NOI, public comments received, or other information, EPA may grant authorization, extend the public comment period, or deny authorization under this permit and require submission of an application for an individual or alternative NPDES permit (see Part 1.8). A small MS4 will be authorized to discharge under the terms and conditions of this permit upon written receipt of notice of authorization from EPA.
- c. Permittees whose authorization to discharge under the MS4-2003 which expired on May 1, 2008 has been administratively continued in accordance with the Administrative Procedures Act (5 U.S.C. 558(c)) and 40 CFR § 122.6, who wish to obtain coverage under this permit, must submit a new complete and accurate NOI requesting permit coverage in accordance with the requirements of Part 1.7 of this permit to EPA within 90 days after the effective date of this permit. For enforcement purposes, permittees whose authorization to discharge under the expired MS4-2003 was administratively continued, who fail to submit a timely, complete and accurate NOI requesting authorization to discharge under the reissued permit or an application for an individual NPDES permit within 90 days after the effective date of this permit, will be considered to be discharging without a permit.

1.8 Individual Permits and Alternative General Permits

- a. EPA may require a small MS4 to apply for and obtain authorization under either an individual NPDES permit or an alternative NPDES general permit. Any interested person may petition EPA in accordance with the provisions of 40 CFR §122.26(f) to require a small MS4 to apply for and/or obtain authorization under either an individual NPDES permit or an alternative NPDES general permit. If EPA requires a small MS4 to apply for an individual or alternative NPDES permit, EPA will notify the small MS4 in writing that a permit application is required. This notification will include a brief statement of the reasons for this decision and will provide application information and an application deadline. If a small MS4 is authorized under the MS4-2003 or this permit and fails to submit an individual NPDES or an alternative general permit NPDES permit application as required by EPA, then the authorization under the MS4-2003 or this permit to the small MS4 is automatically terminated at the end of the date

specified by EPA as the deadline for application submittal. EPA reserves the right to take enforcement action for any unpermitted discharge.

- b. A small MS4 may request to be excluded from this general permit by applying for an individual permit or authorization under an alternative general permit. In such a case, a small MS4 shall submit an individual permit application in accordance with the requirements of 40 CFR §122.33(b) (2) (i) or §122.33(b) (2) (ii), with reasons supporting the request, to EPA at the address listed in Part 1.7.3 of this permit. The request may be granted by issuance of an individual permit or authorization under an alternative general permit if EPA determines that the reasons stated by the small MS4 are adequate to support the request. (See 40 CFR § 122.28(b) (3)).
- c. When an individual NPDES permit is issued, or a small MS4 is authorized to discharge under an alternative NPDES general permit, authorization under this permit automatically terminates on the effective date of the individual permit or the date of authorization of coverage under the alternative general permit.

1.9 Special Eligibility Determinations

1.9.1 Documentation Regarding Endangered Species

The small MS4 shall certify eligibility regarding endangered species in the NOI required by Part 1.7.2. The Stormwater Management Program (SWMP) shall include documentation supporting the permittee's eligibility determination with regard to federal Endangered and Threatened Species and Critical Habitat Protection, including:

- Information on whether federally listed endangered or threatened species, or critical habitat are found in proximity to the MS4's stormwater outfalls, or activities or structures involved in stormwater best management practices (BMPs);
- Whether such species or habitat are likely to be adversely affected by the stormwater discharges or stormwater discharge-related activities, e.g., BMP installation;
- Results of the Appendix C endangered species screening determinations; and
- If any such species or habitat are present, a description of the measures the MS4 shall implement to protect federally listed endangered or threatened species, or critical habitat, including any conditions imposed by the U.S. Fish and Wildlife Service or the U.S. National Marine Fisheries Service (the Services). If a permittee fails to document and implement such measures, those discharges are ineligible for coverage under this permit.

1.9.2 Documentation Regarding Historic Properties

The small MS4 shall certify eligibility regarding historic properties on the NOI required by Part 1.7.2. The SWMP shall include documentation supporting the MS4's eligibility determination with regard to Historic Properties Preservation, including:

- Information on whether the permittee's stormwater discharges, allowable non-stormwater discharges, or stormwater discharge-related activities would have an effect on a property that is listed or eligible for listing on the National Register of Historic Properties (NRHP);
- Where such effects may occur, any documents received by the permittee or any written agreements the permittee has made with the State Historic Preservation Officer (SHPO) representative to mitigate those effects;
- Results of the Appendix D historic property screening investigations; and
- If applicable, a description of the measures the permittee shall implement to avoid or minimize adverse impacts on places listed, or eligible for listing, on the NRHP, including any conditions imposed by the SHPO. If the permittee fails to document and implement such measures, those discharges are ineligible for coverage under this permit.

1.10 Stormwater Management Program (SWMP)

- a. The permittee shall develop, implement, and enforce a written SWMP. The SWMP shall be signed in accordance with Appendix B, Subsection 11, including the date of signature. A signature and date is required for initial program preparation and for any significant revision to the program. The written SWMP shall be completed within one (1) year of the effective date of the permit.

The SWMP is the document used by the permittee to describe the activities and measures that will be implemented to meet the terms and conditions of the permit. The SWMP shall accurately describe the permittee's plans and activities. The document should be updated and/or modified during the permit term as the permittee's activities change.

- b. Permittees authorized by the MS4-2003 shall modify or update their existing Best Management Practices (BMPs) and measurable goals to meet the terms and conditions of this permit within one (1) year of the effective date of the permit. These modifications and updates shall be reflected in the written SWMP. Permittees authorized by the MS4-2003 shall continue to implement their existing SWMP until the program has been updated.
- c. The permittee is encouraged to maintain an adequate funding source for the implementation of this program. Adequate funding means that a consistent source of revenue exists for the program. (Some funding information may be found in the fact sheet at:
<http://www.epa.gov/region1/npdes/stormwater/assets/pdfs/FundingStormwater.pdf>)

1.10.1 Stormwater Management Program Availability

- a. The permittee shall retain a copy of the current SWMP required by this permit at the office or facility of the person listed as the program contact on the submitted Notice of Intent (NOI). The SWMP shall be immediately available to representatives from EPA; a State agency; the U.S. Fish and Wildlife Service (USFWS) and the National Marine Fisheries Service (NMFS) at the time of an onsite inspection or upon request.
- b. The permittee shall make the SWMP available to the public during normal business hours.

The permittee may charge a reasonable fee for copy requests. The permittee is encouraged to satisfy this requirement by posting the SWMP online or making it available on written request.

1.10.2 Contents of the Stormwater Management Program

The SWMP shall contain the following:

- Identification of names and titles of people responsible for program implementation. If a position is currently unfilled, list the title of the position and modify the SWMP with the name once the position is filled;
- Listing of all receiving waterbody segments, their classification under the applicable state water quality standards, any impairment(s) and associated pollutant(s) of concern, applicable TMDLs and WLAs, and number of outfalls from the MS4 that discharge to each waterbody. In addition to the receiving water, the permittee shall document in the SWMP all public drinking water sources (surface water and groundwater) that may be impacted by MS4 discharges;
- Listing of all interconnected MS4s and other separate storm sewer systems receiving a discharge from the permitted MS4, the receiving waterbody segment(s) ultimately receiving the discharge, their classification under the applicable state water quality standards, any impairment(s) and associated pollutant(s) of concern, applicable TMDLs and WLAs, and the number of interconnections;
- Documentation of compliance with Part 1.9.1;
- Documentation of compliance with Part 1.9.2;
- The map of the separate storm sewer system required by Part 2.3.4.6;
- Listing of all discharges identified pursuant to Part 2.1.1.c and description of response;
- Description of practices to achieve compliance with Part 2.2.1 (TMDL requirements) including:
 - The person(s) or department responsible for the measure;
 - The BMPs for the control measure or permit requirement;
 - The measurable goal(s) for each BMP. Each measurable goal shall include milestones and timeframes for its implementation and have a quantity or quality associated with its endpoint. Each goal must have an associated measure of assessment.
- Water Quality Response Plans as specified in Part 2.2.2, including for each BMP:
 - The person(s) or department responsible for the measure;
 - The BMPs for the control measure or permit requirement;
 - The measurable goal(s) for each BMP. Each measurable goal shall include milestones and timeframes for its implementation and have a quantity or quality associated with its endpoint. Each goal must have a measure of assessment associated with it.
- Description of any other practices to achieve compliance with Part 2.1 (water quality based requirements);
- Description of practices to achieve compliance with Part 2.3 (MEP

requirements);

For each permit condition in Part 2.3 identify:

- The person(s) or department responsible for the measure;
 - The BMPs for the control measure or permit requirement;
 - The measurable goal(s) for each BMP. Each measurable goal shall include milestones and timeframes for its implementation and have a quantity or quality associated with its endpoint. Each goal shall have a measure of assessment associated with it.
- Description of measures to avoid or minimize impacts to public and known private drinking water sources (surface water and groundwater). The permittee is also encouraged to include provisions to notify public water supplies in the event of an emergency. For more information or assistance, contact: New Hampshire Department of Environmental Services, Drinking Water Source Protection Program. Description of activities to achieve compliance with Part 3.0;
 - Annual program evaluation (Part 4.1). Update annually and maintain copies.

1.10.3 Requirements for New Permittees

Permittees seeking authorization for the first time shall meet all deadlines contained in this permit except for specific deadlines which are modified as follows:

- Timelines for public education requirements in Part 2.3.2.1.b. shall be extended by one (1) year;
- Outfall Inventory under Part 2.3.4.7 shall be completed within two (2) years of the permit effective date;
- Outfall mapping under Part 2.3.4.6 shall be completed within four (4) years of the permit effective date. The permittee shall include its best available mapping with its SWMP while mapping requirements are being completed;
- All other timelines of the IDDE Program, program development, monitoring, and IDDE Program Implementation Goals and Milestones under Part 2.3.4 shall be extended by two (2) years;
- The ordinances, by-laws, or other regulatory mechanisms required by Parts 2.3.4, 2.3.5 and 2.3.6 shall be completed as soon as possible, but no later than three (3) years from the permit effective date; and
- Timelines for discharges to impaired waters without a TMDL under Part 2.2.2 shall be extended by two (2) years. This timeline extension does not apply to those discharges identified pursuant to Part 2.1.1.c or 2.2.2.c.i within the first three (3) years after the effective date of the permit., for which the schedule in Part 2.2.2.c.ii.a remains applicable.

2.0 Non-Numeric Effluent Limitations

The permittee shall develop, implement and enforce a program to reduce the discharge of pollutants from the MS4 to the maximum extent practicable; to protect water quality and to satisfy the appropriate water quality requirements of the Clean Water Act and the New Hampshire Water Quality Standards.

2.1 Water Quality Based Effluent Limitations

Pursuant to Clean Water Act 402(p)(3)(B)(iii), this permit includes provisions to ensure that discharges from the permittee's small MS4 do not cause or contribute to an exceedance of water quality standards, in addition to requirements to reduce the discharge of pollutants to the maximum extent practicable. The requirements found in this Part and Part 2.2 constitute the water quality based effluent limits of this permit. Requirements to reduce the discharge of pollutants to the maximum extent practicable are set forth in Part 2.3.

2.1.1 Requirement to Meet Water Quality Standards

- a. Discharges shall not cause or contribute to an exceedance of applicable water quality standards (including numeric and narrative water quality criteria) for the receiving water. Applicable water quality standards are the State standards that have been federally approved as of the effective date of this permit.
- b. For each waterbody that receives a discharge from the small MS4, the permittee shall consult the water quality standards applicable to that waterbody. Applicable water quality standards are compiled at <http://www.epa.gov/waterscience/standards/wqslibrary/>. The NHDES also makes a copy of its regulations available at: <http://des.nh.gov/organization/commissioner/legal/rules/documents/env-wq1700.pdf>
- c. If at any time the permittee determines or EPA or the state agency determines that a discharge causes or contributes to an exceedance of applicable water quality standards, the permittee shall within 60 days of becoming aware of the situation eliminate the conditions causing or contributing to an exceedance of water quality standards. If elimination of the conditions within 60 days is infeasible, the permittee shall develop a Water Quality Response Plan addressing the pollutant(s) causing the conditions (the "pollutants of concern") pursuant to Part 2.2.2 below. The permittee shall include in its annual report (1) a listing of any such discharges identified during the reporting period; (2) a description of measures taken to eliminate conditions within 60 days or the basis of a finding that such elimination is infeasible; and (3) a description of any Water Quality Response Plan as specified in part 2.2.2. The permittee must comply with any additional requirements or schedules established by EPA or the state agency, including any requirement to submit additional information concerning the potential cause of the exceedance. Any discharge causing or contributing to an exceedance of applicable water quality standards violates Part 2.1.1.a of this permit and remains a violation until eliminated. The 60 days to eliminate the conditions causing or contributing to an exceedance of an applicable water quality standard is not a grace period; compliance with the requirements of Part 2.1.1.c does not excuse or otherwise constitute a defense to a violation of Part 2.1.1.a.

2.1.2 New or Increased Discharges

a. Any new or increased discharge (including increased pollutant loadings from existing discharges) through the MS4 to surface waters (as defined at NH Env-Wq 1702.46) is subject to NH antidegradation regulations, NH Env-Wq. 1708. This includes, but is not limited to:

- Any activity that is subject to the Alteration of Terrain (AoT) permit program set forth in NH Env-Wq 1500 et seq.
- Any activity that results in the creation of directly connected impervious area (DCIA) to the permittee's MS4. Directly connected impervious area shall be defined as: any impervious area with a direct hydraulic connection to the permittee's MS4 via continuous paved surfaces, gutters, pipes and/or other impervious features.
- Any property modification or land use change that causes an increase in pollutant load to the permittee's MS4.

b. In order to satisfy the requirements of the NH antidegradation regulations, the permittee must comply with the following provisions:

- i. There shall be no new or increased discharge from the MS4 to an *outstanding resource water* unless such discharge is short term and temporary, satisfies NH Env-Wq 1708.05, NHDES receives written notification of the proposed activity at least 30 days prior to discharge, and NHDES does not provide a written objection by the proposed discharge date. The permittee shall retain documentation of NHDES notification with its SWMP¹.
- ii. There shall be no new or increased discharge from the MS4 to *high quality waters*, as defined in NH Env-Wq 1702.24, that would lower water quality or affect the existing or designated uses, except where NHDES determines that the new or increased discharge complies with NH Env-Wq 1708.07. The permittee shall retain documentation of compliance with this provision with its SWMP.¹
- iii. There shall be no new or increased discharges from the MS4 to *impaired waters* unless the permittee demonstrates that there is no net increase in loading from the MS4 to the impaired water of the pollutant(s) for which the waterbody is impaired. The permittee may demonstrate compliance with this provision by *either*:
 - (a) Documenting that the pollutant(s) for which the waterbody is impaired is not present in the MS4's discharge and retain documentation of this finding with the SWMP; *or*
 - (b) Documenting that the total load of the pollutant(s) of concern from the MS4 to any impaired portion of the receiving water will not increase as a result of the activity and retain documentation of this finding in the SWMP.

c. The requirements of this section are independent of permit conditions requiring reduction in

¹ For information regarding compliance with NH Env-Wq 1708.05 and NH Env-Wq 1708.07, contact the NHDES Watershed Management Bureau.

discharges of pollutants as set forth in Parts 2.1.1 and 2.2 (water quality based requirements) and 2.3 (requirements to reduce discharge of pollutants to the maximum extent practicable). Permittees remain subject to requirements to reduce the discharge of pollutants from the MS4 as set forth in those Parts.

- d. If an applicable NHDES approval under Parts 2.1.2.b.i-ii specifies additional conditions or requirements, then those requirements are incorporated into this permit by reference. The permittee must comply with all such requirements.

2.2 Discharges to Impaired Waters

The permittee shall identify in the SWMP and Annual Reports all discharges, including both outfalls and interconnections to other MS4 or other separate storm sewer systems, that:

- Are subject to an approved Total Maximum Daily Load (TMDL) as identified in Part 2.2.1;
- Discharge to a water identified as impaired by the State agency pursuant to Section 303(d) of the Clean Water Act and for which TMDL development has been identified as necessary, but for which a TMDL has not yet been approved; or
- Discharge to a tributary of any nitrogen-impaired water in the Great Bay watershed.

The discharge location from an interconnection shall be determined based on the receiving water of the outfall from the interconnected system. EPA or the State agency may determine that additional waters shall be treated as “impaired” waters pursuant to this Part based on water quality or modeling information and shall notify the affected MS4 operators of any such determination.

2.2.1 Discharges Subject to an Approved TMDL

- a. “Approved TMDLs” for discharges from the permittee’s MS4 are those that have been approved by EPA as of the effective date of this permit
- b. For those TMDLs that specify a wasteload allocation or other requirements either individually or categorically for the MS4 discharge, the permittee shall comply with the terms of Part 2.1 and 2.2 and satisfy the appropriate requirements of Appendix F. Appendix F identifies, by section, the provisions the permittee shall implement to be consistent with the terms of the approved TMDL. In addition to those specific requirements, EPA may notify the small MS4 of the need to comply with additional requirements that are consistent with the assumptions and requirements of the Waste-Load Allocation (WLA). Alternatively, EPA may notify the permittee that an individual permit application is necessary in accordance with Part 1.8.
- c. The “TMDL for 158 Acid Impaired Ponds and 21 Aluminum Impaired Lakes” does not specify a wasteload allocation or other requirements either individually or categorically for the MS4 discharges and specifies that load reductions are to be achieved through reduction in atmospheric deposition sources. No requirements related to this TMDL are imposed on MS4 discharges under this Part. However, if the permittee becomes aware, or EPA or NHDES determines, that an MS4 discharge is causing or contributing to such impairment to an extent that cannot be explained by atmospheric deposition (e.g. chemical spill, acid landfill leachate

or other sources), the permittee shall comply with the requirements of Part 2.1.1.c.

d. The following is a list of small MS4s subject to an approved TMDL for chlorides:

1.
DERRY
LONDONDERRY
SALEM
WINDHAM
2. Non Traditional and Transportation MS4s discharging to Beaver Brook, Dinsmore Brook, North Tributary to Canobie Lake, or Policy-Porcupine Brook

The operators of MS4s listed above shall meet the requirements of Appendix F with respect to reduction of chloride discharges from the MS4.

e. The following is a list of small MS4s in NH subject to an approved TMDL for bacteria. The municipalities subject to a bacteria TMDL can also be found on Table F1 and Table F2 in Appendix F:

1.

AMHERST	MANCHESTER
BEDFORD	MERRIMACK
CHESTER	MILFORD
DERRY	MILTON
DOVER	NASHUA
DURHAM	NEW CASTLE
EXETER	NEWINGTON
FARMINGTON	NORTH HAMPTON
GOFFSTOWN	PELHAM
GREENLAND	PLAISTOW
HAMPSTEAD	PORTSMOUTH
HAMPTON	ROCHESTER
HAMPTON FALLS	ROLLINSFORD
HOLLIS	RYE
HOOKSETT	SALEM
HUDSON	SANDOWN
KINGSTON	SEABROOK
LEE	SOMERSWORTH
MADBURY	
2. Non Traditional and Transportation MS4s discharging to any waterbody listed on Table F1 or Table F2 in Appendix F.

The operators of MS4s listed in 2.2.1.e.1. and 2 above shall meet the requirements of

Appendix F with respect to reduction of bacteria discharges from the MS4.

f. The following is a list of small MS4s in NH subject to an approved TMDL for phosphorus, the municipalities subject to a phosphorus TMDL can also be found on Table F4 in Appendix F:

1.
 - AMHERST
 - BEDFORD
 - DERRY
 - HOLLIS
 - HUDSON
 - KINGSTON
 - MANCHESTER
 - MERRIMACK
 - RAYMOND
 - SANDOWN
2. Non Traditional and Transportation MS4s discharging any waterbody listed on Table F4 in Appendix F
3. Any other municipality that operates a regulated MS4 located within the watershed boundary of any waterbody listed on Table F-4 in Appendix F

Permittees that operate regulated MS4s that discharge to waterbodies with an approved phosphorus TMDL or within the waterbody's tributary watershed shall meet the requirements of Appendix F with respect to reduction of phosphorus discharges from the MS4.

- g. Permittees identified in Appendix F, or above, shall document in their annual report all control measures implemented during the reporting period or planned to be implemented in the next reporting period to control the pollutants identified in the approved TMDLs and provide an assessment of the effectiveness of the implemented BMPs. The Year Five annual report shall include a quantitative assessment of load reductions achieved through the implemented controls demonstrating that such reductions are consistent with the load reductions identified in the WLA; or if such controls are inadequate, the permittee shall describe in the annual report additional measures needed to achieve load reductions consistent with the assumptions of the requirements of the WLA and implement those measures as soon as possible.
- h. Timeframes of requirements in Appendix F do not constitute a compliance schedule under 40 CFR §122.47. The requirements of Part 2.2.1 and Appendix F are independent of the requirements of Part 2.1 and its subsections, and compliance with the requirements of Part 2.2.1 does not excuse or otherwise constitute a defense to a violation of Part 2.1 or any other provision of the permit or of any applicable law or regulation. The permittee shall not be in compliance with Part 2.1 and its subsections until the permittee has satisfied all requirements of the applicable WLA.

2.2.2 Discharge to an Impaired Water without an Approved TMDL

If there is a discharge from the MS4 to any impaired water without an approved TMDL, the permittee shall comply with Part 2.1 of this permit. Furthermore, if there is a discharge from the

MS4 to an impaired water without an approved TMDL, other than a chloride-impaired waters addressed under Part 2.2.4, the permittee shall address in the SWMP and annual reports how the discharge of pollutant(s) identified as causing the impairment (pollutant(s) of concern) will be controlled such that they do not cause or contribute to the impairment. (For specific requirements applicable to the Great Bay Estuary watershed, see both this Part 2.2.2 and also Part 2.2.3.)

In light of the absence of a defined pollutant reduction target where no TMDL has been established, this permit part defines an iterative approach to addressing such discharges that incorporates three phases over the course of the permit term:

Phase 1. Preliminary evaluation and source identification for MS4 discharges and identification of additional and/or modified BMPs to address the pollutant of concern (“Planned BMPs”) – Part 2.2.2.a. Phase 1 shall be completed 1 year from the effective date of the permit.

Phase 2. Implementation of BMPs and finalization of the source identification and assessment – Part 2.2.2.b. Phase 2 shall be completed three years from the effective date of the permit.

Phase 3. Assessment of implemented BMPs with modifications as necessary based on additional information and implementation experience and identification of Prospective BMPs for possible implementation– Part 2.2.2.c. Phase 3 shall be completed five years from the effective date of the permit.

a. Phase 1

i. Preliminary evaluation of discharges to impaired waters.

(a) Within one year of the permit effective date, the permittee shall evaluate its discharges to impaired waters in order to (1) assess whether MS4 discharges are potential contributors to the identified impairment; and (2) identify sources of pollutant(s) of concern in the MS4 area draining to the impaired waters. The permittee may consider multiple MS4 discharges to the same receiving water together, but shall conduct a separate evaluation for each impaired receiving water. This initial evaluation may be qualitative in nature, and must be reassessed over the course of the permit term. The permittee shall consider the nature of the pollutant, all available monitoring data, likely causes as identified by the state agency during water quality assessments, land use and impervious cover in the MS4 area draining to the water body, the proportion of the watershed to the receiving water that is within the MS4 jurisdiction, the presence or absence of other pollutant sources, and any other information deemed relevant by the permittee. The initial assessment may include, but is not limited to, the assessment of the following source categories:

1. Fertilizer Use – nutrient and bacteria impairments
2. Illicit discharges –nutrient and bacteria impairments

3. Leaf litter – nutrient impairments
4. Pet waste –nutrient and bacteria impairments
5. Industrial areas – metals impairments
6. Construction – total suspended solids (TSS)/solids and turbidity impairments
7. Highly impervious area – nutrient, metals, bacteria and TSS impairments

EPA presumes that MS4 discharges are potential contributors to impairments due to nutrients (phosphorus or nitrogen), bacteria, suspended solids, metals, or oil and grease.

- (b) The permittee shall, as part of Phase 1, develop a Water Quality Response Plan (WQRP) pursuant to Part 2.2.2.a.ii, and include the WQRP with the SWMP.
- (c) Notwithstanding Part 2.2.2.a.i.b, if the permittee's analysis under paragraph 2.2.2.a.i.a suggests that its MS4 discharges are *not* potential contributors to impairments, then the permittee shall report the basis for that determination in its Year 1 annual report rather than developing a WQRP. Notwithstanding the permittee's analysis, EPA or the State Agency may at any time, based on water quality data or modeling, determine that a permittee's discharges are in fact a potential contributor, and require the permittee to develop a WQRP.

ii. Water Quality Response Plan

- (a) Except as provided in Part 2.2.2.a.i.c, within one year of the permit effective date the permittee shall develop a WQRP that identifies additional or modified BMPs the permittee will implement to ensure that its discharges do not cause or contribute to the impairment. The WQRP shall be a separate section of the SWMP. The WQRP is designed to provide an iterative process for addressing discharges that have the potential to cause or contribute to impairments. The content of the WQRP should reflect the magnitude and complexity of the impairment and the permittee's potential to contribute to the impairment. The permittee may develop a single WQRP covering all impairment pollutants, waterbodies, and catchments; or it may develop multiple separate WQRPs (subdivided by pollutant, waterbody, and/or catchment), so long as its separate WQRPs, taken together, collectively address all impairment pollutants, waterbodies, and catchments.
- (b) The WQRP shall contain the following elements:
 1. Preliminary source assessment - The plan shall include the source identification and assessment required by Part 2.2.2.a.i. describing the permittee's source identification and assessment procedures and the target pollutants and receiving waters. The plan shall list the specific receiving water segments, impairments and pollutants of concern

addressed by the plan.

2. A comprehensive listing of additional or modified BMPs to address pollutants causing impairments. The permittee shall consider each of the following types of BMPs for inclusion:
 - a) Additional and/or modified public education programs (beyond what is required in Part 2.3.2);
 - b) Increasing the priority of catchments discharging to the impaired water for IDDE under Part 2.3.4;
 - c) More stringent development/redevelopment requirements than those required under Part 2.3.5 and 2.3.6, which may include:
 1. Requiring the use of BMPs effective at reducing the pollutants of concern in development/redevelopment within the MS4 area,
 2. More stringent redevelopment standards,
 3. Application of development/redevelopment and construction standards to developments disturbing less than one acre
 - d) Revision of Good Housekeeping and Pollution Prevention under Part 2.3.7 to target catchments draining to impaired waters which may include:
 1. Increased catch basin cleaning
 2. Increased street sweeping
 3. Reduced fertilizer use
 4. Leaf litter collection programs
 5. Policies and procedures to incorporate stormwater management improvements in street reconstruction and other permittee-owned projects).
 - e) Implementation of programs leading to disconnection of directly connected impervious area (DCIA) on municipal and/or private property. These programs may include:
 1. Downspout disconnection programs
 2. Green roofs installation programs
 3. Residential rain garden programs
 4. Programs targeting the removal of unnecessary impervious area
 - f) Structural BMP retrofits, including identifying specific projects to be undertaken during the permit term;

The permittee shall identify additional and modified BMPs from each of a) through e) above, unless they are inapplicable to its system or the pollutant(s) of concern and the permittee provides the basis for that determination in its WQRP.

3. A schedule for implementing the BMPs, including, as appropriate: funding, training, purchasing, construction, monitoring, and other

assessment and evaluation components of implementation.

Implementation of planned BMPs developed under Part 2.2.2.a.ii.b.2 must begin as soon as possible but not later than 18 months after the permit effective date. All planned BMPs shall be fully implemented within three (3) years of the permit effective date unless the permittee can document that such implementation is infeasible. Non-structural, operational, source control and pollution prevention measures shall be presumed feasible to fully implement within two years. Where planned structural BMP retrofits or major drainage infrastructure projects are expected to take additional time to construct, the permittee shall within 2 years of the effective date of the permit have a schedule for completion of construction within five years of permit effective date, including identification of funding source.

4. A description of the monitoring or other assessment and evaluation efforts that will be implemented to monitor, assess or evaluate the effectiveness of the WQRP.

The Permittee shall include the WQRP in its first annual report and the permittee shall report on the status of each BMP in each subsequent annual report.

b. Phase 2

i. Implementation of Planned BMPs

The permittee shall implement planned BMPs identified in the WQRP in accordance with the schedule requirements of paragraph 2.2.2.a.ii.

ii. Final Source Identification and Assessment

Within three years of the permit effective date the permittee shall complete a final Source Identification and Assessment report, updating the source identification assessment produced under Part 2.2.2.a.i. The final report shall include the following elements:

1. Specific receiving water segments, impairments and pollutants of concern
2. Calculation of total MS4 area draining to the impaired receiving water segments, incorporating updated mapping of the MS4 and catchment delineations produced pursuant to Part 2.3.4.d,
3. All screening and monitoring results pursuant to Parts 2.3.4 and 3.0, targeting the receiving water segments
4. Impervious area and DCIA for the target catchment, where available
5. Updated pollutant source categories (see Part 2.2.2.a.i.) and their physical location and/or area extent within the MS4 area.

The final source identification and assessment report shall be submitted to EPA as part of the

Year 3 annual report.

c. Phase 3

i. Reassessment of Implemented BMPs

Within four years of the permit effective date, the permittee shall reassess the implemented BMPs and the MS4's initial evaluation as to potential to cause or contribute to the impairment. Using the information developed in the updated source identification and assessment report, experience with implementation and operation of planned BMPs, and any available information on the effectiveness of the planned BMPs, the permittee shall assess whether planned BMPs should be modified or additional BMPs should be added to target identified sources. If so, the permittee shall revise the planned BMPs as appropriate, provide a schedule for implementation of any additional BMPs, and implement them according to that schedule, beginning as soon as possible. Where the permittee has initially determined that it is not a potential contributor to an impairment, the permittee shall review that determination in light of the final source identification and assessment, and shall develop a WQRP for discharges that are determined to be a potential contributor to an impairment. The permittee shall document its reassessment in the Year 4 annual report.

ii. Prospective BMPs

Within five years of the permit effective date, the permittee shall identify Prospective BMPs to be implemented if further reductions are necessary. The permittee shall evaluate all properties identified as presenting retrofit opportunities under Part 2.3.6.8.b. that are within the drainage area of the impaired water. The evaluation shall include:

1. Identification of potential redevelopment or retrofit BMPs that would reduce the pollutant of concern;
2. The next planned infrastructure, resurfacing or redevelopment activity planned for the property;
3. The estimated cost of redevelopment or retrofit BMPs; and
4. The engineering and regulatory feasibility of redevelopment or retrofit BMPs.

The permittee shall provide a listing of Prospective BMPs and a plan and schedule for implementation in the Year five annual report. Thereafter, the permittee shall implement the Prospective BMPs in accordance with the plan and schedule in the Year five annual report.

For discharges identified pursuant to paragraph 2.1.1.c. or 2.2.2.c.i. after the first year, the WQRP shall be completed within 180 days of identification of the discharge or determination that a discharge causes or contributes to an impairment, and timelines based on permit effective date shall be based on the date of identification of the discharge.

The development of a WQRP shall by itself not be considered evidence that a discharge is in fact causing or contributing to an impairment. The above timeframes do not constitute a compliance schedule under 40 CFR §122.47, and the implementation of a WQRP does not

relieve the permittee of its obligations under Part 2.1 and its subsections. However, EPA will consider the appropriateness and promptness of a response plan in determining enforcement responses to permit violations. The permittee shall comply with any additional BMPs or other requirements established by EPA or the state agency.

2.2.3 Great Bay Watershed Nitrogen Requirements

The municipalities within the Great Bay Estuary watershed that have regulated MS4s that discharge directly to the nitrogen-impaired waterbodies in the Great Bay Estuary watershed or their tributaries are listed below and in Appendix H, Table H-1. The operators of MS4s listed below or in Table H-1 shall meet all requirements of Part 2.2.2 with respect to reduction of nitrogen discharges from the MS4; however, the additional and modified BMPs included in the WQRP (see Part 2.2.2.a.ii.) shall include, at a minimum, the BMPs identified in Appendix H. Compliance with this section does not relieve the permittee from compliance with Section 2.1.

1.

BARRINGTON	KENSINGTON
BRENTWOOD	KINGSTON
CANDIA	LEE
CHESTER	MADBURY
DANVILLE	MILTON
DERRY	NEWFIELDS
DOVER	NEWINGTON
DURHAM	NORTH HAMPTON
EAST KINGSTON	PORTSMOUTH
EPPING	RAYMOND
EXETER	ROCHESTER
FREMONT	ROLLINSFORD
GREENLAND	SANDOWN
HAMPSTEAD	SOMERSWORTH
HAMPSTON FALLS	STRATHAM

2. Non Traditional and Transportation MS4s located in urbanized areas within the above municipal boundaries

2.2.4 Discharges to Chloride-Impaired Waters

The municipalities that have small MS4s located in areas with chloride-impaired waters for which a TMDL has not yet been approved are named below as well as in Appendix H, Table H2. Permittees that operate regulated MS4s located within these municipalities that discharge directly to the identified impaired waters must identify and implement BMPs designed to substantially reduce chloride discharges. For this purpose, the permittee shall meet the requirements set forth in Appendix H. Compliance with this section does not relieve the permittee from compliance with Section 2.1.

1.

BEDFORD	NEWINGTON
DOVER	PORTSMOUTH
DURHAM	RYE
GOFFSTOWN	SALEM
LONDONDERRY	SEABROOK
MANCHESTER	STRATHAM
NASHUA	

2. Non Traditional and Transportation MS4s discharging any waterbody listed on Table H2 Appendix H

2.3 Requirements to Reduce Pollutants to the Maximum Extent Practicable (MEP)

The permittee shall reduce the discharge of pollutants from the MS4 to the maximum extent practicable (MEP), as set forth in Parts 2.3.2 through 2.3.7.

2.3.1 Control Measures

- a. Permittees authorized under the MS4-2003 shall continue to implement their existing SWMPs while updating their SWMPs pursuant to this permit. This permit does not extend the compliance deadlines set forth in the MS4-2003.
- b. Implementation of one or more of the minimum control measures described in Parts 2.3.2-2.3.7 or other permit requirements may be shared with another entity (including another interconnected MS4) or the other entity may fully implement the measure or requirement, if the following requirements are satisfied:
 - The other entity, in fact, implements the control measure.
 - The particular control measure or component thereof undertaken by the other entity is at least as stringent as the corresponding permit requirement.
 - The other entity agrees to implement the control measure on the permittee's behalf. The annual reports must specify that the permittee is relying on another entity to satisfy some of its permit obligations and specify what those obligations are.
 - If the permittee is relying on another governmental entity regulated under 40 CFR §122 to satisfy all of its permit obligations, including the obligation to file annual reports, the permittee shall note that fact in its NOI, but is not required to file annual reports.
 - The permittee remains responsible for compliance with all permit obligations if the other entity fails to implement the control measures (or component thereof). The permittee may enter into a legally binding agreement with the other entity regarding the other entity's performance of control measures, but the permittee remains ultimately responsible for permit compliance.

2.3.2 Public Education and Outreach

Objective: The permittee shall implement an education program that includes educational goals based on stormwater issues of significance within the MS4 area. The program shall include a focus on pollutants of concern for impaired and TMDL waters and priority waters that receive a discharge from the MS4. Priority waters include beaches, shell fishing areas, and drinking water supplies. The ultimate objective of a public education program is to increase knowledge and change behavior of the public so that pollutants in stormwater are reduced.

2.3.2.1 - The permittee shall continue to implement the public education program required by the MS4-2003 by distributing educational material to the MS4 community. The educational program shall define educational goals, express specific messages, define the targeted audience for each message, and identify responsible parties for program implementation. If appropriate for the target audience, materials may be developed in a language other than English. At a minimum, the program shall provide information concerning the impact of stormwater discharges on water bodies within the community, especially those waters that are impaired or identified as priority waters. The program shall identify steps and/or activities that the public can take to reduce the pollutants in stormwater runoff and their impacts to the environment.

- a. The educational program shall include education and outreach efforts for the following four audiences: (1) residents, (2) businesses, institutions (private colleges, private schools, hospitals), and commercial facilities, (3) developers (construction), and (4) industrial facilities.
- b. Beginning the first year of the permit the permittee shall distribute a minimum of two (2) educational messages over the permit term to each audience identified in Part 2.3.2.1.a.. (The permittee shall distribute at least eight educational messages during the permit term). The distribution of materials to each audience shall be spaced at least a year apart. Educational messages may be printed materials such as brochures or newsletters; electronic materials such as websites; mass media such as newspaper articles or public service announcement (radio or cable); or displays in a public area such as town/city hall. The permittee may use existing materials if they are appropriate for the message the permittee chooses to deliver or the permittee may develop its own educational materials. The permittee may partner with other MS4s, community groups or watershed associations to implement the education program.

Some EPA educational materials are available at: <http://cfpub.epa.gov/npstbx/index.html>.

- c. The permittee shall at a minimum consider the topics listed in paragraphs 2.3.2.1c.i. – iv. when developing the outreach/education program. The topics are not exclusive and the permittee shall focus on those topics most relevant to the community.
- i. Residential program: effects of outdoor activities such as lawn care (use of pesticides, herbicides, and fertilizers) on water quality; benefits of appropriate on-site infiltration of stormwater; effects of automotive work and car washing on water quality; proper disposal of swimming pool water; proper management of pet waste; maintenance of septic systems. If the small MS4 area has greater than thirty percent of its residents serviced by septic systems, the permittee shall include maintenance of septic systems as part of its education program.

- ii. Business/Commercial/Institution program: proper lawn maintenance (use of pesticides, herbicides and fertilizer); benefits of appropriate on-site infiltration of stormwater; building maintenance (use of detergents); use of salt or other de-icing and anti-icing materials (minimize their use); proper storage of salt or other de-icing/anti-icing materials (cover/prevent runoff to storm system and contamination to ground water); proper storage of materials (emphasize pollution prevention); proper management of waste materials and dumpsters (cover and pollution prevention); proper management of parking lot surfaces (sweeping); proper car care activities (washing of vehicles and maintenance); and proper disposal of swimming pool water by entities such as motels, hotels, and health and country clubs (discharges must be dechlorinated and otherwise free from pollutants).
- iii. Developers and Construction: proper sediment and erosion control management practices; information about Low Impact Development (LID) principles and technologies; and information about EPA's construction general permit (CGP). This education can also be a part of the Construction Site Stormwater Runoff Control measure detailed in Part 2.3.5.
- iv. Industrial program: equipment inspection and maintenance; proper storage of industrial materials (emphasize pollution prevention); proper management and disposal of wastes; proper management of dumpsters; minimization of use of salt or other de-icing/anti-icing materials; proper storage of salt or other de-icing/anti-icing materials (cover/prevent runoff to storm system and ground water contamination); benefits of appropriate on-site infiltration of stormwater runoff from areas with low exposure to industrial materials such as roofs or employee parking; proper maintenance of parking lot surfaces (sweeping); and requirements for coverage under EPA's Multi-Sector General Permit.

2.3.2.2 - An effective program shall show evidence of focused messages for specific audiences as well as evidence that progress toward the defined educational goals of the program has been achieved. The permittee shall identify methods that it will use to evaluate the effectiveness of the educational messages and the overall education program. Any methods used to evaluate the effectiveness of the program shall be tied to the defined goals of the program and the overall objective of changes in behavior and knowledge.

2.3.2.3 - The permittee shall modify any ineffective messages or distribution techniques for an audience prior to the next scheduled message delivery.

2.3.2.4 - The permittee shall document in each annual report the messages for each audience; the method of distribution; the measures/methods used to assess the effectiveness of the messages, and the method/measures used to assess the overall effectiveness of the education program in the annual report.

2.3.3 Public Involvement and Participation

Objective: The permittee shall provide opportunities to engage the public to participate in the review and implementation of the permittee's SWMP.

2.3.3.1 - All public involvement activities shall comply with state public notice requirements (NH: RSA Chapter 91-A). The SWMP (consistent with Part 1.10.1) and all annual reports shall be available to the public. The permittee is encouraged to satisfy this requirement by posting records online.

2.3.3.2 - The permittee shall annually provide the public an opportunity to participate in the review and implementation of the SWMP.

2.3.3.3 - The permittee shall report on the activities undertaken to provide public participation opportunities including compliance with Part 2.3.3.1. Public participation opportunities pursuant to Part 2.3.3.2 may include, but are not limited to, websites; hotlines; clean-up teams; monitoring teams; or an advisory committee.

2.3.4 Illicit Discharge Detection and Elimination (IDDE) Program

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

2.3.4.1- Definitions and Prohibitions - The permittee shall prohibit illicit discharges and sanitary sewer overflows (SSOs) to its MS4 and require removal of such discharges consistent with Parts 2.3.4.2 and 2.3.4.4 of this permit. An SSO is a discharge of untreated sanitary wastewater from a municipal sanitary sewer. An illicit discharge is any discharge to a municipal separate storm sewer that is not composed entirely of stormwater, *except*:

- (1) discharges authorized under a separate NPDES permit that authorize a discharge to the MS4 (discharges that are authorized under a municipal sewer system permit are considered illicit discharges if they are discharged to the MS4)
- (2) non-stormwater discharges allowed by Part 1.4

2.3.4.2 – Elimination of Illicit Discharges

- a. Illicit discharges to the MS4 are prohibited, and any such discharge violates this permit and remains a violation until eliminated.
- b. Upon detection of an illicit discharge, the permittee shall eliminate the illicit discharge as expeditiously as possible. The MS4 shall identify and notify all responsible parties for any such discharge and require immediate cessation of improper disposal practices in accordance with its legal authorities. Where elimination of an illicit discharge within 30 days of its identification as an illicit discharge is not possible, the permittee shall establish an expeditious schedule for its elimination and report the dates of identification and schedules for removal in the permittee's annual reports. The permittee shall immediately commence actions necessary for elimination. The permittee shall diligently pursue elimination of all illicit discharges. In the interim, the permittee shall take all reasonable and prudent measures to minimize the discharge of pollutants to its MS4.
- c. The period between identification and elimination of an illicit discharge is not a grace period,

and an illicit discharge to the MS4 remains a violation of the permit until eliminated.

2.3.4.3 – Non-Stormwater Discharges - The permittee may presume that the sources of non-stormwater listed in Part 1.4. of this permit need not be addressed. However, if the permittee identifies any of these sources as significant contributors of pollutants to the MS4, then the permittee shall implement measures to control these sources so they are no longer significant contributors of pollutants, and/or eliminate them entirely, consistent with Part 2.3.4.

2.3.4.4 – Sanitary Sewer Overflows

- a. Discharges from SSOs to the MS4 are prohibited and any such discharge violates this permit and remains a violation until eliminated. Upon detection, the permittee shall eliminate SSOs as expeditiously as possible and take interim mitigation measures to minimize the discharge of pollutants to and from its MS4 until elimination is completed.
- b. The permittee shall identify all known locations where SSOs have discharged to the MS4 within the previous five years. This shall include SSOs resulting, during dry or wet weather, from inadequate conveyance capacities, or where interconnectivity of the storm and sanitary sewer infrastructure allows for communication of flow between the systems. Within 120 days of the effective date of the permit, the permittee shall develop an inventory of all identified SSOs indicating:
 - Location (approximate street crossing/address and receiving water, if any);
 - A clear statement of whether the discharge entered a surface water directly or entered the MS4;
 - Date(s) and time(s) of each known SSO occurrence (i.e., beginning and end of any known discharge);
 - Estimated volume(s) of the occurrence;
 - Description of the occurrence indicating known or suspected cause(s);
 - Mitigation and corrective measures completed with dates implemented; and
 - Mitigation and corrective measures planned with implementation schedules.

The permittee shall maintain the inventory as a part of the SWMP and update the inventory annually.

- c. In accordance with Paragraph B.12 of Appendix B of this permit, upon becoming aware of a SSO discharge to the MS4, the permittee shall provide oral notice to EPA within 24 hours. Additionally, the permittee shall provide written notice to EPA and NHDES within five (5) days of becoming aware of the SSO occurrence and shall include the information in the updated inventory. The notice shall contain all of the information listed in 2.3.4.4.b.
- d. The permittee shall include and update the SSO inventory in its annual report, including the status of mitigation and corrective measures implemented by the permittee to address each SSO identified pursuant to this part.
- e. The period between identification and elimination of a discharge from the SSO to the MS4 is not a grace period, and such a discharge remains a violation of the permit until eliminated.

2.3.4.5 – During the development of the new components of the IDDE program required by this permit, permittees authorized by the MS4-2003 must continue to implement their existing IDDE program required by the MS4-2003 to detect and eliminate illicit discharges to its MS4.

2.3.4.6 – System mapping - The permittee shall develop a revised and more detailed map than was required by the MS4-2003. This revised map of the MS4 shall be completed within two (2) years of the effective date of this permit. This permit does not provide additional time for completion of the mapping that was required by the MS4-2003.

a. The mapping shall include a depiction of the permittee's separate storm sewer system in the permit area. The mapping is intended to facilitate the identification of key infrastructure and factors influencing proper system operation, and the potential for illicit sanitary sewer discharges. The map shall include the required infrastructure and water resources information as indicated in Part 2.3.4.6.a.i, and shall include the information in Part 2.3.4.6.a.ii where available. EPA also recommends the inclusion of additional items as indicated in Part 2.3.4.6.a.iii.

i. Required mapping elements

- Municipal separate storm sewer system
 - outfalls and receiving waters (required by MS4-2003)
 - pipes
 - open channel conveyances (swales, ditches, etc)
 - catch basins
 - manholes
 - interconnections with other MS4s
 - municipally-owned stormwater treatment structures (e.g., detention and retention basins, infiltration systems, bioretention areas, water quality swales, gross particle separators, oil/water separators, or other proprietary systems)
- Catchment delineations. For the purpose of this permit, a catchment is the area that drains to an individual outfall or interconnection, for use in priority rankings required in Part 2.3.4.6.c.
- Waterbodies identified by name and indication of all use impairments as identified in the state's most current 303(d) list.

ii. Elements required where available

- Municipal sanitary sewer system;
- Municipal combined sewer system, if applicable

iii. Recommended elements

- Storm sewer material, size and age.
- Sanitary sewer system material, size and age
- Where a municipal sanitary sewer system exists, properties known or suspected to be served by a septic system, especially in high-density urban areas

- Area where the permittee's MS4 has been or could be influenced by septic system discharges (e.g., areas with poor soils, or high ground water elevations unsuitable for conventional subsurface disposal systems)
 - Seasonal high water table elevations impacting sanitary alignments
 - Topography
 - Orthophotography
 - Alignments, dates and representation of work completed (with legend) of past illicit discharge investigations (e.g., flow isolation, dye testing, CCTV)
 - Locations of suspected, confirmed and corrected illicit discharges (with dates and flow estimates)
- b. The mapping may be produced by hand or through computer-aided methods (e.g. GIS). The required scale and detail of the map shall be appropriate to facilitate a rapid understanding of the system by the permittee, EPA and the state. In addition, the mapping shall serve as a planning tool for the implementation and phasing of the IDDE program and demonstration of the extent of complete and planned investigations and corrections. The permittee shall update the mapping as necessary to reflect newly discovered information and required corrections or modifications.
- c. The permittee shall report on the progress towards the completion of the map required by this permit in each annual report.

2.3.4.7 - Outfall Inventory – The permittee shall develop an outfall and interconnection inventory that identifies each outfall and interconnection discharging from the MS4, records its location and condition, and provides a framework for tracking inspections, screenings and other activities under the permittee's IDDE program.

- a. An outfall means a point source as defined by 40 CFR § 122.2 as the point where the municipal separate storm sewer discharges to waters of the United States. An outfall does not include open conveyances connecting two municipal separate storm sewers or pipes, tunnels or other conveyances that connect segments of the same stream or other waters of the United States and that are used to convey waters of the United States. (40 CFR § 122.26(b)(9)). However, it is strongly recommended that a permittee inspect all accessible portions of the system as part of this process. Culverts longer than a simple road crossing shall be included in the inventory unless the permittee can confirm that they are free of any connections and simply convey waters of the United States.

An interconnection means the point where the permittee's MS4 discharges to another MS4 or other storm sewer system, through which the discharge is conveyed to waters of the United States or to another storm sewer system and eventually to a water of the United States.

- b. The permittee shall complete its outfall inventory no later than one (1) year from the effective date of the permit and shall include the inventory in each annual report. The inventory shall be updated annually to include data collected in connection with the dry weather screening under Part 2.3.4.8.d. and other relevant inspections conducted by the permittee. The permittee shall physically label all MS4 outfall pipes (excluding interconnections) with their unique identifier

by the end of the permit term.

- c. The inventory shall include the following information: unique identifier, receiving water, date of most recent inspection, dimensions, shape, material (concrete, PVC), spatial location (latitude and longitude with a minimum accuracy of +/-30 feet, physical condition and indicators of potential non-stormwater discharges (including presence or evidence of suspect flow and sensory observations such as odor, color, turbidity, floatables, or oil sheen) as of the most recent inspection.

2.3.4.8 – Illicit Discharge Detection and Elimination Program –The IDDE program shall be recorded in a written document. The IDDE program shall include each of the elements described in Parts 2.3.4.8 (a-h), unless the permittee provides a written explanation within the IDDE program as to why a particular element is not applicable to the permittee. Notwithstanding the permittee's explanation, EPA may at any time determine that a particular element is in fact applicable to the permittee and require the permittee to add it to the IDDE program. The written IDDE program shall be completed within one (1) year of the effective date of the permit. The permittee shall implement the IDDE program in accordance with the goals and milestones set forth in Part 2.3.4.9.

- a. Legal Authority - The IDDE program shall provide that the permittee has adequate legal authority to accomplish the following tasks: prohibit illicit discharges; investigate suspected illicit discharges; eliminate illicit discharges, including discharges from properties not owned by or controlled by the MS4 that discharge into the MS4 system; and implement appropriate enforcement procedures and actions. Adequate legal authority consists of a currently effective ordinance, by-law, or other regulatory mechanism. For permittees authorized by the MS4-2003, the ordinance, by-law, or other regulatory mechanism was a requirement of the MS4-2003 and was required to be effective by May 1, 2008. The written IDDE program shall include a reference or citation of the authority the permittee will use to implement all aspects of the IDDE program.
- b. Statement of IDDE Program Responsibilities - The permittee shall establish a written statement that clearly identifies responsibilities with regard to eliminating illicit discharges. The statement shall identify the lead municipal agency(ies) or department(s) responsible for implementing the IDDE Program as well as any other agencies or departments that may have responsibilities for aspects of the program (e.g. board of health responsibilities for overseeing septic system construction; sanitary sewer system staff; inspectional services for enforcing plumbing codes; town counsel responsibilities in enforcement actions, etc). Where multiple departments and agencies have responsibilities with respect to the IDDE program specific areas of responsibility shall be defined and processes for coordination and data sharing shall be established and documented.
- c. Assessment and Priority Ranking of Catchments –The permittee shall assess and priority rank the catchments, delineated as required by Part 2.3.4.6.a.i., in terms of their potential to have illicit discharges and SSOs and the related public health significance. This ranking will determine the priority order for screening of outfalls and interconnections pursuant to Part 2.3.4.8.d., catchment investigations for evidence of illicit discharges and SSOs pursuant to

Part 2.3.4.8.e., and provides the basis for determining permit milestones pursuant to Part 2.3.4.9.

i. The permittee shall classify each catchment into one of the following categories:

- Excluded catchments: Catchments with no potential for illicit discharges may be excluded from the IDDE program. This category is limited to roadway drainage in undeveloped areas with no dwellings and no sanitary sewers; drainage for athletic fields, parks or undeveloped green space and associated parking without services; cross-country drainage alignments (that neither cross nor are in proximity to sanitary sewer alignments) through undeveloped land.
- Problem Catchments: Catchments with known or suspected contributions of illicit discharges based on existing information shall be designated as Problem Catchments. Problem Catchments need not be screened pursuant to Part 2.3.4.8.d, and shall be scheduled for catchment investigation pursuant to Part 2.3.4.8.e
- High Priority Catchments: Catchments that have not been classified as Problem Catchments and that are discharging to an area of concern to public health due to proximity of public beaches, recreational areas, drinking water supplies or shellfish beds; catchments determined by the permittee as high priority based on outfall/interconnection screening under Part 2.3.4.8.d. or Part 4.3.1 and catchment characteristics assessment under Part 2.3.4.8.c.ii.
Any catchment where outfall/interconnection screening indicates sewer input based on olfactory/visual evidence or sampling results (ammonia $\geq$ 0.5 mg/l, surfactants $\geq$ 0.25 mg/l, and bacteria levels greater than the water quality criteria applicable to the receiving water; or ammonia $\geq$ 0.5 mg/l, surfactants $\geq$ 0.25 mg/l, and detectable levels of chlorine) shall be ranked at the top of the High Priority Catchments category and scheduled for catchment investigation pursuant to Part 2.3.4.8.e.
- Low Priority Catchments: Catchments determined by the permittee as low priority based on outfall/interconnection screening under 2.3.4.8.d. and catchment characteristics assessment under Part 2.3.4.8.c.ii.

ii. The permittee shall priority rank catchments within each category (except for excluded catchments), based on screening factors. The permittee shall, at a minimum, consider the following screening factors:

- Past discharge complaints and reports.
- Poor dry weather receiving water quality- the following guidelines are recommended to identify waters as having a high illicit discharge potential: exceeding water quality standards for bacteria; ammonia levels above 0.30 mg/l; total phosphorus levels greater than 0.40 mg/l; surfactants levels greater than or equal to 0.25 mg/l.
- Density of generating sites - Generating sites are those places, including institutional, municipal, commercial, or industrial sites, with a potential to generate pollutants that could contribute to illicit discharges. Examples of these

sites include, but are not limited to, car dealers; car washes; gas stations; garden centers; and industrial manufacturing areas.

- Age of surrounding development and infrastructure – Industrial areas greater than 40 years old and areas where the sanitary sewer system is more than 40 years old will probably have a high illicit discharge potential. Developments 20 years or younger will probably have a low illicit discharge potential.
- Sewer conversion – Catchments that were once serviced by septic systems, but have been converted to sewer connections may have a high illicit discharge potential.
- Historic combined sewer systems – Catchments that were once serviced by a combined sewer system, but have been separated may have a high illicit discharge potential.
- Density of aging septic systems – Septic systems thirty years or older in residential land use areas are prone to have failures and may have a high illicit discharge potential.
- Culverted streams – any river or stream that is culverted for distances greater than a simple roadway crossing may be considered “high.”

The permittee may also consider as priorities for evaluation for illicit discharges, although not necessarily indicators of the presence of illicit connections or discharges:

- Water bodies that receive a discharge from the MS4 and are drinking water supplies, shell fishing areas, beaches or waters used for contact recreation.
- Impaired water bodies that receive a discharge from the MS4 or waters with approved TMDLs applicable to the permittee, where illicit discharges have the potential to contain the pollutant identified as the cause of impairment.

The permittee may add additional relevant factors, including location-specific screening factors; if so, the permittee shall include the additional factors in its written IDDE program

iii. An initial illicit discharge potential assessment and priority ranking based on existing information shall be completed within one (1) year from the effective date of the permit. The permittee shall update its assessment and priority ranking annually based on catchment delineations pursuant to Part 2.3.4.6, the results of screening pursuant to 2.3.4.8.d, and other new relevant information. The permittee shall provide a listing of all catchments and the results of the ranking for each catchment in each annual report. For each catchment being investigated the permittee shall also provide in its annual report (1) a summary of evidence of known or suspected illicit discharges and SSOs; (2) completed, ongoing or planned corrective measures addressing confirmed illicit discharges and SSOs; and (3) a schedule for completing and verifying measures correcting the confirmed illicit discharges and SSOs.

d. Outfall and Interconnection Screening and Sampling – The IDDE program shall include a written procedure for screening and sampling of outfalls and interconnections from the MS4 in dry and wet weather for evidence of illicit discharges and SSOs. This screening procedure shall be used for:

- baseline outfall and interconnection screening pursuant to 2.3.4.9.a. (dry weather);

- confirmatory screenings pursuant to 2.3.4.8.f. (dry and/or wet weather depending on catchment characteristics);
 - follow-up screening pursuant to 2.3.4.8.g. (dry and/or wet weather depending on catchment characteristics).
- i. The screening and sampling procedure shall include procedures for sample collection, use of field kits, storage and conveyance of samples (including relevant hold times). The permittee shall adopt a screening and sampling protocol consistent with *EPA New England Stormwater Outfall Sampling Protocol* (Draft, January 2012) (Attachment C to Fact Sheet accompanying this permit).
- ii. If an outfall is inaccessible or submerged, the permittee shall proceed to the first accessible upstream manhole or structure for the observation and sampling and report the location with the screening results. If an interconnection is inaccessible or submerged, interconnection screening shall occur at the first accessible location within the permittee's system upgradient of the interconnection.
- iii. Dry weather screening and sampling shall proceed only when no more than 0.1 inches of rainfall has occurred in the previous 24-hour period. When a flow is observed, a sample of the flow shall be collected and analyzed for the parameters listed in 2.3.4.8.d.v.. If no dry weather flow is observed, the permittee shall record the condition of the outfall and other relevant information (see Part 2.3.4.7). If no flow is observed, but evidence of dry weather flow exists, the permittee shall revisit the outfall during dry weather within one week of the initial observation, if practicable, to perform a second dry weather screening and sample any observed flow. The permittee shall identify in the annual report any other necessary follow-up actions to identify the source of any apparent intermittent flow not sampled.
- iv. Wet weather screening and sampling shall proceed during or after a storm event of sufficient depth or intensity to produce a stormwater discharge but only during the spring (March to June) when groundwater levels are relatively high. The permit does not require a minimum rainfall event prior to wet weather screening. However, the purpose of wet weather screening and sampling under the IDDE program is to identify illicit discharges that may activate or become evident during wet weather. Permittees may incorporate provisions that assist in targeting such discharges, including avoiding sampling during the initial period of discharge ("first flush") and/or identifying minimum storm event intensities likely to trigger sanitary sewer interconnections.
- v. Samples shall be analyzed at a minimum for ammonia, chlorine, conductivity, salinity, *E. coli*. (freshwater receiving water) or enterococcus (saline or brackish receiving water), surfactants (such as MBAS), temperature, and any other pollutants pursuant to Part 4.3.1. All analyses with the exception of indicator bacteria can be performed with field test kits or field instrumentation. In addition, where the discharge is directly into an impaired water or is subject to an approved TMDL as indicated in Appendix F, the sample shall be analyzed for the pollutants identified as the cause of the impairment as specified in Appendix G.

- vi. Catchments where there is relevant information indicating sewer input to the MS4 or sampling results where ammonia ≥ 0.5 mg/l, surfactants ≥ 0.25 mg/l, and bacteria levels greater than the water quality criteria applicable to the receiving water (or alternatively, ammonia ≥ 0.5 mg/l, surfactants ≥ 0.25 mg/l, and detectable levels of chlorine) shall be considered highly likely to contain illicit discharges from sanitary sources, and such catchments shall be ranked at the top of the High Priority Catchments category for investigation.
- e. Catchment Investigation Procedure - The permittee shall develop a written systematic procedure for catchment investigation that includes (1) a review of mapping and historic plans and records for the catchment; (2) a manhole inspection methodology; and (3) procedures to isolate and confirm sources of illicit discharges, as set forth below.
- i. For each catchment being investigated, the permittee shall review relevant mapping and historic plans and records to the extent available, including but not limited to plans related to the construction of the storm drain and of sanitary sewers in the catchment, prior work performed on the storm drain or sanitary sewers, board of health or other municipal data on septic system failures or required upgrades, and complaint records related to SSOs, sanitary sewer surcharges, and septic system breakouts. This review shall be used to identify areas within the catchment with higher potential for illicit connections and System Vulnerability Factors that indicate a risk of sanitary or septic system inputs to the MS4 under wet weather conditions. The permittee shall identify and record the presence of any of the following specific System Vulnerability Factors:
- History of SSOs, including, but not limited to, those resulting from wet weather, high water table, or fat/oil/grease blockages;
 - Sewer pump/lift stations, siphons, or known sanitary sewer restrictions where power/equipment failures or blockages could readily result in SSOs;
 - Inadequate sanitary sewer level of service (LOS) resulting in regular surcharging, customer back-ups, or frequent customer complaints;
 - Common or twin-invert manholes serving storm and sanitary sewer alignments;
 - Common trench construction serving both storm and sanitary sewer alignments;
 - Crossings of storm and sanitary sewer alignments;
 - Sanitary sewer alignments known or suspected to have been constructed with an underdrain system;
 - Sanitary sewer infrastructure defects such as leaking service laterals, cracked, broken, or offset sanitary infrastructure, directly piped connections between storm drain and sanitary sewer infrastructure, or other vulnerability factors identified through Inflow/Infiltration Analyses, Sanitary Sewer Evaluation Surveys, or other infrastructure investigations.
 - Areas formerly served by combined sewer systems;
 - Any sanitary sewer and storm drain infrastructure greater than 40 years old in medium and densely developed areas;
 - Widespread code-required septic system upgrades required at property transfers (indicative of inadequate soils, water table separation, or other physical constraints of the area rather than poor owner maintenance);

- History of multiple Board of Health actions addressing widespread septic system failures (indicative of inadequate soils, water table separation, or other physical constraints of the area rather than poor owner maintenance);

The permittee shall document the presence or absence of System Vulnerability Factors for each catchment, retain this documentation as part of its IDDE program, and report this information in Annual Reports. Where System Vulnerability Factors are present, the catchment shall be investigated pursuant to paragraph 2.3.4.8.e.ii.(b) below.

- ii. The manhole inspection methodology shall describe a storm drain network investigation that involves systematically and progressively observing, sampling (as required below) and evaluating key junction manholes (see definition in Appendix A) in the MS4 to narrow the location of suspected illicit discharges or SSOs to an isolated pipe segment between two manholes, locate evidence of illicit discharges or SSOs that may not be evident at the outfall under all circumstances, and confirm or identify potential system vulnerability factors. The permittee is responsible for selecting key junction manholes in a manner such that the distance between key junction manholes is appropriate to ensure a thorough assessment of its system.

The manhole inspection methodology may either start from the outfall and work up the system or start from the upper parts of the catchment and work down the system or be a combination of both practices. Either method must, at a minimum, include an investigation of each key junction manhole within the MS4, even where no evidence of an illicit discharge is observed at the outfall. The Catchment Investigation Procedure must describe the method the permittee will use.

(a) Dry weather investigation - Key junction manholes shall be opened and inspected for visual and olfactory evidence of illicit connections (e.g., excrement, toilet paper, gray filamentous bacterial growth, or sanitary products present). If flow is observed, the permittee shall sample the flow at a minimum for ammonia, chlorine and surfactants and can use field kits for these analyses. Additional indicator sampling may assist in determining potential sources (e.g. bacteria for sanitary flows, conductivity to detect tidal backwater, etc.). Where sampling results or visual or olfactory evidence indicate potential illicit discharges or SSOs, the area draining to the junction manhole shall be flagged for further investigation, through upstream junction manhole investigation and/or isolation and confirmation of sources pursuant to 2.3.4.8.e.ii..

Manhole inspections in all areas shall also include identifying System Vulnerability Factors including common (twin invert) manholes, directly piped connections between storm drains and sanitary sewer infrastructure, common weir walls, sanitary sewer underdrain connections and other structural vulnerabilities where sanitary discharges could enter the storm drain system during wet weather. Where present, such System Vulnerability Factors shall be investigated pursuant to paragraph (b).

(b) Wet weather investigation – Where the review of mapping and historic plans and records and/or manhole inspections indicate the presence of one or more System Vulnerability Factors as listed in Part 2.3.4.8.e.i. above, the permittee shall also inspect

and sample under wet weather conditions to the extent necessary to determine whether wet weather-induced high flows in sanitary sewers or high groundwater in areas served by septic systems result in discharges of sanitary flow to the MS4. The permittee shall conduct at least one wet weather screening and sampling at the outfall for any catchment where one or more System Vulnerability Factors are present. This sampling can be done upon completion of any dry weather investigation but must be completed before catchment investigation is marked as complete. All data shall be recorded and reported in each annual report.

iii. **Isolation and Source Verification Procedures** – The permittee shall develop procedures to be used to isolate and confirm sources where manhole investigations or other physical evidence or screening has identified MS4 alignments to be influenced by illicit discharges or SSOs. These shall include isolation of the drainage area for implementation of more detailed investigations, inspection of additional manholes along the alignment to refine the location of potential contaminant sources, and methods such as caulk dams, targeted internal plumbing inspections, dye testing, video inspections, or smoke testing to isolate and confirm the sources.

f. **Removal and Confirmation** - When the source of an illicit discharge or SSO is identified and confirmed, the permittee shall exercise its authority as necessary to require its removal pursuant to Part 2.3.4.2. or 2.3.4.4. For each confirmed source the permittee shall include in the annual report the following information: the location of the discharge and its source(s), a description of the discharge, the method of discovery, date of discovery, date of elimination, mitigation or enforcement action; and estimate of the volume of flow removed.

Within one year of removal of all identified illicit discharge and SSO sources, confirmatory outfall or interconnection screening shall be conducted. The confirmatory screening shall be conducted in dry weather unless System Vulnerability Factors have been identified in the catchment pursuant to 2.3.4.8.e.(i), in which case both dry weather and wet weather confirmatory screening shall be conducted. If confirmatory screening indicates evidence of additional illicit discharges, the catchment shall be scheduled for additional investigation. Confirmatory screening is not required in catchments where no illicit discharges or system vulnerability factors have been identified and no previous screening indicated suspicious flows.

g. **Follow-up Screening** – Upon completion of catchment investigation pursuant to paragraph e. and illicit discharge removal and confirmation (if necessary) pursuant to paragraph f., the catchment outfall or interconnection shall be scheduled for follow-up screening within five years, or sooner as determined by the permittee based on the catchment's illicit discharge priority. Follow-up screening shall consist of dry weather screening and sampling except that wet weather screening and sampling shall also be required in catchments where wet weather screening was required by Part 2.3.4.8.e.ii.(b).

h. **Illicit Discharge Prevention Procedures** - The permittee shall develop and implement mechanisms and procedures designed to prevent illicit discharges and SSOs, such as: spill response and prevention procedures including identification of spills, reporting procedures, containment procedures, and documentation; public awareness (this may be a part of the

education program required by Part 2.3.2); reporting (hotlines) and training of public employees involved in the IDDE program on ways to identify potential illicit discharges and SSOs.

2.3.4.9 - IDDE Program Implementation Goals and Milestones – The permittee shall implement the IDDE Program to meet the following goals and milestones:

- a. The permittee shall complete dry weather screening and sampling (where flowing) of every MS4 outfall and interconnection (except Excluded and Problem Catchments) no later than three years from the permit effective date. The permittee may rely on screening conducted under the MS4-2003, pursuant to an EPA enforcement action, or by the state or EPA to the extent that it meets the requirements of Part 2.3.4.8. All data shall be reported in each annual report. Permittees that have conducted substantially equivalent monitoring to that required by Part 2.3.4.8.d. as part of an EPA enforcement action can request an exemption from the requirements of 2.3.4.8.d. by submitting a written request to EPA and retaining exemption approval from EPA as part of the SWMP. Until the permittee receives formal written approval of the exemption from Part 2.3.4.8.d. from EPA the permittee remains subject to all requirements of Part 2.3.4.8.d.
- b. The permittee shall begin investigations using the procedure developed in accordance with Part 2.3.4.8.d. within three months of investigation procedure finalization and no later than 15 months (1 year and 3 months) from the effective date of the permit and shall make continued progress each year toward meeting the milestones of paragraph 2.3.4.9.c. below. In accordance with Part 2.3.4.5, the permittee shall continue investigation, including Problem Catchments, using its existing IDDE program until such time as the procedure under 2.3.4.8.d is developed.
- c. The permittee shall implement the Catchment Investigation Procedure in every catchment of the MS4, even where dry weather screening does not indicate evidence of illicit discharges. The permittee shall begin implementation of the procedure in Problem Catchments and those catchments with the highest ranking in the Assessment of Priority Catchments pursuant to 2.3.4.8.c. Implementation of the Catchment Investigation Procedure shall comply with the following milestones. For purposes of these milestones, a catchment investigation is considered complete if a permittee has completed all elements of 2.3.4.8.e.
- i. The permittee shall complete the Catchment Investigation Procedure in a minimum of 80% of the MS4 area served by Problem Catchments within three years of the permit effective date and 100% of Problem Catchments within five years of the permit effective date.
- ii. The permittee shall implement the Catchment Investigation Procedure in every catchment of the MS4 where information indicates sewer input including outfall/interconnection screening that indicates sewer input based on olfactory/visual evidence or sampling results (ammonia $\geq$ 0.5 mg/l, surfactants $\geq$ 0.25 mg/l, and bacteria levels greater than the water quality criteria applicable to the receiving water; or ammonia $\geq$ 0.5 mg/l, surfactants $\geq$ 0.25 mg/l, and detectable levels of chlorine) within five (5) years of the permit effective date.

iii. The permittee shall complete the Catchment Investigation Procedure in 40% of the area served by all MS4 catchments within five (5) years of the permit effective date, and in 100% of the area served by all MS4 catchments within ten (10) years of the permit effective date. The permittee may count the area of low priority catchments only if the Catchment Investigation has been started in all other MS4 catchments. For the purposes of this Part, catchment investigations that have been started include those where provisions of Part 2.3.4.8.e.i.-ii. have been completed.

d. Where catchments do not contain junction manholes, the dry weather screening and sampling shall be considered as meeting the manhole inspection requirement. In these catchments dry weather screenings that indicate potential presence of illicit discharges shall be further investigated pursuant to 2.3.4.8.e.iii.. Investigations in these catchments may be considered complete where dry weather screening reveals no flow; no evidence of illicit discharges or SSOs is indicated through sampling results or visual or olfactory means; and no wet weather System Vulnerability Factors are identified.

e. The permittee shall track progress towards these milestones in each annual report.

2.3.4.10. – Indicators of IDDE Program Progress - The permittee shall define or describe indicators for tracking program success. At a minimum, indicators shall include measures that demonstrate efforts to locate illicit discharges, the number of SSOs and illicit discharges identified and removed, the percent and area in acres of the catchment area served by the MS4 evaluated using the catchment investigation procedure, and volume of sewage removed. The permittee shall evaluate and report the overall effectiveness of the program based on the tracking indicators in the annual report.

2.3.4.11. The permittee shall, at a minimum, annually provide training to employees involved in IDDE program about the program, including how to recognize illicit discharges and SSOs. The permittee shall report on the frequency and type of employee training in the annual report.

2.3.5 Construction Site Stormwater Runoff Control

Objective: The objective of an effective construction stormwater runoff control program is to minimize or eliminate erosion and maintain sediment on construction sites so that it is not transported in stormwater and allowed to discharge to the MS4.

The construction site stormwater runoff control program required by this permit is a separate and distinct program from EPA's stormwater construction permit program.
(<http://cfpub1.epa.gov/npdes/stormwater/cgp.cfm>)

2.3.5.1 – Permittees shall implement and enforce a program to reduce pollutants in any stormwater runoff discharged to the MS4 from construction activities that result in a land disturbance of greater than or equal to one acre. The permittee's program shall include disturbances less than one acre if that disturbance is part of a larger common plan of development or sale that would disturb one acre or more. Permittees authorized under the MS4-2003 shall continue to implement their existing programs and shall modify them as necessary to meet the requirements of this Part.

2.3.5.2 - The permittee does not need to apply its construction program requirements to projects that receive a waiver from EPA under the provisions of 40 CFR § 122.26(b) (15) (i).

2.3.5.3 - The construction site stormwater runoff control program shall include the elements in Paragraphs a. through e. of this part:

- a. An ordinance or other regulatory mechanism that requires the use of sediment and erosion control practices at construction sites. Development of an ordinance or other regulatory mechanism was a requirement of the MS4-2003 (See Part III.B.4) and was required to be effective by May 1, 2008.
- b. Written procedures for site inspections and enforcement of sediment and erosion control measures. If not already existing, these procedures shall be completed within one (1) year from the effective date of the permit. The procedures shall clearly define who is responsible for site inspections as well as who has authority to implement enforcement procedures. The program shall provide that the permittee may, to the extent authorized by law, impose sanctions to ensure compliance with the local program. These procedures and regulatory authorities shall be documented in the SWMP.
- c. Requirements for construction operators to implement a sediment and erosion control program. The program shall include BMPs appropriate for the conditions at the construction site. The program may include references to BMP design standards in state manuals or design standards specific to the MS4. EPA supports and encourages the use of design standards in local programs. Examples of appropriate sediment and erosion control measures for construction sites include local requirements to:
 - minimize the amount of disturbed area and protect natural resources;
 - stabilize sites when projects are complete or operations have temporarily ceased;
 - protect slopes on the construction site;
 - protect all storm drain inlets and armor all newly constructed outlets;
 - use perimeter controls at the site;
 - stabilize construction site entrances and exits to prevent off-site tracking; and
 - inspect stormwater controls at consistent intervals.
- d. Requirements to control wastes, including but not limited to, discarded building materials, concrete truck wash out, chemicals, litter, and sanitary wastes. These wastes may not be discharged to the MS4.
- e. Written procedures for site plan review. If not already existing, the procedure for site plan review shall be completed within one (1) year from the effective date of the permit. Site plan review shall include a review by the permittee of the site design, the planned operations at the construction site, planned BMPs during the construction phase, and the planned BMPs to be used to manage runoff created after development. The review procedure shall incorporate procedures for the consideration of potential water quality impacts; procedures for pre-construction review; and procedures for receipt and consideration of information submitted by the public. Site plan review procedure shall include evaluation of opportunities for use of low

impact design and green infrastructure. When the opportunity exists, the permittee shall encourage project proponents to incorporate these practices into the site design. The permittee shall track the number of site reviews, inspections, and enforcement actions. This information shall be included as part of each annual report required by Part 4.4.

2.3.6 Stormwater Management in New Development and Redevelopment (Post Construction Stormwater Management)

Objective: The objective of this control measure is for the hydrology resulting from new development to mirror the pre-development hydrology of the site or to improve the hydrology of a redeveloped site and reduce the discharge of stormwater.

2.3.6.1 – Permittees shall implement and enforce a program to address post construction stormwater runoff from new development and redevelopment projects that disturb one or more acres of land and discharge or will discharge into the MS4. Permittees authorized under the MS4-2003 shall continue to implement their existing programs and shall modify them as necessary to meet the requirements of this Part.

2.3.6.2 - The new development/redevelopment program shall include projects less than one acre if the project is part of a larger common plan of development or redevelopment which disturbs one or more acres.

2.3.6.3. – The new development/redevelopment program shall include an ordinance or regulatory mechanism that regulates runoff from new development and redevelopment projects. Development of the ordinance or other regulatory mechanism was a requirement of the MS4-2003 (See MS4-2003 Part III.B.5) and was required to be effective by May 1, 2008.

The ordinance or other regulatory mechanism shall be amended or modified, as appropriate, within two (2) years of the effective date of the permit to require compliance with the design criteria set forth in the most recent version of the New Hampshire Stormwater Manual (<http://des.nh.gov/organization/divisions/water/stormwater/manual.htm>)

2.3.6.4. The permittee's new development/redevelopment program shall have procedures to ensure that any stormwater controls or management practices for new development and redevelopment will prevent or minimize impacts to water quality. These procedures may also include requirements to avoid disturbance of areas susceptible to erosion and sediment loss; requirements to preserve areas in the municipality that provide important water quality benefits; requirements to implement measures for flood control; and requirements to protect the integrity of natural resources. See related requirements for new and increased discharges in Part 2.1.2.

2.3.6.5 –For projects subject to the ordinances required by this Part, the permittee shall require the submission of as-built drawings within a specified time frame, not to exceed one year from completion of construction projects. The as-built drawings must depict all on site controls designed to manage the stormwater associated with the completed site (post construction stormwater management). The new development/redevelopment program shall have procedures to ensure adequate long-term operation and maintenance of stormwater management practices that remain in place after the completion of a construction project. These procedures may include

the use of dedicated funds or escrow accounts for development projects or the acceptance of ownership by the permittee of all privately owned BMPs. These procedures may also include the development of maintenance contracts between the owner of the BMP and the permittee. Alternatively, these procedures may include the submission of an annual certification documenting the work that has been done over the last 12 months to properly operate and maintain the stormwater control measures. The procedures to require submission of as-built drawings and ensure long term operation and maintenance shall be a part of the SWMP. The permittee shall report in the annual report on the measures that the permittee has utilized to meet this requirement.

2.3.6.6. Within two (2) years of the effective date of this permit, the permittee shall develop a report assessing current street design and parking lot guidelines and other local requirements that affect the creation of impervious cover. This assessment shall be used to provide information to determine if the design standards for streets and parking lots can be modified to support low impact design options. If the assessment indicates that changes can be made, the assessment shall include recommendations and proposed schedules to incorporate policies and standards into relevant documents and procedures to minimize impervious cover attributable to parking areas and street designs. The permittee shall involve any local planning boards and local transportation boards in this assessment to the extent feasible. The permittee shall report in each annual report on the status of this assessment including any planned or completed changes to local regulations and guidelines.

2.3.6.7. Within three (3) years from the effective date of the permit, the permittee shall develop a report assessing existing local regulations including, but not limited to, zoning and construction codes to determine the feasibility of making, at a minimum, the following green infrastructure practices allowable when appropriate site conditions exist:

1. Green roofs;
2. Infiltration practices such as rain gardens, curb extensions, planter gardens, porous and pervious pavements, and other designs to manage stormwater using landscaping and structured or augmented soils; and
3. Water harvesting devices such as rain barrels and cisterns, and the use of stormwater for non-potable uses.

The assessment should indicate whether and under what circumstances the practices are allowed in the MS4 jurisdiction. If the practices are not allowed, the permittee shall identify impediments to the use of these practices, and what changes in local regulations may be made to make them allowable. The permittee shall report in each annual report on its findings and progress towards making the practices allowable. (Information available at:

<http://www.epa.gov/region1/npdes/stormwater/assets/pdfs/AddressingBarrier2LID.pdf>)

2.3.6.8 – Directly Connected Impervious Area

- a. The permittee shall estimate the annual increase or decrease in the number of acres of impervious area (IA) and directly connected impervious area (DCIA) draining to its MS4 and report those estimates in each annual report. The permittee shall tabulate its estimates by sub-basins. EPA recommends that the sub-basins be those included in the Level 6 Hydrologic Unit Boundaries for New Hampshire (<http://www.granit.unh.edu>). Alternatively, the permittee may

tabulate its estimates by the catchments it has delineated pursuant to Part 2.3.4.8 .c.iii. of this permit or an alternative delineation of sub-basins.

For the purposes of this part, IA includes conventional pavements, sidewalks, driveways, roadways, parking lots, and rooftops. DCIA is the portion of IA with a direct hydraulic connection to the permittee's MS4 or a waterbody via continuous paved surfaces, gutters, pipes and other impervious features. DCIA typically does not include isolated impervious areas with an indirect hydraulic connection to the MS4 or that otherwise drain to a pervious area.

- b. Two (2) years from the effective date of this permit, the permittee shall complete an inventory and priority ranking of permittee-owned property and existing infrastructure that could be retrofitted with BMPs designed to reduce the frequency, volume and pollutant loads of stormwater discharges to its MS4 through the mitigation of impervious area. Properties and infrastructure for consideration shall include those with the potential for mitigation of on-site IA and DCIA, as well as those that could provide mitigation of off-site IA and DCIA. At a minimum, permittees shall consider municipal property with significant impervious cover (including parking lots, buildings, and maintenance yards) that could be mitigated, and open space and undeveloped land available to mitigate impervious cover and associated stormwater from proximate offsite properties. MS4 infrastructure to be considered includes existing street right-of-ways, outfalls and conventional stormwater conveyances and controls (including swales and detention practices) that could be readily modified to provide reduction in frequency, volume or pollutant loads of such discharges through the mitigation of impervious cover. The permittee may also include in its inventory properties and infrastructure that are privately-held or that do not contribute stormwater to its MS4.

The inventory and priority ranking shall, at minimum, be a screening level ranking that may be based on existing or readily obtainable data. In determining the potential for retrofitting particular properties, the permittee shall consider, on a screening level and subject to availability of data, factors such as access for maintenance purposes; subsurface geology; depth to water table; site slope and elevation; and proximity to aquifers and subsurface infrastructure including sanitary sewers and septic systems. The permittee may consider public safety when evaluating potential retrofits. In determining its priority ranking, the permittee shall consider, on a screening level and subject to availability of data, factors such as schedules for planned capital improvements to storm and sanitary sewer infrastructure and paving projects; current storm sewer level of service; and control of discharges to impaired waters, first or second order streams, and critical receiving waters; the complexity and cost of implementation; and opportunities for public use and education. For the purposes of this part, critical receiving waters include public swimming beaches, public drinking water supply sources, outstanding resource waters, cold water fisheries, and shellfish growing areas.

- c. Beginning with the second year annual report and in each subsequent annual report, the permittee shall estimate for each sub-basin identified pursuant to Part 2.3.6.8.a. the number of acres of IA and DCIA draining to its MS4 that have been added or removed during the prior year. The permittee shall include in its estimates the additions or reductions resulting from development, redevelopment, or retrofit projects undertaken directly by the permittee; or by private developers and other parties.

Beginning with the third year annual report and in each subsequent annual report, the permittee shall report on those permittee-owned properties and infrastructure inventoried pursuant to Part 2.3.6.8.b. that have been retrofitted with BMPs to mitigate IA and DCIA. The permittee may also include in its annual report non-MS4 owned property that has been retrofitted with BMPs to mitigate IA and DCIA.

2.3.7 Good House Keeping and Pollution Prevention for Municipal Operations

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

2.3.7.1 - Operations and Maintenance (O & M) Programs

Within one (1) year from the effective date of the permit, the permittee shall develop, if not already developed, written operations and maintenance procedures for the municipal activities listed below in Parts 2.3.7.1.a–c. These written O & M procedures shall be included as part of the SWMP.

The permittee must develop an inventory of all such facilities within six (6) months of the effective date of this permit. The permittee shall review this inventory annually and update as necessary.

- a. Parks and open space: Establish procedures to address the proper use, storage, and disposal of pesticides, herbicides, and fertilizers (PHF) including minimizing the use of these products and using them only in accordance manufacturer's instruction. Evaluate lawn maintenance and landscaping activities to ensure practices are protective of water quality. Protective practices include reduced use of PHFs, integrated pest management (IPM), recycling or proper disposal of lawn clippings and other vegetative waste, and use of native and drought resistant landscaping materials. Establish procedures for management of trash containers at parks (scheduled cleanings; sufficient number), and for placing signage in areas concerning the proper disposal of pet wastes.
- b. Buildings and facilities where pollutants are exposed to stormwater runoff: This includes schools (to the extent they are permittee-owned or operated), town offices, police, and fire stations, municipal pools and parking garages and other permittee-owned or operated buildings or facilities. Evaluate the use, storage, and disposal of petroleum products and other potential stormwater pollutants. Provide employee training as necessary so that those responsible for handling these products know proper procedures. Ensure that Spill Prevention Plans are in place, if applicable, and coordinate with the fire department as necessary. Develop management procedures for dumpsters and other waste management equipment. Sweep parking lots and keep areas surrounding the facilities clean to reduce runoff of pollutants.
- c. Vehicles and Equipment: Establish procedures for the storage of permittee vehicles. Vehicles with fluid leaks shall be stored indoors or containment shall be provided until repaired. Evaluate fueling areas owned by the permittee or used by permittee vehicles. If possible, place

fueling areas under cover in order to minimize exposure. Establish procedures to ensure that vehicle wash waters are not discharged to the municipal storm sewer system or to surface waters. This permit does not authorize such discharges.

d. Infrastructure Operations and Maintenance

- i. The permittee shall establish within one (1) year of the effective date of the permit a written program detailing the activities and procedures the permittee will implement so that the MS4 infrastructure is maintained in a timely manner to reduce the discharge of pollutants from the MS4. If the permittee has an existing program to maintain its MS4 infrastructure in a timely manner to reduce or eliminate the discharge of pollutants from the MS4, the permittee shall document the program in the SWMP.
- ii. The permittee shall optimize routine inspections, cleaning and maintenance of catch basins such that the following conditions are met:
 - Ensure that no sump shall be more than 50 percent full for any catch basins serving catchments draining to impaired waters where the pollutant of concern is sedimentation/siltation, Nitrogen (Total) or Phosphorus (Total). If the majority of the waters are impaired, the permittee shall prioritize cleaning efforts based on the cause of the impairment and the potential for the MS4 to contribute to the impairment. The permittee shall document its prioritization in the SWMP.
 - Prioritize inspection and maintenance for catch basins located near construction activities (roadway construction, residential, commercial, or industrial development or redevelopment). Clean catch basins in such areas more frequently if inspection and maintenance activities indicate excessive sediment or debris loadings.
 - Establish, for other catch basins, a schedule that the frequency of routine cleaning will ensure that no catch basin at anytime will be more than 50 percent full.
 - If a catch basin sump is more than 50 percent full during two consecutive routine inspections/cleaning events, the permittee shall document that finding, investigate the contributing drainage area for sources of excessive sediment loading, and to the extent practicable, abate contributing sources. The permittee shall describe any actions taken in its annual report.
 - For the purposes of this part, an excessive sediment or debris loading is a catch basin sump more than 50 percent full. A catch basin sump is more than 50 percent full if the contents within the sump exceed one half the distance between the bottom interior of the catch basin to the invert of the deepest outlet of the catch basin.
 - The permittee shall document in the SWMP and in the first annual report its plan for optimizing catch basin cleaning, inspection plans, or its schedule for gathering information to develop the optimization plan. Documentation shall include metrics and other information used to reach the determination that the established plan for cleaning and maintenance is optimal for the MS4. The permittee shall keep a log of catch basins cleaned or inspected.
 - The permittee shall report in each annual report the total number of catch basins, number inspected, number cleaned, and the volume or mass of material removed

from each catch basin draining to impaired waters and the total volume or mass of material removed from all catch basins.

- iii. The permittee shall establish and implement procedures for sweeping and/or cleaning streets, and permittee-owned parking lots. All streets with the exception of high speed limited access highways shall be swept and/or cleaned a minimum of once per year in the spring (following winter activities such as sanding). The procedures shall also include more frequent sweeping of targeted areas determined by the permittee on the basis of pollutant load reduction potential, based on inspections, pollutant loads, catch basin cleaning or inspection results, land use, impaired or TMDL waters or other relevant factors as determined by the permittee. The permittee shall report in each annual report the number of miles cleaned and the volume or mass of material removed.

For uncurbed, limited access highways, the permittee shall either meet the minimum frequencies above, or develop and implement an inspection, documentation and targeted sweeping plan within one year of the effective date of the permit, and submit such plan with its year one annual report.

- iv. The permittee shall ensure proper storage of catch basin cleanings and street sweepings prior to disposal or reuse such that they do not discharge to receiving waters.
- v. The permittee shall establish and implement procedures for winter road maintenance including the use and storage of salt and sand; minimize the use of sodium chloride and other salts, and evaluate opportunities for use of alternative materials; and ensure that snow disposal activities do not result in disposal of snow into surface waters. See NHDES, Fact Sheet WMB-3 Snow Disposal, for guidance as to selection and maintenance of snow disposal areas.
- vi. The permittee shall establish and implement inspection and maintenance frequencies and procedures for the storm drain systems and for all stormwater treatment structures such as water quality swales, retention/detention basins, infiltration structures, proprietary treatment devices or other similar structures. All permittee-owned stormwater treatment structures (excluding catch basins) shall be inspected annually at a minimum.
- e. The permittee shall report in the annual report on the status of the inventory required by this part and any subsequent updates; the status of the O&M programs for the permittee-owned facilities and activities in Parts 2.3.7.1a. – d. of this section; and the maintenance activities associated with each.
- f. The permittee shall keep a written record of all required activities including but not limited to maintenance activities, inspections and training required by Part 2.3.7.1. The permittee shall maintain, consistent with Part 4.2.1, all records associated with maintenance and inspection activities required by Part 2.3.7.1

2.3.7.2 - Stormwater Pollution Prevention Plan (SWPPP)

The permittee shall develop and fully implement a SWPPP for each of the following permittee-owned or operated facilities: maintenance garages, public works yards, transfer stations, and

other waste handling facilities where pollutants are exposed to stormwater. If facilities are located at the same property, the permittee may develop one SWPPP for the entire property. The SWPPP is a separate and different document from the SWMP required in Part 1.10. A SWPPP does not need to be developed for a facility if the permittee has either developed a SWPPP or received a no exposure certification for the discharge under the Multi-Sector General Permit or the discharge is authorized under another NPDES permit.

a. No later than two years from the effective date of the permit, the permittee shall develop and implement a written SWPPP for the facilities described above. The SWPPP shall be signed in accordance with the signatory requirements of Appendix B – Subparagraph 11.

b. The SWPPP shall contain the following elements:

i. Pollution Prevention Team

Identify the staff on the team, by name and title. If the position is unstaffed, the title of the position should be included and the SWPPP updated when the position is filled. The role of the team is to develop, implement, maintain, and revise, as necessary, the SWPPP for the facility.

ii. Description of the facility and identification of potential pollutant sources

The SWPPP shall include a map of the facility and a description of the activities that occur at the facility. The map shall show the location of the stormwater outfalls, receiving waters, and any structural controls. Identify all activities that occur at the facility and the potential pollutants associated with each activity including the location of any floor drains. These may be included as part of the inventory required by Part 2.3.7.1.

iii. Identification of stormwater controls

The permittee shall select, design, install, and implement the control measures detailed in paragraph iv below to prevent or reduce the discharge of pollutants from the permittee owned facility.

The selection, design, installation, and implementation of the control measures shall be in accordance with good engineering practices and manufacturer's specifications. The permittee shall also take all reasonable steps to control or address the quality of discharges from the site that may not originate at the facility.

If the discharge from the facility is to an impaired water and the facility has the potential to discharge the pollutant identified as causing the impairment, the permittee shall identify the control measures that will be used to address this pollutant at the facility so that the discharge does not cause or contribute to a violation of a water quality standard.

iv. The SWPPP shall include the following management practices:

Minimize or Prevent Exposure: The permittee shall to the extent practicable either locate materials and activities inside, or protect them with storm-resistant coverings in order to prevent exposure to rain, snow, snowmelt and runoff (although significant enlargement of

impervious surface area is not recommended). Materials do not need to be enclosed or covered if stormwater runoff from affected areas will not be discharged directly or indirectly to surface waters or to the MS4 or if discharges are authorized under another NPDES permit.

Good Housekeeping: The permittee shall keep clean all exposed areas that are potential sources of pollutants, using such measures as sweeping at regular intervals. Ensure that trash containers are closed when not in use, keep storage areas well swept and free from leaking or damaged containers; and store leaking vehicles needing repair indoors.

Preventative Maintenance: The permittee shall regularly inspect, test, maintain, and repair all equipment and systems to avoid situations that may result in leaks, spills, and other releases of pollutants in stormwater to receiving waters. Inspections shall occur at a minimum once per quarter.

Spill Prevention and Response: The permittee shall minimize the potential for leaks, spills, and other releases that may be exposed to stormwater and develop plans for effective response to such spills if or when they occur. At a minimum, the permittee shall have procedures that include:

- Preventive measures such as barriers between material storage and traffic areas, secondary containment provisions, and procedures for material storage and handling.
- Response procedures that include notification of appropriate facility personnel, emergency agencies, and regulatory agencies, and procedures for stopping, containing, and cleaning up leaks, spills and other releases. Measures for cleaning up hazardous material spills or leaks shall be consistent with applicable Resource Conservation and Recovery Act (RCRA) regulations at 40 CFR Part 264 and 40 CFR Part 265. Employees who may cause, detect, or respond to a spill or leak shall be trained in these procedures and have necessary spill response equipment available. If possible, one of these individuals should be a member of the Pollution Prevention Team; and
- Contact information for individuals and agencies that shall be notified in the event of a leak, spill, or other release. Where a leak, spill, or other release containing a hazardous substance or oil in an amount equal to or in excess of a reportable quantity established under 40 CFR Part 110, 40 CFR Part 117, or 40 CFR Part 302, occurs during a 24-hour period, the permittee shall notify the National Response Center (NRC) at (800) 424-8802 in accordance with the requirements of 40 CFR Part 110, 40 CFR Part 117, and 40 CFR Part 302 as soon as the permittee has knowledge of the discharge. State or local requirements may necessitate reporting spills or discharges to local emergency, public health or drinking water supply agencies, and owners of public drinking water supplies. Contact information shall be in locations that are readily accessible and available.

Erosion and Sediment Control: The permittee shall use structural and non-structural control measures at the facility to stabilize and contain runoff from exposed areas and to minimize or eliminate onsite erosion and sedimentation. Efforts to achieve this may include the use of flow velocity dissipation devices at discharge locations and within outfall channels where necessary

to reduce erosion.

Management of Runoff: The permittee shall manage stormwater runoff from the facility to prevent or reduce the discharge of pollutants. This may include management practices which divert runoff from areas that are potential sources of pollutants, contain runoff in such areas, or reuse, infiltrate or treat stormwater to reduce the discharge of pollutants.

Salt Storage Piles or Piles Containing Salt: For storage piles of salt or piles containing salt used for deicing or other purposes (including maintenance of paved surfaces) for which the discharge during precipitation events discharges to the permittee's MS4, any other MS4 or to a Water of the US, the permittee shall prevent exposure of the storage pile to precipitation by enclosing or covering the storage piles. Such piles shall be enclosed or covered within two (2) years of the permit effective date. The permittee shall implement appropriate measures (e.g., good housekeeping, diversions, containment) to minimize exposure resulting from adding to or removing materials from the pile. The permittee is encouraged to store piles in such a manner as not to impact surface water resources, ground water resources, recharge areas, and wells.

Employee Training: The permittee shall regularly train employees who work in areas where materials or activities are exposed to stormwater, or who are responsible for implementing activities identified in the SWPPP (e.g., inspectors, maintenance personnel), including all members of the Pollution Prevention Team. Training shall cover both the specific components and scope of the SWPPP and the control measures required under this Part, including spill response, good housekeeping, material management practices, any best management practice operation and maintenance, etc. EPA recommends annual training.

The permittee shall document the following information for each training:

- The training date, title and training duration;
- List of municipal attendees
- Subjects covered during training

Maintenance of Control Measures: The permittee shall maintain all control measures, required by this permit in effective operating condition. The permittee shall keep documentation onsite that describes procedures and a regular schedule for preventative maintenance of all control measures and discussions of back-up practices in place should a runoff event occur while a control measure is off-line. Nonstructural control measures shall also be diligently maintained (e.g., spill response supplies available, personnel trained).

v. The permittee shall conduct the following inspections:

Site Inspections: Inspect all areas that are exposed to stormwater and all stormwater control measures. Inspections shall be conducted at least once each calendar quarter. More frequent inspections may be required if significant activities are exposed to stormwater. Inspections shall be performed when the facility is in operation. At least one of the quarterly inspections shall occur during a period when a stormwater discharge is occurring.

The permittee shall document the following information for each facility inspection:

- The inspection date and time;
 - The name of the inspector;
 - Weather information and a description of any discharge occurring at the time of the inspection;
 - Identification of any previously unidentified discharges from the site;
 - Any control measures needing maintenance or repair;
 - Any failed control measures that need replacement.
 - Any SWPPP changes required as a result of the inspection.
- vi. If during the inspections, or any other time, the permittee identifies control measures that need repair or are not operating effectively, the permittee shall repair or replace them before the next anticipated storm event if possible, or as soon as practicable following that storm event. In the interim, the permittee shall have back-up measures in place.
- c. The permittee shall report the findings from the Site Inspections in the annual report.
- d. The permittee must keep a written record of all required activities including but not limited to maintenance, inspections, and training required by Part 2.3.7.2. The permittee shall maintain all records associated with the development and implementation of the SWPPP required by this section consistent with the requirements of Part 4.2.1.

3.0 Additional State Requirements

3.1 Requirements for MS4s in New Hampshire

The permittee shall evaluate physical conditions, site design, and best management practices to promote ground water recharge and infiltration where feasible in the implementation of the control measures described in Part 2.3. The permittee shall address recharge and infiltration for the control measures, as well as any reasons for electing not to implement recharge and infiltration. Loss of annual recharge to ground water should be minimized through the use of infiltration to the maximum extent practicable. Any subsurface disposal of stormwater shall be in accordance with applicable groundwater, source water protection and underground injection control requirements (see Part 1.3.j).

Infiltration through stormwater practices shall be prohibited under certain circumstances, including:

- When stormwater originates from gasoline dispensing areas at locations with state registered underground storage tanks (UST) and above ground storage tanks (AST);
- Within groundwater protection areas (defined under Env-Wq 1502.24) when stormwater originates from land uses considered a “high load area” under Env-Wq 1502.26; and
- Within areas that have contaminants in groundwater above the ambient groundwater quality standards established in Env-Or 603.03 or in soil above site-specific soil standards developed pursuant to Env-Or 600.

The permittee is encouraged to adopt similar requirements or reference these state rule requirements under Env-Wq 1500 within local regulations for projects not subject to Env-Wq 1500.

3.1.1 - MS4s that discharge to coastal waters with public swimming beaches shall consider these waters a priority in implementation of the stormwater management program.

3.1.2 – If New Hampshire Department of Environmental Services (NH DES) determines that additional water quality certification requirements are necessary to protect water quality, it may require individual applicants to meet additional conditions to obtain or continue coverage under this permit. Any such conditions shall be supplied to the permittee in writing. Any required pollutant loading analysis and any designs for structural best management practices necessary to protect water quality shall be prepared by a civil or sanitary engineer registered in New Hampshire.

3.2 New Hampshire Public Drinking Water Requirements

3.2.1 – MS4s that discharge to public drinking water sources and their source protection areas must consider these sources priority resources when implementing the control measures of Part 2.3.

3.2.2 – Discharge to public drinking water supply sources and their protection areas must provide pretreatment and spill control suitable to protect drinking water sources to the extent feasible.

3.2.3 – The permittee shall avoid direct discharges to groundwater and surface water drinking water sources and ensure any discharges near source protection areas of water supply wells or intakes comply with the applicable state requirements. Stormwater systems shall meet the minimum discharge setback requirements of Env-Wq 1500 unless exempt under Env-Wq 1508.02(c). The following minimum setbacks apply to certain drinking water supply resources, including:

- Discharge setbacks from water supply wells in accordance with Env-Wq 1508.02(a); and
- Discharge setback of 100 feet within water supply intake protection areas as specified under Env-Wq 1508(b).

In groundwater protection areas and water supply intake protection areas, infiltration and filtration practices shall provide additional vertical separation to the seasonal high water table in accordance with Env-Wq 1500 within local regulations for projects not subject to Env-Wq 1500.

The permittee is encouraged to adopt similar requirements or reference these state rule requirements under Env-Wq 1500 within local regulations for projects not subject to Env-Wq 1500.

3.2.4 – The permittee shall develop and implement a plan to notify public water suppliers in the event of an emergency which has the potential to impact a water supply.

4.0 Program Evaluation, Record Keeping, and Reporting

4.1 Program Evaluation

4.1.1- The permittee shall annually self-evaluate its compliance with the terms and conditions of this permit. The permittee shall maintain the annual evaluation documentation as part of the SWMP.

4.1.2- The permittee shall evaluate the appropriateness of the selected BMPs in achieving the objectives of each control measure and the defined measurable goals. The permittee may change BMPs in accordance with the following provisions:

- Changes adding (but not subtracting or replacing) components or controls may be made at any time.
- Changes replacing an ineffective or infeasible BMP specifically identified in the SWMP with an alternative BMP may be made if the proposed changes meet the criteria below:

4.1.3 – BMP modification documentation shall include the following information and all documentation shall be kept in the SWMP:

- An analysis of why the BMP is ineffective or infeasible;
- Expectations on the effectiveness of the replacement BMP; and
- An analysis of why the replacement BMP is expected to achieve the defined goals of the BMP to be replaced.

The permittee shall indicate BMP modifications along with a brief explanation of the modification in each Annual Report.

4.1.4 - EPA or the state agency may require the permittee to add, modify, repair, replace or change BMPs or other measures described in the annual reports as needed:

- To address impacts to receiving water quality caused or contributed to by discharges from the MS4;
- To satisfy conditions of this permit;
- To include more stringent requirements necessary to comply with new state or federal legal requirements; or
- To include such other conditions deemed necessary to comply with the goals and requirements of the CWA.

Any changes requested by EPA or the state agency will be in writing and will set forth the schedule for the permittee to develop the changes and will offer the permittee the opportunity to propose alternative program changes to meet the objective of the requested modification.

4.2 Record Keeping

4.2.1 – The permittee shall keep all records required by this permit for a period of at least five years. Records include information used in the development of any written program required by this permit, any monitoring results, copies of reports, records of screening, follow-up and elimination of illicit discharges; maintenance records; inspection records; and data used in the development of the notice of intent, SWMP, SWPPP, and annual reports. This list provides examples of records that should be maintained, but is not all inclusive.

4.2.2- Records other than those required to be included in the annual report, Part 4.4, shall be submitted only when requested by the EPA or the state agency.

4.2.3 -The permittee shall make the records relating to this permit, including the written stormwater management program, available to the public. The public may view the records during normal business hours. The permittee may charge a reasonable fee for copying requests. The permittee is encouraged to satisfy this requirement by posting records online.

4.3 Outfall monitoring

4.3.1. The permittee shall monitor and sample its outfalls at a minimum through sampling and testing at the frequency and locations required in connection with IDDE screening under Part 2.3.4.8.d. through g. and 2.3.4.9.

- i. IDDE screening shall include collection of grab samples and analysis of said samples for E. coli (for freshwater receiving waters) or enterococcus (for saline or brackish receiving waters). Bacteria analysis shall be conducted using the analytical methods found in 40 CFR §136, or alternative methods approved by EPA in accordance with the procedures in 40 CFR §136. Other IDDE screening parameters shall be considered field screening and are not subject to 40 CFR §136 requirements.
- ii. If the discharge is directly into an impaired water, or if the discharge is subject to a waste load allocation in an approved TMDL as indicated in Appendix F, grab samples shall be collected concurrently with the IDDE investigation required by Part 2.3.4.8.e.(b) and analyzed for the pollutants identified as the cause of the impairment. The required pollutant analyses in connection with causes of impairment are provided in Appendix G.
- iii. The monitoring program may also include additional outfall and interconnection monitoring as determined by the permittee in connection with assessment of SWMP effectiveness pursuant to Part 4.1; evaluation of discharges to impaired waters pursuant to Part 2.2; assessment of BMP effectiveness pursuant to Part 2.2 or 2.3; or otherwise.

4.3.2. The permittee shall document all monitoring results each year in the annual report. The report shall include the date, outfall or interconnection identifier, location, weather conditions at time of sampling, precipitation in previous 48 hours, field screening parameter results, and results of all analyses. The annual report shall include all of this information and data for the current reporting period and for the entire permit period.

4.3.3. The permittee shall also include in the annual report results from any other stormwater or receiving water quality monitoring or studies conducted during the reporting period. If such monitoring or studies were conducted on behalf of the permittee, or if monitoring or studies conducted by other entities were reported to the permittee, a brief description of the type of information gathered or received shall be included in the annual report(s) covering the time period(s) the information was received.

4.4 Reporting

4.4.1 - The permittee shall submit an annual report. The reporting period will be a one year period commencing on the permit effective date, and subsequent anniversaries thereof, except that the first annual report under this permit shall also cover the period from May 1, [year of final permit issuance] to the permit effective date. The annual report is due ninety days from the close of each reporting period.

4.4.2 - The annual reports shall contain the following information:

4.4.2.1 - A self-assessment review of compliance with the permit terms and conditions.

4.4.2.2 -An assessment of the appropriateness of the selected BMPs.

4.4.2.3- The status of the any plans or activities required by Part 2.1 and/ or Part 2.2, including:

- Identification of all discharges determined to be causing or contributing to an exceedance of water quality standards and description of response including all items required by Part 2.1.1.c;
- For discharges subject to TMDLs, identification of specific BMPs used to address the pollutant identified as the cause of impairment and assessment of the BMPs effectiveness at controlling the pollutant (Part 2.2.1);
- For discharges to impaired waters and the nitrogen-impaired waters of the Great Bay watershed and their tributaries, a description of each WQRP including the items required by Part 2.2.2.c.; and
- For discharges to chloride impaired waters, identification of the specific BMPs used to address the pollutant and assessment of the BMPs effectiveness at controlling the pollutant.

4.4.2.4 - An assessment of the progress towards achieving the measurable goals and objectives of each control measure in Part 2.3 including:

- Evaluation of the public education program including a description of the targeted messages for each audience; method of distribution and dates of distribution; methods used to evaluate the program; and any changes to the program.
- Description of the activities used to promote public participation including documentation of compliance with state public notice regulations.
- Description of the activities related to implementation of the IDDE program including: status of the map; status and results of the illicit discharge potential ranking and assessment; identification of problem catchments; status of all

protocols described in Parts 2.3.4. (program responsibilities and systematic procedure); number and identifier of catchments evaluated; number and identifier of outfalls screened; number of illicit discharges located; number of illicit discharges removed; gallons of flow removed; identification of tracking indicators and measures of progress based on those indicators; and employee training.

- Evaluation of the construction runoff management including number of project plans reviewed; number of inspections; and number of enforcement actions.
- Evaluation of stormwater management for new development and redevelopment including status of ordinance development and review; status of the street design assessment; and information on directly connected impervious area reductions.
- Status of the O&M Programs required by Part 2.3.7.1.
- Status of SWPPP required by Part 2.3.7.2 including inspection results.
- Any additional reporting requirements in Part 3.0.

4.4.2.5 – All outfall screening and monitoring data collected by or on behalf of the permittee during the reporting period and cumulative for the permit term, including but not limited to all data collected pursuant to Parts 2.3.4 and 4.3. The permittee shall also provide a description of any additional monitoring data received by the permittee during the reporting period.

4.4.2.6 – Description of activities for the next reporting cycle.

4.4.2.7 – Description of any changes in identified BMPs or measurable goals.

4.4.2.8 – Description of activities undertaken by any entity contracted for achieving any measurable goal or implementing any control measure.

4.4.3 - Reports must be submitted to EPA following address:

United State Environmental Protection Agency
Stormwater and Construction Permits Section (OEP06-1)
Five Post Office Square, Suite 100
Boston, MA 02109

NHDES may request that the permittee submit reports to NHDES, upon receipt of this request the reports shall be sent to the following address:

NH Department of Environmental Services
Wastewater Engineering Bureau
Permits and Compliance Section
P.O. Box 95
Concord, NH 03302-0095

5.0 Non-Traditional MS4s

Non-traditional MS4s are MS4s owned and operated by the State of New Hampshire, counties or other public agencies within the State of New Hampshire, and properties owned and operated by the United States within the States of New Hampshire.

5.1. Requirements for Non-Traditional MS4s

All requirements and conditions of Parts 1 – 4 above apply to all Non-traditional MS4s, except as specifically provided below:

5.1.1 Public education: For the purpose of this permit, the audiences for a Non-traditional MS4 include the employees, clients and customers (including students at education MS4s) or visitors to the property, and any contractors working at the facility where the MS4 is located. The permittee may use some of the educational topics included in Part 2.3.2.1.c. as appropriate, or may focus on topics specific to the MS4. The permittee shall document the educational topics for each target audience in the SWMP and annual reports.

5.1.2 Ordinances and regulatory mechanisms: Some MS4s may not have authority to enact an ordinance, by-law, or other regulatory mechanisms. MS4s without the authority to enact an ordinance shall ensure that written policies or procedures are in place to address the requirements of Part 2.3.4.6.a., Part 2.3.5.3.a. and Part 2.3.6.3. They may rely on EPA, the State environmental agency or State Attorney General Office for enforcement assistance.

5.1.3 Assessment of Regulations: Non-traditional MS4s do not need to meet the requirements of Part 2.3.6.5. Non-traditional MS4s shall instead evaluate opportunities to include green infrastructure practices in new development and redevelopment at their facilities. Non-traditional MS4s shall evaluate opportunities to reduce the amount of impervious cover due to parking areas and walkways. Non-traditional MS4s shall report on these efforts in each annual report. The permittee shall also ensure adequate long-term operation and maintenance of stormwater management practices installed by the non-traditional MS4 or its agents.

5.1.4 Water Quality Based Requirements for New Dischargers

New MS4 facilities are subject to additional water quality-based requirements if they fall within the definition of “new dischargers” under 40 CFR § 122.2: “A new discharger is any building, structure, facility or installation (a) from which there is or may be a ‘discharge of pollutants’ (b) that did not commence the ‘discharge of pollutants’ at a particular ‘site’ prior to August 13, 1979; (c) which is not a ‘new source’; and (d) which never received a finally effective NPDES permit for discharges at that ‘site.’”

As used in the definition of “new discharger”, as it applies to a non-traditional MS4s authorized under this permit, the term “site” means the land area where the MS4 is located as of the effective date of this permit; and the same or contiguous land if any new structure, facility or installation that is served by the MS4 is created there after the effective date of this permit. Any new nontraditional MS4 facility, located on land that is not contiguous with an existing MS4 facility, is subject to the following requirements.

5.1.4.1 New Discharger to Impaired Waters without an Approved TMDL

New dischargers to impaired waters without an approved TMDL are not eligible for coverage under this permit. The permittee shall apply for an individual permit.

5.1.4.2 New Discharger to Impaired Waters with an Approved TMDL

New dischargers to impaired waters with an approved TMDL are not eligible for coverage under this permit unless the permittee submits to EPA, with its NOI, documentation that either:

- a. There are sufficient remaining pollutant load allocations in all TMDLs applicable to the discharges to allow for the discharge and the existing discharges to the waterbody are subject to compliance schedules designed to bring the waterbody into attainment with water quality standards; or
- b. To the extent consistent with law and EPA policy, the permittee establishes an offset for the discharge of the pollutant identified in the TMDL, and receives an affirmative determination from EPA that the new discharger meets the requirements of this paragraph.

The permittee shall retain any relevant documentation with the SWMP.

5.2 Federal MS4s

When a permittee is a federal agency, the requirements of Part 2.3.5.3 are modified as follows: the MS4 shall comply with §438 of the Energy Independence and Security Act, which provides: “The sponsor of any development or redevelopment project involving a federal facility with a footprint that exceeds 5,000 square feet shall use site planning, design, construction, and maintenance strategies for the property to maintain or restore to the maximum extent technically feasible, the predevelopment hydrology of the property with regard to the temperature, rate, volume, and duration of flow.” 42 U.S.C. § 17094. Federal MS4s are not required to adopt the design criteria set forth in the most recent version of the New Hampshire Stormwater Manual (<http://des.nh.gov/organization/divisions/water/stormwater/manual.htm>). Federal MS4s may, but are not required to, use the methods in EPA’s Section 438 guidance, available at <http://www.epa.gov/owow/NPS/lid/section438/>.

6.0 Requirements for Transportation Agencies

A transportation agency is the state agency responsible for operation and maintenance of the state owned roadways (New Hampshire Department of Transportation -NHDOT). All requirements and conditions of this permit apply with the following exceptions:

6.1 Public education: For the purpose of this permit, the audiences for a transportation agency education program include the general public (users of the roadways), employees, and any contractors working at the location. The permittee may use some of the educational topics included in Part 2.3.2.1.c. as appropriate, or may focus on topics specific to the agency. The permittee shall document the educational topics for each target audience.

6.2 Ordinances and regulatory mechanisms: The transportation agency may not have authority to enact an ordinance, by-law or other regulatory mechanisms. The agency shall ensure that written agency policies or procedures are in place to address the requirements of Part 2.3.4.6.a., Part 2.3.5.3.a. and Part 2.3.6.3. These agencies may rely on EPA or the State environmental agency for enforcement assistance.

6.3 Assessment of regulations: The requirements of Part 2.3.6.5 do not apply. The agency shall instead evaluate opportunities to include green infrastructure practices in new development and redevelopment at the facility. The agency shall evaluate opportunities to reduce the amount of impervious cover due to parking areas and walkways. The permittee shall report on these efforts in each annual report. The permittee shall also ensure adequate long-term operation and maintenance of stormwater management practices installed by the agency or its agents.

6.4 Water Quality Based Requirements for New Dischargers

New MS4 facilities are subject to additional water quality-based requirements if they fall within the definition of “new dischargers” under 40 CFR § 122.2: “A new discharger is any building, structure, facility or installation (a) from which there is or may be a ‘discharge of pollutants’ (b) that did not commence the ‘discharge of pollutants’ at a particular ‘site’ prior to August 13, 1979; (c) which is not a ‘new source’; and (d) which never received a finally effective NPDES permit for discharges at that ‘site.’

For purposes of this permit, in the definition of “new discharger” in 40 CFR § 122.2, as it applies to a transportation agency MS4, the term “site” means the land area where the MS4 is located as of the effective date of this permit; and the same or contiguous land if any new structure, facility or installation that is served by the MS4 is created thereafter the effective date of this permit. Any new transportation MS4 facility that is located on land that is not contiguous with an existing MS4 facility is subject to the following requirements.

6.4.1 New Discharger to Impaired Waters without an Approved TMDL

New dischargers to impaired waters without an approved TMDL are not eligible for coverage under this permit. The permittee shall apply for an individual permit.

6.4.2 New Discharger to Impaired Waters with an Approved TMDL

New dischargers to impaired waters with an approved TMDL are not eligible for coverage under this permit unless the permittee submits to EPA documentation before the date of authorization to discharge under this permit that either:

- a. There are sufficient remaining pollutant load allocations in all TMDLs applicable to the discharges to allow for the discharge and the existing discharges to the waterbody are subject to compliance schedules designed to bring the waterbody into attainment with water quality standards; or
- b. To the extent consistent with law and EPA policy, the permittee establishes an offset for the discharge of the pollutant identified in the TMDL, and receives an affirmative determination from EPA that the new discharger meets the requirements of this paragraph.

The permittee shall retain any relevant documentation with the SWMP.