Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part I: General Conditions

General Information

Name of Municipality or Organization: TOWN OF STRATHAM State: NH

EPA NPDES Permit Number (if applicable): NHR041000

Primary MS4 Program Manager Contact Information

Name: Paul R. Deschaine Title: TOWN ADMINISTRATOR

Street Address Line 1: 10 BUNKER HILL AVE

Street Address Line 2:

City: STRATHAM State: NH Zip Code: 03885

Email: PDESCHAINE@STRATHAMNH.GOV Phone Number: (603) 772-7391

Fax Number: (603) 775-0517

Other Information

Stormwater Management Program (SWMP) Location (web address or physical location, if already completed): N/A NOT COVERED UNDER 2003 PERMIT

Eligibility Determination

Endangered Species Act (ESA) Determination Complete? Yes

Eligibility Criteria (check all that apply): ☐ A ☐ B ☒ C

National Historic Preservation Act (NHPA) Determination Complete? Yes

Eligibility Criteria (check all that apply): ☐ A ☒ B ☐ C ☐ D

☐ Check the box if your municipality or organization was covered under the 2003 MS4 General Permit

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part II: Summary of Receiving Waters

Please list the waterbody segments to which your MS4 discharges. For each waterbody segment, please report the number of outfalls discharging into it and, if applicable, any impairments.

New Hampshire list of impaired waters: http://des.nh.gov/organization/divisions/water/wmb/swqa/

Check off relevant pollutants for discharges to impaired waterbodies (see above 303(d) lists) without an approved TMDL in accordance with part 2.2.2 of the permit. List any other pollutants in the last column, if applicable.

Waterbody segment that receives flow from the MS4	Number of outfalls into receiving water segment	Chloride	Chlorophyll-a	Dissolved Oxygen/ DO Saturation	Nitrogen	Oil & Grease/ PAH	Phosphorus	Solids/ TSS/ Turbidity	E. coli	Enterococcus	Other pollutant(s) causing impairments
NHEST600030806-01-02		☐	☒	☒	☒	☐	☐	☐	☐	☒	Dioxin (including 2, 3, 7, 8-TCDD), Estuarine Bioassessments, Light Attenuation Coefficient, Mercury, pH, Polychlorinated biphenyls
NHEST600030904-02		☐	☐	☐	☒	☐	☐	☐	☐	☒	Dioxin (including 2, 3, 7, 8-TCDD), Estuarine Bioassessments, Light Attenuation Coefficient, Mercury, pH, Polychlorinated biphenyls
NHRIV600030806-04	1	☒	☐	☐	☐	☐	☐	☐	☒	☐	Mercury
NHRIV600030806-14		☐	☐	☐	☐	☐	☐	☐	☒	☐	Mercury
NHRIV600030901-01		☐	☐	☒	☐	☐	☐	☐	☐	☐	Benthic-Macroinvertebrate Bioassessments (Streams), Mercury, pH
NHRIV600030901-02	11	☐	☐	☒	☐	☐	☐	☐	☐	☐	Mercury, pH
NHRIV600030901-07		☐	☐	☒	☐	☐	☐	☐	☐	☐	Mercury, pH
NHRIV600030901-01		☐	☐	☐	☐	☐	☐	☐	☐	☐	See Attached Sheet "Impaired Water Bodies- Stratham 2016" (Note 1)
		☐	☐	☐	☐	☐	☐	☐	☐	☐	
		☐	☐	☐	☐	☐	☐	☐	☐	☐	
		☐	☐	☐	☐	☐	☐	☐	☐	☐	
		☐	☐	☐	☐	☐	☐	☐	☐	☐	
		☐	☐	☐	☐	☐	☐	☐	☐	☐	
		☐	☐	☐	☐	☐	☐	☐	☐	☐	
		☐	☐	☐	☐	☐	☐	☐	☐	☐	

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

Click to lengthen table

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary

Identify the Best Management Practices (BMPs) that will be employed to address each of the six Minimum Control Measures (MCMs).

For each MCM, list each existing or proposed BMP by category and provide a brief description, responsible parties/departments, measurable goals, and the year the BMP will be employed (public education and outreach BMPs also requires a target audience). **Use the drop-down menus in each table or enter your own text to override the drop down menu.**

MCM 1: Public Education and Outreach

BMP Media/Category (enter your own text to override the drop down menu)	**BMP Description**	**Targeted Audience**	**Responsible Department/Parties** (enter your own text to override the drop down menu)	**Measurable Goal**	**Beginning Year of BMP Imple-mentation**
Various delivery methods -	Varied. Use NH Seacoast Stormwater Coaliton outreach materials and guidance to implement outreach for relevant impairments *See Note 2 in Section IV.	Residents	Public Works Dept. with Seacoast Stormwater Coalition	To be determined with coordination with NH Seacoast Stormwater Coalition. Examples1) Increased awareness of proper fertilizer use. 2) Increased awareness of pet waste impacts to water quality. 3) Increased awareness of yard waste impacts to water quality. 4) Increased septic system testing.	Year 1
Various delivery methods	Varied. Use NH Seacoast Stormwater Coaliton outreach materials and guidance to implement outreach for relevant impairments *See Note 2 in Section IV.	Businesses, Institutions and Commercial Facilities	Public Works Dept. with Seacoast Stormwater Coalition	To be determined with coordination with NH Seacoast Stormwater Coalition .	Year 1

Various delivery methods	Varied. Use NH Seacoast Stormwater Coaliton outreach materials and guidance to implement outreach for relevant impairments *See Note 2 in Section IV.	Developers (construction)	Public Works Dept. with Seacoast Stormwater Coalition	To be determined with coordination with NH Seacoast Stormwater Coalition .	Year 2
Not Applicable	N/A as no Industrial faciltities exist within MS4 area	Industrial Facilities (Not applicable as no industrial facilities exist in MS4 area)	Public Works Dept. with Seacoast Stormwater Coalition		N/A

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

MCM 2: Public Involvement and Participation

BMP Categorization	Brief BMP Description (enter your own text to override the drop down menu)	Responsible Department/Parties (enter your own text to override the drop down menu)	Additional Description/ Measurable Goal	Beginning Year of BMP Imple-mentation
Public Review	Make SWMP and annual reports available for public review.	Public Works Department or Select Board	Annual review of stormwater management plan and post on Town website, and at Town hall for public comment	Year 2
Public Participation	Implement 1 or more public participation events/activities annually	Public Works Department or Select Board	Public participation event(s) conducted	Year 2
	Annual Reporting	Public Works Department or Select Board	Annual reporting of public participation activity(ies) and public review/ comment on SWMP	Year 2

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

MCM 3: Illicit Discharge Detection and Elimination (IDDE)

BMP Categorization (enter your own text to override the drop down menu)	**BMP Description**	**Responsible Department/Parties** (enter your own text to override the drop down menu)	**Measurable Goal** (all text can be overwritten)
Not applicable: No public sewer infrastructure within Town	Develop SSO inventory in accordance of permit conditions	Public Works Department or Select Board	See Note 3 in Section IV. No known SSO exists.
Not applicable: No public sewer infrastructure within Town	Create map and update during IDDE program completion, update annually	Public Works Department or Select Board	See Note 3 in Section IV. No known SSO exists.
Written Illicit Discharge and Detection Elimination (IDDE) program development	Create written IDDE program	Public Works Department or Select Board	Complete within 1 year of the effective date of permit and update as required under sections 2.3.4.6-11
Implement IDDE program	Implement catchment investigations according to program and permit conditions	Public Works Department or Select Board	Complete 10 years after effective date of permit.
Implement employee training (if no employees, Select Board responsible)	Train employees in IDDE program implementation	Public Works Department or Select Board	Provide training annually
Conduct dry weather screening	Conduct in accordance with outfall screening procedure and permit conditions in section 2.3.4.7.b	Public Works Department or Select Board	Complete 3 years after effective date of permit, update annually and based on results of dry weather screening
Conduct wet weather screening	Conduct in accordance with outfall screening procedures in in section 2.3.4.7.b	Public Works Department or Select Board	Complete 10 years after effective date of permit
Ongoing screening	Conduct dry weather and wet weather screening (as necessary)	Public Works Department or Select Board	Complete ongoing outfall screening on completion of IDDE program

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

MCM 4: Construction Site Stormwater Runoff Control

BMP Categorization (enter your own text to override the drop down menu or entered text)	**BMP Description**	**Responsible Department/Parties** (enter your own text to override the drop down menu)	**Measurable Goal** (all text can be overwritten)
Implement site inspection and enforcement of erosion and sediment (ESC) control measures	Enact ESC Regulations	Planning Board/ Select Board through a public hearing process	Complete within 1 year of the effective date of permit
Prepare written procedures for Site Plan Review	Document procedures in regulations and begin implementation	Planning Board/ Select Board through a public hearing process	Complete within 1 year of the effective date of permit
Erosion and Sediment Control	Enact requirements for construction operators to implement a sediment and erosion control program	Planning Board/ Select Board through a public hearing process	Complete within 1 year of the effective date of permit
Construction and site waste controls	Enact requirements to control wastes, including but not limited to, discarded building materials, concrete truck wash out, chemicals, litter, and sanitary wastes	Planning Board/ Select Board through a public hearing process	Complete within 1 year of the effective date of permit

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

MCM 5: Post-Construction Stormwater Management in New Development and Redevelopment

BMP Categorization (enter your own text to override the drop down menu or entered text)	**BMP Description**	**Responsible Department/Parties** (enter your own text to override the drop down menu)	**Measurable Goal** (all text can be overwritten)
As-built plans for on-site stormwater controls	Enact procedures to require submission of as-built plans and ensure long term operations and maintenance part of the SWMP	Planning Board/ Select Board through a public hearing process	Require submission of as-built plans for completed projects.
Target properties for reduction in impervious cover	Complete an inventory and priority ranking of permitee-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	Town Engineer/ Public Works Director/ Road Agent	Complete 4 years after effective date of permit and report annually on retrofitted properties
Determine feasibility and allow for green infrastructure implementation	Report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist	Planning Board/ Select Board through a public hearing process	Complete 4 years after effective date of permit and implement recomendations of report
Street design and parking lot guidelines	Report assessing requirements that affect the creation of impervious cover. The assessment will help determine if changes to design standards for streets and parking lots can be modified to support low impact design options.	Planning Board/ Select Board through a public hearing process	Complete 4 years after effective date of permit and implement recommendations of report

Ensure stormwater controls or management practices for new development and redevelopment meet the retention and treatment requirements of the permit and consistent with the Southeast Watershed Alliance Model Stormwater Standards for Coastal Watershed Communities See Note 4 in Section IV.	Adoption, amendment or modification of a regulatory mechanism to meet permit requirements.	Town Engineer/ Public Works Director/ Road Agent	Complete 2 years after effective date of permit

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

MCM 6: Municipal Good Housekeeping and Pollution Prevention

BMP Categorization (enter your own text to override the drop down menu or entered text)	**BMP Description**	**Responsible Department/Parties** (enter your own text to override the drop down menu)	**Measurable Goal** (all text can be overwritten)	**Beginning Year of BMP Imple-mentation**
Operation and Maintenance (O&M) Procedures	Create written O&M procedures including all requirements contained in section 2.3.7.1 for parks and open spaces, buildings and facilities, and vehicles and equipment	Public Works Department or Select Board	Complete and implement 2 years after effective date of permit	Year 2
Inventory all permittee-owned parks and open spaces, buildings and facilities, and vehicles and equipment	Prepare inventory	Public Works Department or Select Board	Complete 2 years after effective date of permit and update inventory annually	Year 2
Infrastructure Operations and Maintenance	Establish and record annually implementation of program activities for maintenance, repair and rehabilitation of MS4 infrastructure	Public Works Department or Select Board	Complete 2 years after effective date of permit	Year 2
Stormwater Pollution Prevention Plan (SWPPP)	Create SWPPPs for municipal properties or individual facilities per requirements of section 2.3.7.2	Public Works Department or Select Board	Complete 2 years after effective date of permit	Year 2
Catch basin cleaning	Establish schedule for catch basin cleaning such that each catch basin is no more than 50% full and clean catch basins on that schedule, ensure proper storage of basin cleanings	Public Works Department or Select Board	Clean catch basins on established schedule and report number of catch basins cleaned and volume of material moved annually	Year 1

Street sweeping program	Sweep all (curbed) streets and permitee-owned parking lots in accordance with permit conditions	Public Works Department or Select Board	Sweep all streets and permitee-owned parking lots once per year in the spring	Year 1
Road salt use optimization and winter road maintenance program	Establish and implement a program to minimize the use of road salt and evaluate opportunities for use of alternative materials	Public Works Department or Select Board , Use Green SnowPro Progran	Implement salt use optimization program during deicing season	Year 2
Inspections and maintenance of stormwater treatment structures	Establish and implement inspection and maintenance procedures and frequencies	Public Works Department or Select Board with assistance from Planning	Inspect and maintain treatment structures at least annually	Year 1

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

Actions for Meeting Total Maximum Daily Load (TMDL) Requirements

Use the drop-down menus to select the applicable TMDL, action description to meet the TMDL requirements, and the responsible department/parties. If no options are applicable, or more than one, **enter your own text to override drop-down menus.** If submitting a NHDES approved alternative reduction plan, attach and submit it with the NOI.

Applicable TMDL	Action Description	Responsible Department/Parties (enter your own text to override the drop down menu)
New Hampshire Statewide (Bacteria)--Stuart Farm (non-MS4 Area)	Adhere to requirements in Part I.1 of Appendix F	Land Owner/State DES (See Note 5, Section IV)

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

Actions for Meeting Requirements Related to Water Quality Limited Waters

Use the drop-down menus to select the pollutant causing the water quality limitation and enter the waterbody ID(s) experiencing excursions above water quality standards for that pollutant. Choose the action description from the dropdown menu and indicate the responsible party. If no options are applicable, or more than one, **enter your own text to override drop-down menus.**

Pollutant	Waterbody ID(s)	Action Description	Responsible Department/Parties (enter your own text to override the drop down menu)
E. Coli	NHRIV600030806-04	Adhere to requirements in part III of Appendix H	Public Works, Select Board
Chloride	NHRIV600030806-04	Adhere to requirements in part IV of Appendix H	Public Works, Select Board
		Adhere to requirements in part I of Appendix H	
	ALL OTHER IDS from	Adhere to requirements in part I of Appendix H	See Note 6 in Section IV
		Adhere to requirements in part IV of Appendix H	
		Adhere to requirements in part III of Appendix H	
		Adhere to requirements in part V of Appendix H	
		Adhere to requirements in part V of Appendix H	

Part IV: Notes and additional information

Use the space below to indicate the part(s) of 2.2.2 that you have identified as not applicable to your MS4 and provide all supporting documentation below or attach additional documents if necessary.

Provide any additional information about your MS4 program below.

Note 1: See attached table for complete listing of all waterbodies found within municipal boundaries, impairment status, and listing of each waterbody's impairments (if any).

Note 2 - MCM 1Requires a minimum of two messages to the four audiences listed for a total of eight messages over permit term. Additional messaging may be required under Appendix H for Water Quality Limited Waterbodies.

Note 3 - If no sewer exists within the MS4 area then the measurable goal is that no known SSO exists.

Note 4 - The MODEL STORMWATER STANDARDS FOR COASTAL WATERSHED COMMUNITIES is available at: https://www.unh.edu/unhsc/sites/unh.edu.unhsc/files/Final_SWA_SWStandards_Dec_20121_0.pdf

Note 5- NHRIV600030806-14 and its TMDL, is within Stratham, but NOT within the MS4 area. The Town will include the property owner in public information dissemination regarding E. Coli as well as general BMP literature. Documentation of such literature will be noted in annual reporting starting Year 1 in conjunction with MCM 1, treating the Stuart Farm dairy as a commercial operation.

Note 6- Those Waterbody IDs listed in Part II and not specified in Part III will be treated as described in "General Note" (below) as they either do not have outfalls within the MS4 area OR , as is the case for NHRIV600030901-01 which is within the MS4, the known pollutants are not identified in Part III specific to Appendix H.

GENERAL NOTE: While the Town of Stratham has no public infrastructure (water/sewer), the Town intends to follow through with all public noticing, information dissemination, outfall mapping (within MS4 area), and other such parameters of the MS4 permit. Documentation of all ongoing efforts to reduce stormwater, including water quality tests, being conducted by the Town are available at: www.strahtamnh.gov .

Part V: 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 gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than 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.

Name:	Paul R. Deschaine	Title:	Town Administrator
Signature:		Date:	09/17/18

[To be signed according to Appendix B, Subparagraph B.11, Standard Conditions]

Note: When prompted during signing, save the document under a new file name

Impaired Water Bodies - Stratham, 2016

AUID	AUID Label	Waterbody Name	Impairment Level	Parameter Type	Parameter Level	2012 Effective	In MS4
NHEST600030806-01-01	E*0806-01-01	SQUAMSCOTT RIVER SOUTH	5-P	Acenaphthene	5-M		Yes
				Acenaphthylene	5-M		
				Aluminum	5-M		
				Anthracene	5-M		
				Arsenic	5-M		
				Benzo(a)pyrene (PAHs)	5-M		
				Benzo[a]anthracene	5-M		
				Cadmium	5-M		
				Chlorophyll-a	5-P		
				Chrysene (C1-C4)	5-M		
				Copper	5-M		
				Dibenz[a,h]anthracene	5-M		
				Dioxin (including 2,3,7,8-TCDD)	5-M		
				Dissolved oxygen saturation	5-P		
				Enterococcus	4A-M		
				Fluoranthene	5-M		
				Fluorene	5-M		
				Lead	5-M		
				Mercury	5-M		
				Nickel	5-M		
				Nitrogen (Total)	5-P		
				Oxygen, Dissolved	5-P		
				Phenanthrene	5-M		
				Polychlorinated biphenyls	5-M		
				Pyrene	5-M		
				trans-Nonachlor	5-M		
				Zinc	5-M		
NHEST600030806-01-02	E*0806-01-02	SQUAMSCOTT RIVER NORTH	5-P	Chlorophyll-a	5-P		Yes
				Dioxin (including 2,3,7,8-TCDD)	5-M		
				Dissolved oxygen saturation	5-M		
				Enterococcus	4A-P		
				Mercury	5-M		
				Nitrogen (Total)	5-P		
				Oxygen, Dissolved	5-P		
				pH	5-M		
				Polychlorinated biphenyls	5-M		
NHEST600030904-02	E*0904-02	GREAT BAY PROHIB SZ1	5-P	Dioxin (including 2,3,7,8-TCDD)	5-M	Yes	Yes
				Enterococcus	4A-P		
				Estuarine Bioassessments	5-P		
				Light Attenuation Coefficient	5-M		
				Mercury	5-M		
				pH	5-M		
				Polychlorinated biphenyls	5-M		
NHRIV600030806-04	R*04	PARKMAN BROOK	5-M	Chloride	5-M		Yes
				Escherichia coli	4A-P		
				Mercury	4A-M		
NHRIV600030806-14	R*14	STUART DAIRY FARM BROOK	4A-M	Escherichia coli	4A-M		No
				Mercury	4A-M		

NOTE (1) page 1/2

Impaired Water Bodies - Stratham, 2016

AUID	AUID Label	Waterbody Name	Impairment Level	Parameter Type	Parameter Level	2012 Effective	In MS4
NHRIV600030901-01	R*01	WINNICUT RIVER - UNNAMED BROOK - CORNELIUS BROOK	5-P	Benthic-Macroinvertebrate Bioassessments (Streams)	5-P		Yes
				Dissolved oxygen saturation	5-M		
				Mercury	4A-M		
				Oxygen, Dissolved	5-P		
				pH	5-M		
NHRIV600030901-02	R*02	WINNICUT RIVER - BARTON BROOK - MARSH BROOK - THOMPSON BROOK	5-P	Escherichia coli	4A-M		Yes
				Mercury	4A-M		
				Oxygen, Dissolved	5-P		
NHRIV600030901-07	R*07	WINNICUT RIVER - UNNAMED BROOK	5-P	Dissolved oxygen saturation	5-M		Yes
				Mercury	4A-M		
				Oxygen, Dissolved	5-P		
				pH	5-M		

Note (1) page 2/2