Municipality/Organization:	Town of Exeter, NH				
EPA NPDES Permit Number:	NHR041007				
Annual Report Number	Year 12				
& Reporting Period:	April 1, 2014 – March 31, 2015				

NPDES PII Small MS4 General Permit Annual Report (Due: May 1, 2015)

Part I. General Information

Contact Person:	Jennifer Mates, P.E.	Title:	Assistant Town Engineer
Telephone #:	(603) 418-6431	Email:	jmates@exeternh.gov
Mailing Address:	13 Newfields Rd, Exeter, NH 03833		

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, 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.

Signature:	An
Printed Name	: Russell Dean
Title:	Town Manager
Date: 4	30/15

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Part II. Self-Assessment

The Town of Exeter has completed the required self-assessment and has determined that our municipality is in compliance with all permit conditions, with the possible exception of the following provisions:

Part 1 C. Discharges to Water Quality Impaired Waters

- 1. The permittee must determine whether storm water discharges from any part of the MS4 contribute; either directly or indirectly, to a 303(d) listed water body.
- 2. The storm water management program must include a section describing how the program will control the discharge of the pollutants of concern and ensure that the discharges will not cause an instream exceedance of the water quality standards. This discussion must specifically identify control measures and BMPs that will collectively control the discharge of the pollutant(s) of concern. Pollutant(s) of concern refer to the pollutant identified as causing the impairment.

The Town of Exeter has been studying the Squamscott and Exeter Rivers because of a condition set in a new wastewater treatment facility (WWTF) permit. The permit has imposed stringent discharge limits on nitrogen. The permit requires: development of a total nitrogen non-point source (NPS) and point source accounting system; a nitrogen control plan be developed by 2018; a description and accounting of the activities by the town as part of its nitrogen control plan; and description of activities conducted which affect nitrogen in these rivers.

The town participated in a Water Integration for the Squamscott and Exeter Rivers (WISE) study throughout the year that addresses some of the issues required by the WWTF permit. 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. A draft report was made available in March 2015. 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.

The WISE project:

Estimated stormwater nitrogen loads for the town Determined the most cost-effective BMP's for load reductions Established continuing water quality monitoring plans for the river Analyzed septic systems within 200 meters of major streams Provided structure for pollutant tracking and accounting Estimated substantial budget increases to the town for implementation Obtained tentative approval for fulfilling the required 2018 Nitrogen Control Plan

The town is also participating in the Great Bay Pollution Tracking and Accounting Pilot Program (PTAPP) coordinated by NHDES. The purpose of PTAPP is to enable coordination on nitrogen tracking and accounting for the Great Bay region.

Another project that will affect the water quality of the Exeter River is the removal of the Great Dam. The town approved \$1.79 million in funds for this removal project in March 2014 after extensive analysis and debate. The project is currently under design and a wetlands permit application has been submitted. The Exeter River has an impounded reach within the town that is listed on the 2012 303(d) list of impaired waters. The Exeter River impoundment is created by the Great Dam, a head-of-tide dam which is owned by the town. The 36 acre impoundment is impaired for Aquatic Life Use (dissolved oxygen, and dissolved oxygen saturation), and Primary Contact Recreation (e.coli and chlorophyll). The desired outcome as this project moves forward and the dam is removed, is that the river will be restored to fully support designated uses of Aquatic Life Use support and Primary Contact Recreation. Additionally, without the impoundment, the river will be free of water quality impediments to fish migration, and in a state of geomorphic equilibrium. Ultimately, the river within Exeter will have dissolved oxygen concentrations sufficient for maintaining aquatic life and chlorophyll a, and bacteria concentrations that do not pose a risk for primary contact recreation.

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PUBLIC EDUCATION & OUTREACH

BMP #1 DISPLAY AT ALEWIFE FESTIVAL

This particular festival no longer takes place. However at the October 2014 Exeter Fall Festival, the Conservation Commission had a booth that provided education about rain barrels and stormwater pollution.

BMP #2 STENCIL STORM DRAINS

All catch basins in town were stenciled or touched up with the message "Attention – Drains to Local Waterway" as needed.

BMP #3 STORMWATER VIDEO ON LOCAL PUBLIC STATION

No videos were played on local public station; however, the Town has the following educational videos on the town website: "Stormwater Rubber Duck" PSA; "Devil Duck Lawn Care" PSA; "Rain Storm" Radio Ad; and, "Car Wash" Radio Ad.

The Conservation Commission and River Study Committee meetings provide information the local stormwater program and are televised. The stormwater education program "Think Blue Exeter" is a subcommittee of the River Study Committee, so their activities are presented during these televised meetings. Also, the Board of Selectman's televised meetings included presentations about the progress and results of the WISE project.

BMP #4 DISPLAY AT TOWN BUILDING

There is a permanent educational sign detailing a stream buffer at popular local park. This location is adjacent to the Squamscott River and highlights stream buffers can improve water quality.

During the month of September, a "SepticSmart" display was located at the town office, along with hand outs. The display addressed proper septic system construction and maintenance.

"Runoff Returns" handouts are on display and available that educates residents on good housekeeping practices including the use of lawn fertilizer and chemicals.

ADDITIONS-

Town Website and Facebook pages –

- "Think Blue Exeter" general stormwater education, water quality in Exeter's streams & rivers, simple changes to reduce stormwater pollution.
- "Drug Take Back Day" Exeter Police Department participates in National Drug Take Back Day, which allows residents to drop off household and prescription drugs at the police department to prevent improper disposal.
- "Drug Drop-Off Box" Exeter Police Department The Exeter Police Department has taken a step further to help protect our waterways by providing a safe, sustainable and secure method to dispose of

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unwanted and/or expired household and prescription medications by installing a secured container in the lobby of the Police Department.

- "Household Hazardous Waste Collection Day" Exeter continues to host the once per year collection of household hazardous waste. The collection is coordinated by the Rockingham Planning Commission and includes Exeter and four other communities.
- Announcements for Spring 2014 and Fall 2014 leaf collection, and January 2015 Christmas tree pickup.
 Each Town resident was permitted to have ten bags of leaves picked up for free in the spring and fall 2014. The leaves were distributed to a compost pile and residents are allowed to use the compost.

Newspaper Articles -

- Announcements for Spring 2014 and Fall 2014 leaf collection and January 2015 Christmas tree pickup.
- Announcements for Household Hazardous Waste Collection Day and Drug Take Back Day

PUBLIC PARTICIPATION

BMP #5 PUBLIC NOTICE

Completed 1st year

BMP #6 REVIEW NEED FOR STORMWATER COMMITTEE

No additional review for a stormwater committee; however, the education program "Think Blue Exeter" is a subcommittee of the Exeter River Study Committee. Information on activities of the subcommittee is presented at various meetings, which are televised and open to the public. The majority of committee members are local residents.

The Exeter River Study Committee and Exeter Great Dam Working Group has conducted many outreach presentations dealing with possible removal of the Great Dam which would return the lower Exeter River to its natural state improving water quality and native fish populations.

The CAPE (Climate Adaptation Plan for Exeter) study involves requires much community involvement. The study will estimate the effects of climate change within the town. There were several public meetings that also included neighborhood and stakeholder focus groups. The CAPE officials have attended and will continue to attend meetings with the town staff and volunteer boards. The technical team focused on creating stormwater, flooding and water quality models. The project is expected to be complete in the Fall 2015.

BMP #7 STENCIL STORM DRAINS

All catch basins in town were stenciled with the message "Attention – Drains to Local Waterway" by town employees and the stencils repainted as needed.

ADDITIONAL PUBLIC PARTICIPATON

Rain barrels were available for residents to purchase (22 sold in 2014).

Volunteer River Assessment Program monitoring (8 sites, on 3 to 4 occasions between May and August) Exeter-Squamscott River Local Advisory Committee (ESRLAC) – volunteers representing the twelve communities in the Exeter-Squamscott River watershed; Town of Exeter Selectman, Don Clement is committee chair.

Annual Fish Ladder Tour – On May 17, 2014, ESRLAC partnered with the Exeter Conservation Commission and NH Fish & Game for the annual tour of the fish ladder located next to the Great Dam in downtown Exeter. As always, this event attracted a large crowd interested in learning about the annual fish migration from the salt water of the Squamscott River to the fresh water of the Exeter River.

A National Trails Day event was sponsored by the Exeter Conservation Commission on June 7, 2014. The event highlighted the Little River Conservation area.

ILLICIT DISCHARGE DETECTION AND ELIMINATION

BMP #8 SURVEY OUTFALLS

Drainage system and outfalls in the Linden Commons, Rinny Lane and Wright Lane neighborhoods were surveyed by a consultant and entered into the Town's GIS mapping.

BMP #9 MAP/UPDATE OUTFALLS

Stormwater drainage area watershed delineation/mapping was completed for the Town by a consultant to support future WWTF permit conditions and MS4 requirements. The series of maps and associated tables were developed within the more intensely populated areas of town including outfalls, drainage pipes, pipe type, pipe diameter, manholes, catch basins and associated drainage areas for the outfalls.

BMP #10 ORDINANCE TO PROHIBIT NON-STORMWATER DISCHARGES

Existing Storm Drainage Ordinance prevents illegal discharges to drainage system, with fines. Ordinance will be reviewed and updated as needed after the new (2013 Draft) MS4 General Permit for New Hampshire is issued.

BMP #11 CREATE EDUCATION FOR BUSINESSES

"Think Blue Exeter" - General Stormwater Education - No specific education for businesses this year.

BMP #12 HOTLINE

Police Dispatch and Exeter Department of Public Works

BMP #13 SAMPLE SUSPECT OUTFALLS

Canine investigations of the storm drainage systems in the Summer/Salem Street neighborhood were performed in December 2014. Samples were collected and tested in the area. The results of the Summer/Salem Street samples indicate that further monitoring should be performed. A plan for additional monitoring and potential corrective actions is being developed.

Samples were also collected in the Wheelwright Creek watershed which indicated that the corrective actions taken for a problem identified in 2012 were successful in eliminating an illicit connection.

BMP #14 TEST SUSPECT CONNECTIONS

Infiltration/inflow investigations were performed in several locations throughout town, including manhole inspections, smoke testing, building inspections and flow evaluations. Several issues were found and corrected, reducing the potential for Combined Sewer Overflows (CSOs).

Approximately 4,000 linear feet of stormwater collection piping in the Summer/Salem Street neighborhood were cleaned and inspected via CCTV camera.

BMP #15 CORRECT ILLICIT CONNECTIONS

A drain pipe that discharged to the tidal portion of the Squamscott River was found to be connected to the sewer collection system. It was estimated that 3 to 4 million gallons a day peak flow rate into the sewer during extreme high tide events from this connection. The connection was immediately disconnected from the sewer system.

A catch basin was discovered to be tied into the sewer collection system, which was immediately disconnected. It was estimated that this connection contributed 4 to 6 million gallons per year and 2 million gallons per day peak hour flow during intense rainfall events.

ADDITIONAL EFFORTS

One new "pet waste station" (bags and disposal container) was installed at the intersection of Linden Street and Deep Meadow Lane, bringing the total in town to 18 stations. A full list of the locations is provided on the Town's website.

CONSTRUCTION SITE RUNOFF CONTROL

BMP #16 UPDATE SITE REGULATION

Completed – The Town will review and update the stormwater regulations as needed after the new MS4 General Permit for New Hampshire is issued.

NPDES General Permit - Small Municipal Separate Storm Sewer Systems (MS4s)

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BMP #17 SITE PLAN REVIEW FOR ALL CONSTRUCTION PROJECTS GREATER THAN 1 ACRE

The Technical Review Committee (TRC) reviews all development greater than 1 acre, with a focus on construction and post-construction erosion controls and stormwater Best Management Practices (BMPs).

BMP #18 SITE INSPECTIONS

Projects are inspected throughout construction for all development greater than one acre to monitor stormwater management and erosion controls.

BMP #19 DEVELOP AND IMPLEMENT CONSTRUCTION SITE INFORMATION AND REPORTING PROGRAM

Town construction projects are posted on the town website and social media sites with contact information.

An emergency contact list for all privately owned construction projects is updated regularly and distributed to emergency response personnel.

POST CONSTRUCTION RUNOFF CONTROL

<u>BMP #20 IMPLEMENT SITE APPROPRIATE NON-STRUCTURAL, STRUCTURAL, INFILTRATION, AND VEGETATIVE</u> <u>PRACTICES</u>

BMPs are in place as per Planning Board approved plans

Stormwater BMP's are being incorporated into town projects. A consultant prepared preliminary sketches and designs for tree well treatment systems for an up-coming sidewalk project in the downtown area.

BMP #21 DEVELOP AND IMPLEMENT LONG TERM OPERATION AND MAINTENANCE PROGRAM FOR BMPs

Maintenance Agreements and Maintenance Plans are implemented during planning and construction process

ADDITIONS -

Stormwater inspections were performed at several subdivision and site plan developments with deficiencies identified. Maintenance Agreement "report cards" were developed for the following properties:

- Linden Commons Subdivision
- Wright Lane Subdivision
- Beech Hill Estates Subdivision
- Exeter Commons
- Sewall Property at 149 Epping Road
- Hampton Inn

POLLUTION PREVENTION AND MUNICIPAL GOOD HOUSEKEEPING

BMP #22 CREATE POLLUTION PREVENTION & GOOD HOUSEKEEPING PROGRAM FOR MUNICIPAL EMPLOYEES

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The following training was completed within the last year:

- All town employees involved in snow plowing were trained on equipment calibration, attended UNH T2 Green SnowPro training course, and received NHDES Salt Applicator Certification;
- Eight public works personnel completed an educational class through the UNH T2 School Road Scholar Program on culvert maintenance and obtained Culvert Maintainer Certification;
- The Town Engineer and Highway Superintendent completed the UNH Stormwater Symposium on permeable pavers;
- The Town Engineer attended a workshop on surface gravel wetland systems;
- Individuals from Water and Sewer Department and Highway Department attended "Construction Erosion and Sediment Control Inspections and Compliance Training for New Hampshire MS4 Communities;"
- DPW Director and some employees of Exeter Department of Public Works attended "Nitrogen in Stormwater: Sources and Solutions Workshop;" and,
- Exeter Town Planner and Natural Resource Planner attended a rain garden installation workshop.

Stormwater Prevention Plan Spill Kits were purchased for the Public Works Department and distributed throughout the facilities.

The Exeter DPW Director is a member of the WISE program and the Exeter Town Planner is a member of the CAPE program.

BMP #23 SWEEP STREETS

All streets swept spring and fall; downtown and other major areas – more than twice a year; parking lots – once per year

BMP #24 INSPECT CATCH BASINS

A tablet computer was purchased and used to document stormwater management inspections and facilitate mapping updates. The inspections are entered in to People GIS and allow for photos to be assigned as an attribute. 780 catch basins were inspected this year.

BMP #25 CLEAN CATCH BASINS

A total of 780 catch basins were cleaned in this year.

Town of Exeter, NH Land Use Development Tracking Worksheet



Map /	Man / Lot No. Zoning District			Project Name				Exeter File No.						
024-005-0000 R			U							44 CADTAIN'S WAY				
Planning	Board	#	Appr	oval D	ate	Oc	cupar	ncy Date			Source Re	eference Material		
				7/14/			4	BUI	DIN	16 FILE	1615			
Within S	horela	nd Pro	otectio	on	Na	me o	f Wat	er Body	Dist	ance f	rom Water	(Ft)	B	uffer Size (SF)
<u>۲</u>	Vo	eren de chiefe			7797777777777		*******	8. 6 						
Land To	Turf	/ Gra	55	Ne	w Imp	pervio	us	Imp. Re	move	d	Disconne	cted I	mp.	Agr. / Pasture
(SF)	54	40		6	450									
Previous	We	DOS		w	000	S								
Soil Type					16.69									
Percent Di	sconne	cted			0%	6		a secondary of	1000	中的现象。				
Infiltration	Rate						1.00							
Description	n of soi	l / lan	dscap	e rest	oratio	on								
Estimate	d annu	al run	off						-	222				
Type of	Agricul	tural	/ Past	ure us	se									
Wetla	nd area	as fille	d (SF)	T				W	etlanc	areas	restored (SF)		
Sewer Co	nnecti	on	Sept	ic Syst	tem T	ype	De	sign Flow (C	Gal)	N	laintenance	Requ	ired a	and Frequency
No			Con	VENT	NONA	sc		450		INST	PECT /A	MP E	EVER	Y 3YEARS
New / Rel	ouilt	Nar	me of	closes	st Wa	ter Bo	dy to	Distance to closest Water Body (Ft or N					Body (Ft or Mi)	
NEU)	R	OCK	Y HI	u	BROC	or				1690) FE		
	-	D T		DMD Description		GI	S Coo	rdinat	es	Drai	nage			
BIMP NO.	BWD IAb		be	e Divir De				Latitud	le	Lo	ngitude	Area	(SF)	Design Storm (in)
	Wate	r Quality Percent			nt Runoff		Disconnection		Effective Impervious		/ious	Underdrained		
BIVIP NO.	Volu	ime (C	CF)) Volume Re			leduction N		Multiplier		(SF)		Underdrained	
-														
				_				_						
RMP No				De	scrin	tion o	frequ	ired maint	anance	and a	scheduled f	reque	ncv	
DIVIP IVO.					.senp		Treqe			e une :			incy	
												-		
						-								
BMP No	Ann	ual N	Load	to	NI	Remo	val	N Load I	Reduct	ion	Cumulative N Load Reduction			ad Reduction
	BN	AP (Ib	s N/Yı	r)	Effic	ciency	(%)	(lbs	N/Yr)			(lbs N/	Yr)
							-							and a second second second
												-		
Parcel	Existin	ng Anr	nual N	I Load		Tot	al Par	cel N Load	Reduc	tion	Parce	Prop	osed A	Annual N Load
	(lb	s N/Yı	r)					(lbs N/Yr)				(lbs N/	Yr)

ATTACHMENT 10 - PRELIMINARY NITROGEN TRACKING SUMMARY TABLE TOTAL NITROGEN CONTROL PLAN ANNUAL REPORT FOR 2014 Wright-Pierce, 9 March 2015

Category				Waste	ewater				101	Storm	water		A subscription of the	Lan	d Use	e Marcelle Synthesis of	
Parcel	Zoning	Class	Sewered	Septic System	Septic	Septic	Rebuilt,	Permitted	Design	Structural	Non-	Land	Land	Existing	New	Amount of	Land
	District			Туре	System	System	New or No	Bedrooms	Flow	BMPs	Structural	Converted to	Converted to	Impervious	Impervious	New	Converted to
					<200m	Install	Change?	for Septic	(GPD)	Installed	BMPs	Turf/Grass	Turf/Grass	Cover	Cover	Impervious	Agriculture
					from	Year		System			Installed	from	from	Removed	Created	Cover that is	Fields /
					Surface					1		Natural	Impervious	(SF)	(SF)	Disconnected	Pastures (SF)
					Water							(SF)	(SF)			(SF)	
098-023-0000	R-1	Residential	No	Bio-Kinetic (TNT)	Yes	2014	Rebuilt	4	600	-	-	-		-	-	-	-
100-001-0000	R-1	Residential	No	Conventional	No	2014	Rebuilt	4	600	-	-		-	-	-	-	-
038-010-0000	R-1	Residential	No	Conventional	No	2014	New	4	600	-	-	-	•	-	2,380	2,380	-
085-087-0001	R-2	Residential	Yes	-	-				-	-		3,100	-	-	3,630	-	-
087-023-0003	R-2	Residential	Yes	-		-		-	-	-	-	-	-	-	4,940	4,940	-
055-056-0000	C-3	Commercial	No	Conventional	Yes	2005	No Change	2	300	-	-	-	-	-	24,550	24,550	
024-005-0000	RU	Residential	No	Conventional	No	2014	New	3	450	-	-	5,440	-	-	6,450	-	-
073-149-0009	C-1	Commercial	Yes					-	-	-	-	•		-	1,370	-	•
095-079-0010	R-2	Residential	Yes	-	-			-	-			9,690	-	-	3,610	-	
095-079-0001	R-2	Residential	Yes	-		-		-	-	Note all 5	narcels are	6,400	-	-	2,840	-	-
095-079-0009	R-2	Residential	Yes	-		-		-	-	Linden C	ommons	5,260	-		4,210	÷	-
095-079-0018	R-2	Residential	Yes	-	-	-		-	-			4,210		-	3,220	-	
095-075-0017	R-2	Residential	Yes	-	-	-		-	•			4,610			3,940	•	-
090-033-0002	R-2	Residential	Yes	-	•	-		-		-	-	-		-	860	860	-
063-276-0000	R-2	Residential	Yes	-	•	-		-	¥.,	-	-	-	380	380	-	-	-
064-105-0086	R-2	Residential	Yes	-	-	-		-	-	-	-		920	920	-	-	12
085-086-0000	R-2	Residential	Yes	-		-		-		-	-	-	-	-	310	•	-
018-014-0000	RU	Residential	No	Conventional	Yes	2001	No Change	4	600	-	-	-	-	-	2,080	2,080	
017-011-0001	RU	Residential	No	Conventional	Yes	2001	No Change	5	750		-	-	-	-	3,080	3,080	
094-028-0000	R-2	Residential	Yes	-	- 16	-		-	-	-	-	-			530	-	
071-009-0000	C-1	Commercial	Yes	-		-			-			1	-	-	480	•	
064-105-0055	R-2	Residential	Yes	-		-		-	-			-	1,020	1,020	-	-	-
072-070-0000	C-1	Commercial	Yes	-	-	-		-	-			-	4,290	4,290	-	-	-
Totals								26	3,900	0	0	38,710	6,610	6,610	68,480	37,890	0

Key:		Unknown
		Estimated
	-	None
	#	Known

INTEGRATED WATERSHED PLAN FOR THE SQUAMSCOTT-EXETER RIVER

PRELIMINARY DRAFT

Prepared for

Towns of Exeter, Stratham, and Newfields, New Hampshire The Science Collaborative of the National Estuarine Research Reserve (NERR)

January 23, 2015

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Geosyntec D

Portsmouth, NH

January 2015

DRAFT AREAS WITH SEPTIC SYSTEMS WITHIN 200 METERS OF MAJOR TRIBUTARIES OF THE SQUAMSCOTT-EXETER RIVER WATERSHED IN EXETER, NH

WISE Attached Algae Monitoring - June-July and Aug- Sept 2014 Deployments

Station ID	Station Name	Waterbody	Location
WISEAA-001	Haigh Road	Exeter R.	Haigh Road Brentwood
WISEAA-002	Pickpocket	Exeter R.	Pickpocket Dam
WISEAA-003	Great Brook	Great Br.	Shaw Hill Rd. / Rte 150
WISEAA-004	Little River	Little R.	Chadwick La/Gilman St.
WISEAA-005	Gilman	Exeter R.	Gilman St./Gilman La
WISEAA-006	High St.	Exeter R.	High St. (Rte. 108)
WISEAA-007	Swasey	Exeter R.	0.75 km below String Bridge
WISEAA-008	Wheelwright	Wheelwright Cr.	Exeter Country Club below Parkman Creek Confl.
WISEAA-009	River Road	Squamscott R.	River Road
WISEAA-010	SWMP RR Bridge	Squamscott River Estuary	RR Bridge, Stratham
WISEAA-011	EPSCoR Wiswall	Lamprey R.	Wiswall Dam, above dam, at EPSCoR station
WISEAA-012	WRRC Packers Falls	Lamprey R.	Packers Falls, upstream of bridge
WISEAA-013	SWMP Lamprey	Lamprey River Estuary	Downtown Newmarket, Below Falls
WISEAA-014	SWMP Oyster	Oyster River Estuary	Durham, 500 m below dam, Jackson Landing
WISEAA-015	SWMP Buov	Great Bav	Mid Great Bav

Attached Algae Indicator Monitoring





FIG. 2—Catherwood diatometer: (A) slide holder, (B) retaining bar, (C) deflecto (D) styrofoam float, (E) brass rod, and (F) identification tag.

Controls Natural Variables:

- Flow
- Light
- Substrate
- Time



Great Bay Pollution Tracking and Accounting Pilot Project (PTAPP)

What is PTAPP?

The Great Bay estuary exhibits symptoms of pollution: low dissolved oxygen in tidal rivers, increased macroalgae, and declining eelgrass. Most pollution originates from sources spread across the watershed including septic systems, fertilizers and air pollution. Stormwater runoff from developed areas is a major pathway for pollutants.

Watershed communities are facing regulatory measures to improve water quality in Great Bay and its tributaries. These requirements include implementation and tracking of pollution control activities; however, tracking and quantifying project success is challenging and expensive. Communities agree that regional coordination is needed to leverage scarce financial resources and develop a consistent, effective tracking system.



Aerial View of Great Bay

The PTAPP is a cooperative forum for communities to work toward identifying key components, needs, and next steps for successful implementation of a consistent regional system. Goals include progress toward development of: 1.) a **Tracking Tool** to track activities that affect pollutant loads, and 2.) an **Accounting System** to credit activities and estimate pollutant load reductions.

PTAPP Process, Outcomes and Benefits

The PTAPP **process** includes six facilitated workgroup meetings held over the course of one year beginning in February 2015. During meetings, participants will develop a shared agreement and understanding of principal technical components, resource needs, and next steps for regional tracking and accounting. Each meeting will have an identified goal and outcome and will build on results from similar efforts such as those conducted in Chesapeake Bay and Long Island Sound. The PTAPP process will ultimately result in an Implementation Framework describing system recommendations and next steps for implementation including approach, roles, resources, and timeline. **Summary of anticipated PTAPP outcomes** :



This bioretention unit is an example of a stormwater management activity that would be tracked and credited.

- Progress toward regional agreement is achieved.
- Additional needs are identified (funding, technology, etc.).
- Roles and responsibilities are described.
- Implementation Framework is created.

Municipalities in the Great Bay region seek to create a regional tracking system that is economical, easy to implement, and meets regulatory needs. PTAPP **benefits** include the following:

- Economic: Financial resources are leveraged at the regional level so that municipalities do not shoulder costs individually.
- Regulatory: A consistent regional accounting system and tracking tool will help meet municipal permit requirements.
- Social: Regional coordination promotes common, understanding of needs and identifies opportunities for collaboration and resource-sharing.
- Environmental: Regional pollution management and tracking will likely result in measurable water quality improvement over time.



Who is participating?

Participants include representatives from municipalities in the Great Bay estuary region, consultants, state and federal agencies, regional planning commissions, watershed planning groups, regulators, and other interested attendees.

The NH Department of Environmental Services and the University of New Hampshire Stormwater Center will provide leadership and facilitation for the process.

Participants are encouraged to make the process "their own" and will be provided opportunities for input into meeting agendas, content, and outcomes.



PTAPP Schedule

PTAPP focus area

The PTAPP process includes six workgroup style meetings held over the course of one year. Each meeting has a target outcome to build progress toward completion of the Implementation Framework.

Anticipated Project Schedule

Expected Date	Major Task	Target Outcome
February 2015	Meeting 1: Tracking Criteria	Draft tracking criteria
March 2015	Meeting 2: Accounting Credits	Draft accounting credits
April 2015	Meeting 3: Accounting System - Criteria and Credits	Accounting System recommendations
May 2015	Meeting 4: Define Tracking Tool	Conceptual Tracking Tool developed
June 2015	Meeting 5: Tracking Tool (continued)	Tracking Tool recommendations
September 2015	Meeting 6: Implementation Framework	Key components identified
October 2015	Draft Implementation Framework review	Participants finalize framework
December 2015	Final Implementation Framework released	Implementation of next steps begins

Important Note: PTAPP is a pilot project with limited resources and timeframes; therefore, realistic expectations for the project schedule and outcomes will be maintained during the project.

Project Contacts:

James Houle UNH Stormwater Center 35 Colvos Road Durham, NH 03824 (603) 862-4024 Sally Soule NH Department of Environmental Services 222 International Drive, Suite 175 Portsmouth, NH 03801 (603) 559-0032





This project was funded in part by NOAA's Office for Coastal Monagement under the Coastal Zone Management Act in conjunction with the NH Department of Environmental Services Coastal Program with additional funding provided through a grant from Clean Water Act Section 604b funds from the US Environmental Protection Agency





Town of Exeter Home » Public Works Home » Services » Stormwater

Stormwater

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Rain and snowmelt (stormwater) on buildings, streets, parking lots, and other impervious surfaces cannot soak into the ground. As stormwater moves across these hard surfaces it collects dirt, debris, and chemicals carrying them directly to our rivers and streams.

In March 2003, Exeter was required to apply to the Environmental Protection Agency (EPA) for a permit to discharge stormwater. In order to meet the requirements of the permit, Exeter must reduce pollutants in stormwater discharges to the "maximum extent practicable." The permit required development of a Stormwater Pollution Prevention Plan (SWPPP) to address how we would reduce stormwater pollution. We continue to look for feedback and input from the public.

Please click the link below to proceed to the Think Blue Exeter program!

Supporting Documents

2003 Small MS4 General Permit

- 2013-2014 Annual Stormwater Report
- 2003 Notice of Intent

Web Links

Think Blue Exeter NPDES New England Permit Archives (scroll to find Exeter)

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Public Works Menu

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Contact

Public Works Complex: 13 Newfields Road Exeter, NH 03833 P) 603-773-6157 F) 603-772-1355 Info line: 603-418-6450 Emergency: 603-772-1212 (nights, weekends or holidays) Hours: Monday - Friday 7:00 AM - 3:30 PM

Like us on Facebook!

Unitil Gas Emergencies: 866-900-4115

Transfer Station: 9 Cross Road Exeter, NH 03833 Hours: Tuesday: 9:00 AM - 2:30 PM Thursday: 1:00 PM - 4:00 PM



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Think Blue Exeter

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As rain and snow-melt, also known as stormwater, while it flows across streets, parking lots, and other hard surfaces it collects dirt, debris, and chemicals carrying them directly to our rivers and streams. This polluted run-off is called Stormwater Pollution. Our habits play a major role in this type of pollution.

Visit Think Blue Exeter to learn about ways you can help reduce Stormwater Pollution because...CLEAN WATER STARTS WITH YOU!!!

What is Stormwater Pollution?

As stormwater (or rain and snow-melt) flows across buildings, streets, parking lots, and other hard surfaces it collects dirt, debris, and chemicals and carries them directly to our rivers and streams. Collectively, these surfaces which do not allow water to penetrate are called impervious surfaces. The polluted run-off that flows across them and into our streams is called Stormwater Pollution.

What's the Water Quality Status of Exeter's Streams and Rivers?

As a result of water testing, NH Department of Environmental Services has designated the majority of Exeter's streams and rivers as "impaired" for one or more uses. This means the water contains pollutants which can be harmful to aquatic life, fish consumption, or humans during either direct or indirect contact.

To view how widespread this designation is, click <u>here</u> to view Exeter's "impaired rivers". As you look at this map remember, **BLUE** means the water course meets standards, **RED** means it does not. With the majority of Exeter's waterways in red on this map, you may be starting to understand the purpose of the THINK BLUE program.

How Can You Help?

Our habits play a major role in this type of pollution. To find out what simple changes you can make to reduce the amount of pollutants entering our rivers, explore the links

Boards, Committees, and Commissions Menu

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Economic Development Commission

Exeter Housing Authority

Heritage Commission Historic District Commission

Planning Board

initial g board

River Study Committee

Rockingham Planning Commission

Supervisors of the Checklist

Swasey Parkway

Train Committee

Transportation Committee

Trustees of Trust Funds

Trustees of the Robinson Fund

Water/Sewer Advisory Committee below and be sure to check out our "Ducky Ads" at the bottom of the page. You may have seen or heard them on Channel 98 or WXEX.

We need more people to THINK BLUE because CLEAN WATER STARTS WITH
YOU!!!

About Us	Homeowners	Kids	Toolbox

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Click any thumbnail image to view a slideshow



- Stormwater Rubber Duck PSA
- Devil Duck Lawn Care PSA
- Rainstorm Radio Ad
- 🖻 Car Wash Radio Ad

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Zoning Board of Adjustment Volunteer Committee Openings Appointment Application Agendas/Minutes

Master Plan

Contact

10 Front Street Exeter, NH 03833 603-778-0591

To reach all members of the Board of Selectmen - Selectmen@exeternh.gov

Don Clement dclement@exeternh.gov

Dan Chartrand dchartrand@exeternh.gov

Julie Gilman jgilman@exeternh.gov

Anne Surman asurman@exeternh.gov

Nancy Belanger nbelanger@exeternh.gov

Full Contact Details... Edit Contact Details

Upcoming Events

Transportation Committee Mon, May 4th 4:10pm

Board of Selectmen Mon, May 4th 7:00pm - 9:00pm

Trail Committee Meeting Mon, May 4th 7:00pm - 9:30pm

Heritage Commission Wed, May 6th 7:00pm

Planning Board Site Walks Thu, May 7th (All day)

View the Boards, Committees, and Commissions calendar



Site design by Aha Consulting

Contact the Town | Logout | Dashboard



Town of Exeter Home » Current News » Drug Drop-Off Box

Drug Drop-Off Box



The Exeter Police Department has taken a step further to help keep harmful, unused medications out of the hands of children as well as out of the environment. Open Source Research shows that every day 2,500 kids abuse prescription drugs for the first time. Seventy percent of people who abuse prescription pain relievers say they got them from friends or relatives.

Currently, many unwanted or expired household and prescription medications are improperly disposed of. The harmful methods being used include flushing the drugs down toilets or putting them into the garbage. Both of these methods have damaging effects on our environment and contaminate our water supply. Therefore, The Exeter Police saw the need for a unit that would

provide a source for proper disposal of unwanted or expired household and prescription medications, and placed a secured container in the lobby of the Police Department.

The Exeter Police Department's MedReturn Drug Collection Unit provides a safe, sustainable and secure method to dispose of unwanted or expired household medicines or prescription medication. There has been a great response from the Exeter community during our Drug Take Back events that have been coordinated with the D.E.A. The Exeter Police is committed to continuing to offer these services as well as now providing a 24hr 7 day a week- no questions asked-disposal option.

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2nd Grade Bike Rodeo!

Cub Scout Pack 323

DARE BBQ

Drug Arrests in Exeter

IACP's Response to Federal Government's Marijuana Policy

Message from Chief Kane

Motor Vehicle Theft Investigation

NH's New Hands Free Electronic Device Law

New Officer Sworn In

Permanent Drug Drop-Off Box

Press Release 9/5/14

SCAM

Think Snow!

U.S. vs Phillip Gage

Womens Self Defense Training

Important Links

Number of Visitors

Contact

Emergencies: Dial 911 Dispatch: 603-772-1212 Fax: 603-778-7061

20 Court Street Exeter, NH 03833

Chief Richard Kane rkane@exeternh.gov



Christmas Tree pick-up

View Edit Revisions Promote Clone

Web Page Christmas Tree pick-up has been updated.



The Public Works Department will pick-up Christmas Trees on your regular rubbish day during the week of January 12th - 16th (2015). Please have all decorations removed and place your tree curbside by 7am on your regular pickup day!

If you miss pick-up trees can be dropped off at the Transfer Station no permit required (please have proper residential ID ready).

Transfer Station hours are: Tuesday 9-2:30, Thursday 1-4, & Saturday 9-2:30.

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Contact

Public Works Home

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Public Works Complex: 13 Newfields Road Exeter, NH 03833 P) 603-773-6157 F) 603-772-1355 Info line: 603-418-6450 Emergency: 603-772-1212 (nights, weekends or holidays) Hours: Monday - Friday 7:00 AM - 3:30 PM

Like us on Facebook!

Unitil Gas Emergencies: 866-900-4115

Transfer Station:

9 Cross Road Exeter, NH 03833 Hours: Tuesday: 9:00 AM - 2:30 PM Thursday: 1:00 PM - 4:00 PM Saturday: 9:00 AM - 2:30 PM

Full Contact Details... Edit Contact Details

Upcoming Events

Spring Leaf Pick-up Mon, May 18th (All day) - Fri, May 22nd (All day)

Memorial Day - Closed Mon, May 25th (All day)

View the Public Works calendar







Fall leaf and grass clipping pick up will be December 8 - 12.

Northside Carting picks-up leaves and grass curbside twice each year (1 spring and 1 fall date). Bags must be biodegradable paper bags and placed curbside by 7 a.m. on your rubbish collection day (**12 bag limit per residence**). Bags are available to purchase at local hardware or grocery stores. In addition, leaves and grass can be taken directly to the

Transfer Station (no permit required) during hours of operation.

Leaves and grass either taken to the Transfer Station or collected curbside are composted. Compost is available to residents free of charge. For availability contact Public Works!

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13 Newfields Road Exeter, NH 03833 P) 603-773-6157 F) 603-772-1355 Info line: 603-418-6450 Emergency: 603-772-1212 (nights, weekends or holidays) Hours: Monday - Friday 7:00 AM - 3:30 PM

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View the Public Works calendar



Town of Exeter Home » Boards and Committees Home » About Our Boards » Planning Board » CAPE: Climate Adaptation Plan for Exeter

CAPE: Climate Adaptation Plan for Exeter



BACKGROUND:

The climate in which we live has always changed over time, requiring us to adjust or adapt to these changes. While some people disagree with the science of global warming, there are some things we can all agree upon. The Exeter community has seen a marked increase in flooding and the adage "an ounce of prevention is worth a pound of cure" rings true. Whatever the

ultimate cause, whether it is manmade or a natural cycle, there are many decisions that need to be made today and in the future that will impact how people, infrastructure, and natural resources fare. To prepare for these changes, while engaging local people about local priorities, this project will work over the next two years to first study the vulnerabilities in Exeter and to then develop an adaptation plan.

The process starts with understanding the impacts of present climate conditions on people, infrastructure and natural resources (where are we vulnerable? What needs to be fixed or made secure?). We then determine how things will change under scenarios of future possible climates. Only after these impacts are determined can adaptation planning start. We have to use scenarios of future possible climates because the exact characteristics of the future climate are unknown; the amount of human greenhouse gases to be emitted in the future is unknown and there is still lack of complete understanding of the climate system.

Supporting Documents

UNH Climate Plan for Exeter - Grant Announcement

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Site design by Aha Consulting

Planning Menu

Planning Home

Contact

10 Front Street Exeter, NH 03833 Phone: 603-773-6112 Alternate: 603-778-0591 ext. 112 Fax: 603-772-4709

Hours:

Monday - Friday 8:00AM - 4:30

Full Contact Details...



There are no upcoming events at this time.

View the Planning calendar

How does a septic system work?

This is a simplified overview of how a septic system works.

- All water runs out of your house from one main drainage pipe into a septic tank.
- The septic tank is a buried, water-tight container usually made of concrete, fiberglass or polyethylene. Its job is to hold the wastewater long enough to allow solids to settle down to the bottom (forming sludge), while the oil and grease floats to the top (as scum). Compartments and a T-shaped cutlet prevent the sludge and scum from leaving the tank and traveling into the drainfield area.
- The inquid wastewater then exils the tank into the drainfield. If the drainfield is overloaded with too much liquid, it will flood, causing sewage to flow to the ground surface or create backups in tollets and sinks.

Finally, the wastewater percolates into the soil, naturally removing harmful bacteria, viruses, and nutrients.



SepticSmart Helps Protect Your Home and Family

If you have a septic system, it's extremely important to keep up with its proper care and maintenance. The U.S. Environmental Protection Agency's SepticSmart initiative helps ensure that we all know how to do our part to safeguard our community's health and protect the environment. It can also protect your family and keep you from spending thousands of dollars repairing or replacing a damaged system.



For more information on how you can be SepticSmart, please visit: www.epa.gov/septicsmart

> EPA 500-812-8-12-009 September 2012

Do your Part-Be SepticSmart!



SAM

the proper care and maintenance of your septic system.

septicsmart

Why is it important to properly maintain my septic tank?

It saves you money.

Malfunctioning systems can cost \$3,000-\$7,000 to repair or replace compared to maintenance costs of about \$250-\$500 every three to five years.

It protects the value of your home.

Malfunctioning septic systems can drastically reduce property values, hamper the sale of your home, and even pose a legal liability.

It keeps your water clean and safe.

A properly maintained system helps keep your family's drinking water pure, and reduces the risk of contaminating community, local, and regional waters.

It keeps the environment clean. Malfunctioning septic systems can harm the local ecosystem by killing native plants, fish, and shellfish.

Do I have a septic system? If so, how can I find it?

Here are a few tips to determine If you have a septic system and how to locate it.

- You most likely have a system if:
- You are on well water.
- The water line coming into your house does not have a meter.
- · Your neighbors have a septic system.
- You can find your septic system by:
- Looking on the "as built" drawing for your home.
- Checking in your yard for lids or manhole covers
- Using an inspector/pumper, who can also help you find exactly where the system is located.

-

SAM

What can I do to help maintain my system?

Protect it and Inspect it.

A typical septic system should be inspected at least every three years by a licensed contractor and your tabk pumped as recommended by the inspector (generally every three to five years).

Think at the Sink.

- Your septic system contains a living collection of organisms that digest and treat waste. Pouning toxins down your drain can kill these organisms and harm your septic system.
- Oil-based paints, solvents, and large volumes of toxic cleaners should not enter your septic system. Even fatex paint cleanup waste should be minimized.
- Eliminating the use of a garbage disposal can reduce the amount of fats, grease, and solids entering the septic tank and ultimately clogging the drainfield, increased disposal use results in more frequent pumping.

Don't Overload the Commode.

A variety of household products can clog and potentially damage septic system components.

Do not flush:

- Feminine hygiene products
- Condoms
- Diapers
- Cigarette butts
- Coffee grounds
- Cat litter

For a complete list, visit www.epa.gov/septicsmart.

Don't Strain your Drain.

It's simple. The less water you use, the less water that enters the septic tank, which decreases its workload. Here are a few easy ways to save water:

- Run dishwasher and washing machine only when full.
- Repair leaky toilets and pipes.
- Use high-officiency toilets and faucets.

For more information on how you can save water, visit EPA's WaterSense program, www.epa.gov/watersense.

Shield your Field.

It's equally important to protect your drainfield.

- · Do not park or drive on your drainfield.
- Plant trees the appropriate distance from the drainfield to keep roots from growing into the system.
- Keep roof drains, sump pumps and other rainwater drainage systems away from the area. Excess water slows down or stops the treatment process.

How do I know if my septic system is not working properly?

Mind the Signs!

Here are a few signs of septic system malfunction. If you discover any of these warning signs, call a licensed septic tank contractor immediately. One call could save you thousands of dollars.

- · Wastewater backing up into household drains.
- A strong odor around the septic tank and drainfield.
- Bright green, spongy grass appearing on the drainfield, even during dry weather.

Septic Systems and Their Maintenance



A properly functioning septic system requires regular maintenance

Maintenance is the single most important consideration in making sure a septic system will work well over a long period of time.

<u>What you</u> <u>should do ...</u>

Top Four Things You Can Do to Protect Your Septic System—

- 1. Regularly have your system inspected and tank pumped as necessary (see recommendation).
- 2. Use water efficiently.
- 3. Do not dispose of household hazardous chemicals in sinks or toilets.
- 4. Care for your drainfield.



What is a Septic System?

A septic system, also referred to as a private, on-site waste disposal system, receives waste water and solids from a buildings plumbing facilities (bathrooms, kitchens, shower, laundry), treats and then disposes of the effluent from this waste by permitting it to absorb into the soils at the property.

Did you know that maintaining your septic system protects your investment in your home?

Components

A typical septic system has four main components: a pipe from the home, a septic tank, a drainfield, and the soil.

Tip

To prevent buildup, sludge and floating scum need to be removed through periodic pumping of the septic tank. Regular inspections and pumping are the best and cheapest way to keep your septic system in good working order.

When should I have an inspection done? Your septic system should be inspected on a regular basis. It is recommended that the septic system be inspected every 1 to 3 years and tank cleaned out every 3 to 5 years. It is always an opportune time and recommended to inspect your system when it is being cleaned out.

Where does the wastewater go when it leaves the tank? After the septic tank the clarified wastewater (effluent) will flow into the soil absorption system. The most common type of soil absorption area is called the drainfield or leachfield, but seepage beds are also used.

Not in My Septic System!

<u>X - Cloggers</u> - Diapers, cat litter, cigarette filters, coffee grounds, grease, feminine hygiene products, baby wipes, etc.

<u>X- Killers</u> - Household chemicals, gasoline,

oil, pesticides, antifreeze, paint, etc.

****Garbage disposals**

Eliminating the use of a garbage disposal can reduce the amount of grease and solids entering the septic tank and possibly clogging the drainfield.

Exeter DPW www.town.exeter.nh.us/dpw/stormwater

DO'S & DON'TS To Protect Exeter's Drinking Water



 DON'T pour chemicals down the sink or toilet, including prescription drugs. Safely store them and take them to the Household Hazardous Waste Collection.



- DON'T use septic system cleaners or additives containing acids or chemical solvents such as trichloroethylene.
- DON'T overload your septic system with solids by using a garbage disposal, unless the system is specifically designed for one.
- DON'T have an underground storage tank removed by someone who is not familiar with state guidelines for UST removal.



- **DON'T** buy more pesticides or hazardous chemicals than you need.
- **DON'T** over-use pesticides or household chemicals. More is **not** necessarily better.
- DON'T use fertilizers if heavy rains are anticipated as the nutrients will be flushed from the lawn into drains and low areas.
- **DON'T** apply fertilizers within 10 feet of catch basins, culverts, drainage ditches, wells, roadways & sidewalks, or 25 feet of rivers, streams & ponds.
- DON'T leave pet waste on the ground where it can be carried by stormwater to local streams.
- DON'T dispose of hazardous chemicals by pouring them down the drain or onto the ground.



Exeter's Wellhead Protection Program was funded in part by a grant from the NHEP, as authorized by the US EPA's National Estuary Program.



DO YOU REALIZE?

- That pouring, blowing, or sweeping debris into the streets could lead to the polluting of Exeter's rivers?
- Storm drains are designed to collect rainwater from streets, parking lots and rooftops as quickly as possible to prevent flooding. Storm drains discharge runoff directly to waterways without treatment.
- The improper disposal of detergents, oil, chemicals and debris into the storm drains impacts the water quality of our rivers and it is illegal.

MATERIALS REQUEST

FILL OUT POSTCARD, ADD POSTAGE AND MAIL. THANK YOU FOR YOUR SUPPORT.

1_1	Stormwater Logo Sign	<u>1</u> 1	Bookmarks
	Kid's Stickers]	Flyers
<u>.</u>]	Paper Coasters		

BUSINESS

CONTACT NAME

ADDRESS

PHONE







EXETER CLEAN WATER CAMPAIGN SPONSORED BY:

THE TOWN OF EXETER -DEPARTMENT OF PUBLIC WORKS

10 FRONT STREET EXETER, NH 03833

PHONE: 603-778-0591 FAX: 603-772-1355 E-MAIL: PDUFFY@EXETERNH.ORG



local Businesses Can Help Keep Exeters Water Clean.



STORMWATER RUNOFF IMPACTS WATER QUALITY

0

Local businesses can be a part of the Exeter Clean Water Campaign. The Town of Exeter wants to partner with local businesses to help educate the community and to participate in an effort to improve our local water quality.

EXETER IMPACTED BY NEW CLEAN WATER REGULATIONS

The Stormwater Phase II Rule requires certain communities with storm drainage systems to obtain a National Pollutant Discharge Elimination System (NPDES) permit and develop a stormwater management program designed to prevent harmful pollutants from being washed by stormwater runoff into local waterways.

Stormwater (rain and snow melt) flows into the municipal storm drainage system (catch basins) and is discharged to our rivers and streams without treatment.

Common pollutants include oil & grease, pesticides, sediment and carelessly discarded trash, such as cigarette butts, paper wrappers, and plastic bottles. These pollutants can impair the waterways thereby discouraging recreational uses, contaminating drinking water sources, and interfering with the habitat for fish and wildlife.

EXETER'S STORMWATER MANAGEMENT PROGRAM

The U.S. Environmental Protection Agency (EPA) is the permit authority for New Hampshire. EPA requires Stormwater Management Programs to include the following Six Minimum Control Measures:

- 1) Public Education
- 2) Public Participation
- 3) Illicit Discharge Detection and Elimination

WHAT DOWNTOWN BUSINESSES CAN DO TO HELP PREVENT STORMWATER POLLUTION:

- DISPOSE OF BUSINESS SWEEPINGS IN THE TRASH
 DISPOSE MOP WATER TO SANITARY SEWER
- AVOID TOXIC MATERIALS SUCH AS CLEANERS TO THE EXTENT POSSIBLE
- MAKE SURE ALL TRASH IS BAGGED AND TIED
 AND DUMPSTERS ARE CLOSED
- DO NOT LOCATE DUMPSTERS NEXT TO CATCH BASINS OR WATERWAYS
- INSTALL & PROPERLY MAINTAIN GREASE TRAPS & INCEPTORS
- RECYCLE WASTE COOKING OIL NEVER POUR
 DOWN DRAINS OR DUMP OUTSIDE
- DO NOT CLEAN EQUIPMENT OUTDOORS DETERGENTS, CHEMICALS AND GREASE IMPACT OUR WATER QUALITY

PUBLIC EDUCATION AND PARTICIPATION

We believe that education is the most important element in the Stormwater Program. Many people simply do not realize that the water that flows into catch basins goes directly to the river or other waterways without treatment. Once people realize that their individual actions impact their local waterways, they will want to keep their streets litter free, properly dispose of pet waste, be careful when applying fertilizer and pesticides, and make sure their automobiles are not leaking oil or other fluids.

AFF DA

for businesses that support the stormwater program. We will also provide educational materials such as bookmarks, hard stock paper coasters, children's stickers, and flyers if businesses are interested. To receive these items, please fill out attached postcard and mail it back to us.

If you have any questions, please contact Phyllis Duffy at 603-778-0591, or via e-mail at pduffy@exeternh.org.

PLEASE APPLY STAMP

> EXETER CLEAN WATER CAMPAIGN C/O THE TOWN OF EXETER -DEPARTMENT OF PUBLIC WORKS TO FRONT STREET EXETER, NH 03833

USE SLOW RELEASE FERTILIZERS

Slow release fertilizers provide a more controlled release of nitrogen than other products. They rely on chemical or microbial activity in order to release their nutrients, making it less likely that they will reach our waterways.

FOLLOW DIRECTIONS

Fertilizers are sold using a formula of three numbers (i.e. 10-20-10, 5-10-5). The 1st number is Nitrogen, 2nd is Phosphorus, and the 3rd number is Potassium.

NEVER APPLY LAWN CHEMICALS BEFORE A HEAVY RAIN

Proper irrigation will help the fertilizer be absorbed, making it less likely to runoff.

HANDLE AND STORE LAWN CHEMICALS SAFELY

Do not mix, apply, or dispose of pesticides or herbicides within 100 ft. of your well, a storm drain, or any surface water.

HOUSEHOLD HAZARDOUS WASTE COLLECTION DAY

Dispose of all unwanted chemicals at the Household Hazardous Waste Collection Day, held each year on the 1st Saturday in October.

IF YOU HAVE ANY QUESTIONS, PLEASE CALL 603-772-1345, OR VISIT WWW.TOWN.EXETER.NH.US/STORMWATER

STORMWATER RUNOFF IS CONSIDERED THE NO. 1 SOURCE OF WATER POLLUTION IN THE US!

- US EPA

PROVIDED BY THE TOWN OF EXETER DEPARTMENT OF PUBLIC WORKS



WHAT YOU DO TO YOUR LAWN AFFECTS OUR RIVERS, STREAMS, AND DRINKING WATER

BEFORE YOU APPLY THOSE LAWN PRODUCTS, KNOW THESE IMPORTANT FACTS:

FACT

The Nitrogen and Phosphorus in fertilizers can travel great distances and end up in local waterways. Once the nutrients from fertilizer enter a water body, they dramatically increase the growth of algae. Algae blocks sunlight and leads to the death of fish and aquatic vegetation.

FACT

Pesticides & Herbicides can travel from your lawn and gardens and contaminate our waterways with chemicals that are toxic to both humans and animals.

TIPS

TEST YOUR SOIL

You may not need to add anything. For more information on the soil testing program at UNH, call 603-862-3200.

USE ORGANIC MATERIALS

Grass clippings can provide the soil with nutrients, reducing chemical needs by up to 25%. You can use compost as a slow-release fertilizer. *Compost is available FREE at the Transfer Station*.

2014 EXETER RIVER WATERSHED VRAP DATA



Measurements not meeting New Hampshire surface water quality standards Measurements not meeting NHDES quality assurance/quality control standards

^A Specific conductance > 835 μ S/cm indicate exceedance of chronic chloride standard of 230 mg/L

^B Chronic water quality standard

^c Calculated using 1/2 of the 0.25 mg/L detection limit of TKN (0.125 mg/L)

Date	Time of Sample	DO (mg/L)	DO (% sat.)	рН	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)	Chloride (mg/L)	E. coli (CTS/100mL)	<i>E.coli</i> Geometric Mean
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm ^A	NA	230 ⁸	^B >406	<126
01/28/2014	10:30	13.77	94.5	5.87	0.50	196.9	0.0	33		
06/30/2014	09:40	7.29	83.6	6.50	1.4	219.5	22.2	47	70	
07/18/2014	10:35	6.66	76.3	6.68	1.2	210.5	22.6	41	120	
08/22/2014	11:35	8.16	88.1	6.42	0.9	190.6	19.1	38	570	169

15-EXT, Exeter River, Haigh Road, Exeter - NHDES Trend Station

15-EXT, Exeter River, Haigh Road, Exeter (Cont.)

Date	Time of Sample	Total Phosphorus (mg/L)	Total Kjeldahl Nitrogen (mg/L)	Nitrite (NO2)+ Nitrate(NO3) (mg/L)	Total Nitrogen (mg/L)
Standard	NA	Narrative	Narrative	Narrative	Narrative
01/28/2014	10:30	0.0322	ND	0.20	0.33 ^c
06/30/2014	09:40	0.0166	0.34	0.18	0.52
07/18/2014	10:35	0.0149	0.37	0.10	0.47
08/22/2014	11:35	0.0321	0.41	0.17	0.58

Date	Time of Sample	DO (mg/L)	DO (% sat.)	рН	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)
Standard	NA	NA >5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm ^A	NA
05/20/2014	09:00	6.23	63.5	6.57	1.6	196.9	16.3
06/24/2014	08:47	5.97	66.7	6.42	3.8	220.5	20.8
08/04/2014	09:50	5.93	67.6	6.48	1.8	213.4	21.9

14-EXT, Exeter River, Pickpocket Dam/Cross Road Bridge, Exeter

13-EXT, Exeter River, Kingston Road (Route 111) Bridge, Exeter

Date	Time of Sample	DO (mg/L)	DO (% sat.)	рН	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)
Standard	NA	NA >5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm ^A	NA
05/20/2014	09:31	9.25	94.6	6.42	1.6	199.0	16.5
06/24/2014	09:13	8.27	91.5	6.55	2.8	225.6	20.3
08/04/2014	10:04	8.59	97.3	6.67	1.4	215.4	21.5

12A-EXT, Exeter River, Linden Street Bridge, Exeter

Date	Time of Sample	DO (mg/L)	DO (% sat.)	рН	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm ^A	NA
05/20/2014	09:52	8.99	91.6	6.57	2.3	202.2	16.2
06/24/2014	09:42	7.42	83.5	6.44	3.4	228.6	21.1
08/04/2014	10:21	7.84	88.9	6.65	1.9	216.7	21.6

Date	Time of Sample	DO (mg/L)	DO (% sat.)	рН	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 μS/cm ^A	NA
05/20/2014	10:15	8.93	91.2	6.45	1.9	203.5	16.5
06/24/2014	10:05	7.04	79.1	6.34	3.4	230.0	21.2
08/04/2014	10:43	7.55	85.8	6.51	2.1	231.2	21.7

12-EXT, Exeter River, Court Street/Route 108 Bridge, Exeter

05-LTE, Little River, Garrison Road Bridge, Exeter

Date	Time of Sample	DO (mg/L)	DO (% sat.)	рН	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm ^A	NA
05/19/2014	09:42	8.67	86.4	6.19	4.1	203.5	15.2
06/23/2014	08:52	8.58	90.1	6.61	8.9	221.8	17.7
08/05/2014	09:01	8.51	95.5	6.98	3.6	274.4	21.0

02-LTE, Little River, Linden Street Bridge, Exeter

Date	Time of Sample	DO (mg/L)	DO (% sat.)	рН	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 μS/cm ^A	NA
05/19/2014	10:18	8.81	90.3	6.39	5.8	204.8	16.4
06/23/2014	09:19	7.10	76.1	6.38	12.1	251.5	18.7
08/05/2014	09:26	5.83	67.1	6.51	4.5	272.2	22.3

Date	Time of Sample	DO (mg/L)	DO (% sat.)	рН	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm ^A	NA
05/19/2014	10:37	8.44	86.4	6.28	6.3	214.3	16.1
06/23/2014	09:42	7.29	83.1	6.39	10.3	250.9	21.8
08/05/2014	10:09	8.63	103.7	6.75	5.7	280.1	24.7

00-LTE, Little River, Gilman Street Bridge, Exeter

09-EXT, Exeter River, High Street Bridge, Exeter

Date	Time of Sample	DO (mg/L)	DO (% sat.)	рН	Turbidity (NTUs)	Specific Conductance (µS/cm)	Water Temp. (°C)
Standard	NA	>5.0	>75% Daily Average	6.5-8.0	<10 NTU above background	835 µS/cm ^A	NA
05/20/2014	10:36	8.00	83.3	6.47	2.1	203.8	17.3
06/24/2014	10:19	7.59	86.1	6.35	3.3	228.5	21.6
08/04/2014	11:01	5.86	69.8	6.32	2.2	233.0	24.1





Trail Committee Meeting Mon, May 4th 7:00pm - 9:30pm