Year 4 Annual Report

New Hampshire Small MS4 General Permit

Reporting Period: July 1, 2021 - June 30, 2022

Town of Exeter

EPA NPDES Permit Number NHR041007

Certification of Small MS4 Year 4 Annual Report

"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
T :41 -	Town Manager
Title	
Signature	
Date	9-28-22

Contact Information

Primary MS4 Program Manager Contact Information:

Name: Nils Larson

Title/Position: Engineering Tech

Department: Public Works

Street Address: 13 Newfields Road

City: Exeter

State: New Hampshire

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Small MS4 Authorization

The following annual report, which serves as a self-assessment, is intended to document the activities undertaken over the **reporting period from July 1, 2021 through June 30, 2022** in accordance with the Permit.

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

https://www3.epa.gov/region1/npdes/stormwater/nh/tms4noi/exeter.pdf

Compliance activities have been identified and described in the Town of Exeter's Stormwater Management Plan (SWMP) and Illicit Discharge Detection and Elimination Plan (IDDE). Those documents and other pertinent Year 4 information can be found attached to this submission or at the following websites, and will be referred to throughout this report:

SWMP: <u>https://www.exeternh.gov/publicworks/stormwater</u> (posted under MS4 Phase II Stormwater General Permit)

Date SWMP was Last Updated: 7/1/2022

[June 2019 (full document); Attachment 4.1 Site Plan Review and Construction Site Inspection and Enforcement Procedures (June 2020); Appendix 6.1 O&M Procedures for Municipally-Owned or Operated Parks and Open Spaces, Buildings and Facilities, Vehicles and Equipment, and Infrastructure (May 2021), and Appendix 5.1 Regulation Assessment Report (July 2022)] IDDE Program Plan: Located at the Exeter Public Works Department – 13 Newfields Road

SSO Inventory: <u>https://www.exeternh.gov/publicworks/combined-sewer-sanitary-sewer-overflows</u>

Dry Weather Screening Data: See attached submission

Inventory and Ranking of Outfalls/Interconnections: See attached submission

Wet Weather Screening Data: N/A

Catchment Investigation Data: N/A

Illicit Discharge Removal Report: See attached submission

Nitrogen Source Identification Report: <u>https://www.exeternh.gov/publicworks/stormwater</u> (posted under Stormwater Reports and Documents). Refer to Appendix F & H of this annual report for additional information.

Self-Assessment

Select the impairment(s) and/or TMDL(s) that are applicable to your MS4. Make sure you are referring to the 2018 EPA approved Section 303(d) Impaired Waters List which was used for the Year 4 reporting period and can be found here:

https://www.des.nh.gov/sites/g/files/ehbemt341/files/documents/2020-01/2018-epa-approval-20200225.pdf (EPA Approval Letter)

https://www.des.nh.gov/sites/g/files/ehbemt341/files/documents/2020-01/2018-303d.xlsx (Appendix A.1 – 303(d) List)

All **Appendix F and H requirements** can be found under "Appendix F and H: Water Quality Limited Waters & TMDLs" section of this report.

Impairmer	nt(s)				
\boxtimes	Bacteria/Pathogens		Chloride	\boxtimes	Nitrogen
	Phosphorus	\boxtimes	Solids/ Oil/ Grease (Hyd	lroca	rbons)/ Metals
TMDL(s)					
\boxtimes	Bacteria and Pathogens		Chloride		Lake and Pond Phosphorus

Receiving Waters/Impaired Waters/TMDL

Have you made any changes to your lists of receiving waters, outfalls, or impairments since the NOI was submitted?

🛛 Yes

The Town of Exeter has made changes to the list of receiving waters, outfalls, or impairments since the NOI submission. The following impairments and/or TMDLs have been added or delisted:

Water Quality Impaired Waters: None

TMDL: None

Changes made included adding interconnections to DOT's MS4, reviewing and updating the number of outfalls discharging to each receiving water, and removing water segments that did not have outfalls discharging to them.

Describe progress made on any **incomplete requirements** listed above **or** optionally provide any additional relevant details, in the box below:

N/A

Minimum Control Measures

MCM 1: Public Education

Total number of all MS4 related educational efforts completed *during this reporting period*: 13

BMP 1: Pet Waste Brochures/Pamphlets

Outreach Resources:

"Every Drop" post cards or flyer <u>https://stateofourestuaries.org/everydrop/every-drop-</u> <u>matters/for-towns/</u> "Every Drop Pledge" <u>https://stateofourestuaries.org/everydrop/petpledge/</u> See Attachment for Facebook Post "Reach"

Description:

Distribution and promotion of "Every Drop" post cards or flyers with proper pet waste management, impacts of improper management, pet waste ordinance, and disposal requirements messaging. May include pledge to pick up pet waste to be made available during dog registration and other events or venues (veterinarians, dog training, groomers, etc.). Every Drop is a collaborative education effort with Piscataqua Region Estuaries Partnership (PREP), New Hampshire Department of Environmental Services (NHDES), and other partners.

Targeted Audience:

Residents, businesses, institutions, and commercial facilities

Responsible Department/ Parties:

Engineering/Town Clerk

Measurable Goal(s):

Dog owners and/or dog walkers are aware of the potential water quality impacts from pet waste, local pet waste ordinances, and how to dispose of pet waste properly. If pledges are signed, there will be an increase of dog owners committed to picking up pet waste. For additional information, refer to: <u>https://www4.des.state.nh.us/nh-ms4/?page_id=54</u>, "Minimum Control Measure 1: Public Outreach and Education".

Following is the number of residents that pledged through the PREP "Every Drop" website during this reporting period: 0

The Town continued to use the "Every Drop" flyer. Flyers were made available at the Public Works Department office. Additionally, the Town posted on Facebook encouraging dog owners to pick up and properly dispose of pet waste. One of the Facebook posts included a

link to the Think Blue: Pet Waste webpage that included a complete list of pet waste stations in Exeter as well as other information, including links to the Every Drop Scoop the Poop pledge. As a method to assess the measurable goal, the reach for social media posts in Year 4 related to BMP 1 were tallied with a total reach of 2,676. Posts included those related to proper pet waste disposal.

Year 4 goal was achieved.

Message Date: Annually in spring and through the permit year

BMP 2: Clean Water/Healthy Lawn Brochures/Pamphlets

Outreach Resources:

5 Easy Steps "Healthy Lawns – Clean Water": <u>https://www.exeternh.gov/bcc/exeters-healthy-lawns-clean-water-initiative</u> Facebook Page: <u>https://www.facebook.com/exeterhealthylawnscleanwater/</u> See Attachment for Facebook Post "Reach"

Description:

Distribute Clean Water/Healthy Lawns information

Targeted Audience:

Residents, businesses, institutions, and commercial facilities

Responsible Department/ Parties:

Natural Resource Planner

Measurable Goal(s):

To see an increased awareness of proper fertilizer use. The following is a summary of Healthy Lawns Clean Water efforts during Year 4:

- A Healthy Lawns Clean Water display was included in the Alewife Festival, which was hosted by the Town of Exeter in April 2022. The festival was an environmental fair timed to coordinate with the running of the alewives. Participants included NH Fish and Game, Exeter Conservation Commission, River Study Committee, Sustainability Advisory Committee, Public Works Department, Exeter Squamscott Local Advisory Committee, and Energy Committee. Relevant displays or presentations addressed river restoration and its role in water quality improvement and fish habitat improvement, recycle right, composting, rain barrel display, groundwater model, stormwater enviroscape model, stormwater pollution, healthy lawns clean water, and lawn conversion to native plant pollinator habitat. The Town estimates approximately 50-75 attendees.
- The Healthy Lawns Clean Water Facebook page has over 160 followers and over 150 likes as of September 2022.
- The Healthy Lawns Clean Water Facebook page continued to post new content.

• Healthy Lawns Clean Water was tagged in posts on the Exeter Conservation Commission Facebook page.

In the past, the Town partnered with the Great American Rain Barrel Company for residents to purchase rain barrels. In 2022, to promote water conservation, Public Works upcycled previously used, 35-gallon barrels to be re-purposed as rain barrels for residents of Exeter. Public Works distributed 65 rain barrels in 2022. The Town continued engagement on social media and continued interest in rain barrels. As a method to assess the measurable goal, the reach for social media posts in Year 4 related to BMP 2 were tallied with a total reach of 10,667. Posts included those related to healthy lawns, rain barrel program, the Alewife festival, etc.

Year 4 goal was achieved.

Message Date: Annually in the spring

BMP 5: Septic Smart Displays/Poster/Kiosks

Outreach Resources:

Think Blue Exeter: <u>https://www.exeternh.gov/bcc/think-blue-septic-system-maintenance</u> Septic Smart Week posters See Attachment for Facebook Post "Reach"

Description:

Utilize Septic Smart posters to encourage residents to inspect and maintain their septic systems each year.

Targeted Audience:

Residents with septic systems

Responsible Department/ Parties:

Engineering/Planning Department

Measurable Goal(s):

To see an increase in septic system testing/maintenance. In Year 4, the Septic Smart posters were displayed at the Town Clerk's and Public Works offices during Septic Smart Week in September 2021. Additionally, the Town posted information during Septic Smart week on the Public Works Department, Conservation Commission, and Exeter Healthy Lawns Clean Water Facebook pages, and the Think Blue Exeter website includes a septic system maintenance page with similar information. As a method to assess the measurable goal, the reach for social media posts in Year 4 related to BMP 5 were tallied with a total reach of 4,472. Posts included those related to Septic Smart Week.

Year 4 goal was achieved.

Message Date: Annually in the fall during Septic Smart week

BMP 6: Leaf and Yard Waste Collection

Outreach Resources:

Flyers at Town Office, Public Works, and Library Yard Waste poster displayed at the HHW Collection Day See Attachment for Facebook Post "Reach"

Description:

Post notices of leaf and yard waste collection.

Targeted Audience:

Residents, businesses, institutions, and commercial facilities

Responsible Department/ Parties:

Highway Department

Measurable Goal(s):

To see an increase in the disposal of leaf and yard waste at the transfer station. In Year 4, notices were posted on the town's website and on social media, and flyers were displayed at the Town Office, Public Works, and Library. Additionally, town clerks distributed an informational packet with each registration that had information on yard waste disposal, recycling, and composting programs in town. Curbside collection of leaf and grass waste is available twice per year (once in the spring and once in the fall). Leaves and grass waste can also be taken to the Transfer Station during normal operating hours. Leaves and grass are composted at the transfer station, and the finished compost is free to Exeter residents. As a method to assess the measurable goal, the reach for social media posts in Year 4 related to BMP 6 were tallied with a total reach of 5,008. Posts included those related to curbside leaf collection (spring and fall). A poster was also displayed at the regional HHW Collection event to be viewed by the people waiting to drop off their waste. There were 94 households from Exeter who attended the HHW event and are assumed to have seen the poster.

Year 4 goal was achieved.

Message Date: Annually in the spring and fall

BMP 7: Exeter Conservation Commission's Guest Speaker Night

Description:

Organize and host an Exeter Conservation Commission's Guest Speaker Night.

Targeted Audience:

Developers (construction)

Responsible Department/ Parties:

Natural Resources Planner/Engineering/Planning Department

Measurable Goal(s):

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. A Guest Speaker Night was not held in Year 4.

See additional relevant details below. Revised BMP was achieved in Year 4.

Message Date: Suggested time for this BMP was Year 4

Describe progress made on any **incomplete requirements** listed above **or** optionally provide any additional relevant details, in the box below:

The Exeter Conservation Commission's Guest Speaker Night aimed at Developers (construction) was not held in Year 4. BMP 7 (Exeter Conservation Commission's Guest Speaker Night) was removed from the SWMP and replaced with a BMP to provide information about EPA's Construction General Permit to local contractors to raise their awareness of the permit. In Year 4, the Town provided Construction General Permit outreach related to the new and updated requirements of the 2022 EPA Construction General Permit. The Town sent an email on February 23, 2022 to individuals who held a Certified Pipe Layer's license in the Town of Exeter. The email notified them of changes to the construction general permit. The email included a link to the construction permit changes and a webinar training. Additionally, Public Works discusses the construction checklist to identify responsible parties, erosion control practices, and other best management practices, and requirements of the EPA Construction General Permit at the Technical Review Committee meetings as well as pre-construction meetings.

Additional Public Education and Outreach conducted in Year 4: Conservation and Sustainability Planner presented a three-day program to eighth grade science students at the Cooperative Middle School. Students learned about stormwater pollution, the role of natural buffers around wetlands and waterbodies, and how to monitor water quality based on pH, temperature, dissolved oxygen, and specific conductance.

MCM 2: Public Participation

⊠ Provided an opportunity for public participation in review and implementation of SWMP and complied with State Public Notice requirements as described in the Town of Exeter SWMP.

Kept records relating to the permit available for 5 years and made available to the public

Describe the opportunity provided for public involvement in the development of the Stormwater Management Program (SWMP) *during this reporting period*:

Description: The Town of Exeter's Stormwater Management Program (SWMP) is available to the public for review on the Town's website or at the Public Works Department office during regular business hours. Documents and records relating to the SWMP are retained and available to the public for five years at the Exeter Public Works Department. The public is encouraged to submit written comments on the SWMP. Instructions on how to do this (email address provided of where to submit comments) are included on the Town's Stormwater website (<u>https://www.exeternh.gov/publicworks/stormwater</u>). No comments were received in Year 4.

Measurable Goal(s): Make SWMP publicly available and receive input on the SWMP from the public. No comments were received in Year 4; records continue to be maintained.

Year 4 goal was achieved.

Describe any other public involvement or participation opportunities conducted during this reporting period:

The Town hosted a community roadside clean up in April 2022. Public Works provided bags and collected the bagged litter that was placed roadside by volunteers. There were at least 20 participants from the public. Additionally, the Conservation and Sustainability Planner participated in the "A Tale of Two Dams" presentation organized by the Ipswich River Watershed Association. She presented information about the Exeter Dam removal process to members of the public in a hybrid in-person, virtual event on April 19, 2022. Approximately 50 people attended online and approximately 20 people attended in person. The Conservation and Sustainability Planner and a member of the Exeter Historical Society participated in a program "Lessons Learned from Removing the Great Dam in Exeter" for Durham, NH residents put on by the Great Bay - Piscataqua Waterkeeper and Free the Oyster River virtual event on March 3, 2022. Approximately 8 people attended.

Describe progress made on any **incomplete requirements** listed above **or** optionally provide any additional relevant details, in the box below:

N/A

MCM 3: Illicit Discharge Detection and Elimination (IDDE)

Sanitary Sewer Overflows (SSOs)

□ This SSO section is NOT applicable because we DO NOT have sanitary sewer.

 \Box This SSO section is NOT applicable because we DID NOT find any new SSOs.

☑ The SSO inventory has been updated, including the status of mitigation and corrective measures implemented or was addressed and can be found at the following website https://www.exeternh.gov/publicworks/combined-sewer-sanitary-sewer-overflows.

Below, report on the number of SSOs identified in the MS4 system and removed:

Number of SSO's identified *during this reporting period*: 1

Number of SSO's removed *during this reporting period*: 1

MS4 System Mapping

Updated system map due in Year 2 as necessary:

Provide additional status information regarding your map:

Map of storm sewer system and associated outfalls is continually updated to reflect findings and changes.

Screening of Outfalls/Interconnections

□ No outfalls were inspected for dry weather screening *during this report period*.

 \boxtimes Dry weather outfall screening data is attached to the email submission.

Dry Weather Screening

Number of outfalls screened during this reporting period: 28

Percent of total known outfalls screened to date: 100

The inventory and ranking of outfalls/interconnections was updated. The revised inventory and ranking of outfalls/interconnections is attached to the email submission.

Wet Weather Screening

⊠ No outfalls were inspected for wet weather screening *during this report period*.

 \Box Wet weather outfall screening data is attached to the email submission **and/or** found at the following website: **N/A**

Number of outfalls screened during this reporting period: N/A

Percent of total outfalls screened to date: N/A

Catchment Investigations

⊠ No catchment investigations were conducted *during this report period*.

 \Box Catchment investigation data is attached to the email submission **and/or** found at the following website: **N/A**

Number of catchment investigations during this reporting period: N/A

Percentage of total catchments investigated to date (Years 1 - Year 4): N/A

IDDE Progress

□ No illicit discharges were found *during this reporting period*.

☑ The illicit discharge removal report can be found attached to the email submission.

Number of illicit discharges identified *during this reporting period*: 1

Number of illicit discharges removed *during this reporting period*: 1

Estimated gallons of flow removed *during this reporting period*: N/A

Total number of illicit discharges identified since the effective date of the permit (July 1, 2018): 2

Total number of illicit discharges removed since the effective date of the permit (July 1, 2018): 2

Employee Training

□ Provided training to employees involved in IDDE program *during the reporting period*:

Describe progress made on any **incomplete requirements** listed above **or** optionally provide any additional relevant details, in the box below:

No IDDE training was completed during Year 4. The last IDDE training was held in Year 3. The Town relied on a consultant for dry weather screening and sampling.

A system vulnerability assessment was completed and added to the Initial Outfall Inventory and Priority Ranking Matrix.

MCM 4: Construction Site Stormwater Runoff Control

The following tasks are in progress in accordance with the permit.

Number of site plan reviews completed *during this reporting period*: 18

Number of inspections completed *during this reporting period*: 97

Number of enforcement actions taken *during this reporting period*: 0

No formal enforcement action was needed on constructions sites. Minor deficiencies were noted by the inspectors for each site; however, all issues were repaired in a timely fashion.

Describe progress made on any **incomplete requirements** listed above **or** optionally provide any additional relevant details, in the box below:

The breakdown of site plan reviews includes: 6 Site Plan Review, 4 Subdivision, 5 Conditional Use Permits (2 Wetlands/3 Shoreland), 1 Lot Line Adjustment, and 2 Preliminary Design Reviews. The Town contracts with a consultant to perform third-party construction site inspections of erosion and sediment control measures during construction for all projects that get Planning Board approval. In Year 4, the number of construction sites inspected was 10 sites.

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

Ordinance or Regulatory Mechanism

☑ The Town of Exeter has regulatory mechanism consistent with permit requirements 2.3.6.a.ii.

Date regulatory mechanism was adopted: April 2018

□ A Post-Construction Ordinance has not been drafted or adopted. N/A

As-built Drawings

Number of as-built drawings received during this reporting period: 0

Retrofit Properties Inventory

☑ Identified permittee-owned properties that could potentially be modified or retrofitted with BMPs to reduce impervious cover

The Town of Exeter has identified the following permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas. The following list is based on a GIS analysis performed in 2019 using publicly available GIS layers that yielded total nitrogen pollutant load "hot spot" data per parcel. The list below includes non-conservation parcels owned by the municipality and are in descending order by acreage of impervious cover. The summary report is available at: <u>https://www4.des.state.nh.us/nh-ms4/wp-</u> content/uploads/2021/11/Pollutant-Hot-Spot_Priority-Summary-Report_Exeter_2021.pdf

Street Address	NH GIS ID
4 Hampton Rd	08072-069-004-0000
82 Linden St	08072-095-056-0000
149 Kingston Rd	08072-100-004-0000
20 Court St	08072-072-130-0000
58 Lincoln St	08072-073-275-0000
30-32 Court St	08072-072-132-0000
Bow St	08072-072-012-0000
Water St	08072-064-047-0000
4 Chestnut St	08072-072-042-0000
Front & R R Sq	08072-073-196-0000
Bow St	08072-072-006-0000

Street Address	NH GIS ID
107 Court St	08072-083-054-0000
36 Water St	08072-072-013-0000
9 Front St	08072-072-225-0000
10 Front St	08072-072-001-0000
167 Front & Winter	08072-073-188-0000
Center St	08072-072-202-0000
16-20 Auburn St	08072-071-019-0000

☑ Developed a report assessing current street design and parking lot guidelines and other local requirements within the municipality that affect the creation of impervious cover, made it available as part of the SWMP, and:

 \boxtimes No updates were recommended.

 \Box Updates were recommended. The anticipated date or date of completion for updates is: **N/A**

☑ Developed a report assessing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist, made it available as part of the SWMP, and:

 \boxtimes No updates were recommended.

 \Box Updates were recommended. The anticipated date or date of completion for updates is: **N/A**.

Describe progress made on any **incomplete requirements** listed above **or** optionally provide any additional relevant details, in the box below:

N/A

MCM 6: Good Housekeeping

Catch Basin Cleaning

- ☑ Properly stored and disposed of catch basin cleanings so they did not discharge to receiving waters
- ⊠ Report on number of catch basins inspected and cleaned, along with the total volume of material removed from the catch basins:

Number of catch basins inspected *during this reporting period*: 479

Number of catch basins cleaned *during this reporting period*: 0

Total volume or mass of material removed from all catch basins during this reporting period: 0

Total number of catch basins within the MS4 system: 1,307 +/-

Report on the actions taken if a catch basin sump is more than 50% full during two consecutive routine inspections/cleaning events: *The Town developed a catch basin optimization plan in Year 3, and is in the process of evaluating existing data and conducting training to improve data collection and the data's accuracy to better evaluate catch basin sumps more than 50 percent full during two consecutive routine inspections/cleaning events. A schedule for catch basin cleaning has been established with the goal of ensuring that a catch basin should not be more than 50% full. See end of report section for additional relevant information.*

Street Sweeping

- ⊠ Properly stored and disposed of street sweepings so they did not discharge to receiving waters
- All curbed roadways were swept at least once within the reporting period

Number of (lane) miles swept during this reporting period: 3,000 miles +/-

Volume of swept material *during this reporting period*: 100 cubic yards +/-

Note: All municipally-owned streets and municipally-owned parking lots are swept a minimum of two times per year (spring and fall). The sweeper operates from April 1 through October 31. The sweeper prioritizes sweeping the Squamscott South/Downtown district before sweeping the peripheral roadways.

Stormwater Pollution Prevention Plan (SWPPP)

☑ Implemented SWPPPs for all permittee owned or operated maintenance garages, public works yards, transfer stations, and other waste handling facilities

Number of site inspections completed *during this reporting period*: 4

Number of corrective actions taken *during this reporting period*: 6

Describe any corrective actions taken at a facility with a SWPPP:

Swept salt storage shed area (12/21/2021); cleaned up highway maintenance garage and waste oil area and replaced absorbent pads adjacent to waste oil tank (3/18/2022); neutralized leak (with lime) at the wastewater screening dumpster and constructed rain guard for cover to prevent future exposure (3/17/2022 and 3/21/2022); added stone to eroded areas along roadway and parking lot (3/23/2022), removed polymer totes stored onsite (3/22/2022); and stabilized area adjacent to resident salt shed with erosion stone and wattle (8/24/2022).

Operations and Maintenance (O & M) Programs

- ⊠ O&M programs for all permittee-owned facilities have been completed and/or updated as noted below:
- ☑ Implemented all maintenance procedures for permittee owned facilities in accordance with O&M programs

Updated inventory of all permittee-owned facilities as necessary: N/A

All permittee owned facilities, including an inventory, are included as an attachment to the SWMP. There were no changes to report during Year 4.

- ☑ Implemented program for MS4 infrastructure maintenance to reduce the discharge of pollutants as outlined in the SWMP
- ⊠ Inspected all permittee owned treatment structures (excluding catch basins) as outlined in the SWMP
- Enclosed all road salt storage piles or facilities and implemented winter road maintenance procedures to minimize the use of road salt as outlined in the SWMP

Describe progress made on any **incomplete requirements** listed above **or** optionally provide any additional relevant details, in the box below:

The Town has funding in the 2022 budget year to clean an estimated 450 catch basins in the first week of October 2022. The Town will be utilizing the catch basin optimization plan to target catch basins with high sediment loads.

The Town was unable to inspect all of the town-owned treatment structures. The Town inspected and cleaned the rain garden at the Town library in March 2022 and inspected and maintained a tree filter on Water Street in mid-April 2022. The Town plans to inspect the remaining town-owned treatment structures this calendar year.

Appendix F and H: Water Quality Limited Waters & TMDLs

Bacteria/Pathogens Impairment (Appendix H) AND TMDL (Appendix F)

- Annual message was distributed encouraging the proper management of pet waste, including noting any existing ordinances where appropriate *during this reporting period. See MCM 1, BMP 1.*
- Permittee or its agent(s) disseminated educational material to dog owners at the time of issuance or renewal of dog license, or other appropriate time *during this reporting period. See MCM 1, BMP 1.*
- Provided information to owners of septic systems about proper maintenance in any catchment that discharges to a water body impaired for bacteria *during this reporting period. See MCM 1, BMP 5.*

Describe progress made on any **incomplete requirements** listed above **or** optionally provide any additional relevant details, in the box below:

N/A

Chloride Impairment (Appendix H) – N/A

Permittee does not have a chloride impairment

Describe progress made on any **incomplete requirements** listed above **or** optionally provide any additional relevant details, in the box below:

It should be noted that Part 2.2.2.d.i.1 of the 2017 NH Small MS4 General Permit lists Exeter as a municipality/MS4 discharging to waterbodies impaired due to chloride. Upon further review and discussion with NHDES and EPA, it was determined that this listing was in error. Exeter MS4 does not discharge to waterbodies impaired due to chloride and is not subject to the enhanced requirements of Part IV of Appendix H.

Nitrogen Impairment (Appendix H)

- □ Permittee does not have a nitrogen impairment
- ☑ Distributed an annual message that encourages the proper use and disposal of grass clippings and encourages the proper use of slow-release fertilizers *during this reporting period. See BMPs 2 and 6.*

- ☑ Distributed an annual message encouraging the proper management of pet waste, including noting any existing ordinances where appropriate *during this reporting period. See BMP 1.*
- ☑ Distributed an annual message encouraging the proper disposal of leaf litter *during this reporting period. See BMP 6.*
- ☑ Increased street sweeping frequency of all municipal owned streets and parking lots subject to Permit part 2.3.7.d.iii to a minimum of two times per year (spring and fall) *during this reporting period.*

Nitrogen Source Identification Report

☑ The Nitrogen Source Identification Report can be found on the Town's Stormwater webpage under "Stormwater Reports and Documents":

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

The Town is using existing studies completed under the Water Integration for Squamscott-Exeter (WISE) Integrated Plan to meet the nitrogen source identification report requirements. See end of this report section for additional relevant information.

Potential Structural BMPs

The tracking and accounting elements associated with the NH MS4 permit are ongoing, adaptive and are consistent with Attachment 3 of Appendix F of the permit. Currently there is emergent utilization of a new database tracking system called the Pollutant Tracking and Accounting Program (PTAP) supported by NHDES and a select number of municipalities. Seacoast Stormwater Coalition communities understand the importance of this effort and are committed to continuing to work towards better tracking and accounting strategies for both structural and non-structural BMPs. PTAP theoretically has limitless expansion capacity in the region and is already integrated with the EPA Region 1 supported BMP Accounting and Tracking Tool (BATT). This emerging collaboration will be a large component of future implementation efforts. While BMP tracking and accounting programs are not fully functional, these integrated planning tools provide a comprehensive solution to successful tracking and accounting metrics now and moving forward in the future.

The Town of Exeter through its participation in the Seacoast Stormwater Coalition and continued involvement with the PTAP satisfies the tracking and accounting requirement of the municipally-owned structural BMPs listed in Attachment 3 to Appendix F. The PTAP report for Exeter of projects constructed during Year 4 (generated using BATT) is attached to the email submission.

Describe progress made on any **incomplete requirements** listed above **or** optionally provide any additional relevant details, in the box below:

The Town did not develop a separate Nitrogen Source Identification Report; rather they relied on existing documents. The Town of Exeter developed a Phase 1 and Phase 2 of the Water Integration for Squamscott-Exeter (WISE) Integrated Plan. As part of the WISE project a watershed level load model was developed to determine the nitrogen load to the Squamscott-Exeter estuary. Phase 1: Lincoln Street Subwatershed Nutrient Control Strategies (June 2017) builds off the WISE analysis to identify specific green infrastructure and low impact development practices that could be installed in Exeter to manage stormwater, reduce nutrient loads, and increase resiliency. The Phase 1 report includes site selection and BMP feasibility, best management practice retrofit opportunities, and BMP performance and pollutant load reduction, as well as other topics. The Phase 1 and Phase 2: Lincoln Street Subwatershed Control Strategies – Incentivizing Resiliency Through Implementation Plans in One of Coastal New Hampshire's Fastest Growing Communities (March 2018) report presents information from both phases of the WISE Integrated Plan. These reports help address requirements of the nitrogen source identification report and BMP optimization and prioritization. The Town also developed a Nitrogen Control Plan in 2018 and Total Nitrogen Annual Reports.

The above referenced reports can be viewed on the Town's Stormwater webpage (under Total Nitrogen Reports and Stormwater Reports and Documents): <u>https://www.exeternh.gov/publicworks/stormwater</u>

Phosphorus Impairment (Appendix H) – N/A

Permittee does not have a phosphorus impairment

Solids, Oil and Grease (Hydrocarbons), or Metals Impairment(s) (Appendix H)

□ Permittee does not have a solids, oil and grease, or metals impairment(s)

Increased street sweeping frequency of all municipal owned streets and parking lots to a schedule that targets areas with potential for high pollutant loads *during this reporting period*

Describe progress made on any **incomplete requirements** listed above **or** optionally provide any additional relevant details, in the box below:

N/A

Chloride TMDL (Appendix F) – N/A

Permittee does not have a chloride TMDL

Lake and Pond Phosphorus TMDL (Appendix F) – N/A

Permittee does not have a lake and pond phosphorus TMDL

Additional Required Information

Monitoring or Study Results

Results from other stormwater or receiving water quality monitoring or studies conducted *during the reporting period* and *not otherwise mentioned above*, where the data is being used to inform permit compliance or permit effectiveness is:

 \boxtimes Not applicable

 \Box The results from additional reports or studies are in submission and/or can be found at the following: *N/A*

Description of Any Changes in Identified BMPs or Measurable Goals

The Town of Exeter made changes as noted below to the following BMPs and/or measurable goals that were outlined in the permit and identified in the SWMP:

BMP 7 Exeter Conservation Commission's Guest Speaker Night was removed from the SWMP and replaced with BMP 7 Construction General Permit Outreach. The new measurable goal was to provide outreach to local contractors to raise their awareness of EPA's Construction General Permit. The revised BMP was achieved in Year 4.

COVID-19 Impacts

If any of the above Year 4 requirements could not be completed *during this reporting period* due to the impacts of COVID-19, please identify the requirement(s) that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

The Town of Exeter Public Works Department has felt the economic impacts from COVID-19 which have hindered hiring of staff. The Public Works Department, in general, including the Highway Department has been short staffed, as such, the Town was unable to inspect and maintain all permittee-owned treatment structures in Year 4. The Town will aim to inspect and maintain these structures in Year 5.

Activities Planned for Next Reporting Period

The Town of Exeter will continue to implement activities in accordance with the permit and SWMP.

Facebook Post "Reach"

BMP Posted By	Post Message	Posted	Reach
1 ECC	We don't like doing it any better than the next person but the statistics are staggering! Scoop the Poop. #petwaste , #MS4, #stormwater	2021-12-01T09:24:01	366
1 ECC	We see this a lot. One would think it goes without saying but please pack out your trash INCLUDING dog waste.	2021-10-20T15:57:44	122
1 ECC	We aren't sure what is cuter, the pup or the message. Until a poop fairy is discovered, we all need to Scoop their Poop! #petwaste #MS4 #stormwater	2021-10-01T09:15:26	128
	Pick up after your pet! Pet waste (including that associated with farm animals) is more than just a nightmare for our shoes. Just like human sewage, untreated pet fecal matter is		
	harmful to waterways. Rain washes pet waste containing excess nitrogen and disease-causing organisms, such as giardia and salmonella, into rivers and streams via storm drains. 😥		
	Bag it and throw it away in the nearest pet waste station or in your trash. A complete list of pet waste stations can be found on the site below! #ms4community		
1 DPW	https://www.exeternh.gov/bcc/think-blue-pet-waste	10/8/21 7:49 AM	2060
2 ECC	This is a great opportunity to learn how to care for your lawn in an environmentally friendly way. Exeter Healthy Lawns Clean Water	2022-05-04T09:47:24	91
2 ECC	This is a not-to-be-missed program! (HLCW related post)	2022-03-30T17:04:55	162
2 ECC	Tomorrow. Don t miss this wonderful opportunity. (HLCW related post)	2022-02-27T05:15:19	97
2 ECC	The power of selecting native plants.	2022-02-01T07:00:08	157
2 ECC	Do you love clean water? Commit to 5 clean water actions and receive a Tide Turner yard sign. #MS4community, #healthylawnscleanwater, Great Bay Stewards	2021-10-01T08:07:34	112
	Do you own property along the tidal shoreline? Here is a new resource to guide you in selecting plants suitable for these erosion and flooding prone areas.		
2 ECC	https://www.des.nh.gov/sites/g/files/ehbemt341/files/documents/tidal-erosion-planting-guide.pdf	2021-09-28T07:27:08	214
2 ECC	Do you have milkweed on your property? Help expand pollinator habitat by collecting some pods for NHDOT.	2021-09-20T08:42:21	210
2 HLCW	Tune in tomorrow to this important program. (HLCW related post)	2022-02-27T06:21:19	11
2 HLCW	Did you miss the presentation from Pollinator Pathways NH on how to "put your garden to bed". You can catch the recorded version here.	2021-10-28T06:50:09	17
2 HLCW	Check out this webinar for tips to support your lawn in a manner healthy for our planet.	2021-08-03T04:08:54	28
	Did you know that DPW is running a rain barrel program this year? They are providing pre-drilled barrels for FREE (with a donation to St. Vincent DePaul) and have a parts for supplies to	0	
2 ECC	build your own rain barrel.	2022-03-30T07:00:02	198
2 ECC	Here are some more photos from this weekends Alewife Festival.	2022-05-17T07:03:59	269
	Thank you to all the volunteers and the visitors who came out to the 2022 Alewife Festival. The winner of the kayak in the Guess the Alewife Run Date was Gwen English, and the winner	er	
	of the mascot contest was Renay Allen. Share your photos with us. Also a big thank you to Sawbelly Brewing for their custom brew Alewife Festival Alestop by and try it out for		
2 ECC	yourself while it lasts. #alewifefestival, #Alewife, #exeternh #WorldFishMigrationDay	2022-05-16T06:28:13	331
2 ECC	The Alewife Film Festival will return tomorrow from 4-6 at Exeter Town Hall.	2022-05-13T11:25:02	112
2 ECC	The story walk is in place and the weather is leaning in our favor for the 2022 #Alwife Festival. Info: exeternh.gov #exeternhalewifefestival	2022-05-11T07:18:43	1959
2 ECC	The 2022 Exeter Alewife Festival is just one week away! Follow the link for the event schedule, contest opportunities and more! #exeternhalewifefestival, #Alwife, #exeternh	2022-05-07T02:00:03	221
	Your leaf pile isn't litter. It is important habitat for loads of insects. Try leaving them this year and next summer you may be rewarded with a yard full of fireflies to enjoy!		
2 ECC	#leavetheleaves #MS4	2021-10-09T09:27:31	454
	Save your back, protect winter habitat for pollinators. #leavetheleaves #pollinatorpathways		
2 ECC	https://www.facebook.com/DavidSuzukiFoundation/photos/a.80953228873/10159641203353874	2021-10-09T07:48:50	174
	Matt & Trisha stopped by St. Vincent De Paul yesterday to drop off all the generous donations from Exeter residents during the Rain Barrel food drive!		
	4 large 65-gallon recycle totes FULL of non-perishables for St. Vincent De Paul to help stock their shelves before the Summer season.		
	46 barrels (that residents can convert to rain barrels) have been distributed to residents who brought in a bag of non-perishables for SVDP!		
	Water conservation is one of our top priorities. We take pride in sustainability and want to be sure that residents have the opportunity to reduce their water usage to conserve water!		
	Be sure to reach out if you'd like to reserve a barrel! publicworks@exeternh.gov		
	be sure to reach out in you d'like to reserve a barren public works@exeternin.gov		
	pictured:		
	Trisha Allen, Public Works Business Manager		
	Matthew Berube, Water Sewer Manager		
	St Vincent de Paul Exeter		
	#PublicWorksMakesItHappen		
	#publicworks		
2 DPW	https://www.exeternh.gov/publicworks/rain-barrels	2022-06-09T04:28:17	408

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BMP Posted By	Exeter Facebook Posts Year 4 (July 1, 2021 - June 30, 2022) Post Message	Posted	Reach
2 DPW	More photos from the Alewife fest!	2022-05-17T12:12:58	508
	Yesterday's Alewife fest was a success!		
	The alewives arrived on Friday, but don't worry you'll still be able to see them for at least the next few days! NH Fish and Game did a great job giving us all an upclose look at the		
	beautiful blue back alewives and a lamprey (not so pretty)!		
	The majority of folks were curious about our new rain barrel program Did you reserve yours or pick up yours yet?		
	Let me know when you'll be by to pick it up and in exchange we just as for donations for St. Vincent De Paul!		
	So far we've given out 38 rain barrels & collected roughly 3 large recycle toters full of donations for SDVP! >ØöÞ>ØáÝ>ØöÞ		
2 DPW	https://www.exeternh.gov/publicworks/rain-barrels	2022-05-15T06:33:13	449
2 DPW	@trisha_allen Alewife festival 2022! A festivals celebrating the return of the alewives, conservation & sustainability! @exeter_tv	2022-05-14T07:58:27	117
	Ready for your questions at the Alewife Festival! =ØÜ		
	Alewife history:		
	Longer than people have lived along the banks of the Squamscott River, the alewives have run its waters, headed upstream each spring during the vernal equinox, when daylight and		
	darkness are evenly split. Anadromous fish, they fulfill their ancient migration ritual, leaving the salt waters of the ocean and bay to spawn upstream of the falls in the fresh water of the		
	Exeter River. Male alewives first enter the river during daylight hours. Females spawn at night, laying as many as 200,000 eggs, only three of which might survive. After spawning, many		
	alewives die. Those that live return to the ocean within a few days.		
	#publicworks		
	#alewifefestival		
	#recycleright		
	#clothesarenttrash		
	#mrfoxcomposting		
	#NPWW		
2 DPW	#NationalPublicWorksWeek	2022-05-14T06:37:02	140
	Ready for your questions at the Alewife Festival! =ØÜ		
	Alewife history:		
	Longer than people have lived along the banks of the Squamscott River, the alewives have run its waters, headed upstream each spring during the vernal equinox, when daylight and		
	darkness are evenly split. Anadromous fish, they fulfill their ancient migration ritual, leaving the salt waters of the ocean and bay to spawn upstream of the falls in the fresh water of the		
	Exeter River. Male alewives first enter the river during daylight hours. Females spawn at night, laying as many as 200,000 eggs, only three of which might survive. After spawning, many		
	alewives die. Those that live return to the ocean within a few days.		
	https://www.exeterhistory.org/exeter-history/2016/6/24/exeters-alewives		
	#publicworks		
	#alewifefestival		
	#recycleright		
	#clothesarenttrash		
	#mrfoxcomposting		
	#NPWW #NationalPublicWorksWeek	2022 05 14706-02-20	C2.4
2 DPW		2022-05-14T06:02:20	634

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	Exeter Facebook Posts Year 4 (July 1, 2021 - June 30, 2022)		Page 3 of
BMP Posted By	Post Message	Posted	Reach
	Don't forget to stop by outside of the Exeter Public Library NH to help us celebrate the return of the Alewifes!		
	Alewife Fest		
	Saturday, May 14th		
	9am - 1pm		
	Test your RECYCLING knowledge at our table!		
	There will be food, music, activities for kiddos, a kayak tour, sustainable solutions, educational displays, and more!		
	Don't forget to get your Alewife costume ready for the costume contest!		
2 DPW	Bring your appetite for: Winniez Mobile Diner	2022-05-11T12:15:13	548
	We have plenty of rain barrels left!		
	If you haven't picked up one yet let us know when you will come by, your address, and whether you want one that has holes drilled or not! In exchange please bring a grocery bag filled		
	with non-perishables for St Vincent de Paul Exeter!		
	We have 2 recycle toters FULL of non-perishables so far!		
2 DPW	https://www.exeternh.gov/publicworks/rain-barrels	2022-04-20T11:07:14	226
	NEW this year, we are excited to offer a sustainable rain barrel program!		
	In the past, the town partnered with Great American Rain Barrel Company for residents to purchase rain barrels. This year the Water Sewer team has taken the initiative to upcycle		
	previously used, 35-gallon chemical barrels to be re-purposed as rain barrels. Barrels are clean and the crew drilled the necessary holes in some for easy assembly. You'll just need a few		
	parts from the hardware store averaging under \$45 and your barrel will be ready in very little time!		
	A parts list will be provided when you pick up your barrel to make sure you can get started right away.		
	To reserve please contact the Public Works Office (contact info below). Let us know when you'll pick it up.		
	In exchange, all we ask is you have a standard grocery bag filled with donations for St. Vincent DePaul (wish list below). At this time we are providing 1 rain barrel per residence to ensure many Exeter residents have the opportunity to conserve water.	2	
	Water conservation is one of our top priorities. We take pride in sustainability and want to be sure that residents have the opportunity to reduce water usage to save money and water.		
	Reserve yours today by letting me know if you want a pre-drilled barrel, your address, and when you'd like to pick-up!		
2 00144	publicworks@exeternh.gov	2022 02 24745-00-02	2207
2 DPW	https://www.exeternh.gov/publicworks/rain-barrels The Alewife Festival is back! Come visit us and celebrate the return of the alewives! =ØÜ	2022-03-31T15:00:03	2307
	May 14th ~ 9am-1pm		
	Founder's Park (by the Exeter Library)		
	There will be a run, kayak tour, fun activities, sustainable informational displays, and more! =Ø Þ See you there!		
	Winniez Mobile Diner		
	Sawbelly Brewing		
2 DPW	https://www.exeternh.gov/bcc-cc/2022-alewife-festival	2022-03-24T05:30:15	513
5 ECC	This interactive graphic will help you to become #SepticSmart! #MS4	2021-09-21T08:34:08	58

	Exeter Facebook Posts Year 4 (July 1, 2021 - June 30, 2022)	Dested	Page 4 of
BMP Posted By	Post Message	Posted	Reach
5 ECC	It's the start of Septic Smart Week!	2021-09-20T08:29:21	113
	It's Septic Smart Week: This annual event focuses on educating homeowners and communities on the proper care and maintenance of their septic systems.		
5 HLCW	Print out this handy graphic to stay Septic Smart all year. #epa #SepticSmartWeek2021 #SepticSmartWeek21	2021-09-25T09:27:32	17
	It's Septic Smart Week: This annual event focuses on educating homeowners and communities on the proper care and maintenance of their septic systems.	2021-09-23109.27.32	17
	it's septic smart week. This annual event locuses on educating nomeowners and communities on the proper care and maintenance of their septic systems.		
	Here's how to be a good septic system owner:		
5 HLCW	#epa #SepticSmartWeek2021 #SepticSmartWeek21	2021-09-24T09:22:32	21
	It's Septic Smart Week. This annual event focuses on educating homeowners and communities on the proper care and maintenance of their septic systems.		
	Today's tip: Think at the Sink!		
5 HLCW	#epa #SepticSmartWeek2021 #SepticSmartWeek21	2021-09-23T09:18:50	15
JILCVV	It's Septic Smart Week. This annual event focuses on educating homeowners and communities on the proper care and maintenance of their septic systems.	2021-05-25105.18.50	L
	Today's Topic: Failure symptoms: Mind the signs!		
	A foul odor is not always the first sign of a malfunctioning septic system. Call a septic professional if you notice any of the following:		
	=Ø©Ü Wastewater backing up into household drains.		
	=Ø©Ü Bright green, spongy grass on the drainfield, especially during dry weather.		
	=Ø©Ü Pooling water or muddy soil around your septic system or in your basement.		
	A strong odor around the septic tank and drainfield.		
5 HLCW	#epa #SepticSmartWeek2021 #SepticSmartWeek21	2021-09-22T09:18:39	17
	It is Septic Smart Week! This annual event focuses on educating homeowners and communities on the proper care and maintenance of their septic systems.		
	Do you have a septic system? Here is today's tip for what you can do: Learn how your septic system works with this interactive tool.		
	https://www.gbra.org/presentations/septic/index.html		
5 HLCW	#epa #SepticSmartWeek2021 #SepticSmartWeek21	2021-09-21T08:10:45	65
5 112017	It is the start of Septic Smart Week! This annual event focuses on educating homeowners and communities on the proper care and maintenance of their septic systems.		
	Unsure if you have a septic system? Here are some indicators that you may:		
	=Ø©Ü Your street does not have any manholes labeled "sewer"		
	=Ø©Ü Your yard has an elevated bump up area in the lawn		
	=Ø©Ü Your water/sewer bill shows a \$0.00 sewer charge		
	=Ø©Ü Your neighbors have a septic system		
	Still unsure? Contact the town to find out.		
5 HLCW	#epa #SepticSmartWeek2021 #SepticSmartWeek21	2021-09-20T08:09:43	120
5 DPW	Septic Smart Week Tip# 7: Pump your tank! #ms4community #septicsmartweek	9/26/21 5:00 AM	190
5 DPW	Septic Smart Week Tip# 7: Pump your tank #ms4community #septicsmartweek https://youtu.be/-nXw5wsRJxY	9/26/21 4:00 AM	217
5 DPW	Septic Smart Week Tip# 6: Protect it and inspect it! #ms4community #septicsmartweek	9/25/21 5:00 AM	200
5 DPW	Septic Smart Week Tip# 6: Protect it and inspect it! #ms4community #septicsmartweek https://youtu.be/4eyrh4zY4ok	9/25/21 4:00 AM	201
5 DPW	Septic Smart Week Tip# 5: Sheild your field! #ms4community #septicsmartweek	9/24/21 5:00 AM	205
5 DPW	Septic Smart Week Tip# 5: Sheild your field! #ms4community #septicsmartweek https://youtu.be/Q4bTQ0PQiJA	9/24/21 4:00 AM	759
5 DPW	Septic Smart Week Tip# 4: Keep it clean! #ms4community #septicsmartweek	9/23/21 5:00 AM	151
5 DPW	Septic Smart Week Tip# 4: Keep it clean! Don't flush medications or harsh chemicals. #ms4community #septicsmartweek https://youtu.be/Tz6wx8kmr_A	9/23/21 4:00 AM	210
JUP VV		5/23/21 4:00 AM	218

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	Exeter Facebook Posts Year 4 (July 1, 2021 - June 30, 2022)		Page 5 of 5
BMP Posted By	Post Message	Posted	Reach
5 DPW	Septic Smart Week Tip# 3: Don't strain your drain! #ms4community #septicsmartweek https://youtu.be/om4mwk5VGN0	9/22/21 5:00 AM	204
5 DPW	Septic Smart Week Tip# 3: Don't strain your drain! #ms4community #septicsmartweek	9/22/21 4:00 AM	193
5 DPW	Septic Smart Week Tip #2: Don't overload the commode! #ms4community #septicsmartweek https://youtu.be/mcYAubOSEvc	9/21/21 5:00 AM	271
5 DPW	Septic Smart Week Tip #2: Don't overload the commode! #ms4community #septicsmartweek	9/21/21 4:00 AM	317
5 DPW	Septic Smart Week Tip# 1: Think at the Sink #ms4community #septicsmartweek	9/20/21 5:00 AM	305
5 DPW	We're kicking off Septic Smart Week with the most popular drain in your house the sink! #ms4community #septicsmartweek https://youtu.be/fIWoB2QtBvY Next week we focus on septic systems during Septic Smart Week! Residents on Town sewer can also benefit from these tips as well. Stay tuned for more info next	9/20/21 4:00 AM	316
5 DPW	week! U.S. Environmental Protection Agency #ms4community #septicsystem https://blog.epa.gov/tag/septic-smart/	9/17/21 4:01 AM	299
6 DPW	Just a reminder trash & recycling pick-up for today is ON SCHEDULE. Leaf pick-up will be during the week of Thanksgiving. Thanksgiving Day is the next holiday trash, recycling, and leaf pick-up will be delayed. If your pick-up day is Thursday it will be Friday, and Friday will be Saturday during Thanksgiving week. www.exeternh.gov/publicworks	11/12/21 7:54 AM	983
6 DPW	Solid Waste Updates: * Trash and recycling pick-up is on as scheduled this week. * Fall curbside leaf collection will be during the week of Thanksgiving. * Houshold Hazardous Waste Day is this Saturday! Pre-registration is REQUIRED. https://www.exeternh.gov/publicworks	10/13/21 5:47 AM	955
6 DPW	Trash and recycle pick-up is ON SCHEDULE next week. Waste Management does not have Indigenous People's Day off. The Town Offices and Public Works Office will be closed. Curbside fall leaf pick-up will be during the week of Thanksgiving, Nov. 22-27. Have a safe holiday weekend! https://www.exeternh.gov/publicworks/curbside-collection	10/13/21 3.47 AM	740
	Good Morning All! We have a lot going on (as usual). Here's some helpful updates and reminders:	10/0/21 12:22 111	, 10
6 DPW	 <Ø86 Check out the total number of pounds we have diverted from the landfill with Mr. Fox & HELPSY! <Ø86 Next week (4/18) there will be a lot of construction in the Salem Street neighborhood. Check the project page below for details. <Ø86 The annual Easter Egg Hunt put on by Parks and Rec will begin tomorrow at 10am at Swasey Parkway (start times vary depend on child's age) <Ø86 Community roadside clean-up is ongoing until Earth Day, Friday, April 22nd. Once the litter trash bags are filled please drop them off at the Transfer Station or notify Public Works where the bags are for pick up! <Ø88 We still have rain barrels available! We want to be sure that residents have the opportunity to reduce water usage to save money and most importantly water. Reservations are required. <Ø88 Water mains will be flushed during the day starting April 18th to May 6th. Flushing will be performed during the day 7:30am-2:30pm. You may experience low water pressure and discoloration of the water can and may occur. <Ø88 Spring curbside leaf pick-up is next week, April 18th-22nd. Pick-up will not be delayed due to rain or wind. Please have your leaves out before 7am on your regular pick-up day. Collection is limited to 12 biodegradable paper leaf bags. <Ø88 Alewife fest returns on May 14th 9a-1p at Founders Park outside the Library. Links to all will be in the comments below. Have a Happy Easter weekend! FRIENDLY REMINDERS! 	2022-04-15T07:59:23	1466
	 3' b Happening TODAY: Town of Exeter is participating in an annual drill related to the Seabrook Station Power Plant. You may hear sirens and see increased activity in town but this is just a drill. 3' b Water main flushing begins next week! (April 10th - May 6th) 3' b Curbside leaf pick-up will be April 18th - 22nd on your regular pick-up day 3' b Roadside litter clean-up is April 11th - 22nd (Earth Day is April 22nd) 3' b We still have rain barrels available for those interested 3' b Alewife festival at Founders Park (outside of the Library) will be May 14th 9am-1pm 3' b Sign up for our e-newsletter! 		
6 DPW	Additional information for each project/event will be found in the comments below!	2022-04-06T06:31:35	864
BMP Posted By	Description		BMP Total Reach
1 ECC/DPW	Pet Waste		2,676
	V Fertilizer, Healthy Lawn/Clean Water		10,667
	V Septic Systems		4,472
6 DPW	Leaf/Yard Waste		5,008
		Total	22,823

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Dry Weather Outfall Program Sampling Results



Memorandum

Date:	December 20, 2021
To:	Paul Vlasich P.E., Town Engineer, Department of Public Works, Town of Exeter
From:	Renee Bourdeau, P.E. (NH); Geosyntec Consultants
Subject:	Dry Weather Outfall Program Sampling Results, Exeter, New Hampshire

Geosyntec Consultants (Geosyntec) performed dry weather outfall sampling on behalf of the Town of Exeter (Town) as required by the Illicit Discharge Detection and Elimination (IDDE) Plan prepared for the Town by Wright-Pierce (Wright Pierce, 2020) and the September 15, 2021 scope of work prepared by Geosyntec. The sampling program and analytical results are summarized below.

Sampling

Based on the Updated Initial Outfall Inventory & Priority Ranking Analysis provided by the Town and prepared by Wright-Pierce, dated May 4, 2021, 18 outfall locations required dry weather sampling.

The 18 outfalls (Figure 1) were evaluated and sampled (if dry weather flow was observed) on October 7, 2021 and October 8, 2021 following a period of at least 48 hours with less than 0.1-inch of rainfall¹. During the sampling event the 3 locations had dry weather flow and samples were collected. At the remaining 15 outfalls no flow was observed with 12 being dry and 3 with stagnant water. Per the IDDE Plan, these were not sampled. Additionally, at the Town's request outfall SQRV-090 was sampled. At the time of inspection, the outfall was submerged; however, flow was observed at the next upstream manhole and samples were collected. The status of each outfall is summarized in **Table 1**.

¹ Rainfall was determined using the following sources identified in the IDDE plan: <u>https://w1.weather.gov/obhistory/KPSM.html</u> https://www.wunderground.com/history/weekly/us/nh/portsmouth/KPSM

Outfall ID	Receiving Water	Status
Interconnection_3	Taylor River - Ash Brook	Flow observed - sample collected
SQRV-170	Squamscott River South	Flow observed - sample collected
SQRV-190	Squamscott River South	Flow observed - sample collected
SQRV-090*	Squamscott River South	Outfall was submerged. Flow observed in upgradient catch basins - sample collected
Interconnection_1	Taylor River - Ash Brook	No flow
Interconnection_2	Taylor River - Ash Brook	No flow
EXRV-100	Exeter River	No flow
EXRV-110	Exeter River	No flow
LTRV-001	Little River	No flow
LTRV-010	Little River	No flow
NRBK-020	Norris Brook	No flow
SQRV-020	Squamscott River South	No flow
SQRV-060	Squamscott River South	No flow
SQRV-070	Squamscott River South	No flow
SQRV-080	Squamscott River South	No flow
SQRV-100	Squamscott River South	No flow
SQRV-130	Squamscott River South	No flow
SQRV-160	Squamscott River South	No flow
SQRV-210	Squamscott River South	No flow

Table 1. Screening Status for Outfalls Requiring Dry Weather

*Requested by the Town to be reinspected

Additionally, 9 outfalls in the May 4, 2021 memo prepared by Wright-Pierce, were identified as requiring reinspection (Figure 2). The 9 outfalls were evaluated and sampled (if necessary) on October 22, 2021 following a period of at least 48 hours with less than 0.1-inch of rainfall. Of the 9 outfalls inspected, 2 had dry weather flow and were sampled. One outfall (SQRV-180) was unable to be located and therefore, the next upgradient catch basin was inspected, and flow was observed entering the catch basin during the initial inspection. However, prior to sampling the catch basin a vehicle had parked over the catch basin making it inaccessible and samples could not be collected. The 6 remaining outfalls did not have dry weather flow. The status of each outfall is summarized in Table 2.

Dry Weather Outfall Sampling Results December 20, 2021 Page 3

Outfall ID	Receiving Water	Status
WWCK-001	Wheelwright Creek	Flow observed - sample collected
WWCK-090	Wheelwright Creek	Flow observed - sample collected
SQRV-180	Squamscott River South	Outfall could not be located. Flow observed in upgradient catch basins, but in accessible, no sample collected.
LTRV-050	Little River	No flow
LTRV-120	Little River	No flow
NRBK-001	Norris Brook	No flow
SQRV-090	Squamscott River South	No flow
WWCK-080	Wheelwright Creek	No flow
CLPD-002	Colcord Pond	No flow

Table 2. Screening Status for Outfalls Requiring Reinspection

Field Parameters

Field parameters including temperature, pH, conductivity, and salinity were measured at each outfall which had dry weather flow using a YSI Pro Series meter which was calibrated prior to each day of sampling. Field measurements for ammonia were collected using Hach Ammonia (Nitrogen) test strips. Field measurements for chlorine were collected using a Hach DR300 pocket colorimeter and field measurements for surfactants were collected using the CHEMetrics® K-9400 visual test kit. Field test kits were used in accordance with manufacturer's instructions and results were recorded in the field notes provided in Attachment 1.

Analytical Parameters

Samples were collected from each outfall with dry weather flow for the parameters identified in the September 15, 2021 Scope of Work prepared by Geosyntec. When possible, samples were collected from flowing water and placed directly into laboratory supplied bottle ware. Where access did not allow for sampling directly with the bottle ware the samples were collected using clean, dedicated unpreserved bottle ware and transferred to laboratory supplied bottle ware. Analytical samples were placed on ice and transported to Absolute Resource Associates in Portsmouth, New Hampshire under chain of custody procedures.

Dry Weather Outfall Sampling Results December 20, 2021 Page 4

Results

The results of the dry weather outfall sampling are presented in Table 3 (attached). Analytical laboratory reports are provided in Attachment 2.

Standard Monitoring Parameters

Temperature ranged from 15.1° C to 20.1° C. Conductivity ranged from 468.8 to 4,305 microsiemens per centimeter (µs/cm) and salinity ranged from 0.23 to 2.3 parts per trillion (ppt), respectively. The highest concentration for conductivity and salinity was observed at WWCK-090, located along Wheelwright Creek. pH was measured at each location and ranged from 7.28 to 8.06.

Free chlorine concentrations ranged from 0.11 to 0.84 milligrams per Liter (mg/l). Total chlorine concentrations ranged from 0.07 to 0.77 mg/l. Free and total chlorine exceeded the benchmark value of 0.02 mg/l at all six locations. Ammonia concentrations ranged from 0 to 0.25 and was not detected above the benchmark value of 0.5 mg/l. Surfactants ranged from 0.25 to 2 parts per million (ppm) and exceeded the benchmark value of 0.25 ppm at all locations.

E. Coli was detected at concentrations ranging from non-detect to 2,419.6 most probable number per 100 milliliters (MPN/100ml). Detections of E. Coli exceeded the benchmark value of 406 at SQRV-170 on October 22, 2021.

Priority Pollutants

Dissolved oxygen was measured at three of the six locations. Dissolved oxygen ranged from 8 to 9 mg/l. PAHs and oil & grease were non-detect.

Chlorophyll-a, enterococci, nitrogen, oil & grease, PAHs, and metals were measured at three locations (SQRV-090, SQRV-170, and SQRV-190). Chlorophyll-a and enterococci were not analyzed from the samples collected on October 8, 2021. Chlorophyll-a ranged from non-detect to 0.9 mg/l and total nitrogen ranged from non-detect to 1.0 mg/l. Enterococci concentrations ranged from 9.4 to 231.8 MPN.

Aluminum concentrations ranged from 0.11 to 0.20 mg/l. Zinc was detected at a concentration of 0.011 mg/l in the sample collected from SQRV-09 on October 8, 2021. Other metals were not detected.

Conclusions

As outlined in the IDDE plan, any outfalls where information gathered identifies a possible sewer input must be ranked as a Problem outfall and investigated within 7 years of the effective permit date. The criteria for sewer input indicators which include:

Dry Weather Outfall Sampling Results December 20, 2021 Page 5

- Olfactory or visual evidence of sewage;
- Ammonia $\geq 0.5 \text{ mg/L}$, surfactants $\geq 0.25 \text{ mg/L}$, and bacteria levels greater than the water quality criteria applicable to the receiving water; or
- Ammonia ≥ 0.5 mg/L, surfactants ≥ 0.25 mg/L, and detectable levels of chlorine.

The results from the dry weather outfall sampling <u>do not meet</u> the criteria in the IDDE plan for sewer input indicators or Problem outfalls. Therefore, investigations shall be completed within 10 years of the effective permit date. The results from this dry weather screening along with the System Vulnerability Factors (SVFs) will be used to prioritize the outfalls, as high or low, for future investigation.

References

Wright-Pierce. Illicit Discharge Detection and Elimination (IDDE) Plan for the Town of Exeter, NH. July 2020

* * * * *

ATTACHMENTS:

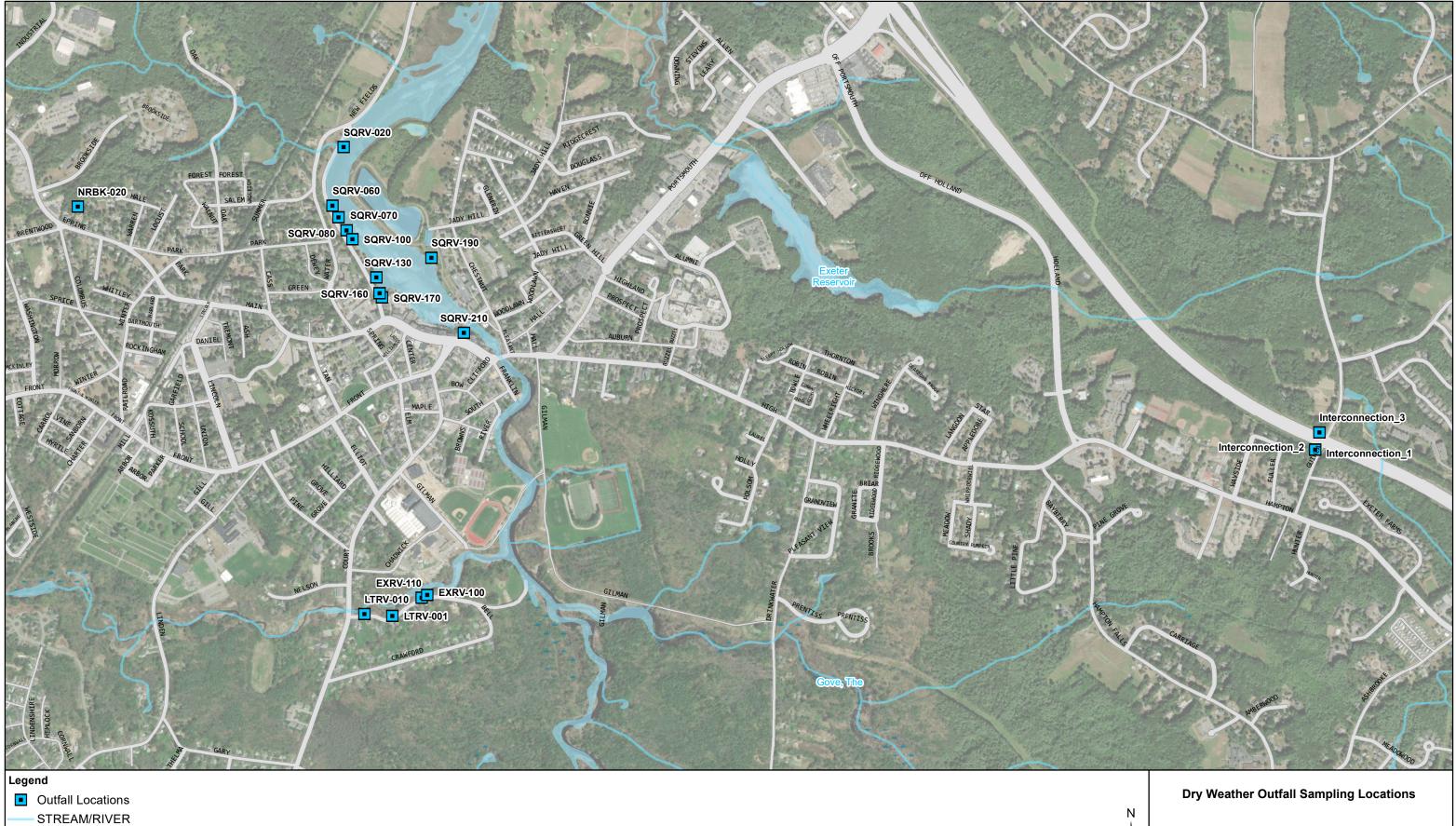
Figure 1 – Dry Weather Outfall Sampling Locations

Figure 2 – Outfall Locations for Reinspection

Table 3 – Dry Weather Outfall Sampling Analytical and Field Results

Attachment 1 – Field Notes

Attachment 2 – Analytical Laboratory Reports



- WATERBODY
- WETLAND ROAD

N	Dry weather O		uons					
Δ								
Ĩ	Geosy	Figure						
•	con	consultants						
1,080	Acton, MA	I						



Fee

Table 3 Dry Weather Outfall Sampling Analytical and Field Results Exeter, NH

Exeter, NH											
Parameter	Units	Method	Benchmark	INT-0003- 10072021 10/7/2021	SQRV-090- 10222021 10/22/2021	SQRV-170- 10222021 10/22/2021	SQRV-190- 10222021 10/22/2021	WWCK-001- 10222021 10/22/2021	WWCK-090- 10222021 10/22/2021		
Miscellaneous				-, , -	-1 1 -	-, , -	-, , -	-, , -	-, , -		
E. Coli (MPN)	MPN/100ml	9223B	406	<1.0	6.3	2419.6	23.5	325.5	30.1		
Dissolved Oxygen	mg/l	45000-C	NA		8H	8H	9H				
Total Nitrogen	mg/l	-	NA		<1.0	<1.0	<1.0				
Oil & Grease, Hem-Grav	mg/l	1664A	NA		<5	<5	<5				
Enterococci	MPN	Enterolert	NA		17.1	231.8	9.4				
Chlorophyll A	mg/l	446.0(M)	NA		<0.9	0.9	<1.8				
Nitrogen, Total Kjeldahl	mg/l	4500NH3-H	NA		0.6	0.7	0.6				
Nitrogen, Nitrate/Nitrite	mg/l	4500NO3-F	NA		<1.0	<1.0	<1.0				
Metals, Total	0,					I					
Aluminum, Total	mg/l	6010D	NA		0.11	0.13	<0.050				
Arsenic, Total	mg/l	6010D	NA		< 0.0025	<0.0025	<0.0025				
Copper, Total	mg/l	6010D	NA		<0.010	<0.010	<0.010				
Lead, Total	mg/l	6010D	NA		<0.0050	<0.0050	<0.0050				
Nickel, Total	mg/l	6010D	NA		<0.010	<0.010	<0.010				
Zinc, Total	mg/l	6010D	NA		<0.010	<0.010	<0.010				
Cadmium, Total	mg/l	6020B	NA		<0.0010	<0.0010	<0.0010				
Polycyclic Aromatic Hydroc	arbons										
2-Methylnaphthalene	ug/l	8270D-SIM	NA		<0.5	<0.5	<0.9				
Acenaphthene	ug/l	8270D-SIM	NA		<0.5	<0.5	<0.9				
Acenaphthylene	ug/l	8270D-SIM	NA		<0.5	<0.5	<0.9				
Anthracene	ug/l	8270D-SIM	NA		<0.5	<0.5	<0.9				
Benzo(a)anthracene	ug/l	8270D-SIM	NA		<0.1	<0.1	<0.2				
Benzo(a)pyrene	ug/l	8270D-SIM	NA		<0.2	<0.2	<0.4				
Benzo(b)fluoranthene	ug/l	8270D-SIM	NA		<0.1	<0.1	<0.2				
Benzo(ghi)perylene	ug/l	8270D-SIM	NA		<0.5	<0.5	<0.9				
Benzo(k)fluoranthene	ug/l	8270D-SIM	NA		<0.5	<0.5	<0.9				
Chrysene	ug/l	8270D-SIM	NA		<0.5	<0.5	<0.9				
Dibenzofuran	ug/l	8270D-SIM	NA		<0.5	<0.5	<0.9				
Dibenzo(a,h)anthracene	ug/l	8270D-SIM	NA		<0.1	<0.1	<0.2				
Fluoranthene	ug/l	8270D-SIM	NA		<0.5	<0.5	<0.9				
Fluorene	ug/l	8270D-SIM	NA		<0.5	<0.5	<0.9				
Indeno(1,2,3-cd)pyrene	ug/l	8270D-SIM	NA		<0.1	<0.1	<0.2				
Naphthalene	ug/l	8270D-SIM	NA		<0.5	<0.5	<0.9				
Phenanthrene	ug/l	8270D-SIM	NA		<0.5	<0.5	<0.9				
Pyrene	ug/l	8270D-SIM	NA		<0.5	<0.5	<0.9				
Field Measurements	00			26.4	46.55	45.51	46.75	46.00	46.00		
Temperature	°C	FIELD	NA	20.1	16.86	15.61	16.74	16.00	16.03		
pH	SU	FIELD	NA	7.28	7.5	7.37	7.95	8.06	7.48		
Conductivity	(uS/cm)	FIELD	NA	1094	656	2913	1051	564	4305		
Salinity	ppt	FIELD	NA	0.54	0.32	1.52	0.52	0.27	2.30		
Ammonia	mg/l	FIELD	0.5	0.25	0.25	0.25	0.25	0	0		
Free Chlorine	mg/l	FIELD	0.02	0.15	0.21	0.14	0.22	0.16	0.11		
Total Chlorine	mg/l	FIELD	0.02	0.07	0.23	0.14	0.23	0.18	0.09		
Surfactants	ppm	FIELD	0.25	0.5	0.5	1.5	0.5	0.75	2		

Notes:

1. Definitions:

 ${\sf B}={\sf A}$ low level of this analyte was also detected in the method blank

H = Sample was received beyond the method holding time

U = parameter was not detected above the laboratory reporting limit shown

-- = parameter was not analyzed for in that sample

NA = no benchmark value has been established in the IDDE Plan.

SU = standard units

ug/l = micrograms per liter

mg/I = milligrams per liter

MPN = most probable number

2. Highlighting indicates an exceedance of the benchmark value. Benchmark values are from Table 6-3 of the Illicit Discharge Detection and Elimination (IDDE) Plan prepared by Wright-Pierce for the Town of Exeter in July 2020.

3. Analytical samples were analyzed by Absolute Resource Associates in Portsmouth, New Hampshire.

4. Field measurements were taken from a YSI which was calibrated in the field daily.

OUTFALL SAMPLING RECORD	Geosyntec consultants 289 Great Road, Acton, MA 01720 Phone: 978-263-9588, Fax: 978-263-9594
Project Name:ExeterProject Number:BR0595Field Personnel:B. D'Ascoli and E. GrimesDate:10/ 7/2021	Page of Recorded by: <u>E Grimes</u> Weather: <u>Sunny</u> , 705

Outfall ID	Time	e Temp pH Sp. Conductivity Salinity Amm		Ammonia	Free Chlorine	Total Chlorine	Surfactants	s Comments		
		°C	(units)	(µS / cm)	ppt	mg/L	mg/L	mg/L	ppm	-
INT-003	1148	20.1	7.28	1094	0.54	0.25	1.00	2.00	0.50	
				EC						
		al.								-

OUTFALL SAMPLING RECORD	Geosyntec consultants 289 Great Road, Acton, MA 01720 Phone: 978-263-9588, Fax: 978-263-9594
Project Name:ExeterProject Number:BR0595Field Personnel:B. D'Ascoli and E. GrimesDate:10/8/2021	Page _ of _ I Recorded by: E. Grimes Weather: Sunny, 60s

Outfall ID	Time	Temp	рН	Sp. Conductivity	Salinity	Ammonia	Free Chlorine	Total Chlorine	Surfactants	Comments	
		°C	(units)	(µS / cm)	ppt	mg/L	mg/L	mg/L	ppm		
SQRV-110	800	15.1	7.88	1058	0.53	ð	0.84	0.77	0.50		
SQRV-090	845	16.3	7.46	468.8	0.23	0.25	0.53	0.69	0.25	•OUTFAIL SUBM •Inspect first catch basin -=	upstream
										catch basin -	no flow Second
										· Collect from upstream ca	-ch basin
SQRV-190	915	16.1	7.73	874	0.43	0.25	0.38	0.39	0.75		
					E						

OUTFALL SAMPLING RECORD	Geosyntec consultants 289 Great Road, Acton, MA 01720 Phone: 978-263-9588, Fax: 978-263-9594
Project Name: Exeter Project Number: BR0595 Field Personnel: B. D'Ascoli and E. Grimes Date: 10/22/2021	Page <u>1</u> of <u>Recorded by: BD, EG</u> Weather: <u>2001</u> , breezy, (005-TOS

Outfall ID	Time	Temp	рН	Sp. Conductivity	Salinity	Ammonia	Free Chlorine	Total Chlorine	Surfactants	Comments
		°C	(units)	(µS / cm)	ppt	mg/L	mg/L	mg/L	ppm	
SQRV - 090	750	16.86	7.50	656	0.32	0.25	0.21	0.23	0.50	sollected from upstream catch basin
SQR1-170	830	15.61	7.37	2913	1.52	0.25	0.14	0,14	1.50	22
SQRV-190	910	16:74	7.95	[20]	0.52	0.25	0.22	0.23	0,50	
WWCK-001	930	16.00	8.06	564	0.27	0.00	0.16	0.18	0.75	
WW (K-090	945	16.03	7.48	4305	2.30	0.00	0.11	0.09	2.0	

Project ID: Exeter BR0595 Job ID: 58925 Lab Number: 58925-001 Sample ID: INT-0003-10072021 Matrix: Water

Sampled: 10/7/21	11:42	² Reporting Instr Dil'n Prep Analysis		ysis							
Parameter		Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	Reference
Total Coliform Bacteria		14.6	1.0	MPN	1	DBV		2103328	10/7/21	13:48	SM9223BColilertMPN
E. coli Bacteria		< 1.0	1.0	MPN	1	DBV		2103328	10/7/21	13:48	SM9223BColilertMPN



Job ID: 58940

Lab Number: 58940-001

Sample ID: SQRV-090-10082021

Matrix: Water

Sampled: 10/8/21 8:45		Reporting	ig Instr Dil'n		Pre	p	Anal		
Parameter	Result	Limit	Units	Factor	Analyst Dat	e Batch	Date	Time	Reference
naphthalene	< 0.5	0.5	ug/L	1	CL 10/13	/21 14356	10/18/21	14:17	SW3510C8270E
2-methylnaphthalene	< 0.5	0.5	ug/L	1	CL 10/13	/21 14356	10/18/21	14:17	SW3510C8270E
acenaphthylene	< 0.5	0.5	ug/L	1	CL 10/13	/21 14356	10/18/21	14:17	SW3510C8270E
acenaphthene	< 0.5	0.5	ug/L	1	CL 10/13	/21 14356	10/18/21	14:17	SW3510C8270E
dibenzofuran	< 0.5	0.5	ug/L	1	CL 10/13	/21 14356	10/18/21	14:17	SW3510C8270E
fluorene	< 0.5	0.5	ug/L	1	CL 10/13	/21 14356	10/18/21	14:17	SW3510C8270E
phenanthrene	< 0.5	0.5	ug/L	1	CL 10/13	/21 14356	10/18/21	14:17	SW3510C8270E
anthracene	< 0.5	0.5	ug/L	1	CL 10/13	/21 14356	10/18/21	14:17	SW3510C8270E
fluoranthene	< 0.5	0.5	ug/L	1	CL 10/13	/21 14356	10/18/21	14:17	SW3510C8270E
pyrene	< 0.5	0.5	ug/L	1	CL 10/13	/21 14356	10/18/21	14:17	SW3510C8270E
benzo(a)anthracene	< 0.1	0.1	ug/L	1	CL 10/13	/21 14356	10/18/21	14:17	SW3510C8270E
chrysene	< 0.5	0.5	ug/L	1	CL 10/13	/21 14356	10/18/21	14:17	SW3510C8270E
benzo(b)fluoranthene	< 0.1	0.1	ug/L	1	CL 10/13	/21 14356	10/18/21	14:17	SW3510C8270E
benzo(k)fluoranthene	< 0.5	0.5	ug/L	1	CL 10/13	/21 14356	10/18/21	14:17	SW3510C8270E
benzo(a)pyrene	< 0.2	0.2	ug/L	1	CL 10/13	/21 14356	10/18/21	14:17	SW3510C8270E
indeno(1,2,3-cd)pyrene	< 0.1	0.1	ug/L	1	CL 10/13	/21 14356	10/18/21	14:17	SW3510C8270E
dibenzo(a,h)anthracene	< 0.1	0.1	ug/L	1	CL 10/13	/21 14356	10/18/21	14:17	SW3510C8270E
benzo(g,h,i)perylene	< 0.5	0.5	ug/L	1	CL 10/13	/21 14356	10/18/21	14:17	SW3510C8270E
Surrogate Recovery		L	imits						
2-fluorobiphenyl SUR	58	43-116	%	1	CL 10/13	/21 14356	10/18/21	14:17	SW3510C8270E
o-terphenyl SUR	79	33-141	%	1	CL 10/13	/21 14356	10/18/21	14:17	SW3510C8270E

Lab Number: 58940-001

Sample ID: SQRV-090-10082021

Sampled: 10/8/21 8:45	F	Reporting		Instr Dil'n		Prep		Analy	sis		
Parameter	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	Reference	
Dissolved Oxygen	9 H	1	mg/L	1	SFM		2103331	11/8/21	11:19	SM4500-O G	
H = Sample was received beyond method holding time.											
Nitrite/Nitrate-N	< 1.0	1.0	mg/L	10	DBV		2103333	10/9/21	1:18	E300.0A	
Nitrogen, total	1.0	1.0	mg/L	1			2103016			Calc	
Oil and Grease	< 5	5	mg/L	1	SLB		2103424	10/18/21	7:38	E1664B	
Total Kjeldahl Nitrogen (TKN)	1.0	0.5	mg/L	1	SFM		2103362	10/12/21	9:20	ASTMD359002A	
Total Coliform Bacteria	>2419.6	1.0	MPN	1	DBV		2103334	10/8/21	11:11	SM9223BColilertMPN	
E. coli Bacteria	42.2	1.0	MPN	1	DBV		2103334	10/8/21	11:11	SM9223BColilertMPN	



Job ID: 58940

Lab Number: 58940-002

Sample ID: SQRV-170-10082021

Matrix: Water

Sampled: 10/8/21 8:00		Reporting	Instr Dil'n			Prep		Analy		
Parameter	Result	Limit	Units	Factor	Analys	t Date	Batch	Date	Time	Reference
naphthalene	< 0.5	0.5	ug/L	1	CL	10/13/21	14356	10/18/21	14:48	SW3510C8270E
2-methylnaphthalene	< 0.5	0.5	ug/L	1	CL	10/13/21	14356	10/18/21	14:48	SW3510C8270E
acenaphthylene	< 0.5	0.5	ug/L	1	CL	10/13/21	14356	10/18/21	14:48	SW3510C8270E
acenaphthene	< 0.5	0.5	ug/L	1	CL	10/13/21	14356	10/18/21	14:48	SW3510C8270E
dibenzofuran	< 0.5	0.5	ug/L	1	CL	10/13/21	14356	10/18/21	14:48	SW3510C8270E
fluorene	< 0.5	0.5	ug/L	1	CL	10/13/21	14356	10/18/21	14:48	SW3510C8270E
phenanthrene	< 0.5	0.5	ug/L	1	CL	10/13/21	14356	10/18/21	14:48	SW3510C8270E
anthracene	< 0.5	0.5	ug/L	1	CL	10/13/21	14356	10/18/21	14:48	SW3510C8270E
fluoranthene	< 0.5	0.5	ug/L	1	CL	10/13/21	14356	10/18/21	14:48	SW3510C8270E
pyrene	< 0.5	0.5	ug/L	1	CL	10/13/21	14356	10/18/21	14:48	SW3510C8270E
benzo(a)anthracene	< 0.1	0.1	ug/L	1	CL	10/13/21	14356	10/18/21	14:48	SW3510C8270E
chrysene	< 0.5	0.5	ug/L	1	CL	10/13/21	14356	10/18/21	14:48	SW3510C8270E
benzo(b)fluoranthene	< 0.1	0.1	ug/L	1	CL	10/13/21	14356	10/18/21	14:48	SW3510C8270E
benzo(k)fluoranthene	< 0.5	0.5	ug/L	1	CL	10/13/21	14356	10/18/21	14:48	SW3510C8270E
benzo(a)pyrene	< 0.2	0.2	ug/L	1	CL	10/13/21	14356	10/18/21	14:48	SW3510C8270E
indeno(1,2,3-cd)pyrene	< 0.1	0.1	ug/L	1	CL	10/13/21	14356	10/18/21	14:48	SW3510C8270E
dibenzo(a,h)anthracene	< 0.1	0.1	ug/L	1	CL	10/13/21	14356	10/18/21	14:48	SW3510C8270E
benzo(g,h,i)perylene	< 0.5	0.5	ug/L	1	CL	10/13/21	14356	10/18/21	14:48	SW3510C8270E
Surrogate Recovery		Li	imits							
2-fluorobiphenyl SUR	63	43-116	%	1	CL	10/13/21	14356	10/18/21	14:48	SW3510C8270E
o-terphenyl SUR	81	33-141	%	1	CL	10/13/21	14356	10/18/21	14:48	SW3510C8270E

Lab Number: 58940-002

Sample ID: SQRV-170-10082021

Sampled: 10/8/21	8:00	Reporting		Instr Dil'n	Prep		Analy	/sis	
Parameter	Result	Limit	Units	Factor	Analyst Date	Batch	Date	Time	Reference
Aluminum	0.20	0.050	mg/L	1	EEB 10/11/21	14343	10/12/21	4:45	E200.8
Arsenic	< 0.0025	0.0025	mg/L	1	EEB 10/11/21	14343	10/12/21	4:45	E200.8
Cadmium	< 0.0010	0.0010	mg/L	1	AGN 10/11/21	14343	10/14/21	4:03	E200.8
Copper	< 0.010	0.010	mg/L	1	EEB 10/11/21	14343	10/12/21	4:45	E200.8
Lead	< 0.0050	0.0050	mg/L	1	EEB 10/11/21	14343	10/12/21	4:45	E200.8
Nickel	< 0.010	0.010	mg/L	1	EEB 10/11/21	14343	10/12/21	4:45	E200.8
Zinc	< 0.010	0.010	mg/L	1	EEB 10/11/21	14343	10/12/21	4:45	E200.8



Job ID: 58940

Lab Number: 58940-002

Sample ID: SQRV-170-10082021

Sampled: 10/8/21 8:00	R	eporting		Instr Dil'n				Analy	/sis		
Parameter	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	Reference	
Dissolved Oxygen	8 H	1	mg/L	1	SFM		2103331	11/8/21	11:20	SM4500-O G	
H = Sample was rec	eived beyor	nd method	d holding	g time.							
Nitrite/Nitrate-N	< 1.0	1.0	mg/L	10	DBV		2103348	10/11/21	21:27	E300.0A	
Nitrogen, total	< 1.0	1.0	mg/L	1			2103016			Calc	
Oil and Grease	< 5	5	mg/L	1	SLB		2103424	10/18/21	7:38	E1664B	
Total Kjeldahl Nitrogen (TKN)	0.6	0.5	mg/L	1	SFM		2103362	10/12/21	9:20	ASTMD359002A	
Total Coliform Bacteria	>2419.6	1.0	MPN	1	DBV		2103334	10/8/21	11:11	SM9223BColilertMPN	
E. coli Bacteria	1203.3	1.0	MPN	1	DBV		2103334	10/8/21	11:11	SM9223BColilertMPN	



Job ID: 58940

Lab Number: 58940-003

Sample ID: SQRV-190-10082021

Matrix: Water

Sampled: 10/8/21 9:15		Reporting	Instr Dil'n			Prep			/sis	
Parameter	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	Reference
naphthalene	< 0.5	0.5	ug/L	1	CL 10	0/13/21	14356	10/18/21	15:18	SW3510C8270E
2-methylnaphthalene	< 0.5	0.5	ug/L	1	CL 10	0/13/21	14356	10/18/21	15:18	SW3510C8270E
acenaphthylene	< 0.5	0.5	ug/L	1	CL 10	0/13/21	14356	10/18/21	15:18	SW3510C8270E
acenaphthene	< 0.5	0.5	ug/L	1	CL 10	0/13/21	14356	10/18/21	15:18	SW3510C8270E
dibenzofuran	< 0.5	0.5	ug/L	1	CL 10	0/13/21	14356	10/18/21	15:18	SW3510C8270E
fluorene	< 0.5	0.5	ug/L	1	CL 10	0/13/21	14356	10/18/21	15:18	SW3510C8270E
phenanthrene	< 0.5	0.5	ug/L	1	CL 10	0/13/21	14356	10/18/21	15:18	SW3510C8270E
anthracene	< 0.5	0.5	ug/L	1	CL 10	0/13/21	14356	10/18/21	15:18	SW3510C8270E
fluoranthene	< 0.5	0.5	ug/L	1	CL 10	0/13/21	14356	10/18/21	15:18	SW3510C8270E
pyrene	< 0.5	0.5	ug/L	1	CL 10	0/13/21	14356	10/18/21	15:18	SW3510C8270E
benzo(a)anthracene	< 0.1	0.1	ug/L	1	CL 10	0/13/21	14356	10/18/21	15:18	SW3510C8270E
chrysene	< 0.5	0.5	ug/L	1	CL 10	0/13/21	14356	10/18/21	15:18	SW3510C8270E
benzo(b)fluoranthene	< 0.1	0.1	ug/L	1	CL 10	0/13/21	14356	10/18/21	15:18	SW3510C8270E
benzo(k)fluoranthene	< 0.5	0.5	ug/L	1	CL 10	0/13/21	14356	10/18/21	15:18	SW3510C8270E
benzo(a)pyrene	< 0.2	0.2	ug/L	1	CL 10	0/13/21	14356	10/18/21	15:18	SW3510C8270E
indeno(1,2,3-cd)pyrene	< 0.1	0.1	ug/L	1	CL 10	0/13/21	14356	10/18/21	15:18	SW3510C8270E
dibenzo(a,h)anthracene	< 0.1	0.1	ug/L	1	CL 10	0/13/21	14356	10/18/21	15:18	SW3510C8270E
benzo(g,h,i)perylene	< 0.5	0.5	ug/L	1	CL 10	0/13/21	14356	10/18/21	15:18	SW3510C8270E
Surrogate Recovery		L	imits							
2-fluorobiphenyl SUR	66	43-116	%	1	CL 10	0/13/21	14356	10/18/21	15:18	SW3510C8270E
o-terphenyl SUR	80	33-141	%	1	CL 10	0/13/21	14356	10/18/21	15:18	SW3510C8270E

Lab Number: 58940-003

Sample ID: SQRV-190-10082021

Matrix: Water

Sampled: 10/8/21	9:15	Reporting		Instr Dil'n	Prep		Analy	sis	
Parameter	Result	Limit	Units	Factor	Analyst Date	Batch	Date	Time	Reference
Aluminum	< 0.050	0.050	mg/L	1	EEB 10/11/21	14343	10/12/21	4:54	E200.8
Arsenic	< 0.0025	0.0025	mg/L	1	AGN 10/11/21	14343	10/14/21	4:11	E200.8
Cadmium	< 0.0010	0.0010	mg/L	1	AGN 10/11/21	14343	10/14/21	4:11	E200.8
Copper	< 0.010	0.010	mg/L	1	EEB 10/11/21	14343	10/12/21	4:54	E200.8
Lead	< 0.0050	0.0050	mg/L	1	EEB 10/11/21	14343	10/12/21	4:54	E200.8
Nickel	< 0.010	0.010	mg/L	1	AGN 10/11/21	14343	10/14/21	4:11	E200.8
Zinc	0.011	B 0.010	mg/L	1	AGN 10/11/21	14343	10/14/21	4:11	E200.8

B = A low level of this analyte was also detected in the method blank.



Job ID: 58940

Lab Number: 58940-003

Sample ID: SQRV-190-10082021

Sampled: 10/8/21 9:15	R	eporting	Instr Dil'n			Prep		Analy	/sis		
Parameter	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	Reference	
Dissolved Oxygen	9 H	1	mg/L	1	SFM		2103331	11/8/21	11:22	SM4500-O G	
H = Sample was rec	eived beyor	nd methoo	d holding	g time.							
Nitrite/Nitrate-N	< 1.0	1.0	mg/L	10	DBV		2103348	10/11/21	21:43	E300.0A	
Nitrogen, total	< 1.0	1.0	mg/L	1			2103016			Calc	
Oil and Grease	< 5	5	mg/L	1	SLB		2103424	10/18/21	7:38	E1664B	
Total Kjeldahl Nitrogen (TKN)	0.5	0.5	mg/L	1	SFM		2103362	10/12/21	9:20	ASTMD359002A	
Total Coliform Bacteria	>2419.6	1.0	MPN	1	DBV		2103334	10/8/21	11:11	SM9223BColilertMPN	
E. coli Bacteria	83.6	1.0	MPN	1	DBV		2103334	10/8/21	11:11	SM9223BColilertMPN	



Job ID: 59092

Sample#: 59092-001

Sample ID: SQRV-090-10222021

Sampled: 10/22/21 7:50		Reporting		Instr Dil'n		Prep		Analysis		
Parameter	Result	Limit	Units	Factor	Analys	st Date	Batch	Date	Time	Reference
naphthalene	< 0.5	0.5	ug/L	1	CL	10/26/21	14386	10/26/21	17:05	SW3510C8270E
2-methylnaphthalene	< 0.5	0.5	ug/L	1	CL	10/26/21	14386	10/26/21	17:05	SW3510C8270E
acenaphthylene	< 0.5	0.5	ug/L	1	CL	10/26/21	14386	10/26/21	17:05	SW3510C8270E
acenaphthene	< 0.5	0.5	ug/L	1	CL	10/26/21	14386	10/26/21	17:05	SW3510C8270E
dibenzofuran	< 0.5	0.5	ug/L	1	CL	10/26/21	14386	10/26/21	17:05	SW3510C8270E
fluorene	< 0.5	0.5	ug/L	1	CL	10/26/21	14386	10/26/21	17:05	SW3510C8270E
phenanthrene	< 0.5	0.5	ug/L	1	CL	10/26/21	14386	10/26/21	17:05	SW3510C8270E
anthracene	< 0.5	0.5	ug/L	1	CL	10/26/21	14386	10/26/21	17:05	SW3510C8270E
fluoranthene	< 0.5	0.5	ug/L	1	CL	10/26/21	14386	10/26/21	17:05	SW3510C8270E
pyrene	< 0.5	0.5	ug/L	1	CL	10/26/21	14386	10/26/21	17:05	SW3510C8270E
benzo(a)anthracene	< 0.1	0.1	ug/L	1	CL	10/26/21	14386	10/26/21	17:05	SW3510C8270E
chrysene	< 0.5	0.5	ug/L	1	CL	10/26/21	14386	10/26/21	17:05	SW3510C8270E
benzo(b)fluoranthene	< 0.1	0.1	ug/L	1	CL	10/26/21	14386	10/26/21	17:05	SW3510C8270E
benzo(k)fluoranthene	< 0.5	0.5	ug/L	1	CL	10/26/21	14386	10/26/21	17:05	SW3510C8270E
benzo(a)pyrene	< 0.2	0.2	ug/L	1	CL	10/26/21	14386	10/26/21	17:05	SW3510C8270E
indeno(1,2,3-cd)pyrene	< 0.1	0.1	ug/L	1	CL	10/26/21	14386	10/26/21	17:05	SW3510C8270E
dibenzo(a,h)anthracene	< 0.1	0.1	ug/L	1	CL	10/26/21	14386	10/26/21	17:05	SW3510C8270E
benzo(g,h,i)perylene	< 0.5	0.5	ug/L	1	CL	10/26/21	14386	10/26/21	17:05	SW3510C8270E
Surrogate Recovery		Limits	;							
2-fluorobiphenyl SUR	67	43-116	%	1	CL	10/26/21	14386	10/26/21	17:05	SW3510C8270E
o-terphenyl SUR	74	33-141	%	1	CL	10/26/21	14386	10/26/21	17:05	SW3510C8270E



Job ID: 59092

Sample#: 59092-002

Sample ID: SQRV-170-10222021

Sampled: 10/22/21 8:30		Reporting		Instr Dil'n		Prep			/sis	
Parameter	Result	Limit	Units	Factor	Analys	st Date	Batch	Date	Time	Reference
naphthalene	< 0.5	0.5	ug/L	1	CL	10/26/21	14386	10/26/21	17:35	SW3510C8270E
2-methylnaphthalene	< 0.5	0.5	ug/L	1	CL	10/26/21	14386	10/26/21	17:35	SW3510C8270E
acenaphthylene	< 0.5	0.5	ug/L	1	CL	10/26/21	14386	10/26/21	17:35	SW3510C8270E
acenaphthene	< 0.5	0.5	ug/L	1	CL	10/26/21	14386	10/26/21	17:35	SW3510C8270E
dibenzofuran	< 0.5	0.5	ug/L	1	CL	10/26/21	14386	10/26/21	17:35	SW3510C8270E
fluorene	< 0.5	0.5	ug/L	1	CL	10/26/21	14386	10/26/21	17:35	SW3510C8270E
phenanthrene	< 0.5	0.5	ug/L	1	CL	10/26/21	14386	10/26/21	17:35	SW3510C8270E
anthracene	< 0.5	0.5	ug/L	1	CL	10/26/21	14386	10/26/21	17:35	SW3510C8270E
fluoranthene	< 0.5	0.5	ug/L	1	CL	10/26/21	14386	10/26/21	17:35	SW3510C8270E
pyrene	< 0.5	0.5	ug/L	1	CL	10/26/21	14386	10/26/21	17:35	SW3510C8270E
benzo(a)anthracene	< 0.1	0.1	ug/L	1	CL	10/26/21	14386	10/26/21	17:35	SW3510C8270E
chrysene	< 0.5	0.5	ug/L	1	CL	10/26/21	14386	10/26/21	17:35	SW3510C8270E
benzo(b)fluoranthene	< 0.1	0.1	ug/L	1	CL	10/26/21	14386	10/26/21	17:35	SW3510C8270E
benzo(k)fluoranthene	< 0.5	0.5	ug/L	1	CL	10/26/21	14386	10/26/21	17:35	SW3510C8270E
benzo(a)pyrene	< 0.2	0.2	ug/L	1	CL	10/26/21	14386	10/26/21	17:35	SW3510C8270E
indeno(1,2,3-cd)pyrene	< 0.1	0.1	ug/L	1	CL	10/26/21	14386	10/26/21	17:35	SW3510C8270E
dibenzo(a,h)anthracene	< 0.1	0.1	ug/L	1	CL	10/26/21	14386	10/26/21	17:35	SW3510C8270E
benzo(g,h,i)perylene	< 0.5	0.5	ug/L	1	CL	10/26/21	14386	10/26/21	17:35	SW3510C8270E
Surrogate Recovery		Limits	;							
2-fluorobiphenyl SUR	71	43-116	%	1	CL	10/26/21	14386	10/26/21	17:35	SW3510C8270E
o-terphenyl SUR	81	33-141	%	1	CL	10/26/21	14386	10/26/21	17:35	SW3510C8270E



Job ID: 59092

Sample#: 59092-003

Sample ID: SQRV-190-10222021

Sampled: 10/22/21 9:10		Reporting		Instr Dil'n	Prep			Analy	ysis	
Parameter	Result	Limit	Units	Factor	Analys	st Date	Batch	Date	Time	Reference
naphthalene	< 0.9	0.9	ug/L	1	CL	10/26/21	14386	10/26/21	18:06	SW3510C8270E
2-methylnaphthalene	< 0.9	0.9	ug/L	1	CL	10/26/21	14386	10/26/21	18:06	SW3510C8270E
acenaphthylene	< 0.9	0.9	ug/L	1	CL	10/26/21	14386	10/26/21	18:06	SW3510C8270E
acenaphthene	< 0.9	0.9	ug/L	1	CL	10/26/21	14386	10/26/21	18:06	SW3510C8270E
dibenzofuran	< 0.9	0.9	ug/L	1	CL	10/26/21	14386	10/26/21	18:06	SW3510C8270E
fluorene	< 0.9	0.9	ug/L	1	CL	10/26/21	14386	10/26/21	18:06	SW3510C8270E
phenanthrene	< 0.9	0.9	ug/L	1	CL	10/26/21	14386	10/26/21	18:06	SW3510C8270E
anthracene	< 0.9	0.9	ug/L	1	CL	10/26/21	14386	10/26/21	18:06	SW3510C8270E
fluoranthene	< 0.9	0.9	ug/L	1	CL	10/26/21	14386	10/26/21	18:06	SW3510C8270E
pyrene	< 0.9	0.9	ug/L	1	CL	10/26/21	14386	10/26/21	18:06	SW3510C8270E
benzo(a)anthracene	< 0.2	0.2	ug/L	1	CL	10/26/21	14386	10/26/21	18:06	SW3510C8270E
chrysene	< 0.9	0.9	ug/L	1	CL	10/26/21	14386	10/26/21	18:06	SW3510C8270E
benzo(b)fluoranthene	< 0.2	0.2	ug/L	1	CL	10/26/21	14386	10/26/21	18:06	SW3510C8270E
benzo(k)fluoranthene	< 0.9	0.9	ug/L	1	CL	10/26/21	14386	10/26/21	18:06	SW3510C8270E
benzo(a)pyrene	< 0.4	0.4	ug/L	1	CL	10/26/21	14386	10/26/21	18:06	SW3510C8270E
indeno(1,2,3-cd)pyrene	< 0.2	0.2	ug/L	1	CL	10/26/21	14386	10/26/21	18:06	SW3510C8270E
dibenzo(a,h)anthracene	< 0.2	0.2	ug/L	1	CL	10/26/21	14386	10/26/21	18:06	SW3510C8270E
benzo(g,h,i)perylene	< 0.9	0.9	ug/L	1	CL	10/26/21	14386	10/26/21	18:06	SW3510C8270E
Surrogate Recovery		Limits	;							
2-fluorobiphenyl SUR	69	43-116	%	1	CL	10/26/21	14386	10/26/21	18:06	SW3510C8270E
o-terphenyl SUR	80	33-141	%	1	CL	10/26/21	14386	10/26/21	18:06	SW3510C8270E



Project ID: Exeter BR0595 Job ID: 59092										
Sample#: 59092-001 Sample ID: SQRV-090-10222021 Matrix: Water										
Sampled: 10/22/21 7:50		Reporting		Instr Dil'n		Prep		Analy	sis	
Parameter	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	Reference
Oil and Grease	< 5	5	mg/L	1	SLB		2103497	10/25/21	7:43	E1664B
Sample#: 59092-002										
Sample ID: SQRV-170-10222021										
Matrix: Water										
Sampled: 10/22/21 8:30		Reporting		Instr Dil'n		Prep		Analy	sis	
Sampled. 10/22/21 0.50		Reporting								
Parameter	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	Reference
•	Result < 5	•		Factor	Analyst SLB			•		Reference E1664B
Parameter		Limit	Units		-			Date	Time	
Parameter		Limit	Units		-			Date	Time	
Parameter Oil and Grease		Limit	Units		-			Date	Time	
Parameter Oil and Grease Sample#: 59092-003		Limit	Units		-			Date	Time	
Parameter Oil and Grease Sample#: 59092-003 Sample ID: SQRV-190-10222021		Limit 5	Units mg/L		-			Date 10/25/21	Time 7:43	
Parameter Oil and Grease Sample#: 59092-003 Sample ID: SQRV-190-10222021 Matrix: Water		Limit	Units mg/L	1	-	Date		Date	Time 7:43	
Parameter Oil and Grease Sample#: 59092-003 Sample ID: SQRV-190-10222021 Matrix: Water Sampled: 10/22/21 9:10	< 5	Limit 5	Units mg/L	1 Instr Dil'n	SLB	Date	2103497	Date 10/25/21 Analy Date	Time 7:43	E1664B



Job ID: 59092

Sample#: 59092-001

Sample ID: SQRV-090-10222021

Matrix: Water

Sampled: 10/22/21 7:50		Reporting	I	nstr Dil'n	Prep	Ana	lysis	
Parameter	Result	Limit	Units	Factor	Analyst Date	Batch Date	Time	Reference
Aluminum	0.11	0.050	mg/L	1	EEB 11/5/21	14425 11/9/21	8:46	E200.8
Arsenic	< 0.0025	0.0025	mg/L	1	EEB 11/5/21	14425 11/9/21	8:46	E200.8
Cadmium	< 0.0010	0.0010	mg/L	1	EEB 11/5/21	14425 11/9/21	8:46	E200.8
Copper	< 0.010	0.010	mg/L	1	EEB 11/5/21	14425 11/9/21	8:46	E200.8
Lead	< 0.0050	0.0050	mg/L	1	EEB 11/5/21	14425 11/9/21	8:46	E200.8
Nickel	< 0.010	0.010	mg/L	1	EEB 11/5/21	14425 11/9/21	8:46	E200.8
Zinc	< 0.010	0.010	mg/L	1	EEB 11/5/21	14425 11/9/21	8:46	E200.8

Sample#: 59092-002

Sample ID: SQRV-170-10222021

Matrix: Water

Sampled: 10/22/21 8:30		Reporting	I	Instr Dil'n	Prep		Analy	/sis	
Parameter	Result	Limit	Units	Factor	Analyst Date	Batch	Date	Time	Reference
Aluminum	0.13	0.050	mg/L	1	AGN 11/10/21	14438	11/10/21	19:41	E200.8
Arsenic	< 0.0025	0.0025	mg/L	1	AGN 11/10/21	14438	11/10/21	19:41	E200.8
Cadmium	< 0.0010	0.0010	mg/L	1	AGN 11/10/21	14438	11/10/21	19:41	E200.8
Copper	< 0.010	0.010	mg/L	1	AGN 11/10/21	14438	11/10/21	19:41	E200.8
Lead	< 0.0050	0.0050	mg/L	1	AGN 11/10/21	14438	11/10/21	19:41	E200.8
Nickel	< 0.010	0.010	mg/L	1	AGN 11/10/21	14438	11/10/21	19:41	E200.8
Zinc	< 0.010	0.010	mg/L	1	AGN 11/10/21	14438	11/10/21	19:41	E200.8

Sample#: 59092-003

Sample ID: SQRV-190-10222021

Sampled: 10/22/21 9:10		Reporting	In	nstr Dil'n	Prep		Analy	vsis	
Parameter	Result	Limit	Units	Factor	Analyst Date	Batch	Date	Time	Reference
Aluminum	< 0.050	0.050	mg/L	1	AGN 11/10/21	14438	11/10/21	20:09	E200.8
Arsenic	< 0.0025	0.0025	mg/L	1	AGN 11/10/21	14438	11/10/21	20:09	E200.8
Cadmium	< 0.0010	0.0010	mg/L	1	AGN 11/10/21	14438	11/10/21	20:09	E200.8
Copper	< 0.010	0.010	mg/L	1	AGN 11/10/21	14438	11/10/21	20:09	E200.8
Lead	< 0.0050	0.0050	mg/L	1	AGN 11/10/21	14438	11/10/21	20:09	E200.8
Nickel	< 0.010	0.010	mg/L	1	AGN 11/10/21	14438	11/10/21	20:09	E200.8
Zinc	< 0.010	0.010	mg/L	1	AGN 11/10/21	14438	11/10/21	20:09	E200.8



Job ID: 59092

Sample#: 59092-001

Sample ID: SQRV-090-10222021

Matrix: Water

Sampled: 10/22/21 7:50		Reporting		Instr Dil'n		Prep		Analy	/sis	
Parameter	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	Reference
Dissolved Oxygen	8 H	1	mg/L	1	SFM		2103528	10/22/21	11:20	SM4500-O G
H = Sample was received	beyond me	ethod holdii	ng time.							
Enterococci Bacteria	17.1	1.0	MPN	1	DBV		2103492	10/22/21	13:14	Enterolert
Nitrite/Nitrate-N	< 1.0	1.0	mg/L	10	DBV		2103548	10/27/21	15:21	E300.0A
Nitrogen, total	< 1.0	1	mg/L	1			2103016			Calc
Total Kjeldahl Nitrogen (TKN)	0.6	0.5	mg/L	1	SFM		2103516	10/26/21	7:55	ASTMD359002A
Total Coliform Bacteria	2419.6	1.0	MPN	1	DBV		2103493	10/22/21	13:13	SM9223BColilert MPN
E. coli Bacteria	6.3	1.0	MPN	1	DBV		2103493	10/22/21	13:13	SM9223BColilert MPN

Sample#: 59092-002

Sample ID: SQRV-170-10222021

Matrix: Water

Sampled: 10/22/21 8:30		Reporting		Instr Dil'n		Prep		Analy	ysis	
Parameter	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	Reference
Dissolved Oxygen	8 H	1	mg/L	1	SFM		2103528	10/22/21	11:20	SM4500-O G
H = Sample was receive	d beyond m	ethod holdii	ng time.							
Enterococci Bacteria	231.8	1.0	MPN	1	DBV		2103492	10/22/21	13:14	Enterolert
Nitrite/Nitrate-N	< 1.0	1.0	mg/L	10	DBV		2103548	10/27/21	15:54	E300.0A
Nitrogen, total	< 1.0	1	mg/L	1			2103016			Calc
Total Kjeldahl Nitrogen (TKN)	0.7	0.5	mg/L	1	SFM		2103516	10/26/21	7:55	ASTMD359002A
Total Coliform Bacteria	>2419.6	1.0	MPN	1	DBV		2103493	10/22/21	13:13	SM9223BColilert MPN
E. coli Bacteria	2419.6	1.0	MPN	1	DBV		2103493	10/22/21	13:13	SM9223BColilert MPN

Sample#: 59092-003

Sample ID: SQRV-190-10222021

Sampled: 10/22/21 9:10	I	Reporting		Instr Dil'n		Prep		Analy	/sis	
Parameter	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	Reference
Dissolved Oxygen	9 H	1	mg/L	1	SFM		2103528	10/22/21	11:20	SM4500-O G
H = Sample was received	d beyond me	thod holdi	ng time.							
Enterococci Bacteria	9.4	1.0	MPN	1	DBV		2103492	10/22/21	13:14	Enterolert
Nitrite/Nitrate-N	< 1.0	1.0	mg/L	10	DBV		2103548	10/27/21	16:10	E300.0A
Nitrogen, total	< 1.0	1	mg/L	1			2103016			Calc
Total Kjeldahl Nitrogen (TKN)	0.6	0.5	mg/L	1	SFM		2103516	10/26/21	7:55	ASTMD359002A
Total Coliform Bacteria	2419.6	1.0	MPN	1	DBV		2103493	10/22/21	13:13	SM9223BColilert MPN
E. coli Bacteria	23.5	1.0	MPN	1	DBV		2103493	10/22/21	13:13	SM9223BColilert MPN



Project ID: Exeter BR0595 Job ID: 59092 Sample#: 59092-004 Sample ID: WWCK-090-102220 Matrix: Water Sampled: 10/22/21 9:45	21	Denerting		In the Diffe		Dron		Angli		
Parameter	Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analy Date	Time	Reference
Total Coliform Bacteria	913.9	1.0	MPN	1	DBV	2410		10/22/21		SM9223BColilert MPN
E. coli Bacteria	30.1	1.0	MPN	1	DBV		2103493	10/22/21	13:13	SM9223BColilert MPN
Sample#: 59092-005 Sample ID: WWCK-001-102220 Matrix: Water	21									
Sampled: 10/22/21 9:30		Reporting		Instr Dil'n		Prep		Analy		
Parameter	Result	Limit	Units	Factor	Analyst	Date	Batch	Date	Time	Reference
Total Coliform Bacteria	>2419.6	1.0	MPN	1	DBV		2103493	10/22/21	13:13	SM9223BColilert MPN
E. coli Bacteria	325.5	1.0	MPN	1	DBV		2103493	10/22/21	13:13	SM9223BColilert MPN
Sample#: 59092-001 Sample ID: SQRV-090-1022202 Matrix: Water Sampled: 10/22/21 7:50 Parameter	1 Result	Reporting Limit	Units	Instr Dil'n Factor	Analyst	Prep Date	Batch	Analy Date	/sis Time	Reference
Chlorophyll a	< 0.9	0.9	mg/m3		DJM			10/29/21		SM 10200H-2
Sample#: 59092-002 Sample ID: SQRV-170-1022202 Matrix: Water Sampled: 10/22/21 8:30 Parameter Chlorophyll a		Reporting Limit 0.9	-	Instr Dil'n Factor	Analyst DJM	Prep Date	Batch	Analy Date 10/29/21	Time	Reference SM 10200H-2
	0.5	0.9	mg/m3	· ·	DOM		2100092	10/23/21	10.40	3101 1020011-2
Sample#: 59092-003 Sample ID: SQRV-190-1022202 Matrix: Water	1									
Sampled: 10/22/21 9:10		Reporting		Instr Dil'n	A	Prep	Datak	Analy		Defense
Parameter Chlorophyll a	Result < 1.8	Limit 1.8	Units mg/m3	Factor	Analyst DJM	Date	Batch 2103592	Date 10/29/21	Time 16:40	Reference SM 10200H-2



Outfall Inventory and Priority Ranking Matrix with System Vulnerability Factors

Town of Exeter, NH MS4 Outfall Summary May 2021

	Receiving Water	RecWaterbody_ID	# Outfalls	Note
	Interconnection	DOT's MS4	3	
Colcord Pond	Colcord Pond	NHLAK600030804-01	2	
Colcord Fond	Unnamed Brook	NHRIV600030804-12	1	Unnamed Brook flows to Colcord Pond
	Dearborn Brook	NHRIV600030806-03	2	
	Exeter River	NHRIV600030805-02	7	
	Exeter River	NHRIV600030805-32	12	
	Unnamed Brook	NHRIV600030805-16	1	Unnamed Brook flows to Exeter River
Exeter River				
	Unnamed Brook - To Exeter River	NHRIV600030805-08	15	
	Little River	NHRIV600030804-11	34	
Norris Brook	Norris Brook	NHRIV600030806-01	1	
NULLIS DIOOK	Norris Brook	NHRIV600030806-02	5	
	Perkins Brook	NHRIV600030805-15	1	
	Squamscott River South	NHEST600030806-01-01	22	
	Taylor River - Ash Brook	NHRIV600031003-06	3	
Wheelwright Creek	Wheelwright Creek	NHRIV600030806-26	13	
	Wheelwright Creek - Exeter Reservoir	NHIMP600030806-02	5	
		Total:	127	
* Note: #Outfalls is linke	ed to Priority Ranking Matrix.			

Outfall ID (dpw_id / WP_IDDE_OF_ID)	Old Outfall ID	Receiving Water	Previous Screening Results Indicate Likely Sewer Input? ¹	Discharging to Area of Concern to Public Health? ²	Frequency of Past Discharge Complaints	Receiving Water Quality ³	Density of Generating Sites ⁴	Age of Development/ Infrastructure⁵	Historic Combined Sewers or Septic? ⁶	Aging Septic? ⁷	Culverted Streams? ⁸	Additional Characteristics	Score	Priority Ranking	History of SSO <i>in the</i> catchment area, including, bu not limited to, due to rain events, high water table and blockages	mannoles serving	Common trench construction serving both storm sewer and sanitary sewer alignments		Sanitary sewer alignments known or suspected to have been constructed with an underdrain system	Inadequate sanitary sewer level of service resulting in regular surcharging, customer back-ups, or frequent customer complaints	Area formerly (with-in last 20 years) served by combined sewer systems	Area with known sanitary sewer infrastructure defects	
Information Source			Outfall Inspections and screening/ sampling results Yes = 3 (problem	GIS Maps Yes = 3	Town Staff Frequent = 3	Impaired Waters List Poor = 3	Land Use/GIS Maps, Aerial Photography High = 3	Land Use Information, Visual Observation High = 3	Town Staff, GIS Maps Yes = 3	Land Use, Town Staff Yes = 3	GIS and Storm System Maps Yes = 3	Other	-		Town Staff / using SSO List on Town website	GIS Query	GIS Query	GIS Query	Town Staff	Town Staff / Based on "Sewer Model Update (2021)", areas identifed as "surcharged"	Town Staff	Town Staff / Used Asset Wastewater and Stormwater Asset Management Program, December 2020, C-6 Probability of Failure Map, pipes listed as High/Very High	
			outfall) No = 0	No = 0	Occasional = 2 None = 0	Fair = 2 Good = 0	Medium = 2 Low = 1	Medium = 2 Low = 1	No = 0	Possible = 2 No = 0	No = 0				Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	
Outfall ID (dpw_id / WP_IDDE_OF_ID)	Old Outfall ID	Receiving Water	Previous Screening Results Indicate Likely Sewer Input? ¹	Discharging to Area of Concern to Public Health? ²	Complaints	Receiving Water Quality ³	Density of Generating Sites ⁴	Age of Development/ Infrastructure ⁵	Historic Combined Sewers or Septic? ⁶	Aging Septic? ⁷	Culverted Streams? ⁸	Additional Characteristics	Score	Priority Ranking	History of SSO <i>in the</i> <i>catchment area</i> , including, bu not limited to, due to rain events, high water table and blockages	t Common or twin-invert manholes serving storm and sanitary sewer	Common trench construction serving both storm sewer and sanitary sewer alignments	Crossing of storm and sanitary sewer where sewer is shallower than storm drain	Sanitary sewer alignments known or suspected to have been constructed with an underdrain system	Inadequate sanitary sewer level of service resulting in regular surcharging, customer back-ups, or frequent customer complaints	Area formerly (with-in last 20 years) served by combined sewer systems	Area with known infrastructure defects and leaking	Total SVFs
CLPD-001	0121	Colcord Pond	0	3	0	2	3		0	0	3		5	Low High	No	No	No	No	No	No	No	No	0
CLPD-002		Colcord Pond	0	3	0	0	1			0	0	Road Drainage, Undeveloped Area,	4	Excluded	No	No	No known pipes	No known pipes	No	No	No	No	1
DBBK-001 DBBK-010 EXRV-001	O143 O095 O105	Dearborn Brook Dearborn Brook Exeter River	0	3	0	0	1			0	0	No Sewer	4	Low Low	No No	No No No	No No No	No No No	No No No	No No	No No No	No No Yes	0
EXRV-010	O103	Exeter River	0	0	0	0	1			0	0	Dry Weather Flow,	1	Low	No	No	No	No	No	No	No	Yes	1
EXRV-020	O028	Exeter River	0	0	0	0	2		3	0	0	See 8/17 Inspection	5	Low	No	No	Yes	No (Missing some elevation data)	No	No	No	No	2
EXRV-030	0114	Exeter River	0	0	0	0	2		3	0	0	SSO in Vicinity (11/2012)	5	Low	No	No	No	No	No	No	No	No	1
			0	0	0	0	2		3	0	0	Dry Weather Flow, See 8/17 Inspection	5	Low									
	O026 O116	Exeter River Exeter River	0	0	0	0	2			0	0		2	Low	No No	No	Yes	Yes	No	Yes	No	Yes Yes	5
			0	0	0	0	3		3	0	0		6	Low									
EXRV-060	O023	Exeter River									-			_	No	No	Yes	No	No	No	No	No	2
EXRV-070	O024	Exeter River	0	0	0	0	3		3	0	0		6	Low	No	No	Yes	N	No	No	No	Yes	3
EXRV-080	0005	Exeter River	3	0	0	0	3		3	0	0	Dry Weather Flow & Visual Indicators, See 8/17 Inspection	9	Problem			N	V			N		
EXRV-090	O025 O045 O090	Exeter River Exeter River Exeter River	0	3	0	0	1			0	0		4 4	Low Low	No No	No No	Yes No Yes	Yes No No	No No	No No	No No	No No	0 1
EXRV-110	O089	Exeter River	0	3	0	0	1			0	0		4	Low High	No	No	Yes	No	No	No	No	No	1
EXRV-130	O042B	Exeter River	0	3	0	0	1			0	0	Dry Weather Flow,	4	High	No	No	No	No	No	No	No	No	0
EXRV-140 EXRV-150	O042A O080	Exeter River Exeter River	0	3	0	0	1			0	0	See 7/17 Inspection	4	 High	No	No	Yes	Yes	No	No	No	No No	2
	O043	Exeter River	0	3	0	0	1			0	0		4	High	No	No	Yes	No	No	No	No	No	1
EXRV-170	O044	Exeter River	0	3	0	0	1			0	0	Dry Weather Flow,	4	High	No	No	No	No	No	No	No	No	0
EXRV-180	O056	Exeter River	0	3	0	3	'			0	0	See 7/17 Inspection Dry Weather Flow,	· ·	High -	No	No	Yes	Yes	No	No	No	No	3
EXRV-190	O081	Exeter River	0	3	0	3	1			0	0	See 8/17 Inspection, Could be Excluded	7	High	No	No	No	No	No	No	No	No	0
Interconnection_1		DOT's MS4	0	3	0	0	1			0	0		4	Low	No	No	No	No	No	No	No	No	0
Interconnection_2		DOT's MS4	0	3	0	0	1			2	0		6	Low	No	No	No	No	No	No	No	No	0
Interconnection_3		DOT's MS4	0	3	0	0	1			2	0		6	Low	No	No	No	No	No	Νο	No	No	0
LTRV-001	O088	Little River	0	3	0	2	1			0	0	Visual Indicators, See 7/17 Inspection	6	Low	No	No	Yes	No	No	No	No	Νο	1
LTRV-010	O087 O086	Little River Little River	0	3	0	2	1			0	0		6	Low Low	No No	No	Yes Yes	No (Missing some elevation data)	No	No	No	No	1
	0022	Little River	0	3	0	2	2		3	0	0	Dry Weather Flow, See 7/17 Inspection	10	High	No	No	Yes	Yes	No	No	No	Νο	
LTRV-030			0	3	0	2	2		0	0	0	Dry Weather Flow, See 7/17 Inspection	-	High	No	No	No	No	No	No	No	No	
LTRV-040	O109	Little River Little River	0	3	0	2	2			0	0	,	7 7 6	Low Low	No Yes	No No	No	No No	No	No	No	No No	1
LTRV-050 LTRV-055 LTRV-060	0046 0041B 0041A	Little River Little River Little River	0	3	0	2	1 1			0	0		6 6	Low	Yes No No	No No No	Yes No No	No No No	No No	No No	No No	No No	3 0 0
	O040	Little River	0	3	0	2	1			0	0	Dry Weather Flow, See 7/17 Inspection	6	Low	No	No	Yes	Yes	No	No	No	No	2
LTRV-090	O117 O118	Little River Little River	0	3	0	2	1			0	0		6	Low	No No No	No No No	No No known pipes	No No known pipes	No No	No No	No No	No No	0
	O119 O106	Little River	0	3	0	2	1			0	0		6	Low Low	No	No No	No known pipes Yes	No known pipes No (Missing some elevation data)	No	No	No	No No	1
LTRV-120	O021	Little River	0	3	0	2	3		3	0	0		11	High	No	No	Yes	Yes	No	No	No	No	3
			0	3	2	2	1			0	0	Dry Weather Flow & Visual Indicators,	8	Low									
LTRV-130	O075 O020	Little River	0	3	0	2	3			0	0	See 8/17 Inspection	8	Low	No No	No	No	No No (Missing some elevation data)	No	No	No	No	0
	0020 0076 0019	Little River Little River	0	3 3	0 0	2	1 2			0	0		6 7		No No	No No	No Yes	No Yes	No No	No No	No No	No No	0
	0074	Little River	0	3	0	2	1			0	0	Visual Indicators, See 7/17 Inspection		Low	No	No	No	No	No	No	No	No	0
LTRV-170 LTRV-180	0074 0073	Little River Little River	0	3	0	2	1			0	0	See 7/17 Inspection	6		No No	No No	No Yes	No No	No No	No No	No No	No No	1

			Previous												History of SSO in the		Common trench			Inadequate sanitary sewer level			
Outfall ID (dpw_id /	Old Outfall ID	Receiving Water	Screening Results Indicate	Discharging to Area of Concern	Frequency of Past Discharge	Receiving Water		Age of Development/	Historic Combined	Aging Septic?7	Culverted	Additional	Score	Priority Ranking	catchment area , including, bu	mannoles serving	construction serving both storm sewer and	sanitary sewer where	Sanitary sewer alignments known or suspected to have	of service resulting in regular surcharging, customer back-ups,	Area formerly (with-in last 20 years) served by	Area with known sanitary sewer	
WP_IDDE_OF_ID)			Likely Sewer Input? ¹	to Public Health? ²	Complaints	Quality ³	Generating Sites ⁴	Infrastructure ⁵	Sewers or Septic? ⁶		Streams? ⁸	Characteristics			events, high water table and blockages		sanitary sewer alignments	sewer is shallower than storm drain	been constructed with an underdrain system	or frequent customer complaints	combined sewer systems	infrastructure defects	
Information Source			Outfall Inspections and screening/ sampling results	GIS Maps	Town Staff	Impaired Waters List	Land Use/GIS Maps, Aerial Photography	Land Use Information, Visual Observation	Town Staff, GIS Maps	Land Use, Town Staff	GIS and Storm System Maps	Other			Town Staff / using SSO List on Town website	n GIS Query	GIS Query	GIS Query	Town Staff	Town Staff / Based on "Sewer Model Update (2021)", areas identifed as "surcharged"	Town Staff	Town Staff / Used Asset Wastewater and Stormwater Asset Management Program, December 2020, C-6 Probability of Failure Map, pipes listed as	
Scoring Criteria			Yes = 3 (problem outfall) No = 0	Yes = 3 No = 0	Frequent = 3 Occasional = 2	Poor = 3 Fair = 2	High = 3 Medium = 2	High = 3 Medium = 2	Yes = 3 No = 0	Yes = 3 Possible = 2	Yes = 3 No = 0	TBD			Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	High/Very High Yes/No	
			Previous	Discharging to	None = 0	Good = 0	Low = 1	Low = 1	Historic	No = 0					History of SSO in the	Common or twin-invert	Common trench	Crossing of storm and	Sanitary sewer alignments	Inadequate sanitary sewer level	Area formerly (with-in		
Outfall ID (dpw_id / WP_IDDE_OF_ID)	Old Outfall ID	Receiving Water	Screening Results Indicate Likely Sewer Input? ¹	Area of Concern to Public Health? ²	Frequency of Past Discharge Complaints	Receiving Water Quality ³	Density of Generating Sites ⁴	Age of Development/ Infrastructure ⁵	Combined Sewers or Septic? ⁶	Aging Septic? ⁷	Culverted Streams? ⁸	Characteristics	Score	Priority Ranking	catchment area , including, bu not limited to, due to rain events, high water table and blockages	storm and sanitary	construction serving both storm sewer and sanitary sewer alignments	sanitary sewer where sewer is shallower than storm drain	known or suspected to have been constructed with an underdrain system	of service resulting in regular surcharging, customer back-ups, or frequent customer complaints	last 20 years) served by combined sewer systems	Area with known infrastructure defects and leaking	Total SVFs
LTRV-190	O018	Little River	0	3	0	2	1			0	0	Dry Weather Flow, See 8/17 Inspection	6	Low	No	No	Yes	No	No	No	No	No	1
LTRV-200 LTRV-210	O009 O008	Little River Little River	0	0	0	2	1	3		0	0	Pet Waste, See 7/17	6		No	No	Yes Yes	Yes	No No	No No	No No	No	2
LTRV-220	0007	Little River	0	0	2	2	1			0	0	Inspection	5	Low	No	No	Yes	Yes	No	No	No	No	2
LTRV-230 LTRV-240	O006 O005	Little River	3	0	0	2	1			3	0		9	Problem	No	No	Yes	Yes	No	No	No	No	2
	O094	Little River	0	0	0	2	1			0	0	Dry Weather Flow,	3	Low	No	No	Yes	No	No	No	No	No	1
LTRV-260	O059A	Little River		0	0	2	1			0	U	See 7/17 Inspection	3	Low	No	No	Yes	Yes	No	No	No	No	2
LTRV-270	O059B	Little River	0	0	0	2	1			0	0	Dry Weather Flow, See 8/17 Inspection	3	Low	No	No	Yes	No (Missing some elevation data)	No	No	No	No	1
LTRV-280	O093	Little River	0	0	0	2	1			0	0	Dry Weather Flow, See 7/17 Inspection	3	Low	No	No	Yes	Yes	No	No	No	No	2
			0	0	0	2	1			0	0	Dry Weather Flow & Visual Indicators,	3	Low									
LTRV-290	O058	Little River	0	0	0	2	1			2	0	See 8/17 Inspection	5	Low	No	No	Yes	No	No	No	No	No	1
LTRV-300 LTRV-310	0051	Little River	0	0	0	2	1			0	0		3	Low	No	No	No	No No (Missing some elevation data)	No	No	No	No	0
	O001	Norris Brook	0	0	0	0	1			0	0		1	Low	No	No	Yes	No	No	No	No	No	1
NRBK-010	O004	Norris Brook	3	0	0	0	2		3	2	0		10	Problem	No	No	Yes	Yes	Νο	No	No	Yes	4
NRBK-020	O032	Norris Brook	0	0	0	0	2			0	0	Possibly not an outfall	2	Low	No	No	No known pipes	No known pipes	No	No	No	Yes	1
			0	0	0	0	3		3	0	0	Dry Weather Flow, See 8/17 Inspection	6	Low									
NRBK-030	O078	Norris Brook	0	0	0	0	3		3	0	0		6	Low	No	No	Yes	Yes No (Missing some	No	No	No	No	3
NRBK-040	0123	Norris Brook			-				3			SSOs in Vicinity &			No	No	Yes	elevation data)	No	No	No	No	2
NRBK-050	O061	Norris Brook	3	0	2	3	3			0	0	Visual Indicators, See 8/17 Inspection	11	Problem	Yes	No	Yes	Yes	No	No	No	No	4
PKBK-001 SQRV-001	O091 O098	Perkins Brook Squamscott River South	0	3	0	3	1			2	0		6 4	Low High	No	No	No	No	No	No	No	No	0
			0	3	0	3	1			0	0	Dry Weather Flow, See 8/17 Inspection	7	High				No (Missing some					
SQRV-010		Squamscott River South	0	3	0	3	1			0	0	Road Drainage, No	7	High	No	No	Yes	elevation data) No (Missing some	No	No	No	No	1
SQRV-020	O003B	Squamscott River South	0	3	0	3	1			0	0	Dwellings, No Sewer Road Drainage, No	7	High	No	No	Yes	elevation data) No (Missing some	No	No	No	No	1
SQRV-030	O003C	Squamscott River South			-						-	Dwellings, No Sewer Road Drainage, No	-		No	No	Yes	elevation data)	No	No	No	No	1
SQRV-040	0003D	Squamscott River South	0	3	0	3	1			0	0	Dwellings, No Sewer	7	High	No	No	Yes	No (Missing some elevation data) No (Missing some	No	No	No	No	1
SQRV-050	0003E	Squamscott River South	0	3	0	3	1			0	0	Road Drainage, No	7	High	No	No	Yes	elevation data)	No	No	No	No	1
SQRV-060	0003F	Squamscott River South	0	3	0	3	1			0	0	Dwellings, No Sewer	/	High	No	No	Yes	No (Missing some elevation data)	No	No	No	No	1
SQRV-070	0003G	Squamscott River South	0	3	0	3	1			0	0	Road Drainage, No Dwellings, No Sewer	7	High	No	No	Yes	No (Missing some elevation data)	No	No	No	No	1
SQRV-080	0003H	Squamscott River South	0	3	0	3	1			0	0	Road Drainage, No Dwellings, No Sewer	7	High	No	No	Yes	No (Missing some elevation data)	No	No	No	No	1
			0	3	0	3	2	3	3	0	0		14	High									
	O002 O003I	Squamscott River South	0	3	0	3	1			0	0		7	High	No	No	Yes	Yes N o(Missing some elevation data)	No	No	No	Yes	4
	0003J	Squamscott River South	0	3	0	3	1			0	0		7	High	No	No	Yes	No (Missing some elevation data)	No	No	No	No	1
SQRV-120	0003K	Squamscott River South	0	3	0	3	1			0	0		7	High	No	No	Yes	No (Missing some elevation data)	No	No	No	Yes	2
	0003L	Squamscott River South	0	3	0	3	1			0	0		7	High	No	No	Yes	No	No	Yes	No	Yes	3
SQRV-140	O003M	Squamscott River South		3		3	1			v	U		1	High	No	No	Yes	No	No	No	No	Yes	2
			3	3	2	3	3	3	3	0	3		23	Problem									
SQRV-150	O010	Squamscott River South	_												Yes	No	Yes	Yes	No	No	No	Yes	5
SQRV-160	O003N	Squamscott River South	0	3	0	3	1			0	0		7	High	No	No	No	No	No	No	No	Yes	1
SQRV-170	O047	Squamscott River South	0	3	0	3	3	3	3	0	0		15	High	No	No	Yes	Yes	No	Yes	No	Yes	5
			0	3	2	3	3	1		0	0	SSO in Vicinity (11/2012)	12	High								T	
SQRV-180	O071	Squamscott River South			<u> </u>			ļ	L			(No	No	Yes	No	No	No	No	No	1

Outfall ID (dpw_id / WP_IDDE_OF_ID)	Old Outfall ID	Receiving Water	Previous Screening Results Indicate Likely Sewer Input? ¹	Discharging to Area of Concern to Public Health? ²	Frequency of Past Discharge Complaints	Receiving Water Quality ³	Density of Generating Sites ⁴	Age of Development/ Infrastructure ⁵	Historic Combined Sewers or Septic? ⁶	Aging Septic? ⁷	Culverted Streams? ⁸	Additional Characteristics	Score	Priority Ranking	History of SSO <i>in the</i> catchment area , including, but not limited to, due to rain events, high water table and blockages	t Common or twin-invert manholes serving storm and sanitary sewer	Common trench construction serving both storm sewer and sanitary sewer alignments	Crossing of storm and sanitary sewer where sewer is shallower than storm drain	Sanitary sewer alignments known or suspected to have been constructed with an underdrain system	Inadequate sanitary sewer level of service resulting in regular surcharging, customer back-ups, or frequent customer complaints	Area formerly (<i>with-in</i> <i>last 20 years</i>) served by combined sewer systems	Area with known sanitary sewer infrastructure defects	_
Information Source			Outfall Inspections and screening/ sampling results Yes = 3 (problem	GIS Maps	Town Staff	Impaired Waters List	Land Use/GIS Maps, Aerial Photography	Land Use Information, Visual Observation	Maps	Land Use, Town Staff	GIS and Storm System Maps	Other			Town Staff / using SSO List on Town website	GIS Query	GIS Query	GIS Query	Town Staff	Town Staff / Based on "Sewer Model Update (2021)", areas identifed as "surcharged"	Town Staff	Town Staff / Used Asset Wastewater and Stormwater Asset Management Program, December 2020, C-6 Probability of Failure Map, pipes listed as	
Scoring Criteria			outfall) No = 0	Yes = 3 No = 0	Frequent = 3 Occasional = 2	Poor = 3 Fair = 2	High = 3 Medium = 2	High = 3 Medium = 2	Yes = 3 No = 0	Yes = 3 Possible = 2	Yes = 3 No = 0	TBD			Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	High/Very High Yes/No	1
Outfall ID (dpw_id / WP_IDDE_OF_ID)	Old Outfall ID	Receiving Water	Previous Screening Results Indicate Likely Sewer Input? ¹	Discharging to Area of Concern to Public Health? ²	None = 0 Frequency of Past Discharge Complaints	Good = 0 Receiving Water Quality ³	Low = 1 Density of Generating Sites ⁴	Low = 1 Age of Development/ Infrastructure ⁵	Historic Combined Sewers or Septic? ⁶	No = 0 Aging Septic? ⁷	Culverted Streams? ⁸	Additional Characteristics	Score	Priority Ranking	History of SSO in the catchment area , including, but	t Common or twin-invert manholes serving storm and sanitary	Common trench construction serving both storm sewer and sanitary sewer alignments	Crossing of storm and	Sanitary sewer alignments known or suspected to have been constructed with an underdrain system	Inadequate sanitary sewer level of service resulting in regular surcharging, customer back-ups, or frequent customer complaints	Area formerly (with-in	Area with known infrastructure defects and leaking	Total SVFs
SQRV-190 SQRV-200		Squamscott River South	0	3	2	3	2		3	0	3		16	High Low	No No	No	Yes No known pipes	Yes No known pipes	No	No	No	No	3
SQRV-200	0104	Squamscott River South	0	3	0	3	3		3	0	0		12	High	No	No	No	No No	No	No	No	No	1
SQRV-220	O030	Squamscott River South	0	3	0	3	2			0	0	De little de la Film	8	High	No	No	Yes	No	No	No	No	Yes	2
TLRV-001 TLRV-010 TLRV-020	O053 O068 O069	Taylor River - Ash Brook Taylor River - Ash Brook Taylor River - Ash Brook	0	0 3 3	0 0 0	0 0 0	1 1 1			0 0 0	0 0 0	Dry Weather Flow, See 7/17 Inspection	1 4 4	Low Low Low	No No No	No No	Yes Yes Yes	Yes No No	No No No	No No No	No No No	No No	2 1 1
	0027	Unnamed Brook - To Exeter River	0	3	0	0	2		3	0	0		8	Low	No	No	Yes Yes	Yes	No	No	No	No	3
	0038 0039A	Unnamed Brook - To Exeter River	0	3	0	0	1		3	0	0		4	Low	<u>No</u>	No	Yes	No (Missing some elevation data) No (Missing some	No	Yes	No	Yes	4
UNBK-030 UNBK-040	O100 O083	Unnamed Brook - To Exeter River Unnamed Brook - To Exeter River	0	3	0	0	1		3	0	0		7 4	Low Low	No No	No No	Yes Yes	elevation data) No	No No	No No	No No	No No	2
		Unnamed Brook - To Exeter River	0	3	0	0	1		3	0	0	Dry Weather Flow, See 8/17 Inspection	7	Low	No	No	Yes	No	No	No	No	No	2
UNBK-070 UNBK-080	O052	Unnamed Brook - To Exeter River Unnamed Brook - To Exeter River	0	3	0	0	1 1 1			0	0		4 4	Low Low	No No	No No	Yes Yes	No No	No No	No No	No No	No Yes	1
UNBK-090 UNBK-100 UNBK-110	0067 0048A	Unnamed Brook - To Exeter River Unnamed Brook - To Exeter River Unnamed Brook - To Exeter River	0	3	0	0	2			0	0		4 5 4	Low Low Low	No No No	No No No	Yes Yes Yes	Yes No No	No No	No No	No No	No No No	1
UNBK-120 UNBK-130 UNBK-140		Unnamed Brook - To Exeter River Unnamed Brook - To Exeter River Unnamed Brook - To Exeter River	0	0	0	0	1			2	0		4 3 3	Low Low Low	No No	No No	Yes No No	No No	No No	No No	No No	No No	0
UNCLPD-010		Unnamed Brook	0	0	0	0	1			2	0	Dry Weather Flow &	3	Low	No	No	No	No	No	No	No	No	0
UNEXRV-001	O057	Unnamed Brook	0	3	0	0	1		3	0	0	Visual Indicators, See 12/17 Inspection Visual Indicators,	1	Low High	No	No	Yes	No (Missing some elevation data)	No	No	No	No	1
WWCK-001	0031A	Wheelwright Creek				0	2			2	0	See 8/17 Inspection	10		No	No	Yes	No (Missing some elevation data)	No	No	No	No	2
WWCK-010	O031B	Wheelwright Creek	0	3	0	0	1		3	0	0		7	Low	No	No	Yes	No (Missing some elevation data)	No	No	No	No	2
WWCK-020	0112	Wheelwright Creek	0	3	0	0	1		3	0	0	Dry Weather Flow & Visual Indicators	7	Low	No	No	Yes	No (Missing some elevation data)	No	No	No	No	2
WWCK-030	0111	Wheelwright Creek	0	3	0	0	2			0	0	See 8/17 Inspection Dry Weather Flow & Visual Indicators.	9	Low	No	No	Yes	No	No	No	No	No	2
WWCK-040	O082	Wheelwright Creek	3	3	0	0	3		3	0	0	See 8/17 Inspection Visual Indicators,	5	Problem	No	No	Yes	No	No	No	No	No	1
	O017A	Wheelwright Creek	3	3	0	0	3		3	0	3	See 8/17 Inspection Visual Indicators, See 8/17 Inspection	12	Problem	No	No	Yes	No (Missing some elevation data)	No	No	No	No	2
		Wheelwright Creek	3	3	0	0	3		3	0	0	Visual Indicators,	15	Problem	No	No	No	No	No	No	No	No	1
WWCK-070	0017D	Wheelwright Creek	0	3	0	0	3		3	0	0	See 8/17 Inspection	12	Low	No	No	Yes	Yes N (Missing some	No	No	No	No	3
WWCK-080		Wheelwright Creek	0	3	0	0	3		3	0	0		9	High	No	No	Yes	elevation data)	No	No	No	No	2
	0016 0011-A	Wheelwright Creek Wheelwright Creek	3	3	0	0	3		3	0	0	Sheen Observed, See 8/17 Inspection	9	Problem	No	No	Yes	Yes No (Missing some elevation data)	No	No	No	No	2
WWCK-100		Wheelwright Creek	3	3	0	0	3		3	0	0	Dry Weather Flow, See 8/17 Inspection	12	Problem	No	No	No	No	No	No	No	No	1
WWCK-120	O144	Wheelwright Creek	0	3	0	0	1		0	0	0	Road Drainage, Undeveloped Area, No Sewer	4	Excluded	No	No	No	No	No	No	No	No	0
WWEXRS-001	O033	Wheelwright Creek - Exeter Reservoir	0	3	0	0	1		3	0	0		7	Low	No	No	Yes	Yes	No	Yes	No	No	4
	O034	Wheelwright Creek - Exeter Reservoir	0	3	0	0	1			0	0		4	Low	No	No	Yes	No (Missing some elevation data)	No	No	No	No	1
WWEXRS-020 WWEXRS-030	O035 O036	Wheelwright Creek - Exeter Reservoir Wheelwright Creek - Exeter Reservoir	0	3	0	0	1			0	0		4	Low Low	No No	No No	Yes Yes	No (Missing some elevation data) No	No No	No No	No No	No No	
WWEXRS-040	O037	Wheelwright Creek - Exeter Reservoir	0	3	0	0	1			0	0	Visual Indicators, See 8/17 Inspection	4	Low	No	No	Yes	Yes	No	No	No	No	2

Outfall ID (dpw_id / WP_IDDE_OF_ID)	Old Outfall ID	Receiving Water	Previous Screening Results Indicate Likely Sewer Input? ¹	Discharging to Area of Concern to Public Health? ²	Frequency of Past Discharge Complaints	Receiving Water Quality ³	Density of Generating Sites ⁴	Age of Development/ Infrastructure ⁵	Historic Combined Sewers or Septic? ⁶	Aging Septic? ⁷	Culverted Streams? ⁸	Additional Characteristics	Score	Priority Ranking	History of SSO <i>in the</i> catchment area , including, but not limited to, due to rain events, high water table and blockages	t Common or twin-invert manholes serving storm and sanitary sewer	Common trench construction serving both storm sewer and sanitary sewer alignments	Crossing of storm and sanitary sewer where sewer is shallower than storm drain	Sanitary sewer alignments known or suspected to have been constructed with an underdrain system	Inadequate sanitary sewer level of service resulting in regular surcharging, customer back-ups, or frequent customer complaints	Area formerly (with-in last 20 years) served by combined sewer systems	Area with known sanitary sewer infrastructure defects	
Information Source	_		Outfall Inspections and screening/ sampling results	GIS Maps	Town Staff	Impaired Waters List	Land Use/GIS Maps, Aerial Photography	Land Use Information, Visual Observation	Town Staff, GIS Maps	Land Use, Town Staff	GIS and Storm System Maps	Other			Town Staff / using SSO List on Town website	GIS Query	GIS Query	GIS Query	Town Staff	Town Staff / Based on "Sewer Model Update (2021)", areas identifed as "surcharged"	Town Staff	Town Staff / Used Asset Wastewater and Stormwater Asset Management Program, December 2020, C-6 Probability of Failure Map, pipes listed as	
Scoring Criteria			Yes = 3 (problem outfall)	Yes = 3	Frequent = 3	Poor = 3	High = 3	High = 3	Yes = 3	Yes = 3	Yes = 3	TBD										High/Very High	
			No = 0	No = 0	Occasional = 2 None = 0	Fair = 2 Good = 0	Medium = 2 Low = 1	Medium = 2 Low = 1	No = 0	Possible = 2 No = 0	No = 0				Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	Yes/No	
Outfall ID (dpw_id / WP_IDDE_OF_ID)	Old Outfall ID	Receiving Water	Previous Screening Results Indicate Likely Sewer Input? ¹	Discharging to Area of Concern to Public Health? ²	Frequency of Past Discharge Complaints	Receiving Water	Density of Generating Sites ⁴	Age of Development/ Infrastructure ⁵	Historic Combined Sewers or Septic? ⁶	Aging Septic? ⁷	Culverted Streams? ⁸	Additional Characteristics	Score	Priority Ranking	History of SSO <i>in the</i> catchment area, including, but not limited to, due to rain events, high water table and blockages	Common or twin-invert manholes serving storm and sanitary sewer	Common trench construction serving both storm sewer and sanitary sewer alignments	Crossing of storm and sanitary sewer where sewer is shallower than storm drain	Sanitary sewer alignments known or suspected to have been constructed with an underdrain system	Inadequate sanitary sewer level of service resulting in regular surcharging, customer back-ups, or frequent customer complaints	Area formerly (with-in last 20 years) served by combined sewer systems	Area with known infrastructure defects and leaking	Total SVFs
	Scoring Criteria:																						
1	Previous screening res	sults indicate likely sewer input if any	of the following are true	e:																			
	Olfactory or visual e	evidence of sewage,																					
		/L, surfactants ≥ 0.25 mg/L, and bact			iteria applicable to the	ne receiving water, o																	
		/L, surfactants ≥ 0.25 mg/L, and dete																					<u> </u>
		ns that discharge to or in the vicinity of					blies, or shellfish be	as															<u> </u>
		y based on latest version of New Han approved TMDLs (Category 4a Wate					e cause of the imp	airment															I
		/ limited waterbodies that receive a di					o outdoo or the impe																
	Good = No water q	uality impairments																					
4	Generating sites are in	nstitutional, municipal, commercial, or	industrial sites with a p	potential to contribute	e to illicit discharges	(e.g., car dealers, c	ir washes, gas stati	ions, garden centers, i	ndustrial manufactu	ring, etc.)													
6	⁵ Age of development a																						
		eas greater than 40 years old and are	as where the sanitary	sewer system is mo	re than 40 years old																		L
		ments 20-40 years old Its less than 20 years old																		+			↓
6		combined sewers but have been sep	arated or areas areas	I conved by contin ave	toma but baya baar	convorted to conita									1					1			<u> </u>
7		are septic systems 30 years or older		actived by septic sys	noma put nave Deel	Conveneu lo sallita	1 30 4015.																<u> </u>
8		at is culverted for distance greater that		I constinue																1			1

Illicit Discharge Removal Report

Permit Year 4 Annual Report New Hampshire Small MS4 General Permit Reporting Period: July 1, 2021 – June 30, 2022 Town of Exeter

Illicit Discharge Removal Report

On Thursday June 2, 2022 NH DES spill response and members of the Exeter DPW responded to a report of an oil slick in the Squamscott river coming from the stormwater outfall (SQRV-150) at Swazey Parkway. We had experienced heavy rains the night before. NH DES spill response deployed an oil spill containment boom at the outfall. DPW staff help to locate a hydrocarbon source at the Phillips Exeter Academy dining hall loading dock. Some unreported fuel spill had occurred, and the stormwater catch basins adjacent to the loading dock had a visible sheen in them. The following day PEA had Clean harbors onsite to clean out the catch basins.

PTAP Report

Exeter, NH PTAPP BMP Accounting and Tracking Report Permit Year 4

State	NEW HAMPSHIRE
Municipality	EXETER
Permit Type	MS4
Permit Number	
Major Watershed	N/A
TP Load Reduction Target	N/A
TN Load Reduction Target	N/A
TSS Load Reduction Target	N/A

Table 1. Project Summary Credit for EXETER, NEW HAMPSHIRE

Project Type	Removed Phosphorus Load (lb/yr)	Removed Nitrogen Load (lb/yr)	Removed Sediment Load (lb/yr)
Structural	2.88	24.64	784
Non-Structural	0.01	0.24	0
Land Use Conversion	0	0	0
Total	2.89	24.88	784

Project ID	ВМР Туре	BMP Storage Capacit y (ft ³)/ Filter Depth (in.)	Phosphoru s BMP Efficiency (%)	Nitrogen BMP Efficienc y (%)	Sedimen t BMP Efficienc y (%)	Removed Phosphoru s Load (lb/yr)	Remove d Nitroge n Load (Ib/yr)	Remove d Sedimen t Load (lb/yr)	Imperviou s Area Treated (ac)	Runof f Depth (in.)
1. BrambleMeadows	BIORETENTIO N	5096	63	40	100	0.26	1.18	92.18	0.21	6.69
2. BrambleMeadows	INFILTRATION BASIN	5100	96.2	99	100	0.57	4.19	131.68	0.3	4.68
3. McFarland Ford Storage Lot	POROUS PAVEMENT	17413	78	79	97	1.06	9.05	278.21	0.76	6.31
4. McFarland Ford Storage Lot	INFILTRATION TRENCH	492	97.04	99.52	100	0.26	2.25	56.61	0.15	0.9
5. Lary Lane	INFILTRATION BASIN	600	56.96	73.37	82.92	0.73	7.97	225.32	0.72	0.23

Project ID	ВМР Туре	BMP Storage Capacit Y	Phosphoru s BMP Efficiency (%)	Nitrogen BMP Efficienc y (%)	Sedimen t BMP Efficienc y (%)	Removed Phosphoru s Load (Ib/yr)	Remove d Nitrogen Load (Ib/yr)	Remove d Sedimen t Load (lb/yr)	Imperviou s Area Treated (ac)	Runof f Depth (in.)
1. BrambleMeado ws	CATCH BASIN CLEANING	N/A	2	6	0	0.01	0.24	0	0.28	N/A

 Table 4. Land Use Conversion Project Summary for EXETER, NEW HAMPSHIRE

There are no land use conversion projects.