TOWN OF EXETER, NEW HAMPSHIRE

JUNE 2019

EPA NPDES Permit Number: NHR041007

Stormwater Management Program (2017 NH Small MS4 General Permit)

STORMWATER MANAGEMENT PROGRAM (SWMP)

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SECTION 1

GENERAL STORMWATER MANAGEMENT

1.1 BACKGROUND

The Stormwater Phase II rule was promulgated in 1999 and was the next step after the 1987 Phase I rule in EPA's effort to preserve, protect, and improve the nation's water resources from polluted stormwater runoff. The Phase II program expands the Phase I program by requiring additional operators of MS4s in urbanized areas through the use of a NPDES permit, to implement programs and practices to control polluted stormwater runoff. Phase II is intended to further reduce adverse impacts to water quality and aquatic habitat by instituting the use of controls on the unregulated sources of stormwater discharges that have the greatest likelihood of causing continued environmental degradation. Under the Phase II rule all MS4s with stormwater discharges from census-designated urbanized areas are required to seek NPDES permit coverage for those stormwater discharges.

On May 1, 2003, EPA Region 1 issued its final General Permit for Stormwater Discharges from Small Municipal Separate Storm Sewer Systems (2003 Small MS4 General Permit) consistent with the Phase II rule. The 2003 Small MS4 General Permit covered "traditional" (i.e. cities and towns) and "non-traditional" (i.e. federal and state agencies) MS4 operators located in the states of Massachusetts and New Hampshire. This permit expired on May 1, 2008, but remained in effect until operators were authorized under the 2017 NH Small MS4 General Permit, which became effective on July 1, 2018.

The Stormwater Management Program (SWMP) describes and details the activities and measures that will be implemented to meet the terms and conditions of the 2017 NH Small MS4 General Permit. The SWMP document should be updated and/or modified during the permit term as activities are modified, changed, or updated to meet permit conditions. The main elements of the SWMP are (1) a public education program in order to affect public behavior causing stormwater pollution, (2) an opportunity for the public to participate and provide comments on the stormwater program, (3) a program to effectively find and eliminate illicit discharges within the MS4, (4) a

program to effectively control construction site stormwater discharges to the MS4, (5) a program to ensure that stormwater from development projects entering the MS4 is adequately controlled by the construction of stormwater controls, and (6) a good housekeeping program to ensure that stormwater pollution sources on municipal properties and from municipal operations are minimized.

1.2 TOWN PROFILE

Government:

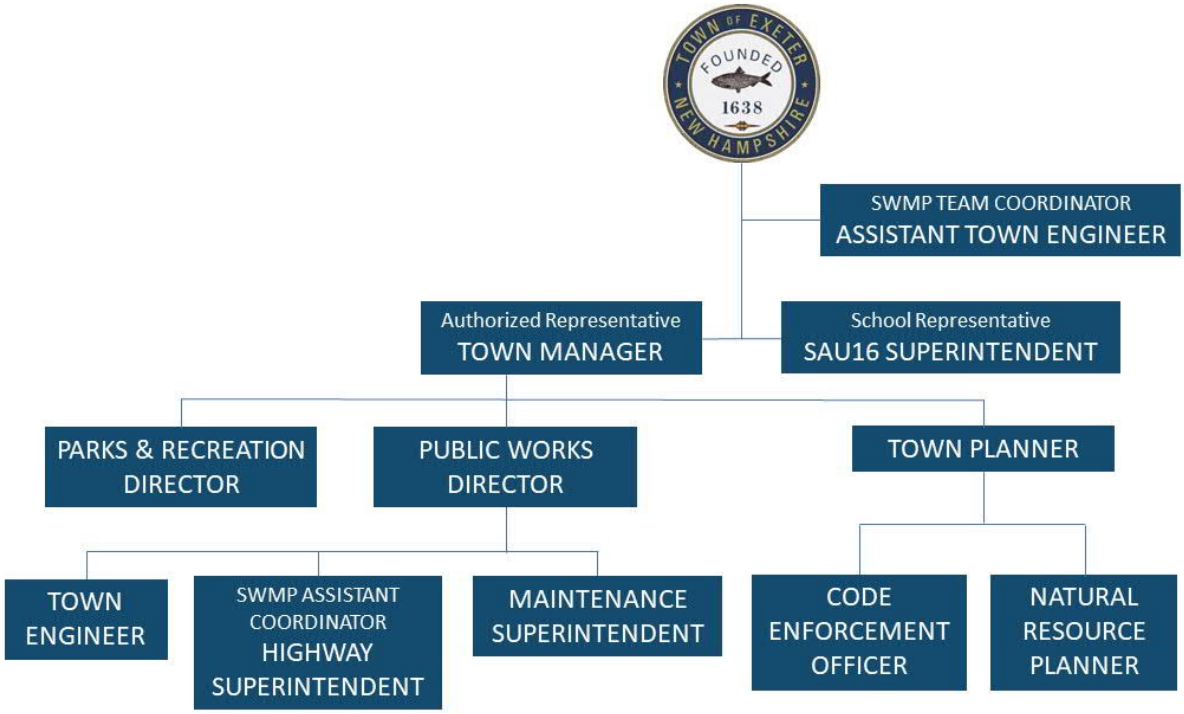
Type:	Select Board and Town Manager Open Town Meeting
Address:	Town of Exeter 10 Front Street Exeter, NH 03833
County:	Rockingham

Demographics:

Population:	14,690 (2016)
Land Area:	20 square miles
Significant Local Waters:	Listed in Section 1.5
MS4 Interconnections:	NH Department of Transportation Town of Brentwood (exempt) Town of East Kingston (exempt) Town of Epping (exempt) Town of Hampton Town of Kingston Town of Newfields (exempt) Town of North Hampton (exempt) Town of Stratham

1.3 SWMP TEAM

The SWMP team is comprised of Town personnel from various Departments and is illustrated by position in the chart below. Personnel contact information for the positions illustrated in the SWMP Team chart are listed in the table on the following page.



SWMP Team Personnel Contact Information (latest revision 12/18)	
Assistant Town Engineer	Jennifer Mates, PE Department of Public Works 603-418-6431 jmates@exeternh.gov
Town Manager	Russell Dean Town of Exeter 603-778-0591 rdean@exeternh.gov
Public Works Director	Jennifer Perry, PE Department of Public Works 603-773-6157 jperry@exeternh.gov
Highway Superintendent	Jay Perkins Department of Public Works 603-773-6163 jperkins@exeternh.gov
Town Engineer	Paul Vlasich, PE Department of Public Works 603-773-6157 pvlasich@exeternh.gov
Engineering Technician	Daniel Lewis Department of Public Works 603-772-1345 dlewis@exeternh.gov
Town Planner	Dave Sharples Planning Department 603-773-6114 dsharples@exeternh.gov
Natural Resource Planner	Kristen Murphy Planning Department 603-418-6452 kmurphy@exeternh.gov

1.4 MS4 CERTIFICATION AND AUTHORIZATION

1.4.1 Small MS4 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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Printed Name	Russell Dean, Town Manager		
Signature		Date	

1.4.2 Small MS4 Authorization

The NOI was submitted on September 28, 2018

The NOI can be found at the following web address:

https://www.exeternh.gov/publicworks/stormwater

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

May 14, 2019

The Authorization Letter can be found at the following web address:

https://www.exeternh.gov/publicworks/stormwater

1.4.3 Notice of Intent (NOI) for Coverage

A copy of the Notice of Intent (NOI) for coverage, and attachments, as submitted to EPA, can be found at the following web address:

https://www.exeternh.gov/publicworks/stormwater

1.4.4 Eligibility: Endangered Species and Historic Properties

The Town of Exeter has completed the screenings for threatened or endangered species and designated critical habitat within the regulated MS4 area in accordance with the procedures outlined in Appendix C of the 2017 NH Small MS4 General Permit. The Town has determined that the stormwater discharges and discharge related activities covered under the permit are not likely to adversely affect federally threatened or endangered species or designated critical habitat. The Town certified Endangered Species Act (ESA) Eligibility under Criterion C on the Notice of Intent (NOI) for Coverage submitted to EPA in September of 2018.

There is no federally designated critical habitat in Rockingham County, New Hampshire; therefore, there is no designated critical habitat within the regulated MS4 area of the Town of Exeter. The latest county species list for Rockingham County was consulted in August of 2018. The Listed Endangered Species are noted in Table 1-1.

TABLE 1-1

LISTED ENDANGERED SPECIES FOR ROCKINGHAM COUNTY, NH

Group	Species Common Name	Species Scientific Name	Status
Bird	Piping Plover	Charadrius melodus	Threatened
Bird	Roseate Tern	Sterna dougallii	Endangered
Bird	Red Knot	Calidris canutus rufa	Threatened
Flowering Plant	Small Whorled Pogonia	Isotria medeoloides	Threatened
Mammals	Northern Long-Eared Bat	Myotis septentrionalis	Threatened
Reptiles	Hawksbill Sea Turtle	Eretmochelys imbricata	Endangered
Reptiles	Leatherback Sea Turtle	Dermochelys coriacea	Endangered

Upon further review and consultation with the United States Fish and Wildlife Service (USFWS), it was determined that the Northern Long-Eared Bat is the only threatened or endangered species

located within the regulated MS4 area of Exeter. The Official Species List from the USFWS was provided to EPA as an attachment to the NOI, which can be found at the following web address: https://www.exeternh.gov/publicworks/stormwater. The stormwater discharges from the MS4 and discharge-related activities are not likely to impact the hibernacula (e.g. caves) of the Northern Long-Eared Bat. The Town does not have major construction activities planned for compliance with the 2017 NH Small MS4 General Permit; however, some tree removal may be required for system maintenance. Where tree removal is required, such activities will take place during the winter months (November - March).

The Town of Exeter has completed the screening for historic properties within the regulated MS4 area in accordance with the procedures outlined in Appendix D of the 2017 NH Small MS4 General Permit. The Town has determined that the stormwater discharges and discharge related activities covered under the permit do not have the potential to have an effect on historic properties. The Town of Exeter addressed the National Historic Preservation Act (NHPA) issues under the 2003 NH Small MS4 Permit and previously certified that their existing discharges were not affecting historic properties. At this time, the Town has no plans to construct or install new stormwater control measures that cause less than one acre of subsurface disturbance. The Town certified NHPA Eligibility under Criterion A on the Notice of Intent (NOI) for Coverage submitted to EPA in September of 2018.

The Town of Exeter has obtained a list of Determination of Eligibility Decisions from the New Hampshire Division of Historical Resources NHDHR dated December 2018. This list is provided on the following pages. During annual evaluations of Exeter's Stormwater Management Program, the Town may develop a plan to construct or install a new stormwater control measure. Where new stormwater control measures are proposed, specific sites will be reviewed against this list and, if necessary, the Town will consult with the NHDHR.

RECORD OF NHDHR DETERMINATION OF ELIGIBILITY DECISIONS - by Town

Print Date: December 6, 2018

Town/City	Inventory #	"Property Name", Address	Program	DOE DATE	DOE Evaluation	CRITERIA
Exeter	EXE0027	"Wholley House", 1 Birch Road	DOT Department of Transportation	1/28/1991	Not evaluated as a district Review again, once 50 years old	
Exeter	EXE0040	"Mast Swamp School", 10 Beech Hill Road Extension	DOT Department of Transportation	1/30/1991	Not evaluated as a district Not eligible for NR	
Exeter	EXE0014	"Gideon C. Lyford/Frank Marcoaldi House", 11 Newfields Road	FERC	5/27/1998	Not evaluated as a district Not eligible for NR	
Exeter	EXE0099	"Squamscott Block", 130 Water Street		7/12/2006	Contributes to a State Register/eligi Contributes to a National Register/e	
Exeter	EXE0007	"House", 14 Garrison Lane	FERC	5/27/1998	Not evaluated as a district Not eligible for NR	
Exeter	EXE0083	"Jerry T. Flynn House", 148 Portsmouth Avenue	DOT Department of Transportation	3/13/1991	Not evaluated as a district Not eligible for NR	
Exeter	EXE0018	"House", 15 South Street	HUD HOME	10/8/1997	Not eligible for either NR or SR	
Exeter	EXE0082	"House", 150 Portsmouth Avenue	DOT Department of Transportation	3/13/1991	Not evaluated as a district Not eligible for NR	
Exeter	EXE0020	"Exeter Banking Co.", 154 Water Street	HUD	6/28/2006	Contributes to a State Register/eligi Contributes to a National Register/e	A/C
Exeter	EXE0021	"Exeter News-Letter Building", 156 Water Street	HUD	6/28/2006	Contributes to a State Register/eligi Contributes to a National Register/e	A/C
Exeter	EXE0016	"House", 16 School Street	HUD HOME	10/8/1997		

Town/City	Inventory #	"Property Name", Address	Program	DOE DATE	DOE Evaluation	CRITERIA
Exeter	EXE0019	"Folsom Tavern", 164 Water Street	LCHIP State Register	8/22/2018	Contributes to a National Register/e State Register eligible, individually	A/C
Exeter	EXE0017	"House", 17 School Street	HOME	10/11/1995	Not evaluated as a district Not eligible for NR	
Exeter	EXE0008	"House", 18 Garrison Lane	FERC	5/27/1998	Not evaluated as a district Not eligible for NR	
Exeter	EXE0080	"Gilman-Ranlet-Thyng House", 183 Epping Road	DOT Department of Transportation	3/13/1991	National Register eligible, individuall Not evaluated as a district	A/B
Exeter	EXE0005	"House", 19 Garfield Street	HUD HOME Belknap-Merrimack Community Action Progra	10/8/1997	Not eligible for NR	
Exeter	EXE0081	"John Watson, Jr. House", 191 Epping Road	DOT Department of Transportation	3/13/1991	National Register eligible, individuall Not evaluated as a district	A
Exeter	EXE0041	"S. A. Cronin House", 199 Epping Road	DOT Department of Transportation	1/28/1991	Not evaluated as a district Not eligible for NR	
Exeter	EXE0013	"Fort Rock Farm - The Ambrose Swasey Estate", 2 Newfields Road	FERC	5/27/1998	National Register eligible, individuall Not evaluated as a district	A/B/C
Exeter	EXE0043	"Exeter Great Dam", 200 ft downstream of High Street Bridge	NOAA	5/23/2012	Contributes to a National Register/e	
Exeter	EXE0039	"Winston Ewdwards Jr. House", 210 Epping Road	DOT Department of Transportation	1/28/1991	Not evaluated as a district Not eligible for NR	
Exeter	EXE0036	"Charles Pike House", 253 Epping Road	DOT Department of Transportation	1/28/1991	Not evaluated as a district Not eligible for NR	
Exeter	EXE0045	"House", 257 Eping Road	DOT Department of Transportation	1/28/1991	Not evaluated as a district Not eligible for NR	

Town/City	Inventory #	"Property Name", Address	Program	DOE DATE	DOE Evaluation	CRITERIA
Exeter	EXE0034	"John Bernier House", 264 Epping Road	DOT Department of Transportation	1/28/1991	Not eligible for NR Not eligible for NR	
Exeter	EXE0033	"Reginald Chapman House", 266 Epping Road	DOT Department of Transportation	1/28/1991	Not evaluated as a district Not eligible for NR	
Exeter	EXE0032	"Daniel Dennehy House", 270 Epping Road	DOT Department of Transportation	1/28/1991	Not evaluated as a district Not eligible for NR	
Exeter	EXE0031	"Kenneth Palmer House", 280 Epping Road	DOT Department of Transportation	1/28/1991	Not evaluated as a district Not eligible for NR	
Exeter	EXE0030	"Brentwood Animal Hospital", 299 Epping Road	DOT Department of Transportation	1/28/1991	Not evaluated as a district Not eligible for NR	
Exeter	EXE0029	"George Stockell House", 304 Epping Road	DOT Department of Transportation	1/28/1991	Not evaluated as a district Not eligible for NR	
Exeter	EXE0028	"Eastman Brothers Farm", 317 Epping Road	DOT Department of Transportation	1/28/1991	National Register eligible, individuall Not evaluated as a district	A
Exeter	EXE0003	"Lt. David Fogg House", 37 Ashbrook Road	Federal Highway, NH Dept. of Transportation	6/27/2001	More information needed	
Exeter	EXE0048	"Jubal Martin", 4 Pine Road	DOT Department of Transportation	3/13/1991	National Register eligible, individuall Not evaluated as a district	A/B
Exeter	EXE0011	"Exeter Handkerchief Company", 48-50 Lincoln Street	Federal Highway, NH Dept. of Transportation	6/23/1999	Contributes to a National Register/e	A
Exeter	EXE0001	"House", 52 Lincoln Street	NH State Council on the Arts	5/3/2000	More information needed	
Exeter	EXE0004	"Jankousky House", 61 Brentwood Road (Route 111A)	FERC	5/27/1998	National Register eligible, individuall Not evaluated as a district	A
Exeter	EXE0002	"Wiggin-Raynes Barn and Farmland", 61 Newfields Road	LCHIP	10/11/2017	Not evaluated as a district State Register eligible, individually	A/C

Town/City	Inventory #	"Property Name", Address	Program	DOE DATE	DOE Evaluation	CRITERIA
Exeter	EXE0012	"Lamson Pottery Works Buildings", 80, 84 Main Street	FDIC	5/11/1994	Not evaluated as a district Not eligible for NR	
Exeter	EXE0044	"House", 9 Old Town Farm Road	DOT Department of Transportation	1/28/1991	Not evaluated as a district Not eligible for NR	
Exeter	EXE0038	"Arthur J. Conner Tennant House", Beech Hill Extension	DOT Department of Transportation	1/30/1991	National Register eligible, individuall Not evaluated as a district	C
Exeter	EXE0037	"Conner Homestead", Beech Hill Road Extension	Other	4/24/2013	National Register eligible, individuall State Register eligible, individually	C/D
Exeter	EXE0042	"Winter Street Cemetery", Front Street, Winter Street, Railroad Avenue	Certified local government project	10/26/2011	National Register eligible, individuall State Register eligible, individually	A/C
Exeter	EXE0095	"Cemetery", Guinea Road	DOT Department of Transportation	3/13/1991	Not evaluated as a district Not eligible for NR	
Exeter	EXE0015	"House", Prospect Avenue	USDA/RECD	6/22/1994	Not evaluated as a district Not eligible for NR	
Exeter	EXE0084	"String Bridge", String Bridge Street over Squamscott River	DOT Department of Transportation	4/22/2015	Contributes to a National Register/e National Register eligible, individuall	A/C
Exeter	EXE0110	"Swasey Parkway", Water St	EPA	3/8/2017	National Register eligible, individuall	A/C

1.5 REGULATED AREA AND EXETER LANDSCAPE

1.5.1 EPA Regulated Area/Urbanized Area

As an owner responsible for operation and maintenance of a Municipal Separate Storm Sewer System (MS4) that discharges stormwater to waters of the United States, the Town of Exeter is required to obtain coverage under the 2017 NH Small MS4 General Permit. This coverage applies to the Regulated Area, which is defined as the Urbanized Area as determined by the cumulation of the 2000 and 2010 Census data from the United States Census Bureau. Urbanized Areas constitute the largest and most dense areas of settlement. The Regulated Area of Exeter is shown on a map developed by EPA, which can be found at the following web address: https://www.epa.gov/npdes-permits/regulated-ms4-new-hampshire-communities. The population within the Exeter Regulated Area is approximately 11,800 as estimated from the 2010 Census.

There are portions of Exeter that fall outside of the Regulated Area. Many of the policies and regulations adopted under the SWMP will be applied town-wide in efforts to protect or improve the quality of waterbodies and natural resources throughout the town. Due to limited staff and funding, the data collection and record keeping will focus on the Regulated Area first, to ensure compliance with the requirements of the 2017 NH Small MS4 General Permit. As time, funds, and staff availability allow, the Town will continue data collection and implementation in areas throughout the Town.

1.5.2 Significant Water Resources

The quality of waterbodies in Seacoast New Hampshire, fresh and marine alike, have been at the forefront of discussions across the Great Bay region for many years. The Town of Exeter has taken an active role in these discussions and will continue to do so into the future. The Town has made a concerted effort to minimize stormwater impacts and reduce pollutants discharged to its waterbodies and resource areas through implementation of regulatory policies, participation in collaborative workgroups, and completion of various studies and construction projects.

All waterbodies within the town boundary, including those receiving stormwater discharges from the MS4, are listed in Table 1-2 on the following pages. Additionally, a map showing these receiving waterbodies, impairment category, and the Regulated Area for Exeter was prepared by

TABLE 1-2

RECEIVING WATERS

The following table lists all receiving waters, impairments, and number of outfalls discharging to each waterbody segment. This information can also be found in the NOI at the following web address: https://www.exeternh.gov/publicworks/stormwater

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
Colcord Pond (NHLAK600030804-01)	1	☐	☐	☒	☐	☐	☐	☐	☐	☐	
Little River (NHRIV600030804-10)	0	☐	☐	☒	☐	☐	☐	☐	☐	☐	pH
Little River – Scamen Brook (NHRIV600030804-11)	41	☐	☐	☒	☐	☐	☐	☐	☐	☐	pH
Unnamed Brook (NHRIV600030804-12)	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Exeter River (NHRIV600030805-02)	2	☐	☐	☒	☐	☐	☐	☐	☒	☐	pH
Great Brook – Unnamed Brook (NHRIV600060805-07)	0	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Unnamed Brook – To Exeter River (NHRIV600030805-08)	14	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Exeter River (NHRIV600030805-09)	0	☐	☐	☒	☐	☐	☐	☐	☐	☐	pH
Unnamed Brook (NHRIV600060805-14)	0	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Perkins Brook – Unnamed Brook (NHRIV600030805-15)	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Unnamed Brook (NHRIV600030805-16)	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Unnamed Brook (NHRIV600030805-17)	0	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Unnamed Brook (NHRIV600030805-18)	3	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Unnamed Brook (NHRIV600030805-19)	0	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Unnamed Brook (NHRIV600030805-20)	0	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Exeter River (NHRIV600030805-32)	11	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Squamscott River South (NHEST600030806-01-01)	27	☐	☒	☒	☒	☒	☐	☐	☐	☒	Aluminum, Arsenic, Cadmium, Copper, Lead, Nickel, Zinc
Wheelwright Creek – Exeter Res (NHIMP600030806-02)	5	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Clemson Pond (NHIMP600030806-08)	0	☐	☐	☐	☐	☐	☐	☐	☒	☐	

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**
Norris Brook (NHRIV600030806-01)	1	☐	☐	☐	☐	☐	☐	☐	☒	☐	
Norris Brook (NHRIV600030806-02)	5	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Dearborn Brook – Unnamed Brook (NHRIV600030806-03)	2	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Harkman Brook (NHRIV600030806-04)	0	☒	☐	☐	☐	☐	☐	☐	☒	☐	
Unnamed Brook (NHRIV600030806-17)	0	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Unnamed Brook (NHRIV600060806-18)	0	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Unnamed Brook (NHRIV600030806-19)	0	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wheelwright Creek (NHRIV600030806-26)	14	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Taylor River - Ash Brook (NHRIV600031003-06)	3	☐	☐	☐	☐	☐	☐	☐	☐	☐	
		☐	☐	☐	☐	☐	☐	☐	☐	☐	
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the Rockingham and Strafford Regional Planning Commissions as part of a collaborative mapping effort led by the Seacoast Stormwater Coalition. This map can be found at the following web address: https://www.exeternh.gov/publicworks/stormwater.

The Town of Exeter has been studying the Squamscott and Exeter Rivers because of a condition set in the Wastewater Treatment Facility (WWTF) permit. That permit imposes stringent discharge limits on nitrogen and requires development of a total nitrogen non-point source (NPS) and point source accounting system, development of a nitrogen control plan, and a description of activities conducted which affect nitrogen in the Squamscott and Exeter Rivers. The Nitrogen Control Plan for the Town of Exeter, prepared by Wright-Pierce and the Horsley Witten Group, was completed in September of 2018 and can be found at the following web address: https://www.exeternh.gov/publicworks/stormwater.

The Town of Exeter participated in the Great Bay Pollution Tracking and Accounting Pilot Program (PTAPP) facilitated by the New Hampshire Department of Environmental Services (NHDES). The purpose of PTAPP is to enable coordination on nitrogen tracking and accounting for the Great Bay region. The Town developed an accounting worksheet to track land use, which was incorporated into the PTAPP program and is currently being used in Exeter.

The Town of Exeter participated in a Water Integration for the Squamscott and Exeter River (WISE) study over the past several years which addresses some water quality issues and pollutants in stormwater discharges. Officials from the Towns of Exeter, Stratham, and Newfields worked with a team from Geosyntec Consultants, the University of New Hampshire (UNH), Rockingham Planning Commission, Consensus Building Institute, and the Great Bay National Estuarine Research Reserve to develop the study. The WISE group studied integrated planning opportunities with neighboring communities to meet regulatory requirements for treating and discharging stormwater and wastewater and to find effective and affordable means to meet water quality goals. Information presented in the final WISE report (December 2015) has been and is used to develop water quality improvement strategies for the largest urbanized watershed in town.

The Exeter River had an impounded reach within the Town of Exeter that was listed on the 2014 (and prior) NH 303(d) List of Impaired Waters. The Exeter River Dam impoundment (NHIMP600030805-04) was listed as impaired due to chlorophyll-a, E. Coli, dissolved oxygen,

and pH. The dam was removed in the summer of 2016 and the river was restored to fully support designated uses of aquatic life use and primary contact recreation. Additionally, without the impoundment, the river will be free of water quality impediments to fish migration and will be allowed to return to a state of geomorphic equilibrium. This segment of the Exeter River is now associated with a different assessment unit ID (NHRIV600030805-32) and the only impairment listed is due to mercury. A monitoring plan was developed with the New Hampshire Fish & Game (NHFG) Department, New Hampshire Department of Environmental Services (NHDES), and National Oceanic and Atmospheric Administration (NOAA) and has been implemented to monitor river conditions and fish passage for up to five years from completion of construction.

In addition to the significant waterbodies described above, there are several public water systems (PWS) that may be impacted by MS4 discharges. These systems are listed in Tables 1-3 and 1-4.

TABLE 1-3

TOWN-OWNED PUBLIC WATER SYSTEM

Town-Owned Public Water System	EPA Public Water System #	System Category	Source Type
Exeter River	0801010	Major CWS	Surface Water
Exeter Reservoir fed Dearborn Brook	0801010	Major CWS	Surface Water
Skinner Springs	0801010	Major CWS	Groundwater
Lary Lane Well	0801010	Major CWS	Groundwater
Stadium Well	0801010	Major CWS	Groundwater
Gilman Well	0801010	Major CWS	Groundwater

TABLE 1-4

NON-MUNICIPAL PUBLIC WATER SYSTEMS

Non-Municipal Public Water Systems	EPA Public Water System #	System Type	Source Type
Pickpocket Woods	0802010	Community System	Groundwater
Exeter Highlands	0802020	Community System	Groundwater
Louisburg Circle	0802030	Community System	Groundwater
PEU/Forest Ridge	0802040	Community System	Groundwater
Exeter River Mobile Home Park	0803020	Community System	Groundwater
Landing at Exeter River	0803030	Community System	Groundwater
Beech Hill Park	0803040	Community System	Groundwater
Icey Hill Cooperative	0803050	Community System	Groundwater
Building Block School	0805010	Non-Transient Non-Community	Groundwater
Exeter United Methodist Church	0805030	Non-Transient Non-Community	Groundwater
Exeter High School	0805040	Non-Transient Non-Community	Groundwater
Exeter Public Works Complex	0806020	Non-Transient Non-Community	Groundwater
Green Gate Camping Area	0807010	Transient Non-Community	Groundwater
Exeter Elms Campground	0807020	Transient Non-Community	Groundwater
Mobil on the Run	0808030	Transient Non-Community	Groundwater
Buxton Water	0809030	Transient Non-Community	Groundwater

1.5.3 Local Ordinances/Regulations

The Town of Exeter has had ordinances and regulations in place to address stormwater management for many years and periodically revises these standards to adapt to changing regulatory and environmental climates. The Department of Public Works and Planning Department regularly collaborate on and participate in various local and regional initiatives to help shape stormwater management policies and regulations in Seacoast New Hampshire.

Exeter's stormwater ordinances and regulations are enforced by the Building Department, Zoning Board of Appeals, Planning Board and the Conservation Commission. Compliance inspections are performed by the Building Department, Engineering Department, Department of Natural Resources and third-party contracted consultants. Current ordinances and regulations directly or indirectly related to stormwater impacts are listed in Table 1-5. Copies of these documents can be found at the Town of Exeter website: https://www.exeternh.gov/.

TABLE 1-5

EXETER STORMWATER RELATED ORDINANCES AND REGULATIONS

Ordinance / Regulation	Latest Revision
Town of Exeter Ordinances Chapter 12 – Health Regulations	2017
Town of Exeter Ordinances Chapter 15 – Sewer Regulations	2013
Town of Exeter Ordinances Chapter 17 – Storm Drainage Regulations	2018
Zoning Ordinance and Map	2018
Site Plan Review and Subdivision Regulations	2018

1.6 FOLLOW-UP EVALUATION AND REPORTING

1.6.1 Program Evaluation

The Town of Exeter will annually evaluate and update the Stormwater Management Program (SWMP) to ensure that planned initiatives and activities are current and effective. Annual evaluation of the SWMP will assess topics such as public input and participation; proposed activities, goals and timelines; effectiveness of Best Management Practices (BMPs); and potential modifications to the SWMP. The Town will include a summary of annual SWMP evaluations and proposed modifications in annual reports submitted to EPA and NHDES at the end of each Permit Year.

1.6.2 Record Keeping

All documentation and records required by the 2017 NH Small MS4 General Permit will be maintained for a period of at least five years. Records will include things such as monitoring results; copies of reports; records of inspections/screenings; follow-up and elimination of illicit discharges; maintenance records; inspection records; and, data used in the development of the NOI, SWMP, SWPPP, and annual reports.

1.6.3 Reporting

The Town of Exeter will submit an annual report that covers the reporting period of July 1 to June 30 for each year of the permit. The first annual report will cover the period May 1, 2018 to July 1, 2019. Annual reports will be due within 90 days of the permit year end date of June 30. The annual report will contain information as outlined in part 4.4 of the 2017 NH Small MS4 General Permit. Annual reports will be submitted to EPA at the following address:

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

NHDES may request annual reports be submitted to NHDES as well. Upon receipt of this request, annual reports will be submitted to NHDES at the following address:

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

SECTION 2

MINIMUM CONTROL MEASURES (MCMs)

This section outlines each of the identified best management practices (BMPs) that the Town of Exeter has agreed to implement for each Minimum Control Measure (MCM). Each subsection provides an outline for a given MCM and includes the objective of the MCM, a BMP/Activity tracking table, and a narrative of the selected BMPs. At a minimum, each BMP includes identification of the BMP name and number, description of the BMP, the responsible party, and measurable goals associated with each BMP.

2.1 MCM1: 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, shellfishing areas, and public 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.

TABLE 2-1

MCM1 - BMP/ACTIVITY TRACKING

BMP Number	Responsible Party	Date Message Distributed or BMP Updated				
1	Engineering/Town Clerk					
2	Natural Resource Planner					
3	Engineering / Planning Dept					
4	Engineering					
5	Engineering / Planning Dept					
6	Highway Department					
7	Engineering / Planning Dept					
8	Engineering					

2.1.1 BMP 1: Pet Waste Brochures/Pamphlets

Responsible Party: Engineering/Town Clerk

Description: Distribute a pet waste annual message with license issuance or renewal or by a separate mailing each year. The targeted audiences for this BMP are residents, business, institutions, and commercial facilities. Example pet waste public education and outreach messages are attached to the end of this BMP. The pet waste annual message will be added to the end of this BMP for documentation and will be also be posted on the Town's Stormwater website, which can be viewed at: https://www.exeternh.gov/publicworks/stormwater.

Measurable Goals: To see an increased awareness in the targeted audience of the impacts of pet waste on water quality. The Town of Exeter will collaborate with the Seacoast Stormwater Coalition's efforts to determine tracking and evaluation methods to be used.

Reporting: Document the messages distributed, the method and date of distribution, and the measures/methods used to assess the effectiveness of the messages. Additionally, method/measures used to assess the overall effectiveness of the education program will be included in the annual report.

Placeholder for example PE/O information associated with BMP 1

2.1.2 BMP 2: Clean Water/Healthy Lawns Brochures/Pamphlets

Responsible Party: Natural Resource Planner

Description: Distribute Clean Water/Healthy Lawns information in the spring of each year. The targeted audiences for this BMP are residents, businesses, institutions, and commercial facilities. Example Clean Water/Healthy lawn information is attached to the end of this BMP. The Clean Water/Healthy Lawns information distributed will be added to the end of this BMP for documentation and will also be posted on the Town's Stormwater website, which can be viewed at https://www.exeternh.gov/publicworks/stormwater.

Measurable Goals: To see an increased awareness of proper fertilizer use. The Town of Exeter will collaborate with the Seacoast Stormwater Coalition's efforts to determine tracking and evaluation methods to be used.

Reporting: Document the messages distributed, the method and date of distribution, and the measures/methods used to assess the effectiveness of the messages. Additionally, method/measures used to assess the overall effectiveness of the education program will be included in the annual report.

Placeholder for example PE/O information associated with BMP 2

2.1.3 BMP 3: Development Regulation Fact Sheet Brochures/Pamphlets

Responsible Party: Engineering/Planning Department

Description: Distribute Regulations Fact Sheet to developers, as the targeted audience, when they inquire about new land development projects. The Fact Sheet will be posted on the Town's Stormwater website, which can be viewed at https://www.exeternh.gov/publicworks/stormwater. A copy of the Fact Sheet and any revised versions will be added to the end of this BMP for documentation.

Measurable Goals: To see an increased awareness of the local, state, and federal stormwater regulations. The suggested timeline for this BMP is to occur in Permit Year 2.

Reporting: Document the messages distributed, the method and date of distribution, and the measures/methods used to assess the effectiveness of the messages. Additionally, method/measures used to assess the overall effectiveness of the education program will be included in the annual report.

Placeholder for example PE/O information associated with BMP 3

2.1.4 BMP 4: Advertise Green SnoPro Certification Website

Responsible Party: Engineering

Description: Advertise Green SnoPro Certification webpage to increase participation in the program by industrial, commercial, and institutional facilities. The Green SnoPro certification page will be posted on the Town of Exeter's Stormwater website, which can be viewed at https://www.exeternh.gov/publicworks/stormwater. Example salt application and anti-icing public education and outreach information is attached to the end of this BMP. Copies of advertisements used for the Green SnoPro Certification will be added to the end of this BMP for documentation.

Measurable Goals: To increase the number of facilities with Green SnoPro winter maintenance staff or contractors at industrial, commercial, and institutional facilities. The Town of Exeter will collaborate with the Seacoast Stormwater Coalition's efforts to determine tracking and evaluation methods to be used. The suggested timeline for this BMP is to occur in Permit Year 3.

Reporting: Document the messages distributed, the method and date of distribution, and the measures/methods used to assess the effectiveness of the messages. Additionally, method/measures used to assess the overall effectiveness of the education program will be included in the annual report.

Placeholder for example PE/O information associated with BMP 4

2.1.5 BMP 5: Septic Smart Displays/Posters/Kiosks

Responsible Party: Engineering/Planning Department

Description: Utilize Septic Smart posters to target residents to encourage them to inspect and maintain their septic systems each permit year. Example Septic Smart posters are attached to the end of this BMP. Septic Smart information displayed will be added to the end of this BMP for documentation and will also be posted on the Town's Stormwater website, which can be viewed at https://www.exeternh.gov/publicworks/stormwater.

Measurable Goals: To see an increase in septic system testing/maintenance. The Town of Exeter will collaborate with the Seacoast Stormwater Coalition's efforts to determine tracking and evaluation methods to be used.

Reporting: Document the messages distributed, the method and date of distribution, and the measures/methods used to assess the effectiveness of the messages. Additionally, method/measures used to assess the overall effectiveness of the education program will be included in the annual report.

Placeholder for example PE/O information associated with BMP 5

2.1.6 BMP 6: Leaf and Yard Waste Collection

Responsible Party: Highway Department

Description: Post notices of Leaf and Yard Waste Collection in the spring and fall of each permit year to target residents, businesses, institutions, and commercial facilities. Leaf and Yard Waste Collection notices will be added to the end of this BMP for documentation and will also be posted on the Town's Stormwater website, which can be viewed at https://www.exeternh.gov/publicworks/stormwater.

Measurable Goals: To see an increase in the disposal of leaf and yard waste at the transfer station. The Town of Exeter will collaborate with the Seacoast Stormwater Coalition's efforts to determine tracking and evaluation methods to be used.

Reporting: Document the messages distributed, the method and date of distribution, and the measures/methods used to assess the effectiveness of the messages. Additionally, method/measures used to assess the overall effectiveness of the education program will be included in the annual report. The amount of leaf and yard waste disposed of each permit year will be tracked to document whether there is an increase in the disposal.

Placeholder for example PE/O information associated with BMP 6

2.1.7 BMP 7: Exeter Conservation Commission's Guest Speaker Night

Responsible Party: Natural Resource Planner/Engineering/Planning Department

Description: Organize and host an Exeter Conservation Commission's Guest Speaker Night targeted to developers (construction). An example public education stormwater flyer for developers is attached to the end of this BMP, additional flyers or handouts provided to developers at the Exeter Conservation Commission's Guest Speaker Night will be added to the end of this BMP for documentation.

Measurable Goals: To see an increase in awareness of the local stormwater regulations among developers. It is anticipated that a simple survey of attendees following the presentation will be used to evaluate attendees increased awareness of the local stormwater regulations. The suggested timeline for this BMP is to occur in Permit Year 4.

Reporting: Document the messages distributed, the method and date of distribution, and the measures/methods used to assess the effectiveness of the messages. Additionally, method/measures used to assess the overall effectiveness of the education program will be included in the annual report. The number of attendees at the Exeter Conservation Commission's Guest Speaker Night will also be tracked.

Placeholder for example PE/O information associated with BMP 7

2.1.8 BMP 8: Stormwater Pollution Prevention for Industrial Sites Flyer

Responsible Party: Engineering

Description: Distribute a Stormwater Pollution Prevention for Industrial Sites flyer by mail to industrial facilities. An example brochure for Stormwater Pollution Prevention for Industrial Sites is attached to the end of this BMP. A copy of the mailing to industrial facilities will be added to the end of this BMP for documentation.

Measurable Goals: To see an increase in awareness of stormwater pollution prevention practices at industrial facilities. The suggested timeline for this BMP is to occur in Permit Year 5.

Reporting: Document the messages distributed, the method and date of distribution, and the measures/methods used to assess the effectiveness of the messages. Additionally, method/measures used to assess the overall effectiveness of the education program will be included in the annual report.

Placeholder for example PE/O information associated with BMP 8

2.2 MCM2: 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.

TABLE 2-2

MCM2 - BMP/ACTIVITY TRACKING

BMP Number	Responsible Party	Date of Posting or BMP Updated				
9	Engineering					
10	Engineering					
11	Conservation Commission					

2.2.1 BMP 9: Public Review of Stormwater Management Program (SWMP)

Responsible Party: Engineering

Description: Provide the public opportunity to review and comment on the Town of Exeter's Stormwater Management Program (SWMP).

Measurable Goal: The Town of Exeter's SWMP will be made publicly available. The SWMP will be available on the website for public comment. Comments will be addressed, and updates included in the SWMP at least once during each Permit Year.

Reporting: Document public participation activities, including documentation of compliance with state public notice regulations to provide a description of activities used in the annual report.

2.2.2 BMP 10: Public Participation in SWMP Development

Responsible Party: Engineering

Description: Post instructions for submitting comments on the SWMP to the Town's Stormwater website.

Measurable Goal: Receive annual input on the SWMP from the public. Public comments on the SWMP will be compiled, reviewed, and made available to the public on the Town's Stormwater website.

Reporting: Document public participation activities, including documentation of compliance with state public notice regulations to provide a description of activities used in the annual report.

2.2.3 BMP 11: Cleanups – Shoreline/Waterbody

Responsible Party: Conservation Commission

Description: Organize and lead spring cleanups of various public areas in the Town of Exeter each permit year.

Measurable Goal: To see an increase in participation in cleanup days by the public.

Reporting: Document the dates and locations of the cleanup days as well as the number of participants for the annual report as a means to describe activities used to promote public participation.

2.3 MCM3: ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE) PROGRAM

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

TABLE 2-3

MCM3 - BMP/ACTIVITY TRACKING

BMP Number	Responsible Party	Date BMP Completed or Updated				
12	Engineering					
13	Engineering / Sewer Dept					
14 (Phase 1)	Engineering					
14 (Phase 2)	Engineering					
15	Engineering					
16	Engineering					
17	Engineering / Highway Department					
18	Engineering / Highway Department					
19	Engineering / DPW Operation					
20	Engineering / Planning Dept					

2.3.1 IDDE BMPs 12 through 20

Refer to Section 3 for BMPs 12 through 20.

2.4 MCM4: 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 a water of the U.S. through the permittee's MS4.

TABLE 2-4

MCM4 - BMP/ACTIVITY TRACKING

BMP Number	Responsible Party	Date BMP Completed or Updated				
21	Engineering / Planning Dept	04/2018				
22	Engineering / Planning Dept	04/2018				
23	Engineering / Planning Dept					
24	Engineering / Planning Dept	04/2018				

2.4.1 BMP 21: Sediment and Erosion Control Ordinance

Responsible Party: Engineering/Planning Department

Description: Rely on the most recent version of the Town of Exeter's Site Plan Review and Subdivision Regulations as a regulatory mechanism which requires the use of sediment and erosion control practices at construction sites. The Site Plan Review and Subdivision Regulations are available on the Town of Exeter's Planning website. https://www.exeternh.gov/planning/town-exeter-land-use-regulations.

Measurable Goal: By the end of Permit Year 1, update the requirements for sediment and erosion control practices at construction sites.

Reporting: The Site Plan Review and Subdivision Regulations were amended in April of 2018 to meet the provisions of the 2017 NH Small MS4 General Permit.

2.4.2 BMP 22: Site Plan Review Procedures

Responsible Party: Engineering/Planning Department

Description: Implement the site plan review procedures outlined in the most recent version of the Town of Exeter's Site Plan Review and Subdivision Regulations. The Site Plan Review and Subdivision Regulations are available on the Town of Exeter's Planning website. https://www.exeternh.gov/planning/town-exeter-land-use-regulations.

Measurable Goal: By the end of Permit Year 1, develop and implement written procedures for site plan review, and yearly thereafter, conduct site plan review of 100% of projects according to procedures outlined above.

Reporting: Track the number of site plan reviews completed each permit year for inclusion in the annual report as a means to evaluate construction runoff management.

2.4.3 BMP 23: Procedures for Site Inspection and Enforcement of Erosion and Sediment Control Measures

Responsible Party: Engineering/Planning Department

Description: Implement written procedures of site inspections and enforcement.

Measurable Goal: By the end of Permit Year 1, develop and implement written procedures for site inspections and enforcement, and annually thereafter, inspect 100% of construction sites as outlined in the above document and track enforcement action, as needed.

Reporting: The Town contracts with a local engineering firm to perform site inspection and enforcement of erosion and sediment control measures during construction. The inspectors follow a site inspection checklist and file completed reports with the Town. Track the number of inspections completed and enforcement

action taken each permit year for inclusion in the annual report as a means to evaluate construction runoff management.

2.4.4 BMP 24: Construction and Site Waste Controls

Responsible Party: Engineering/Planning Department

Description: Adopt requirements for construction operators to control onsite wastes, including but not limited to, discarded building materials, concrete truck washout, chemicals, litter, and sanitary wastes.

Measurable Goal: By the end of Permit Year 1, adopt the requirements for construction operators to control onsite wastes.

Reporting: The Site Plan Review and Subdivision Regulations were amended in April of 2018 to meet the provisions of the 2017 NH Small MS4 General Permit.

2.5 MCM5: POST CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT

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

TABLE 2-5

MCM5 - BMP/ACTIVITY TRACKING

BMP Number	Responsible Party	Date BMP Completed or Updated				
25	Engineering / Planning Dept	04/2018				
26	Engineering / Planning Dept					
27	Engineering / Planning Dept					
28	Engineering					
29	Engineering / Planning Dept	04/2018				

2.5.1 BMP 25: Post-Construction Ordinance

Responsible Party: Engineering/Planning Department

Description: Rely on the most recent version of the Town of Exeter's Site Plan Review and Subdivision Regulations as a regulatory mechanism to meet provision 2.3.6.a. of the 2017 NH Small MS4 General Permit to address post-construction stormwater management. The Site Plan Review and Subdivision Regulations are available on the Town of Exeter's Planning Department website. https://www.exeternh.gov/planning/town-exeter-land-use-regulations.

Measurable Goal: By the end of Permit Year 1, update Exeter's Site Plan Review and Subdivision Regulations to address post-construction stormwater management.

Reporting: The Site Plan Review and Subdivision Regulations were amended in April of 2018 to meet the provisions of Section 2.3.6.a. of the 2017 NH Small MS4 General Permit.

2.5.2 BMP 26: Street Design and Parking Lot Guidelines Report

Responsible Party: Engineering/Planning Department

Description: Develop a report assessing the requirements that affect the creation of impervious cover. The assessment will help determine if design standards for streets and parking lots can be modified to support green infrastructure design options.

Measurable Goal: By the end of Permit Year 4, develop a report on street design and parking lot guidelines, and begin implementing the recommendations following the development of the report.

Reporting: Annually provide a status update on the development of the report, including any planned or completed changes to local regulations and guidelines as a means to evaluate stormwater management for new development and redevelopment.

2.5.3 BMP 27: Green Infrastructure Report

Responsible Party: Engineering/Planning Department

Description: Develop a report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist.

Measurable Goal: By the end of Permit Year 4, develop a green infrastructure report, and begin implementing the recommendations following the development of the report.

Reporting: Annually provide a status update on the development of the report, including findings and progress toward making the practices allowable.

2.5.4 BMP 28: List of Municipal Retrofit Opportunities

Responsible Party: Engineering

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

Measurable Goal: By the end of Permit Year 4, complete the inventory and priority ranking of municipal retrofit opportunities.

Reporting: Annually report on the status of the inventory and priority ranking. In the Permit Year 5 annual report, and annually thereafter, report on properties and infrastructure that were retrofitted.

2.5.5 BMP 29: As-built Plans for On-site Stormwater Controls

Responsible Party: Engineering/Planning Department

Description: Review and update procedures to require submission of as-built plans from private development projects and to ensure long-term operation and maintenance of onsite stormwater controls for the project site.

Measurable Goal: By the end of Permit Year 1, update Exeter's Site Plan Review and Subdivision Regulations to require as-built plans from private development.

Reporting: The Site Plan Review and Subdivision Regulations were amended in April of 2018 to meet the provisions of the 2017 NH Small MS4 General Permit.

2.6 MCM6: GOOD HOUSEKEEPING AND POLLUTION PREVENTION FOR PERMITTEE OWNED OPERATIONS

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

TABLE 2-6

MCM6 - BMP/ACTIVITY TRACKING

BMP Number	Responsible Party	Date BMP Completed or Updated				
30	Engineering / Highway Department / Recreation / Facilities					
31	Engineering / Highway Department / Recreation / Facilities					
32	Engineering / Highway Department / Recreation / Facilities					
33	Engineering / Highway Department / Recreation / Facilities					
34	Engineering / Highway Department / Recreation / Facilities					
35	Highway Department					
36	Highway Department					
37	Highway Department					
38	Engineering / Highway Department					
39	Engineering / Highway Department					

2.6.1 BMP 30: Parks and Open Spaces Operation and Maintenance (O&M) Procedures

Responsible Party: Engineering, Highway Department, Recreation Department, and Facilities Department

Description: Create written O&M procedures covering all requirements contained in Section 2.3.7.1 of the 2017 NH Small MS4 General Permit for parks and open spaces owned by the Town. The completed O&M procedures will be included as part of the Stormwater Management Program.

Measurable Goal: By the end of Permit Year 2, develop the written O&M procedures, and start implementing the procedures for 100% of the parks and open spaces starting in Permit Year 3 and annually thereafter.

Reporting: Annually report on the status of the O&M program, and any associated maintenance activities.

2.6.2 BMP 31: Buildings and Facilities Operations and Maintenance Procedures

Responsible Party: Engineering, Highway Department, Recreation Department, and Facilities Department

Description: Create written O&M procedures covering all requirements contained in Section 2.3.7.1 of the 2017 NH Small MS4 General Permit for buildings and facilities owned or operated by the Town where pollutants are exposed to stormwater runoff, including, but not limited to, schools (to the extent they are Town-owned or operated), town offices, police, and fire stations, municipal pools and parking garages. The completed O&M procedures will be included as part of the Stormwater Management Program.

Measurable Goal: By the end of Permit Year 2, develop the written O&M procedures, and start implementing the procedures for 100% of the applicable building and facilities starting in Permit Year 3 and annually thereafter.

Reporting: Annually report on the status of the O&M program, and any associated maintenance activities.

2.6.3 BMP 32: Vehicle and Equipment Operations and Maintenance Procedures

Responsible Party: Engineering, Highway Department, Recreation Department, and Facilities Department

Description: Create written O&M procedures covering all requirements contained in Section 2.3.7.1 of the 2017 NH Small MS4 General Permit related to storage, fueling, and washing of vehicles and equipment owned or operated by the Town. The completed O&M procedures will be included as part of the Stormwater Management Program.

Measurable Goal: By the end of Permit Year 2, develop the written O&M procedures, and start implementing the procedures for 100% of the applicable vehicle and equipment operations starting in Permit Year 3 and annually thereafter.

Reporting: Annually report on the status of the O&M program, and any associated maintenance activities.

2.6.4 BMP 33: Inventory Town-owned parks and open spaces, buildings and facilities, and vehicles and equipment

Responsible Party: Engineering, Highway Department, Recreation Department, and Facilities Department

Description: Develop an inventory of all Town-owned parks and open spaces, buildings and facilities, and vehicles and equipment to support BMPs 30, 31, and 32.

Measurable Goal: By the end of Permit Year 2, develop the inventory and annually review and update the inventory as necessary.

Reporting: Annually report on the status of the inventory and subsequent updates.

2.6.5 BMP 34: Infrastructure Operations and Maintenance Procedures

Responsible Party: Engineering, Highway Department, Recreation Department, and Facilities Department

Description: Establish and record annually implementation of program activities for maintenance, repair, and rehabilitation of MS4 infrastructure. The completed O&M procedures will be included as part of the Stormwater Management Program.

Measurable Goal: By the end of Permit Year 2, develop written procedures for maintenance, repair, and rehabilitation of MS4 infrastructure, and maintain 100% of infrastructure in accordance with the written procedures starting in Permit Year 3 and annually thereafter.

Reporting: Annually report on the status of the O&M program, and any associated maintenance activities.

2.6.6 BMP 35: Catch Basin Cleaning Program

Responsible Party: Highway Department

Description: Establish a schedule for catch basin cleaning such that each catch basin is not more than 50% full, and clean catch basins according to the developed schedule.

Measurable Goal: By the end of Permit Year 1, establish a schedule for catch basin cleaning, and clean all catch basins in accordance with the established schedule, such that no catch basin is more than 50% full at any given time.

Reporting: Document action taken if a catch basin sump is found to be more than 50% full during two consecutive routine cleanings. Annually document and report the total number of catch basins, the number inspected, the number cleaned, and the total volume of material removed. In the Permit Year 1 annual report, document the plan for optimizing catch basin cleaning or a schedule for gathering the information to develop the optimization plan.

2.6.7 BMP 36: Street Sweeping Program

Responsible Party: Highway Department

Description: Sweep all curbed streets and Town-owned parking lots in accordance with permit conditions.

Measurable Goal: Each permit year, sweep all streets and Town-owned parking lots once per year in the spring.

Reporting: Annually document the number of miles swept and the volume of material removed.

2.6.8 BMP 37: Winter Road Maintenance Program

Responsible Party: Highway Department

Description: Establish and implement a program to minimize the use of road salt.

Measurable Goal: By the end of Permit Year 1, evaluate at least one salt/chloride alternative for use in the municipality, and annually thereafter, implement the salt use optimization program during the deicing season.

Reporting: Provide status update on how this BMP is being met.

2.6.9 BMP 38: Stormwater Treatment Structures Inspection and Maintenance Procedures

Responsible Party: Engineering and Highway Department

Description: Establish and implement inspection and maintenance procedures and frequencies for the storm drain system and stormwater treatment structures owned by the Town.

Measurable Goal: By the end of Permit Year 1, establish the inspection and maintenance procedures, and annually inspect and maintain 100% of stormwater treatment structures (excluding catch basins) owned by the Town to ensure proper function.

Reporting: Provide a status update on how this BMP is being met and track the inspection and maintenance completed.

2.6.10 BMP 39: Stormwater Pollution Prevention Plan (SWPPP)

Responsible Party: Engineering and Highway Department

Description: Develop or update SWPPPs for maintenance garages, public works yard, transfer station, and other waste-handling facilities.

Measurable Goal: By the end of Permit Year 2, develop or update SWPPPs for 100% of required facilities, and implement the SWPPPs, annually thereafter.

Reporting: Provide status update on the development or update of the SWPPPs and document the findings from SWPPP Site Inspections in the annual reports.

2.7 TMDLS AND WATER QUALITY LIMITED WATERS

The Town of Exeter has waterbodies with a total maximum daily load (TMDL) as well as water quality limited waters. A water quality limited waterbody is one that does not meet applicable water quality standards, but there is no EPA approved TMDL. TMDLs and water quality limited waters require the Town to implement additional measures to address the impairments by reducing these impairments in the Town's stormwater discharges. The applicable TMDL and impairments are summarized below:

TMDL (refer to Appendix F of 2017 NH Small MS4 General Permit)
Bacteria/Pathogens (Escherichia coli)
Impairments (refer to Appendix H of 2017 NH Small MS4 General Permit)
Bacteria/Pathogens Nitrogen Solids/oil and grease (hydrocarbons)/metals

Part 2.2.2.d.i.1 Lists Exeter as a municipality/MS4 discharging to waterbodies that are impaired due to chloride. Upon further review and discussion with NHDES and EPA, it was determined that this listing was an error. Older versions of the NH 303(d)/305(b) lists had mistakenly listed Wheelwright Creek and Parkman Brook with the same assessment unit ID and impairments. This error was corrected and in a review of subsequent versions of the 303(d)/305(b) list, it was noted that Wheelwright Creek and Parkman Brook are listed with separate assessment unit IDs. Wheelwright Creek is not listed as being impaired due to chloride. Parkman Brook is listed as impaired due to chloride and E.coli, however, there is only a short (roughly 1000-foot long) segment of Parkman Brook within the Exeter Regulated Area and there are no outfalls discharging to this waterbody. Therefore, Exeter's MS4 does not discharge to waterbodies impaired due to chloride and is not subject to the enhanced requirements of Part IV of Appendix H.

The following subsections summarize the additional requirements based on the applicable TMDL and water quality limited waters.

2.7.1 Bacteria/Pathogens (Combination of TMDL and Impaired Waters Requirements)

Applicable Receiving Waterbodies	TMDL Name (if applicable)
New Hampshire Statewide	NH Statewide Bacteria TMDL for Bacteria Impaired Waters
Exeter River (NHRIV600030805-02)	
Squamscott River South (NHEST600030806-01-01)	
Norris Brook (NHRIV600030806-01)	

Annual Requirements Beginning Permit Year 1:

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

Relevant BMP in Stormwater Program Management Program: 15

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

Relevant BMP in Stormwater Program Management Program: 1

2.7.1.3 Disseminate educational material to dog owners at the time of issuance or renewal of dog license or other appropriate time.

Relevant BMP in Stormwater Program Management Program: 1

2.7.1.4 Provide information to owners of septic systems about proper maintenance in any catchment that discharges to a waterbody impaired for bacteria.

Relevant BMP in Stormwater Program Management Program: 5

Public Education messages will be combined with other public education requirements, as applicable (refer to Appendix F and H of the 2017 NH Small MS4 General Permit for more information).

2.7.2 Nitrogen Impairment

Applicable Receiving Waterbody(ies)	TMDL Name (if applicable)
Squamscott River South (NHEST600060806-01-01)	

Annual Requirements Beginning Permit Year 1:

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

Relevant BMP in Stormwater Program Management Program: 15

2.7.2.2 Distribute an annual message in the spring that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release fertilizers.

Relevant BMPs in Stormwater Program Management Program: 2, 6

2.7.2.3 Distribute an annual message encouraging the proper management of pet waste, including noting any existing ordinances, where appropriate.

Relevant BMP in Stormwater Program Management Program: 1

2.7.2.4 Distribute an annual message in the fall encouraging the proper disposal of leaf litter.

Relevant BMP in Stormwater Program Management Program: 6

Public Education messages will be combined with other public education requirements, as applicable (refer to Appendix F and H of the 2017 NH Small MS4 General Permit for more information).

2.7.2.5 Increase street sweeping frequency of all municipally-owned streets and parking lots subject to Permit part 2.3.7.1.d.iii. to a minimum of two times per year (spring and fall).

Relevant BMP in Stormwater Program Management Program: 36

Requirements Due by Permit Year 2

2.7.2.6 Establish requirements for the use of slow-release fertilizers on Town-owned property currently using fertilizer, in addition to reducing and managing fertilizer use as provided in part 2.3.7.1.

Relevant BMP in Stormwater Program Management Program: 30, 31

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

Relevant BMPs in Stormwater Program Management Program: 30, 31

2.7.2.8 The requirement for adoption/amendment of the Town's ordinance or other regulatory mechanism shall include a requirement that new development and redevelopment stormwater management BMPs be optimized for nitrogen removal.

Relevant BMPs in Stormwater Program Management Program: 25

The Town of Exeter Site Plan Review and Subdivision Regulations were updated in April of 2018 to include a requirement that new development and redevelopment stormwater management BMPs be optimized for nitrogen removal.

Requirements Due by Permit Year 4

2.7.2.9 Complete a Nitrogen Source Identification Report.

Exeter partnered with Wright-Pierce and the Horsley Witten Group to develop a Nitrogen Control Plan, which was completed in September of 2018. The final report can be viewed on the Town's Stormwater website.
https://www.exeternh.gov/sites/default/files/fileattachments/public_works/page/38381/nitrogen_control_plan_-_final.pdf

2.7.2.10 Retrofit inventory and priority ranking under 2.3.6.e. shall include consideration of BMPs to reduce nitrogen discharges.

Relevant BMP in Stormwater Program Management Program: 28

Requirements Due by Permit Year 5

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

Relevant BMP in Stormwater Program Management Program: 28

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

Relevant BMP in Stormwater Program Management Program: 28

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

Applicable Receiving Waterbody(ies)	TMDL Name (if applicable)
Squamscott River South (NHEST600060806-01-01)	

Annual Requirements Beginning Permit Year 1:

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

Relevant BMP in Stormwater Program Management Program: 15

2.7.3.2 Increase street sweeping frequency of all municipally-owned streets and parking lots to a schedule to target areas with potential for high pollutant loads. Each annual report shall include the street sweeping schedule determined by the Town to target high pollutant loads.

Relevant BMP in Stormwater Program Management Program: 36

The Town currently sweeps municipally-owned streets and most municipally-owned parking lots within the MS4 area several times a year. Sweeping occurs 3-4 days per week between April and November. The average lane-miles swept per year is 1,300 miles. The Town's Highway Department will work with other departments, as necessary, to ensure that all municipally-owned parking lots are swept in accordance with the schedule outlined in the 2017 NH Small MS4 General Permit.

2.7.3.3 Prioritize inspection and maintenance for catch basins to ensure that no sump shall be more than 50 percent full. Clean catch basins more frequently if inspection and maintenance activities indicate excessive sediment or debris loadings.

Relevant BMP in Stormwater Program Management Program: 35

Requirements Due by Permit Year 2

2.7.3.4 Stormwater management systems designed on commercial and industrial land use area draining to the water quality limited waterbody shall incorporate designs that allow for shutdown and containment, where appropriate, to isolate the system in the event of an emergency spill or other unexpected event.

Relevant BMP in Stormwater Program Management Program: 22, 25

The Town of Exeter Site Plan Review and Subdivision Regulations were updated in April of 2018 to include requirements for stormwater management systems designed on commercial and industrial land use areas to incorporate design elements that allow for shutdown and containment, where appropriate, to isolate the system in the event of an emergency spill or other unexpected event.

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