2024-2025 MS4 Annual Report

REPORTING PERIOD 7/1/2024 – 6/30/2025

CT DEEP National Pollutant Discharge Elimination System Permit for the Discharge of Stormwater from Municipal Separate Storm Sewer Systems (MS4)

NPDES Permit #CT0030279

for

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Table of Contents

1.0 INTRODUCTION 1
1.1 Introduction & Overview 1
1.2 SWMP Development Team 2
2.0 PROGRAM EVALUATION 3
2.1 Stormwater Management Plan (SMP) Objectives 3
2.2 Major Findings 4
2.3 EPA Review of the Status of the NPDES Permit 4
2.4 Future Direction of the SMP 5
2.5 NPDES Permit Modification SMP Updates 5
3.0 SUMMARY TABLE OF SMP COMPONENTS 5
4.0 NARRATIVE REPORT 5
4.1 Pollution Prevention Team 6
4.2 Mapping 6
4.3 Control Measures 7
4.3.1 Public Education and Involvement 7
4.3.2 Industrial Dischargers 12
4.3.3 Source Controls and Pollution Prevention 12
4.3.4 Land Disturbance and Development 15
4.3.5 Infrastructure Operations and Maintenance 18
4.4 Monitoring Program 32
4.4.1 Dry Weather Outfall Screening for Illicit Discharges 33
4.4.2 Wet Weather Outfall Monitoring 33
4.5 Illicit Discharge Detection and Elimination (IDDE) Program 33
4.5.1 Instream Sampling for Illicit Discharges 33
4.5.2 Illicit Discharge Investigations 33
4.5.3 Illegal Connections 34
4.6 Legal Authority 34
4.6.1 Written Warnings 36
4.6.2 Verbal Warnings 36
5.0 SUMMARY OF PROPOSED SMP MODIFICATIONS 36
6.0 PROGRAM RESOURCES ANALYSIS 36
6.1 Fiscal Analysis 36
6.2 Staff and Resources 40

LIST OF APPENDICES

Appendix A Definitions

Appendix B Stormwater Management Plan Summary Table

Appendix C Updated City Outfall Locations Map

Appendix D 2024-2025 Spills

Appendix E 2024-2025 Pesticide, Fertilizer, and Herbicide Use

Appendix F 2024-2025 Environmental Protection Board Summary Table

Appendix G City Staff Training Events Sign-In Sheets

Appendix H 2024-2025 Catch Basin / Manhole Repairs List

Appendix I 2024-2025 Culvert Cleaning List

Appendix J 2024-2025 Dry Weather Sampling

Appendix K 2024-2025 IDDE Sampling

Appendix L 2024-2025 DCIA Tracking Worksheet

Appendix M 2024-2025 Road Paving Program

Appendix N 2024-2025 SMD Road Maintenance

Appendix O 2024-2025 Harbor Watch Rivers Report

Appendix P 2024-2025 Wet Weather Sampling

1.0 INTRODUCTION

1.1 Introduction & Overview

The City of Stamford (the City) was issued its current NPDES Permit (No. CT0030279) for discharge of stormwater from its municipal separate storm sewer system (MS4) on June 4, 2013. Renewal for this permit was submitted to Connecticut Department of Energy and Environmental Protection (CTDEEP) on August 6, 2021. This permit requires many actions to reduce pollution from stormwater runoff. No changes have been made to the permit, the permit regulations remain in effect.

This Annual Report (Report) covers the period from **July 1, 2024**, through **June 30, 2025** (Reporting Period). It summarizes the activities conducted and measures taken to comply with the previous and current NPDES Permit during this Reporting Period. This Annual Report was prepared in accordance with the terms and conditions of the NPDES Permit, as well as the Stormwater Management Plan, City of Stamford, Stamford, Connecticut, issued September 2, 2014 and revised August 2020 (the SMP).

The 2023-2024 MS4 final Annual Report was submitted to CTDEEP on March 12, 2025.

On January 2, 2016, the City submitted an application for modification of its NPDES Permit. The City, in conjunction with CTDEEP, completed many efforts to work through the requested permit modification items during the 2016-17 fiscal year. Many meetings, phone calls, emails, and letters related to the process were conducted over a period of two years to complete the permit modification process. CTDEEP worked with the City and the Environmental Protection Agency (EPA) in efforts to complete the process. An NPDES Permit Modification for the City of Stamford was issued by CTDEEP on August 14, 2017.

On February 6, 2018, the City submitted a permit renewal application for the newly modified NPDES Permit, which was set to expire on June 3, 2018. The City received minimal comments from CTDEEP's review of the application and has since submitted all of the requested information. The new permit is pending renewal from CTDEEP.

Notice of Sufficiency from CTDEEP was received on July 9, 2019. The letter indicates the application is in technical review and permit # CT 0030279, which expired on June 3, 2018 will continue to be effective until the commissioner disposes of the renewal application. The Stormwater Management Department (SMD) operated under this direction for the entirety of the 2024-2025 reporting year and continues to operate under the terms of the permit.

1.2 SWMP Development Team

Table 1.1 SWMP DEVELOPMENT TEAM		
Name	Organization & Title	Address & Phone
Thomas Turk	City of Stamford, Road Maintenance Division Manager	90 Magee Ave, Stamford, CT 06902 (203) 977-5919
Tyler Theder	City of Stamford, Stormwater Management Department Regulatory Compliance and Administrative Officer	90 Magee Ave, Stamford, CT 06902 (203) 977-5281
Matthew Quinones	City of Stamford, Office of Operations Director of Operations	888 Washington Blvd, Stamford, CT 06901 (203) 977-4141
Ralph Blessing	City of Stamford Land Use Bureau Chief	888 Washington Blvd, Stamford, CT 06901 (203) 977-4714
Monica Sims	City of Stamford, Land Use Bureau Zoning Enforcement Officer	888 Washington Blvd, Stamford, CT 06901 (203) 977-5944
Louis Casolo	City of Stamford, Engineering City Engineer	888 Washington Blvd, Stamford, CT 06901 (203) 977-5796
Robert Clausi	City of Stamford, Environmental Protection Board Executive Director	888 Washington Blvd 5th floor, Stamford, CT 06901 (203) 977-4965
Cindy Barber	City of Stamford, Land Use Bureau - Information Technology	888 Washington Blvd, Stamford, CT 06901 (203) 977-5360
Jeff Bogoian	Barton and Loguidice Project Manager	855 Winding Brook Dr, Glastonbury, CT 06033 (860) 633-8770
Michael Estremera	City of Stamford, Stormwater Management Department Environmental Enforcement Officer	90 Magee Avenue Stamford, CT 06902 (203) 977-0826
Danielle Petretta	City of Stamford, Environmental Sustainability Coordinator	888 Washington Boulevard Stamford, CT 06902 (203) 977-2815

2.0 PROGRAM EVALUATION

2.1 Stormwater Management Plan (SMP) Objectives

The City of Stamford (the City) was issued an NPDES Permit for discharge of stormwater from its municipal separate storm sewer system (MS4) on June 4, 2013. This permit was renewed in February 2018. The new modified permit renewal is pending approval from CTDEEP. The City developed and is implementing a Stormwater Management Plan (SMP) based on the requirements of the NPDES Permit.

The SMP provides the framework for compliance with the terms and conditions of the NPDES Permit with the overall objective of improving the quality of stormwater runoff and protecting the surface waters of the State. The SMP seeks to achieve this objective through:

- Establishment of a Pollution Prevention Team
- Development of Stormwater Mapping
- Establishment and Implementation of Control Measures, including:
  - Public Education and Involvement
  - Source Controls for Pollution Prevention
  - Future Land Disturbance and Development Management
  - Infrastructure Operations and Maintenance
- Establishment and Implementation of an Illicit Discharge Detection and Elimination (IDDE) Program
- Establishment and Implementation of a Water Quality Monitoring Program
- Establishment and Implementation of Legal Authority to Control Discharges
- Establishment and Implementation of Procedures to Coordinate Stormwater Activities between various Departments and Agencies
- Maintaining Consistency with Other Plans and Permits

In 2022, the Stormwater Management Department (SMD) worked with Fuss & O'Neill to update the SMP. A draft version of the document was produced, but a handful of coordination items remain. The Stormwater Management Department (SMD) worked to resolved a few items during the 2024-25 reporting period, but as of December 15, 2025 has not made the SMP available on the website or in printed form. The City anticipates completing the SMP update work and making it available to the public in the near future. SMD envisions the SMP update to reflect current efforts and planning work, in an effort to meet MS4 permit requirements. The Connecticut Department of Energy and Environmental Protection (CT DEEP) has not made an official request for SMD to update the SMP as of SMP December 15, 2025.

Additional details on each of these of these methods to achieve the objectives of the SMP are presented in the Summary Table of SMP Components (Section 3.0) and the Narrative Report (Section 4.0).

2.2 Major Findings

The objective of the SMP is to improve stormwater runoff quality and protect the surface waters of the State. This discussion of major findings should provide an overall evaluation as to whether stormwater and surface water quality in the City and from the City's MS4 is improving or degrading in the City.

The major findings during this Reporting Period of the modified NPDES Permit are the steps that the City has taken to implement the permit requirements, including but not limited to:

- Continued development of an understanding of the permit requirements and the resources necessary to achieve compliance.
- Continued allocation of additional resources (personnel, equipment, and budget) to/within the Road Maintenance Division to specifically address stormwater management and stormwater runoff quality improvement issues.
- Continued coordination of the Stormwater Pollution Prevention Team with City Departments for stormwater-related issues
- Implementation of the SMP and associated public outreach activities.
- Continuation of city-wide geographic information system (GIS) mapping related to stormwater infrastructure and management.
- Continued development of legal authority and zoning regulations to address stormwater discharges and quality.
- Continued coordination of public outreach with local environmental and business groups.
- Continued coordination with consultants to assist in the implementation of the SMP and to perform surface water, stormwater, and outfall monitoring.

2.3 EPA Review of the Status of the NPDES Permit

Representatives from the US Environmental Protection Agency (EPA) and CTDEEP visited with members of the City's Stormwater Pollution Prevention Team on June 15 and 16, 2015 to conduct a compliance audit of the City's NPDES Permit. The compliance audit included a "five-year look-back" period. After the compliance audit, the EPA indicated that several areas of the permit needed improvement, which are outlined in Section 2.3.1 of the 2014 & 2015 Annual Report.

The EPA issued an Administrative Order and Request for Information, regarding the compliance audit, to the City of Stamford on October 1, 2015. The City of Stamford has been working with the EPA of this Reporting Period to address items identified during the compliance audit.

Per the request of CTDEEP, on September 17, 2018, the City of Stamford provided CTDEEP with a 52-page document discussing the status of the findings of the EPA's Violation and Order for Compliance – Docket No. CWA-01-AO-15-012, September 30, 2015. No new additions

to the permit or Notice of Violations (NOV) were reported during the 2024-25 reporting period.

2.4 Future Direction of the SMP

The SMP will continue to be evaluated in greater detail as part of the 2025-26 Reporting Period. A component of that evaluation will be a review of goals, schedules, and procedures referenced in the SMP as "to be established" and a detailed analysis of the status of these items.

The City considers the SMP to be a dynamic document and will continue to work towards updating and revising it as conditions and regulations change in an effort to maximize its ability to be utilized as a tool to manage and improve stormwater runoff quality.

The City will continue to focus more of its resources in the coming years to achieving compliance with the SMP, particularly in the areas of:

- Public education and involvement
- Stormwater mapping
- Illicit discharge detection and elimination
- Control measures
- Infrastructure operations and maintenance
- Legal authority and regulatory changes
- Water quality monitoring

Specific goals or requirements are discussed in the Narrative Report, Section 4.0, of this Annual Report. The Team Coordinator and Regulatory Compliance and Administrative Officer will continue to be responsible for closely tracking individual activities and events in each of these areas.

2.5 NPDES Permit Modification SMP Updates

On August 14, 2017, a permit modification was issued for the City's NPDES Permit. During the 2017- 18 Reporting Period, the City reviewed the permit modification for any new requirements. During the 2019-20 Reporting Period, the City received a draft revised SMP from Fuss & O'Neill that was finalized in August 2020.

3.0 SUMMARY TABLE OF SMP COMPONENTS

A summary table of SMP components was not completed for this Reporting Period. Appendix B is intentionally left blank.

4.0 NARRATIVE REPORT

4.1 Pollution Prevention Team

The Pollution Prevention Team (Team), Section 1.2, was established to implement the SMP, to keep it up to date as conditions and/or regulations change, to maintain the control measures to improve stormwater quality, and to take corrective actions, as necessary. With the issuance of the new NPDES Permit in 2013, the City decided to transfer the majority of the responsibility for compliance with the permit from the SWPCA to the Traffic and Road Maintenance Division. Responsibility for Traffic functions within this department has since been shifted to the newly created Traffic, Transportation, and Planning Department, as of approximately 2017.

The Team that has been established under the current SMP (see Appendix B of the SMP and Section 1 of this report) consists of personnel from many City departments whose operations may affect the current and future stormwater quality. Team members supply the City with a wide range of experience and expertise in managing and controlling stormwater runoff quality.

Since 2013, the Team has continued improving their understanding of the new NPDES Permit requirements, communicating these requirements amongst themselves, establishing areas of responsibility and cooperation, brainstorming on public education and control measure ideas, and working with the appropriate legal counsel to establish legal authority and new regulations.

The Team's activities are coordinated by the Road Maintenance Division Manager. Many of the day-to-day stormwater permit compliance activities are managed by the Regulatory Compliance and Administrative Officer; this position was created in early 2014 specifically due to the issuance of the current NPDES Permit.

As of 2014, the City created and filled five positions under the direction of the Regulatory Compliance and Administrative Officer. During the 2024-25 Reporting Period, staff in the stormwater management department consisted of nine Heavy Equipment Operators and one Environmental Enforcement Officer. An administrative Account Clerk and an Operations Foreman also worked part time for the department during the reporting period. Additional information regarding this is available on the city's OPM budget page. See Appendix N for reference.

It is anticipated that the Team will continue these activities during the next year of the discharge permit as well as develop and coordinate additional specific goals with the objective of improving the overall quality of stormwater runoff in the City of Stamford.

4.2 Mapping

The City maintains a strong GIS department that can coordinate city-specific, as well as environmental data, available from the DEEP and other sources. Information that has been mapped includes city roadways, city properties, aerial photography, topography, zoning maps, surface water bodies, watershed areas, surface water quality classifications, impaired waters,

mapped inland wetlands, mapped tidal wetlands, and the coastal boundary.

The City continues to update and reuse mapping for sanitary sewer lines, stormwater lines, and stormwater outfalls. Mapping efforts continue city wide and occur frequently as new structures are located or built. Initially, 154 stormwater outfalls were mapped. The City continued to identify and map new MS4 outfalls in the City throughout the Reporting Period. As of June 30, 2024, the City has mapped 985 outfalls. Five new outfalls were added during the 2024-25 reporting period bringing the total to 990 outfalls. The City understands that there is continual maintenance being conducted on the stormwater system throughout the city and that the outfall mapping will require constant updating. Current updated outfall mapping is provided in Appendix C.

The City continues to confirm the accuracy of outfall locations and whether they are part of the City's MS4 stormwater system or another entity's responsibility. See Section 4.5 and Section 4.4.2 for additional details on the IDDE program and the wet weather monitoring program. A new Interconnected MS4 plan was prepared in June 2016 and is further discussed in Section 4.3.5.10.

This component of the SMP is to be expanded to include the following GIS mapping:

- Storm line material and size data
- Responsibility, if part of another MS4 stormwater system (such as DOT's)
- Completed and proposed cleaning and repair activities
- Outfall discharge monitoring data
- IDDE screening and investigation results
- Proposed IDDE investigations
- Completed and proposed capital projects.
- Connections to any other public or private storm drainage systems
- Drainage areas for each MS4 outfall
- Areas served by on-site subsurface disposal areas.
- Storm drains that do or may receive discharges from underdrain systems.

4.3 Control Measures

4.3.1 Public Education and Involvement

City residents can contribute to pollution transported via stormwater by misapplying lawn pesticides, herbicides and fertilizers, littering, dumping pollutants into storm drains, failing to dispose of pet waste properly, and other actions which can be detrimental to the quality of stormwater discharging into water bodies. Many people are unaware that they are polluting when engaged in these activities. Therefore, public education and outreach and public involvement and participation will help minimize the amount of pollution contributed to the City's water bodies by residents. Also, public education and outreach coupled with public involvement and participation allows city residents to have a voice regarding stormwater.

During this Reporting Period, the following public education and involvement activities have been completed:

- The City has continued to maintain and update the stormwater section that was previously added to the City of Stamford's website at http://www.stamfordct.gov/stormwater-management. The Stormwater Management website had over 800 views during the Reporting Period. There were 180 views of the annual reports during the 2024-25 reporting period. The website provides basic information about stormwater as well as key contacts within the City of Stamford. Additionally, it provides links to:
    - The NPDES Permit
    - The SMP (Revised August 2020)
    - The MS4 Stormwater Ordinance (Chapter 201, Charter and Code of the City of Stamford)
    - The Annual Reports (a hard copy of the 2023-2024 report was delivered to the Ferguson Library Reference Desk on March 19, 2025. A PDF of the report has been linked to the storm and flood resources page at the library. At the same time an electronic version of the report was uploaded to the City's website, under Stormwater Management.
    - The household hazardous waste collection events schedule and information on the materials managed.
    - Best management plans for pesticides
    - Information on preventing stormwater pollution in English and Spanish
    - How to report a stormwater issue, violation, or complaint
- The City maintains a Frequently Asked Questions section that includes 26 questions and answers that city residents may view.
- The Regulatory Compliance and Administrative Officer for the City of Stamford, in an effort to aid in the public participation of stormwater management, added a link to Stormwater Management Website for the RiverSmart CT project at: https://www.riversmartct.org/resources.
- In 2014, the department adjusted internal operations to receive and respond to citizen questions and complaints regarding stormwater related issues. The City's stormwater management department responded to hundreds of citizen inquiries regarding snow storage, sweeping, catch basin cleaning, and IDDE program during the Reporting Period. Complete records of service requests, including completed and closed reports, can be obtained by the information technology department, upon request.
- The Environmental Protection Board of the City of Stamford (EPB) held a special public meeting on June 13, 2024 to consider amendments to Stamford's Inland Wetland and Watercourse Regulations. For further details, see 4.3.4 Land Disturbance and Development in this report.
- There was no annual public meeting for the 2024-25 Reporting Period.
- Leaf pickup program postcards were mailed to over 20,000 residents in October 2024. No other targeted stormwater pamphlets were mailed to residents during the

2024-25 reporting period.

- As of 6/30/25, the City maintains 79 dog waste dispensers and signs informing park patrons of the need to pick up after their dogs. No new dispensers were added or removed during the 2024-25 Reporting Period by the Parks Department in the most used parks. $23,581.60 was spent on pet waste bags was during the Reporting Period. City staff have observed the used bags disposed of in the trash containers throughout the areas with dispensers. Over 480,000 bags were used during the 2024-25 Reporting Period.
- Pet waste pamphlets were distributed when residents would visit the City Clerk's office to obtain dog licenses. This practice continued during the 2024-25 reporting period. The pamphlets make reference to applicable ordinances and requirements of dog owners. A digital version of the pamphlet was sent to the Town Clerk's office on May 8, 2025 with the intention of posting it on the City's website. The SMD provided the City Clerk's office with 1,650 hard copy pamphlets on December 7, 2023 and 825 pamphlets on January 23, 2024. The SMD will make minor updates to the pamphlet during future reporting periods and continue to provide the printed brochures to the City Clerk for distribution.
- On December 10, 2025, 100 Harbor Watch handouts highlighting Stamford water quality were delivered to the EPB. On December 11, 2025, another 100 of these Harbor Watch handouts were brought to the Stamford Water Pollution Control Authority (WPCA); some are which are distributed during tours and visitor interactions at the facility. The WPCA recorded 485 visitors/tours from 1/1/2025-12/10/2025.
- The Mill River Collaborative performs annual clean ups, improvements, and provides educational programming within the City.
    - Celebrated the grand opening of The Sue McGraw Friendship Playground at Mill River Park. The ribbon cutting ceremony on June 21, 2025 from 10 am to 12 pm, welcomed hundreds of children and their families.
- SoundWaters is the leading environmental education organization on Long Island Sound. Over 30,000 students learn and explore with SoundWaters, through education and action, every year. SoundWaters constructed a 17.5-million-dollar new education center at Boccuzzi Park. The building opened in November 2022. Additional information on the organization can be found at **www.Soundwaters.org**.
- The Mianus Chapter of Trout Unlimited continued work to educate, rebuild, restore and protect the area of the Mianus River. The chapter continue to be involved in trail maintenance and park upkeep. They engage in annual cleanup events and educate students in local schools. They have partnered with the Veterans Service Partnership Program, the Connecticut Special Olympics, and other agencies and environmental organizations in the Stamford region.
- The Nature Conservancy, a non-profit organization which promotes environmental conservation, gifted the City's first bioswale which was approved by the Board of Representatives on May 22, 2019. The bioswale removes contaminants from stormwater surface runoff and complies with the MS4 permit. Installation was

completed in Rippowam Park on September 16, 2019. This bioswale was honored with a Changemakers Resiliency Award by the Business Council of Fairfield County in partnership with the Stamford 2030 District. The City has received a proposal for construct additional bioswales throughout the City. Based on the success of the Rippowam Place bioswale installation, the City looks to work in the future with the Downtown Special Services District (DSSD) and other City agencies to plan, install, and maintain additional bio-swale structures. In June of 2023, The SMD coordinated excavation and replanting of the bioswale. In December 2024, the SMD secured more funding for additional bioswale projects in the City and a request for $250,000 was approved by the city Board of Representatives at the February 2025 meeting. This brings the total amount for design and construction of downtown green infrastructure to $1.25 million. In the 2025-26 reporting year, the SMD is planning to submit a budget and work plan to the US EPA, then issue request for proposals to interested parties with the intent to begin construction. During the 2024-25 reporting year, the plant material in the bioswale appeared healthy. There has not been any continued involvement with the Nature Conservancy during the 2024-25 reporting period.

- Currently, the City estimates it has installed medallions on approximately 60-65% of the City-maintained catch basins. The City was unable to significantly add to the medallion program in the 2024-25 Reporting Period. These medallions were installed both in English and Spanish to help public awareness for stormwater quality issues. These medallions were installed by City staff members and are primarily installed on curb-back type catch basins.
- The City has collaborated with a marketing and public relations firm to develop stormwater management outreach materials in English and Spanish. These are available online and at the government center.
- The City celebrated Earth Day on April 6 through April 27, 2025. Many events were scheduled, including: a 5K event at the Stamford Museum & Nature Center; an event at the Bartlett Arboretum and Gardens featuring non-profits including the Stamford Garden Club, People Friendly Stamford, and the Friends of the Mianus River Park; multiple celebrations including those at Designs by Lee, Whittingham Discovery Center, Fairgate Farm, and Greenwich Land Trust; a neighborhood and beach cleanup at Shippan Point. The theme of the day was “Our Power, Our Planet” and included activities such as tree plantations, going green, and singing earth day songs. The 2025 Earth Day Eco-Fair occurred on April 22, 2025 at the Stamford Government Center Lobby. An informative event with sustainable organizations such as CT Rides, Live Green CT, Stamforward, and Branching Out Tree Initiative promoted sustainability.
- The Climate Executive Order Addressing Climate Change and Sustainability, makes specific reference to "require the prioritization of green infrastructure projects and resiliency initiatives, with a focus on critical infrastructure and underserved neighborhoods. Projects may include enhancing sea walls, building bioswales, planting trees, upgrading stormwater infrastructure, and other efforts to prepare for adverse impacts of climate change, including sea level rise and extreme weather events.” The SMD is involved in many of the projects. Phase I of *Sustainable Stamford:*

A Plan for Climate Action was completed in 2024 outlining the actions underway and planned within the city's own municipal operations which are designed to mitigate the consequences of climate change and adapt to new climate realities citywide. It highlights the nearly $40 million secured in state and federal grants leveraged to devise and invest in practical, implementable solutions to local challenges which will provide immediate and lasting relief plus widespread, equitable benefits. 90 actions are already underway with another 45+ actions under consideration to be introduced in the coming years. Phase 2 will determine specific reduction targets and deadlines, include actions underway by residents, businesses, and community organizations and develop a framework to monitor and report of the progress. The City of Stamford has secured more than $1.3 million in grants to address flooding at Toilsome Brook and Cummings Pond. In addition, a comprehensive Coastal Flood Resiliency Plan will also be conducted. The SMD has been involved with these projects throughout the 2024-25 monitoring period. Sharing information observations, and supplying maintenance records. While these projects require planning involving stormwater, they are not mandated by the permit.

- On October 26, 2024 and April 26, 2025, the Stamford Police Department hosted National Rx Drug Take-Back events. The event collected unused and unwanted medicines from residents. As part of the event, the police department provided services for residents to drop off their unused or expired medications. The event was publicized through informative links for the event posted on the City's website under Public Safety, Health and Welfare Administration. The events were staffed at a drive through setup at police headquarters. This program diverted material that otherwise would have been flushed by residents and ultimately make its way to the WPCA treatment plant, which does not have the ability to remove certain chemicals from treated waste prior to discharging to Long Island Sound.
- A link for the Connecticut Flood Safety Awareness Week was added to the City's website in March 2024. It was not posted during this reporting period however, the EPB annually sends a two sided informative document to all properties within a known flood hazard. Included on the mailed letter are a map of the city with flood areas, information about preparedness, safety, and flood laws. The SMD keeps a copy of the mailed document for informational purposes.
- City staff continued to engage during the reporting period with Downtown Special Services District (DSSD) regarding the condition of their dumpster storage and grease areas. Coordination meetings were held with downtown restaurant owners/staff, DSSD, Stamford Health Department, and other relevant groups to ensure cleanliness at the Bedford St. trash and grease storage Co-op facility. The Bedford St. facility was professionally cleaned during the 2024-25 reporting period.
- The City of Stamford has started a campaign mentioned on the city's website about illegal dumping, which affects stormwater. The slogan "Team Up to Clean Up" is used. Keeping bulk waste and garage off city street and sidewalks, overcrowding, and overflowing garbage receptacles are given as reminders to city residents. Residents are urged to contact the Stamford Police department, the Citizen Service Center, the Public

Safety, Health, and Welfare Department or submit a report on FixItStamford: **https://www.stamfordct.gov/fixit** if conditions exist.

4.3.2 Industrial Dischargers

During the 2015 NDPES Permit compliance audit, the EPA indicated that the City is required to educate owners and operators of commercial, industrial, and institutional facilities as to their responsibility to control pollutants in stormwater discharges from their properties into the City's MS4.

The City's Stormwater Management Department has obtained a CTDEEP list of stormwater discharge General Permit sites for commercial or industrial activity and has prepared informational outreach materials to target these businesses. The City of Stamford SMD has printed pamphlets and stormwater educational materials which will be distributed to commercial and industrial facilities during the 2024-25 Reporting Period. A list of these facilities was obtained from CTDEEP and filtered for all sites located in Stamford. During the 2024-25 Reporting Period, the SMD has worked individually with some of the facilities listed under the CTDEEP Industrial Stormwater Registration category. The SMD conducted inspections at some of these locations, discussed good housekeeping practices, reviewed structural controls, and coordinated with property owners.

On December 8, 2025, the city of Stamford distributed 23 pamphlets to industrial stormwater permit holders. A list of these facilities in Stamford was obtained from CT DEEP. The distributed pamphlets include information on Stamford's MS4 system and ordinances, which regulates stormwater pollutants. The SMD has worked individually with some of these facilities during the reporting period conducting inspections, discussing good housekeeping practices, reviewing structural controls, and coordinating with property owners.

4.3.3 Source Controls and Pollution Prevention

4.3.3.1 Used Oil Collection

The City collects used motor oil and cooking oil at the Katrina Mygatt Recycling Center so that residents will have a place to properly dispose of these materials and to limit the potential for them to be improperly disposed and adversely affect stormwater quality. During the reporting period, 5,321-gallons of used motor oil and 4,260-gallons of used cooking oil were collected. The City intends to continue its used motor oil collection activities.

4.3.3.2 Household Hazardous Waste (HHW) and Electronic Waste Collection Programs

The City holds at least one HHW collection day within the City limits each year so that residents

will have a place to properly dispose of these materials and to limit the potential for them to be improperly disposed of and potentially affect stormwater quality. The City hosted an HHW collection day on July 13, 2024, at the Rippowam Middle School on High Ridge Road. 105 households and 225 half-households participated in the event occurring at Rippowam Middle School on July 12, 2025. In addition, Stamford residents can utilize HHW collection days in Darien, Greenwich, New Canaan, Norwalk, Westport approximately five other days per year (throughout the spring and fall). The City intends to continue its involvement in these collection events.

The City collects used consumer electronics at the Katrina Mygatt Recycling Center during normal operating hours. Acceptable materials include computers, monitors, televisions, VCRs, DVDs, cell phones, copiers, fax machines, printers, radios, stereos, and small electronics. In addition, inks and toners, rechargeable batteries, lithium-ion batteries, vehicle batteries, compact fluorescent light bulbs, and linear lamps are also accepted at the Recycling Center. During the reporting period, approximately 2.76 tons of universal waste, 5,321 gallons of motor oil, 4,260 gallons of used cooking oil, and 95 tons of consumer electronics were collected. The City intends to continue its waste electronics collection activities.

4.3.3.3 Spills and Leak

In June 2016, a city-wide Spill Prevention and Response Plan (SPRP) was completed to prevent, contain, and abate spills of oils, petroleum products, and other potentially hazardous materials to minimize stormwater impacts and protect surface waters. No updates to the spill prevention and response plan during the 2024-25 reporting period, however there were internal discussions regarding minor changes to areas of interconnected MS4 between neighboring municipalities, Connecticut Department of Transportation (CDOT), and the City of Stamford.

During the Reporting Period, SMD responded to numerous spills on the City's roadways and coordinated with first responders (Police, Fire, CTDEEP) to limit impacts to the City's MS4. The city responded to five spills that were estimated to five gallons or greater during the 2024-25 reporting period. The list of hazardous material spill was compiled from the Stamford Fire Department. The current Fire Chief is Robert Morris and the Assistant Chief is Miguel Robles. A list of recent spills maintained by SMD during the Reporting Period is presented in Appendix D along with a list of hazardous material incidents the Stamford Fire Department was dispatched to.

For additional information on training for spill prevention and response see Section 4.3.5.1.

4.3.3.4 Pesticide, Herbicide and Fertilizer Use Limitations

The City is required to limit the use of pesticides, herbicides, and fertilizers (PHF) in City-owned or operated areas. The City has developed the Best Management Practices (BMPs), found in Appendix G of the SMP, for PHF application in city-owned or operated areas. No updates for this reporting period on the PHF program. Further development of standard operating procedures

(SOPs) for the use of PHFs is ongoing. It is anticipated that they will be modeled based on the CTDEEP Integrated Pest Management (IPM) Plans.

Fertilizers and herbicides are used on the municipal athletic fields and the city operated golf courses, as described in the SMP. During the 2024-25 Reporting Period, 400 pounds of nitrogen was applied to the Sterling Farms Golf Facility and 1,178 pounds of nitrogen was applied to the E Gaynor Brennan Golf Course. Every year, in April, Dimension (18-0-40) is applied to the fields and contains both fertilizer and herbicides. In May, ProPendi (13-0-4) is applied to the fields and contains both herbicides and fertilizer. In September, just fertilizer (25-0-5) is applied to the fields. See Appendix E for a table of the total nitrogen used at the City-owned facilities.

As required by the NPDES Permit, the City is in the process of establishing reduction goals, including consideration of alternatives for PHFs being used at City-owned or operated areas, specifically at the municipal athletic fields. No PHFs are used on city park green spaces.

The Mill River Park/Mill River Collaborative completely avoids the use of synthetic fertilizers. They employ a "feed the soil ecology" program where the soil is infused with sixteen or more species of bacteria and fed with a fish emulsion/kelp/yucca blend as a substitute for traditional fertilizers. Additionally, the Mill River Collaborative maintains its lawns at four inches to build deeper, more drought-tolerant root systems. All grass clippings are returned to the lawns, and they use organic products, such as soybean meal, to add nitrogen to the soil. The Mill River Collaborative uses minimal herbicides on invasive plant species per CTDEEP guidelines. They have found that as they continue this program, they require less herbicide use each year.

The Pollution Prevention Team will work with the golf course staff to help reduce the total amount of nitrogen used at these facilities. It is the City's intention to establish goals for reducing the amount of PHFs used at all city-owned or operated areas.

4.3.3.5 Salt Storage and Usage

The City stockpiles road salt at the Highway Department (90 Magee Avenue), the Town Yard (106 Haig Avenue), and the Scofieldtown Yard (55 Rock Rimmon Rd.). At each facility, salt is stored on an impervious pad and is covered by a roof in accordance with the requirements of the DEEP's General Permit for the Discharge of Stormwater Associated with Industrial Activities. No salt is stored outside or exposed to outside weather conditions. Salt is stored inside under roof cover on an impervious paved surface.

The City used approximately 3,445 tons of salt during 16 weather events for a combined total of 24.10 inches of snow during the winter of 2024-25 significantly more than the 5 days totaling 17.6 inches recorded during the 2023-24 reporting period. Salt usage quantities will continue to be tracked and the City's goal is to reduce the amount of salt utilized on its roadways by increasing efficiencies and investigating alternate methods. However, salt usage will continue to vary based on storm frequency and intensity. The winter events of 2024-25 was mild. Liquid

pretreatment was not used during many of the winter events since several storms started as rain then turning into snow. Limited efforts related to special hazard ice control were necessary during the winter of 2024-25. To reduce salt usage, the stormwater management department has worked to correct field conditions which contribute to water and ice on city roadways. Much progress has been made eliminating conditions where water flows onto the roadways.

The City's brine system was operational during the 2024-25 Reporting Period with the 5,000-gallon brine tank located at the Town Yard Facility (105 Haig Ave.). However, the brine system was not utilized due to most of the winter events starting as rain then changing to snow. See Section 4.3.5.6, Snow Removal, for additional discussion on salt usage.

4.3.4 Land Disturbance and Development

Construction site runoff and post-construction site runoff should be reduced so that water bodies are not receiving additional pollutants or sediment. Sediment causes water bodies to become physically and biologically altered. Decreases in habitat quality can result from significant amounts of sediment covering these habitat areas.

Under the terms of the NPDES Permit, the City of Stamford is required to implement and enforce a program to address construction and post-construction stormwater discharges from land disturbing activities and after site stabilization has been achieved. This program is based on the Connecticut Guidelines for Soil Erosion and Sediment Control (latest edition) and the Connecticut Stormwater Quality Manual (as amended). The City currently is maintaining Class 7 standing in the Community Rating System of the National Flood Insurance Program.

The City has a well-developed process for ensuring that applicants for building permits have received all appropriate City approvals prior to issuance of a building permit. As part of this review and approval process, the Engineering Department reviews stormwater and drainage for proposed developments and site plan revisions.

The NPDES Permit requires the City of Stamford to develop and enforce a program to control stormwater discharges from development and redevelopment activities with one-half acre (21,780 sf) or more of soil disturbance. The one-half acre threshold applies both individually and collectively as part of a larger common plan. Modifications to the Zoning Regulations include provisions to encourage low impact development (LID) practices to maximize infiltration and minimize stormwater runoff. The regulations also limit barriers to LID design and construction.

The Engineering Bureau is also tracking the DCIA on development projects to ensure that treatment/retention volume standards are met. DCIA tracking worksheets and plan graphics are available upon request. Refer to the summary table in Appendix L.

The NPDES Permit requires the City to conduct site-plan review and pre-construction review meetings that incorporate consideration of stormwater control or management practices to

prevent or minimize impacts to water quality. The City currently conducts such meetings internally as part of staff review of many projects. Meetings with developers occur when the project has significant potential for environmental impact.

As part of the application review process, the City is now providing applicants with information on the DEEP's General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities. Applicants are being informed about stormwater management issues at the time Environmental Planning Board (EPB) and Planning & Zoning signoffs are being obtained. Applicants have been made aware of their responsibility to obtain DEEP Construction Stormwater General Permits.

The City's building permit process is facilitated electronically through a software package called "View Permit". The plan is to attach standard text to all applications notifying the applicants of their responsibility, if applicable, to obtain DEEP permits. During the 2024-25 fiscal year, about 876 building permits applications were reviewed by the EPB as well as 116 formal applications for compliance.

The NPDES Permit also requires site inspection and enforcement to assess the adequacy of the installation, maintenance, operation, and repair of construction and post-construction control measures. The City's staff performs site visits when the project is near a wetland or other water body. Current staffing levels limit the opportunities for site inspections to only those projects with the greatest potential for impact to stormwater quality. Site visits frequently occur prior to the issuance of a Certificate of Occupancy. The SMP makes referrals as necessary to EPB where ESC's and construction site stabilization issues are observed. During the 2024-25 fiscal year, EPB fielded thousands of calls regarding specific projects and properties as well as general wetland, flood zone, and other environmental issues. They conducted hundreds of site inspections in FY 2024-25 to assess compliance with issued approvals or investigate reports of unauthorized regulated activities. Several enforcement actions were formally brought before the Board during FY 2024-25 to restore adverse environmental impacts discovered by staff during these site inspections. In FY 2023-24, the EPB began its first comprehensive revision of the Stamford Inland Wetland and Watercourses Regulations in almost 20 years. The draft regulations that were developed through an iterative process involving the members of the Board and staff were approved by the EPB in June after a public hearing was held on June 13, 2024.

The EPB held a special public meeting to consider amendments to Stamford's Inland Wetland and Watercourse Regulations. The amendments were as follows: increasing the upland review area from 25 feet to 50 feet in non-drinking water supply watersheds, increasing the upland review area from 50 feet to 75 feet in drinking water supply watersheds, and allowing the EPB to appoint their staff "duly authorized agents" with the ability to issue and extend permits for minimal impact regulated activities proposed outside of wetlands and watercourses. The Stamford Board of Representatives approved the amendments during the August 21 and September 18, 2024 meetings.

4.3.4.1 Directly Connected Impervious Cover

The NPDES Permit calls for completion of DCIA (directly connected impervious area) mapping associated with each MS4 outfall. The City continued the process of estimating the DCIA throughout the City. Sub-meter aerial photogrammetry of the City is being used in determining the DCIA. The initial estimate will be based on the total area of impervious cover, including roadways, driveways, sidewalks, parking lots, and building footprints that discharge to the MS4. Allocating the amount of the DCIA to each MS4 outfall and evaluating each drainage area to determine if the roof tops are connected to the DCIA will be performed in the next couple of years. The City has determined that the existing GIS Department does not have staffing resources to conduct this work. Therefore, the SMD has contracted various engineering firms to assist in conducting this work. Estimates will be revised in the future as development, re-development, or retrofit projects or new information effectively add or remove DCIA to or from the MS4. In the Reporting Period, the DCIA of the City was reduced by approximately 128,637 SF.

In April 2022, the City of Stamford Stormwater Management Department coordinated the submission of a federal congressional earmark request for $1,000,000 to increase capacity for stormwater flow in underserved neighborhoods by enlarging pipes and improving catch basins and conveyance systems. The request was successful, and the funding award was announced in February 2023. Areas identified meeting the criteria of, or understood to be, underserved are being considered for these improvements. The SMD coordinated with an engineering consultant, Fuss & O'Neal, to screen possible locations within the DSSD boundary to construct bioswales. An interactive GIS map was produced which provided a feasibility ranking at each proposed location. During the 2023/2024 reporting year, the Transportation, Traffic and Parking Bureau (TT&P) constructed significant upgrades to lower Summer St. between West Broad St. and Main St. The intent of the project was to improve the pedestrian experience by widening sidewalk spaces on both sides of the road. The vehicular travel lane was narrowed, and new drainage improvements were constructed. Parallel trench drains were constructed and a new bioswale was constructed in front of #118 Summer St. A ribbon cutting ceremony for this new work was conducted in July 2024, and this disconnected hundreds of feet of previously impervious cover. TT&P and SMD to continue coordination efforts as related to maintenance and appearance of this structure.

During the 2023-24 reporting year, the Road Maintenance Department was asked to repave the existing parking area near the ballfield at Drotar Park, which is located adjacent to Springdale Elementary School at 1201 Hope St. The SMD was requested to provide an assessment of drainage conditions in this area, in conjunction with the paving work. After careful consideration, the SMD designed and recommended construction of a new bioswale in the lawn area between the ballfield and the school access drive. The dimensions of the constructed bioswale are appx. 40' x 30', and this effectively disconnects and drains the entire parking area in this vicinity. The upgradient impervious area exceeds 12,000 sf. (greater than ¼ of an acre). Decorative landscape plantings, fencing, and trees were installed as part of the project. The SMD continued to monitor the effectiveness of the structure during the 2024-25 reporting year, and has documented the ability of the structure to quickly and efficiently infiltrate large

amounts of runoff generated by storm events. Even during the heaviest rainfall events during the reporting year, the SMD did not see debris or evidence of the bioswale exceeding its infiltration capacity. Due to timing, this information was not included in the 23-24 report. Additional details regarding the program will be detailed in future annual reports, as the City works toward meeting DCIA reduction goals.

4.3.4.2 City of Stamford Drainage Manual

During the 2024-25 reporting year, the Land Use Bureau and Engineering Department requested a proposal from a qualified engineering firm to update the City of Stamford Drainage Manual, originally released in 2020. A few references in the manual require updating. There are ongoing discussions related to this work as of January 25, 2026. The updates may be completed during the 2025-26 reporting year.

4.3.5 Infrastructure Operations and Maintenance

Pollution prevention and good housekeeping are critical minimum control measures because they concentrate on municipal operations including the maintenance of other control measures. These activities can make an immediate difference with local water body pollutant levels. Street sweeping and other maintenance activities reduce the amount of sediment, salt, and pollutants entering the drainage system thereby minimizing pollutant loads to local water bodies.

The Elsa and Ida events in 2021 caused a significant amount of flooding. As a result of this, the administration contacted the SMD, who suggested the City conduct a city-wide drainage assessment. The SMD suggested funding of $500,000 to cover engineering services by a third-party engineering firm. The project was awarded to the engineering firm Fuss and O'Neill on December 31, 2024 utilizing funding for the work. The City of Stamford Engineering Department managed the lead in securing this project with additional help from the Land Use Bureau and Stormwater Manangement Department. The project has 53 locations that need additional modeling, assessment, and design recommendations. As of December 23, 2025, a draft prioritization matrix has been developed a ranking system for these locations based on observations and other information.

The 53 areas indentified have been observed to exhibit repeat capacity exceedances which have been investigated/cleaned/CCTV'd by the SMD. As of December 18, 2025, Engineering Department is requesting additional funding appropriation by the Board of Representatives, to supplement future efforts related to this work. SMD anticipates a significant amount of time will continue to be allocated toward this effort during the 20255-26 reporting year. The goal of this work remains the same going forward; to position the City to request funding from state or federal entities for design and construction of drainage conveyance improvements in these targeted areas.

4.3.5a Roadway Flood Gauge Installations

During the 2024-25 reporting period, the SMD coordinated with several departments, the University of Connecticut Avery Point, and Connecticut Institute for Resilience & Climate Adaption (CIRCA) to install flood sensors at flood prone locations in the City of Stamford. CIRCA and UConn secured funding for the project and two flood sensors were installed. The flood sensors were installed at the underpasses under the railroad bridge at Elm Street and at the intersection of East Main Street and Myrtle Avenue. The flood sensors are monitored by CIRCA and UConn Avery Point.

When the sensors become fully operational, the sensors will provide real time data which is a necessity when maintaining road safety. The data will also help the SMD and the City of Stamford Engineering Department to comprehend conditions that cause flooding such as precipitation rate and tidal cycles. During the 2025-26 reporting year, the SMD is hoping that the two flood sensors will be fully operational begin to transmit useful data.

4.3.5.1 Employee Training

Employee training is essential for maintaining and increasing awareness of water quality related issues in the management of any MS4. Training also enables facility staff to have an improved understanding of the stormwater system and how to minimize impacts to the MS4.

All employees working at City-owned facilities participate in annual training to meet the requirements of the DEEP's General Permit for the Discharge of Stormwater Associated with Industrial Activity. This annual training includes:

- Overview of the NPDES MS4 Permit
- Review of the goals and objectives of the SMP
- Review of facility Stormwater Pollution Prevention Plan
- Review of good housekeeping
- Identifying and reporting illicit discharges
- Review of spill prevention and response procedures

Training was conducted on October 2, 2024 for Universal Waste Management, Spill Prevention Control and Countermeasures Plan, and Stormwater Pollution Prevention Plan. 13 employees attended the training.

The City is dedicated to ensuring that its employees continue to gain the necessary knowledge needed for understanding and implementing the SMP to increase the quality of the stormwater in the City's MS4. The City will continue to update and implement its training programs for all employees working at City-owned facilities. A copy of the sign-in sheets for each of the training events is provided in Appendix G.

4.3.5.2 Infrastructure Repair and Rehabilitation

It is important that the City make timely repairs to the infrastructure of its MS4 to help reduce the discharge of pollutants from the MS4 to the receiving waters. The City is dedicated to giving priority to those projects discharging pollutants to impaired waters or that have other concerns related to the mapping and IDDE process. A schedule for implementation of repairs is developed and updated once the need for the repairs is established.

The SWCPA performs routine maintenance and any necessary repairs on the four stormwater pump stations on an annual basis. Funding for WPCA Maintenance is allocated to the Stormwater Management Operating Budget and back charged by the WPCA, annually.

During the Reporting Period, the City received a total of approximately 37.75-inches of liquid equivalent water (LEW). LEW is a measure of liquid precipitation, which has fallen to the ground in any precipitation type (rain, sleet, hail, snow, etc.). This data was retrieved from the National Climatic Data Center (NCDC) for the Westchester County Airport weather station in New York located immediately west of the City. The precipitation amount received is 11.60-inches less than the 1981-2010 climatological average of 49.35-inches for Westchester Airport. This information is important due to the impact heavy rainfall has on MS4 Permit compliance regarding maintaining City stormwater infrastructure and responding to emergencies that arise after heavy precipitation events.

As of January 1, 2016, the Road Maintenance Department/Stormwater Management Department is responsible for tracking the catch basins and stormwater manholes that require repairs. Previous lists of required repairs were maintained by the Engineering Department. Drainage structures that require repair will be prioritized and assigned for repair by private contractors, accordingly.

The City hired Grasso Companies to conduct infrastructure maintenance and repairs on the MS4 system during this Reporting Period. This work was part of the city-wide street patch and resurfacing work. During the 2024-25 reporting period, Cavaliere Industries Inc. installed 775 linear feet of piping as part of the citywide catch basin and manhole project. Locations and specific sizes documented on invoices are on kept on file by the SMD. Also during the same period of time, Grasso Companies replaced or installed over 1,000 linear feet of piping during the Stamford wide paving project.

Cavaliere installed 29 new catch basins sumps while Grasso reset 118 catch basins and reconstructed 283 catch basins. 203 catch frame grates were replaced by Cavaliere and Grasso during the reporting period. 239 bell traps were installed by Cavaliere and Grasso during the reporting period in addition to 21 by the SMD. During the reporting period, Cavaliere installed 28 new manhole frames and covers including masonry at existing manhole covers. Grasso installed 64 new manhole frames and covers, 110 manhole resets, and 50 manhole reconstructs involving masonry repairs at greater depths. Approximately 25 replacement manhole covers

were covers were replaced by the City of Stamford SMD.

In total, 117 manhole covers and frames were reset, 430 catch basin sumps rebuilt or reconstructed, 203 catch basin frames/grates replaced, and installation of 260 bell traps. See Appendix H for details of this work.

See Section 4.3.5.7. for additional details on catch basin cleaning. A list of 2024-25 catch basin/manhole repairs is presented in Appendix H.

The City also understands that the refinement of the standard operating procedures and good housekeeping practices for the management of the MS4 is essential to improving stormwater quality.

In 2014, the City purchased a camera truck, which is used for implementing the IDDE program and for inspecting catch basins, manholes and stormwater piping. The truck was deployed in 2015 after employees completed the necessary one-week training on the truck and equipment. Employees were re-certified in 2018. No new recertifications for occurred during the 2024-25 reporting period. The City is working on arranging a new training session for all SMD employees at this time. Initially, the camera truck is being used to inspect areas identified as needing maintenance within the MS4 and has proved to be an asset for mapping/GIS work required by the permit.

During the 2024-25 Reporting Period, SMD staff inspected and cleaned 1,868 catch basins, this figure does not include drainage structures on roads that were assessed by the City of Stamford for paving operations. Available information from 11/19/25 reveals 9,948 catch basins located within the City ROW are maintained by the SMD. Each of these locations is inspected annually and receives maintenance when discovered during the inspection or when notified. The City also employed a private contractor, OneVac, LLC, who pumped and cleaned hundreds of drainage structures which were located on roadways identified as part of the paving list. Invoice records from the 2024-25 reporting period show the SMD paid the contractor $152,224.40 for CCTV and cleaning work in advance of paving operations. The SMD also contracted One Vac, LLC for additional stormwater services totaling $31, 667 during the reporting period. The city's typical procedure is to pump, clean, and video all drainage structures on roads to be paved, and to fix and repair any damage prior to making the paving investment in the roadway. The total linear footage of piping videoed during the reporting period is estimated to be many thousands of feet, and the City maintains paper and electronic records of all piping inspected and televised, which can be made available upon request. The contractor also generates sketches of piping configurations, which are maintained with these records. The Stormwater Management Department communicates data generated from this important fieldwork to the GIS department to maintain the GIS database with the latest and most current information.

The City has prioritized the areas that it inspects with the camera truck based on flooding issues, complaints about collapsing areas, and complaints about illicit discharges. See Section 4.5

for further discussion on the progress of identifying illegal connections in the IDDE program.

Catch basin inspections also include inspecting the condition of catch basin "bells." Some City catch basins have bells (metal 90-degree bends covering catch basin outlets) to control floatables. Bells are hung on pins set in the side of catch basins. The City continues to install bells on additional catch basins in parts of its MS4 where trash and floatables are a problem. During the Reporting Period, City staff installed bell traps in 21 catch basins.

The city currently maintains a fleet of four vacuum trucks, Unit #260, Unit # 262, Unit #263, and Unit #264. The newest vacuum truck was delivered in July 2023. The cost of the new truck, Unit #260, was $575,000.

The Road Maintenance Division has acquired funding in an Environmental Compliance Capital account to make improvements to MS4 piping when property owners cannot, or will not, make repairs in the timeframe provided in the permit.

4.3.5.2a FEMA Disaster Declaration

The City of Stamford received widespread flooding and damage after the remnants of Hurricane Ida moved through the area on 9/1/2021. The amount of stormwater produced from this incident led the Federal Emergency Management Agency (FEMA) to declare a state of emergency for the City. The agency sent out its Disaster Survivor Assistance (DSA) team for door-to-door outreach in the area.

The DSA visited over 1,100 homes and recorded the flooding impacts residents faced from the storm. This storm produced 8.5 inches of rain in the city of Stamford, causing damage to other MS4 infrastructure and roadways, which were repaired by other departments (i.e., culvert and MH damage at Cummings Park). This was coordinated and repaired by a private contractor as directed by Parks / Facilities Dept. Other MS4 infrastructure was also assessed and repaired by the Engineering Bureau. Farms Road was under construction at the time of the storm, and the Engineering Bureau worked with the utility company to rebuild and restore the roadway.

The Engineering Bureau continues to be involved in oversight of restoration of a stormwater culvert at 1260 Hope St. that was damaged during the 9/1/21 and needs to be entirely rebuilt. As of 1/15/26, the culvert is not yet repaired. It is expected to be in excess of $1M to repair. The Engineering Bureau continues to seek new easement(s) for possible pipe alignment improvements.

The repair and restoration work coordinated by the SMD after the Ida event was significant was detailed in Appendix K as submitted in the 2021-2022 annual report. Most of these repairs were completed by the end of the 2021-22 Reporting Period.

On August 18, 2024, parts of Fairfield County received 12" of rainfall. Governor Lamont declared

a major disaster for the State of CT for this event. The Rippowam River, Toilsome Brook, and other tributaries flooded. Stamford Fire Department reported 10 disabled cars and received 43 water related calls on that date. Because of this weather event, the SMD continued efforts of cleaning, inspecting, and performing as needed maintenance of the MS4 system. Although no city roads or stormwater infrastructure during this storm, many private properties were damaged. Currently, there are four flooding based initiatives underway; Toilsome Brook Resiliency, Cummings Park Resiliency, Coastal Resiliency Plan, and the Citywide Drainage Assessment, which has identified 53 flood prone areas to receive further assessment.

4.3.5.3 Roadway Maintenance

Roadway maintenance activities can directly affect water quality. An important task of roadway maintenance is keeping the highway drainage system functioning. The City is dedicated to ensuring that routine road maintenance is conducted frequently and that roadside ditches are cleaned and inspected periodically to verify that flow is not being restricted. After the inspection the SMD reviews CCTV work and prepares construction sketches to any necessary work in advance of paving.

Beginning in 2016, the Road Maintenance Department is overseeing the City's paving program. The SMD reviews and directs repair and restoration efforts on these roads. During the reporting period 20 roads were paved. From 1/1/2025 to 12/31/2025, 32 roads were paved from the paving list and 28 roads coordinated from utility company restoration work with 9.84 miles paved. See Appendix M for work during this Reporting Period.

4.3.5.4 Sweeping

Properly swept streets are a key element to limiting stormwater impacts as sediment and debris can transport other pollutants into the stormwater system and because copious quantities of these materials can inhibit the proper function of MS4 components. During the 2024-25 Reporting Period, the City of Stamford Road Maintenance sweeper crew collected, hauled, and disposed of 954.92 tons of street material. That is equal to 1,909,840 pounds of road debris (i.e., sand, gravel, dirt, leaves, trash, etc.). The reporting total is 60.92 tons more than the reported total of 894 tons from the 2023-24 reporting year. The sweepers were able to operate during the warm weather during the 2024-25 winter, with only sixteen winter weather events. Four vac trucks and two Stetco trucks were utilized during this reporting period. Six sweepers were used during the reporting period. There are 315 centerline miles of paved roadway in the City of Stamford.

The reported total above does not include any sweepings collected as a part of the leaf pick up program which ran from 11/13/24 – 12/19/24. During the leaf pick up program, the sweepers unload onto highways trucks in the field and do not go over the inbound scales at the Harbor View Ave. Transfer Station or the scale at Scofieldtown Yard. Outbound MSW hauling trucks capture total leaf weights, which are included and reported in the leaf pick up section of this

report.

During the Reporting Period, the City's fleet of sweepers completed a total sweeper mileage of 6,234 miles swept. The majority of the reported mileage is active sweeping with a small portion of the distance being travel to and from sweeping locations. There are 630 curb miles of maintained roads in the City. This data indicates that on average, each curb mile was swept approximately 9 times during the Reporting Period.

Sidewalk and curbside sweeping are performed weekly in the Downtown Special Services District (DSSD). This work is coordinated and paid for by the DSSD. Weights and mileage during the reporting period are presently unavailable.

The NPDES Permit requires the City to implement a street sweeping program to remove snow, sediment, and debris from all city owned streets and parking lots. One goal is to compress the spring sweeping schedule between March 1st and June 30th to maximize the quantity of material collected at the end of the winter season.

The City has been implementing a "Post & Tow" policy where they will be posting sweeping dates and times and subsequently towing away any cars that are parked in the areas posted for sweeping events. This system helps the City to effectively sweep in the areas posted instead of having to sweep around parked cars, missing large areas of the road. The City understands the importance of sweeping completely to the curb line or edge of pavement.

Six sweepers are operated by the city of Stamford. The City retained Global sweepers unit #'s 251, 252, and 253 that were purchased in the 2022-23 Reporting Period using ARP Funding. The City Elgin Pelican Sweeper #150, which was purchased with grant funding in 2015. The city made repeated requests for the purchase of additional sweeper units. A funding source was determined and one Elgin Pelican Sweeper was delivered on 5/17/24. This became unit #151. Training on this machine was conducted 6/13/24 by the vendor.

During the 2024-25 reporting year, the sixth (6th) sweeper was delivered to City Garage on 7/23/2024. This became unit #152. As of January 28, 2026, the Road Maintenance Department is maintaining a fleet of six sweepers, which consists of three Global M3 units and three Elgin Pelican units. Since the creation of the SMD in 2013, the Road Maintenance Dept. has never had six sweeping units. Extra manpower has been allocated to the early morning sweeping crew, with the intent of operating 3 to 4 sweeping units and 2 dump trucks to collect the street sweepings. These duties are assigned to seven heavy equipment operators.

During the reporting period on July 7, 2024, Sweeper #150 ruptured a hydraulic hose at 614 Shippan Avenue. 25 gallons were reported as released which was contained on the roadway.

4.3.5.5 Leaf Collection

In 2024, the City's leaf pickup program was substantially completed on December 31, 2024. Every street in the City is swept as a part of this program. A total of 17,981 tons of leaves were collected and hauled for composting. That is equal to 35,962,000 lbs. of leaves and is 12% more and 1,931 tons more than the 2023 period.

According to the NPDES Permit, the City shall conduct a city-wide leaf pickup program annually to be completed by December 15th. There were numerous delay because of poor weather, with heavy rain, snow and wind, where leaf collection efforts were unable to occur. The program would have been complete by 12/15/24 if not for the weather delays. The City has established a procedure that breaks the City of Stamford down into three areas (see Appendix L of the SMP for a map of the leaf collection areas):

- Area #1 - north of the Merritt Parkway
- Area #2 - between Merritt Parkway and I-95
- Area #3 - south of I-95

Leaf pick-up typically begins the first business day after Veterans Day in November. The exact completion date depends on weather conditions and competing demands (snow removal and road salting for staff and equipment). Crews work south, and the program is complete when crews reach Long Island Sound. Outreach materials direct the residents to have their leaves placed curbside, before the scheduled start date for each of the three areas. The first snowfall occurred on November 22, which was during the leaf collection period. It is important to note that the City finishes leaf pick-up even after snow fall. This process takes approximately four weeks of full-time work for all available road maintenance crews. About 30 additional seasonal workers were hired to assist with the leaf program. The seasonal workers included CDL drivers and seasonal laborers, who worked with rakes and backpack blowers to temporarily move leaves onto the roadway where they could be captured by pusher trucks (with leaf plows), then pushed into piles and loaded onto trucks for transport to the Transfer Station yard.

The current leaf disposal policy is that the leaves will be piled at the curb prior to pick-up and off the streets. During the reporting period, 22,083 post card mailers were sent to all single-family dwellings in the city, 1,008 home improvement contractors registered with the State of CT Department of Consumer Protection, and a handful of property management companies located in Stamford which represent the vast majority of condominium complexes. 250 additional flyers were printed encouraging mulching of leaves. The flyers were handed out at the Scale House at the Transfer Station and at Government Center. Print ads were placed in the Stamford Advocate newspaper and ran three times. The banner ads ran on the Stamford Advocate website and linked residents to the Stamford/Leaves website.

The SMD ordered 500 yellow and 500 red door hangers for the 2024 leaf pickup program. As in previous years, the yellow door hangers are for leaves placed in the street before the program begins and the red door hangers are for leaves placed in the street after the program has moved through the particular area. Both the red and yellow door hangers are double side printed, with

one side in English and the other side in Spanish. In addition to the citation officers in the SMD, the City citation officer(s) have assisted in leaf compliance efforts during the 2024 leaf pick up season. Hundreds of door hangers were placed on non-compliant properties. Each door hanger is considered a notice of violation (NOV).

During the 2024-25 reporting year, the Board of Representatives approved an ordinance prohibiting gas powered landscaping equipment including leaf blowers, lawn mowers, and chainsaws. The ordinance also applies to City of Stamford staff. Per the ordinance, the City is given a few years to make the transition to electric only landscaping equipment. Significant expenses related to this transition will be subject to review to various boards.

4.3.5.6 Snow Removal

Timely snow removal and the appropriate application of de-icing materials is another key element to a successful SMP. The City follows the DEEP's Best Management Practices (BMPs) for Disposal of Snow Accumulation from Roadways and Parking Lot. A copy of this BMP is presented in Appendix K of the SMP. The purpose of the BMPs is to prevent accumulation of sand, other solids, and pollutants in the MS4 and in sensitive areas, such as streams and wetlands.

The NPDES Permit requires that the City implement and refine its SOPs, regarding its snow and ice control operations, to minimize the discharge of pollutants. No new SOPs to snow removal were introduced during the 2024-25 reporting period. Goals must be established for the optimization of chemical application rates through the use of automated equipment including zero velocity spreaders, anti-icing and pre-wetting techniques, implementation of pavement management systems, and alternate chemicals.

The City is already well on its way to meeting these goals. The Highway Crew is equipped to perform anti-icing using liquid calcium chloride (brine) to pre-treat city streets with the highest traffic volume. Once the storm begins, patrols are sent throughout the City to monitor road conditions. Hills and intersections are spot treated to minimize chemical usage. The City tracks chemical usage; however, given the variability in the amount of snow and ice that needs to be treated each year, it is difficult to set goals for chemical optimization. The brine system was not put into use during the reporting period as many weather events started as rain changed to snow eliminating the use of brine. As noted in Section 4.3.3.5, the City intends to expand its use of brine trucks for pre-treatment in the future, which will help reduce road salt usage.

The City continues to minimize its use of de-icing materials. This goal is being pursued in part to respond to shortages of de-icing materials in recent years. Salt is generally applied only twice for each storm – once at the beginning to prevent ice from binding and once at the end to prevent re-freezing. The regulatory compliance and administrative officer have been enforcing illegal discharges of private basement sump pumps into the right-of-way, rather than simply treating these areas with removal of additional de-icing materials.

The City recorded a total of 24.10 inches of snowfall during the winter of 24/25. This was much more significant than the winter of 23/24, which consisted of only five (5) snow events totaling 17.6 inches. The brine trucks were not utilized during the winter of 2024-25 reporting period.

During the Reporting Period, the Regulatory Compliance Administrative Officer continued to work with the Vehicle Maintenance Department regarding the establishment of a pilot program to introduce automated spreader control to minimize salt application and meet permit goals. Eight new Freightliner plow trucks were ordered in 2024. The eight new trucks have been in use during the 2025-26 winter. All the new plow trucks are equipped with automated spreader control. Retrofitting plow trucks currently in the fleet is cost prohibitive. All new trucks ordered going forward will be equipped with automated spreader control until all trucks without it are phased out.

During this Reporting Period, the City compiled a list of Special Hazard Areas which were more prone to icing conditions due to a variety of factors including high groundwater table, improper roadway design, blocked catch basins, sump pumps from residential properties, and other factors were updated on December 22, 2023. These areas were checked and treated by City staff whenever temperatures dropped below freezing levels. The primary areas of concern are north of the Merritt Parkway, the Long Ridge Road area, and the High Ridge Road area.

Numerous roads and areas were removed from the list because of the efforts of the SMD. These efforts include but are not limited to: roadway regrading and reprofiling as a part of paving work, adding additional drainage structures, constructing curtain drains to dewater roadway subbase, enforcement actions directed toward private property owners to abate discharges of water to roadway as per Sec. 214-9, and construction and repair of curbing to direct and convey storm flow. All these measures improve the performance of the roadways, improve roadway safety, increase the service life of the pavement, reduce manpower costs related to snow and ice treatment, and decrease the amount of salt used to treat the roadways.

During this Reporting Period, five catch basins at West Beach parking lot were prepared from November through April with haybales, catch basin filter fabric, etc. in the event that additional snow stockpiling was necessary. This space was not utilized for snow piling during the 2024-25 reporting period.

4.3.5.7 Catch Basin Cleaning

Clogged or full catch basins can lead to negative stormwater quality outcomes. Catch basin sumps provide a first line of defense in improving stormwater quality. Maintenance and cleaning activities are important to the proper operation of each catch basin.

For the 2024-25 Reporting Period, 1,868 catch basins throughout the city were inspected and cleaned, approximately 19% of the total number of catch basins, which is 9,947 as of

11/19/2025. This is about about one thousand fewer catch basins inspected and cleaned than the 2023-2024 reporting period. Approximately 2,371 tons of materials were removed from the basins during the Reporting Period. This equates to 4,742,000 pounds of waste that was captured and processed and did not enter the City's waterways, streams, rivers, or Long Island Sound. These numbers do not include drainage structures pumped and cleaned by the City's supplementary drainage contractor (One Vac., LLC), for roads to be paved. This is the highest total of removed debris from the MS4 since records have been kept.

The City continues to maintain a catch basin inspection, cleaning, and repair program. This program helps to identify and map each MS4 catch basin and determine flow direction, inspect its condition, determine the amount of sediment in each, clean catch basins with less than 50% of their sump capacity available, gather information over time on sediment accumulation rates, and develop a routine maintenance and cleaning schedule as prescribed by the NPDES Permit.

To support this program, the City has obtained or purchased the following equipment:

- Three Vactor vacuum trucks purchased between 2014 and 2015. New Vacuum truck delivered to SMD on 7/19/2023. A Total of four vacuum trucks are in use by SMD.
- Three Elgin Pelican sweeper and three global M3 sweepers purchased with ARP funds.
- Rapid View CCTV truck w/ Pipe Logix software – purchased in 2015. CCTV truck has three cameras and a manhole/ stick camera.
- Two one-ton dump trucks with Stetco hydraulic cranes – purchased in 2016
- Caterpillar mini-excavator – purchased in 2014 and used for culvert cleaning work.
- Caterpillar loader / backhoe – purchased around 2010 and used for culvert cleaning work.
- (~10) One-ton dump trucks used for typical highway department work.
- (~25) Large dump trucks – used as necessary for haul away of sediment per culvert cleaning work.
- Utility truck with a crane and lift gate to assist with catch basin replacement, manhole replacement, stormwater drain medallion installation, curb back bolts, water barrier installation, and spill response.
- High pressure jet nozzles to move heavy debris build ups in large piping. This new unit spent significant time during the 2023-24 reporting period working in conjunction with the camera truck (unit #265) to conduct high pressure jet cleaning of MS4 main piping.
- For 2024, Stamford had listed 40 ultility coordination projects. Thirty locations were listed as having a minimal drainage scope. Ten locations that were also listed on the City paving list were receiving full drainage scope.

As of 7/1/2024, the SMD had eight heavy equipment operators to support the program for stormwater management and compliance activities. See Appendix N for reference.

Additionally, the City continues to use a software tracking program and iPads to track catch

basin inspections, cleaning, and repair progress. The MS4 Front software was brought on-line in October 2014 and has proven to be a valuable assessment tool.

4.3.5.8 Culvert Cleaning

During the 2024-25 reporting period, the City performed maintenance activities at 33 culverts over approximately 23 days to complete. Various maintenance activities were conducted at the culverts including, but not limited to cleaning out culvert, removing debris and vegetation from around the culvert, CCTV inspections, high pressure jetting and cleaning of piping, and excavating culvert discharge area. During the Reporting Period, over 100 cubic yards of sediment, brush, and debris were removed from the culverts and drainage channels. A list of 2024-25 culverts cleaned is attached as Appendix I.

4.3.5.9 Detention and Retention Ponds

Detention and retention ponds that become overloaded with sediment deposition can negatively impact stormwater quality in the City's MS4. MS4 Ponds are required to be cleaned out when solids levels reach 50% of design capacity.

A list of detention and retention basins was developed, and the City is maintaining an inspection schedule. To date, 77 basins have been identified, and the City continues its efforts to inspect the basins identified. The amount of basins remained the same during the 2024-25 period. The detention and retention basins are mapped with GIS. The City is evaluating utilizing outside contractors to assist with inspections and any follow-up work that may be needed as resources and funding allow.

4.3.5.10 Interconnected MS4s

Connections of other MS4s to the City's MS4 can affect the performance of the City's stormwater system and the quality of its discharges. There are no known interagency agreements between any other municipalities, institutions, or agencies and the City of Stamford. However, it appears that the following municipalities and agencies may be contributing stormwater to the City of Stamford's MS4:

- State of Connecticut (CTDOT)
- Town of New Canaan, CT
- Town of Darien, CT
- Town of Greenwich, CT
- Town of Pound Ridge, NY

The Connecticut Department of Transportation (CTDOT) operates several roadways within the City, including Interstate 95; the Merritt Parkway (Route 15); Long Ridge Road (Route 137); High Ridge Road (Route 104); and Route 1. The City's MS4 flows into CTDOT's MS4 in some locations

and CTDOT's MS4 flows into the City's MS4 at other locations. The City communicates with CTDOT as needed, primarily when the City receives complaints of clogged CTDOT storm drains.

There has not been a comprehensive review of interconnected MS4 data since the Citywide spill plan was developed in 2016. As financial resources allow, the SMD determined there may be value in updating the 2016 Citywide spill plan during the 2025-26 Reporting Period. There have been many staff and leadership changes within the Stamford Fire Department. Coordinating the current understanding of the interconnected system with new personnel could be beneficial. An update will be provided in 2025-26 report. SMD had a conference call with the Land Use Bureau/GIS Department on February 19, 2025. The GIS Department will be adding additional data to be sorted by interconnections and will locate the closest MS4 location in Stamford. Additional coordination will occur during the 2025-26 reporting period. A map of the interconnected MS4 areas is provided in Appendix C of the Spill Prevention Response Plan. Currently, there are no interagency agreements established. The City of Stamford will correspond with neighboring municipalities to refer maintenance items on an as-needed basis.

4.3.5.11 Referrals

During the Reporting Period, the Stormwater Management Department provided referrals to other City departments and organizations for maintenance and repairs. These referrals are outlined below:

<u>City of Stamford Highway Department</u>

- Over 25 referrals were provided to the City's Highway Department for items including bituminous asphaltic concrete work to patch potholes, sawcut and patch pavement at sinkholes, establish new curbing and leak off areas to control stormwater, sawcut and restore paved roadways such that they slope to drain, eliminate puddling and ponding on roadways and sidewalks, construct new driveway apron and associated curbing work, and general sidewalk work.

<u>City of Stamford Engineering Bureau</u>

- At least nineteen referrals were provided and coordinated with the City's Engineering Bureau for items including: damaged streetlights in the ROW, failing pavement from utility work, bridge work and obstructions at bridges, unpermitted impervious paving issues, flooding issues which require design of new drainage structures and easements, and piping configuration and performance observations by SMD.
- The Engineering Bureau worked on design and construction of the following areas during the Reporting Period: Vicinity of 1260 Hope St. (easement procurement), Briarwood Lane (easement procurement), Bellmere Ave. and DeLeo Drive (design proposal received), Hamilton Ave./Brookside Dr. (requisition has been made for design work), Ogden Rd. (meeting with contractor onsite), 684 Long Ridge Rd. EMS facility (working with EMS; this area is also being used as construction access for Westhill HS renovations), 17 Arthur Place Fire Station (road paved and new catch basin added to

eliminate ponding), 32 Mead St. (Possible culvert collapse – engineering review), and Marian and Underhill St. (retaining wall analysis).

- The Engineering Bureau also coordinated the RFP and scoping work for the Citywide Drainage Assessment project. This included identification of specific areas for targeted work. As of 1/25/2026, the contract has been awarded with 53 areas of concern identified. GIS mapping and initial assessments have been performed with the City recently reviewing a priority ranking system.

Environmental Planning Board (EPB)

- At least three referrals were provided to the EPB for items regarding site work and no erosion controls with sediment washing onto a road, site work on a private road, and demolition and site work related to a commercial building and residential housing project.

Traffic, Transportation, and Parking Dept (TT&P)

- 5 referrals were provided to the TT&P for items regarding sinkholes/drainage and paving issues at the Glenbrook train station parking lot, grant work to construct new sidewalks for Dannell Dr. and Roxbury Rd. areas, broken trench drain (part of TT&P recent streetscape improvement work) on lower Summer St. and coordination with CDOT as part of the Wilson St. bridge project to elevate the existing bridge deck and subsequent grading revision.

Building and Zoning Dept./Legal Department

- Two referrals were provided to the Building and Zoning Departments for items regarding areas of review and responsibility. The legal department was also contacted regarding occupancy of structures.

Referrals Provided to the CTDOT

- Three referrals were provided to Connecticut Department of Transportation (CTDOT) for items regarding: a grate welded to a catch basin frame under Metro North Railroad train bridge at US Route 1, damaged storm manholes on state highway, and blocked/ obstructed catch basin grate on state highway causing flooding and ponding on road with higher speed. SMD made these referrals to CTDOT with the intent that the necessary measures were completed to effectively reduce harmful effects.

Curbing Referrals

- The Road Maintenance Department handles curbing requests and estimates at least 150 were received during the 2024-25 Reporting Period. As of 1/27/2026, there are 130 open requests for curbing / curb repair. The city estimates the average curbing repair is between 20 and 40 feet in length, and the city also estimates that over one mile of curbing has been replaced/repaired by the Road Maintenance Dept. during the reporting year. Curbing condition, location, and placement is also reviewed and adjusted as necessary by the SMD when catch basins are repaired and when any road is reclaimed or repaved. Direction is provided to contractors as necessary.

Other Referrals

- Referrals to Aquarion Water Co.: 11 referrals regarding leaking or missing valve covers, water main breaks, sinkholes and pavement settling, status of Aquarion contractor construction work, and condition of roadway after saw cutting.
- Referrals made to Eversource during the reporting period: 7 referrals made regarding failing and hazardous utility trenches in roads, loud and loose electrical vault and utility covers, and a fallen utility poles blocking a sidewalk.
- Referrals from The Stamford Water Pollution Control Authority (WPCA): Seven WPCA permit exceedances and a smoke testing notification. The SMD maintains records of these which are organized by the reporting year.
- Referrals made to WPCA: 40 referrals made regarding issues with loud or damaged WPCA manhole frames and covers. The SMD reviews the manholes of the WPCA manholes before paving and makes suggestions for replacement to the WPCA as needed. Other items referred to WPCA include: damaged or paved over manholes, infiltration of water/groundwater, sanitary lateral work, pavement setting, plan review, sanitary system overflows impacting the MS4 system, and operation of stormwater pump stations. The SMD maintains records of this information. SMD also investigates service requests submitted through the Fix-It reporting system for complaints about loud or damaged manholes.
- Referrals made to Parks Department/Tree Warden: 18 referrals made regarding requests to prune or remove trees and vegetation to provide access to drainage structures, and use of grapple truck to remove debris collected at bridges. After trees and brush are cleared by Parks/Trees, the SMD prepares additional work orders and sends resources (typically vac truck) back to complete cleaning and stormwater work as necessary.

4.4 Monitoring Program

In addition to the screening and monitoring activities associated with the IDDE Program (see Section 4.5), the NPDES Permit calls for stormwater outfall monitoring throughout the life of the permit.

As prescribed in the modified NPDES Permit, the City is no longer required to conduct in-stream samples.

Fairfield County utilizes Harbor Watch to address pollution threats to Long Island Sound. From May through September 2025, the monitoring team studied 19 waterways comprising 108 unique sampling locations. Each location was monitored a minimum of 8 times. Testing was conducted between May and September. E. col (enterococci) and coliform contaminates are tested for and recorded by Harbor Watch. Harbor Watch also produced a Fairfield County River Report which provided valuable information about the water quality data for the Rippowam and Norton Rivers during both wet and dry sampling events which occurred during the Spring/Summer/Fall of 2024-25. Summary tables of the analytical data for these screening and sampling efforts are presented in Appendix O.

4.4.1 Dry Weather Outfall Screening for Illicit Discharges

Barton and Loguidice (B&L) personnel conducted dry weather outfall screening on May 21, 2025, June 13, 2025, and June 26, 2025 during the 24-25 Reporting period. 36 known dry weather outfalls were sampled. Summary tables of the analytical data for the dry weather outfall monitoring done previously are presented in Appendix J.

4.4.2 Wet Weather Outfall Monitoring

Wet weather outfall monitoring was conducted by B&L personnel and on May 22, 2025 in the 2024-25 reporting period. Sampled were collected at six known wet weather outfalls during this reporting period. To date, 114 of the 191 known wet weather outfalls were sampled.

See Appendix P for the latest wet weather sampling results.

4.5 Illicit Discharge Detection and Elimination (IDDE) Program

IDDE will lessen the number of pollutants discharging to local water bodies. Some people unknowingly dump pollutants into the storm drain or have illegal connections to the drainage system. The permit requires inspection of outfalls during dry weather conditions to determine whether illicit discharges are suspected and then to conduct extensive evaluation and follow-up to eliminate the illicit discharges that are found.

Additionally, City personnel continue to follow-up on known or suspected illicit discharges as well as any complaints associated with potential illicit discharges through calls to Road Maintenance Division or reported via the City's stormwater management website.

4.5.1 Instream Sampling for Illicit Discharges

Harbor Watch/Earthplace conducted sampling in the Noroton and Rippowam Rivers during the 2024-25 Reporting Period. Eight locations at the Noroton River were sampled during the reporting period, between 7/1/2024 and 6/17/2025. Six locations at the Rippowam River were sampled during the reporting period from 7/10/2024 to 6/25/2025. See Appendix O for sampling results.

4.5.2 Illicit Discharge Investigations

Additionally, during the Reporting Period, the City continued to utilize Harbor Watch/ Earthplace to assist efforts related to illicit discharge detection and source identification. Harbor Watch was directed to go into the field to gather and analyze samples during wet and dry weather conditions in an effort

to quickly ascertain and isolate suspected illicit discharges in the interest of public health, safety, and welfare. When there is a discharge of suspected contamination or pollutants in stormwater, efforts to inspect and identify are time sensitive. In the interest of promptness, these efforts are sometimes directed regardless of precipitation events. In some cases, multiple samples are collected at the same location over an extended period in an effort to build a more comprehensive data set and gain a better understanding of how precipitation events can impact a discharge. A good example of this occurred in early 2019 when a failing septic field was found to be leaking onto the roadway and ultimately into downgradient catch basins.

In the Reporting Period, Harbor Watch screened 9 locations and collected 6 samples in the area of Burwood Avenue on February 18, 2025. On April 2, 2025, Harbor Watch attempted resampling at eight locations on Cove Road west of Frederick Street, these locations were dry or had stagnant water. Results from these samples can be found in Appendix K.

4.5.3 Illegal Connections

As a result of the IDDE program the City has identified multiple areas of concern, which will receive further investigation. During the Reporting Period, two areas were investigated in conjunction with IDDE efforts. There were no illegal connections that were removed during the Reporting Period. Additional information on the areas investigated is below.

- City of Stamford personnel observed sewage-like odors near catch basins and sanitary sewer overflow erupting from under pavement near Silver Street and Burwood Avenue. The SMD sent a referral to the WPCA who assigned a contractor to excavate and repair/replace a portion of sanitary piping. IDDE followup work was requested to ensure that there were no further impacts. Harbor Watch conducted sampling at several locations in this area on February 18, 2025. Data indicated there is no obvious source of pollution affecting the MS4 system. Harbor Watch reported elevated *E.coli* concentrations in one manhole but stated this could be attributed to lack of flow as other locations produced lower bacteria concentrations.
- Harbor Watch attempted to resample 8 locations on April 2, 2025 at MH-9681 area on Cove Road west of Frederick Street at the request of the Stamford Regulatory Compliance and Administrative Officer based on results from 2023. All eight locations visited in this area were observed to be dry or possess stagnant water. No samples were collected. Per these findings, Harbor Watch stated that no follow-up is required unless the City of Stamford wants to pursue further sample collection attempts. The data suggests

4.6 Legal Authority

In 2015, the Board of Representatives approved Section 201 (Regulation of MS4), to the City code of ordinances as related to the NPDES Permit. The legal authorities established the following:

- The authority to administer the stormwater management program and all elements of the SMP.
- The authority to control the contribution of pollutants to the MS4 by permittees registered under the DEEP's General Permit for the Discharge of Stormwater Associated with Industrial Activity; by other commercial, industrial, municipal, institutional, or other facilities; and from any site that may affect water quality to the MS4.
- The authority to establish ordinances, bylaws, regulations, or other mechanisms to require developers and construction site operators to maintain consistency with the Guidelines for Soil Erosion and Sedimentation Control, the Connecticut Stormwater Quality Manual, and all CTDEEP-stormwater discharge permits issued with the City of Stamford.
- The authority to identify existing regulations that may represent barriers to low impact development (LID) practices to minimize the quantity of impervious cover.
- The authority to perform inspections, surveillance, and monitoring related to the MS4.
- The authority to establish ordinances, bylaws, regulations, or other mechanisms to ensure a developer's or construction site operator's proposed use of LID practices by right or exception.
- The authority to revise regulations to eliminate or reduce potential barriers to LID.
- The authority to perform adequate inspection and maintenance activities to optimize the performance and pollutant removal efficiency of privately-owned retention or detention ponds that discharge to or receive discharge from the City's MS4.
- The authority to control through interagency or inter-jurisdictional agreement, the contribution of pollutants between the City's MS4 and MS4 owned or operated by others.
- The authority to prohibit by statute, ordinance, rules and regulations, permit, easement, contract, or any other means, illicit discharges to its MS4; to require the removal of these discharges; and to assess fines, penalties or cost recoupment for violations.
- The authority to control by statute, ordinance, rules and regulations, permit, easement, contract, or any other means, the discharge of spills into its MS4; to prohibit the dumping and disposal of materials into its MS4; and to assess fines, penalties or cost recoupment for violations.

The schedule for establishment of these legal authorities is documented in the NPDES Permit. On March 20, 2015, a final MS4 Ordinance, Ordinance 1153, adding Chapter 201 to the City Charter, became effective. Section 15 of the Zoning Regulations became effective June 2, 2020, and the City's first ever Drainage Manual became effective 6/10/20. The SMP will be updated accordingly to reflect the newly established authorities. No updates were made during the Reporting Period to legal authority. Tyler Theder and Michael Estremera remained citation officers through the duration of the 2024-25 reporting period. In November 2024, the City of Stamford Legal Department determined that according to ordinance 97-10, there is nothing in the ordinance, which indicates there is a term time limit. This ordinance translates that once the

board approves a citation officer, the citation powers do not expire.

Several written and verbal warnings were issued during this Reporting Period as part of the implementation of the City's stormwater ordinance. The warnings issued are listed below:

4.6.1 Written Warnings

During the Reporting Period, 24 Notices of Violation (NOV) written warnings were sent to property owners in reference to stormwater compliance issues enforceable by the SMD. The nature of the violations generally pertain to discharge of water to roadway contributing pollutants to the MS4 system, and obstructions placed in watercourses.

During the 2024 Leaf Pick up program, door hangers were placed on properties whose leaves were not in compliance. Each door hanger is considered an NOV and is an enforcement action. The SMD estimates that a few hundred each of the red and yellow door hangers were used during the program. Refer to section 4.3.5.5 above, for more details on the Leaf Pick up program.

4.6.2 Verbal Warnings

SMD does not have any specific data on verbal warnings given but estimates about ten verbal warnings were issued during the reporting period.

5.0 SUMMARY OF PROPOSED SMP MODIFICATIONS

On August 14, 2017, a permit modification was issued for the City's NPDES Permit. During the 2017- 18 Reporting Period, the City reviewed the permit modification for any new requirements. The City revised the SMP accordingly in August 2020. In August of 2022, Fuss and O'Neill provided a draft of a modified SMP, along with the appendices. SMD met with Fuss and O'Neill to review and discuss the status of the SMP on 2/12/2025. There are only a few remaining items the SMD must collect for inclusion in the report. The SMD is hopeful to continue work on this during the 2025-26 reporting year and finalizing and releasing the SMP. The final version will be placed on the Stormwater Management Dept. website.

6.0 PROGRAM RESOURCES ANALYSIS

6.1 Fiscal Analysis

During this Reporting Period, the City continued to make efforts to secure budget, staffing, and resources necessary to develop and implement the SMP to comply with the NPDES Permit requirements, and to improve the overall quality of stormwater discharging from its MS4. The City is committed to identifying these details and adequately funding them to achieve compliance with the NPDES Permit.

Some line items in the City's Capital and Operating Budgets are obviously related to MS4 stormwater compliance, such as the "Environmental Compliance" and "Stormwater Management". However, there are other line items for infrastructure and other public improvement projects (drainage, catch basin, storm lines, etc.), special projects, and operating expenses that will result in direct improvements to stormwater runoff quality and the quality of discharge from the City's MS4. For example, the closure of the old Scofieldtown Road Landfill is being performed for specific reasons but should have the added benefit of improving stormwater quality in these areas of the City.

There are also budget line items for vehicle, equipment, and information technology upgrades throughout the City which include Departments with responsibility for stormwater quality improvements and implementation of the SMP.

Operating Budget

The Road Maintenance Division had an overall adopted operating budget of $8,080,033 for FY 24-25. This represents a decrease of $4,304 from the FY 23-24 adopted budget and did not represent any significant reduction in functionality or services.

The Stormwater Management Department had an adopted operating budget of $1,778, 288 for FY 24-25. This represents an increase of $55,526 from the FY 23-24 adopted budget and generally reflects contractual wage increases for SMD staff.

The Snow Removal account had an adopted operating budget of $1,196,838 for FY 24-25. This represents a decrease of $250,000 from the FY 23-24 adopted budget.

The Leaf Collection account had an adopted operating budget of $375,245 for FY 24-25. This represents no net change in funding from the FY 23-24 adopted budget.

The Road Maintenance Department has an adopted operating budget of $4,729,662 for FY 24-25. This represents an increase of $190,170 from the FY 23-24 adopted budget and covered minor increases in supplies and contractually obligated wage increases for staff salaries.

Capital Budget

Operations: Engineering

Capital project C16012, Citywide Storm Drains. Project is for installation and replacement of storm drains, catch basins, and curbs. In FY 21/22, Engineering Bureau requested $3,250,000 and $1,000,000 was adopted. In FY 22/23, Engineering Bureau requested $2,000,000 and $2,000,000 was adopted and funding source was identified as American Rescue Plan (ARP). In FY 23/24, Engineering Bureau requested $0. As of 8/25/23, the account showed an available balance of

$214,786 and an unfunded balance of $4,000,000. As of 6/6/2024, the amount available was $3,071,608. Comments indicate the balance used to fund drainage projects at: Newfield Ct., Pheasant Ln, Halliwell Dr., Tod Ln, Wire Mill Rd., and Hamilton Ave. As of 5/7/2025, the amount available was $282, 952. The comments note the outyear request is a placeholder and depend on the outcome of the drainage study (a project funded under capital account CP3154).

Capital project 001245, Citywide Drainage Study. This project appears in the 22-23 capital budget under "Operations: Engineering", with a funded balance of $500,000. This item does not appear in the 23-24 capital budget as there was no request for additional funding. This item does not appear in the 2024-25 capital budget. Funding source was identified as the American Rescue Plan (ARP). As of 1/27/26, a consultant team has been selected, the contract has been awarded, and work is underway. The SMD, Land Use Bureau, and Engineering Bureau are coordinating work efforts and 53 locations have been identified for further consideration to mitigate flooding impacts. A priority ranking for the sites has been established and requests for future state funding have been prepared and submitted as of 1/15/26. SMD anticipates significant additional work during the 2025-26 reporting year.

Capital Project C56119, Citywide Roadway Correction. Funds are for design and construction work. Project references June Rd./Guinea Rd. intersection, which is located on a steep hill with no curb, and no drainage structures. Road Maintenance paved June Rd. and Guinea Rd. within the past 5 years. No funding requested/approved for this project during the 23-24 reporting year. During the 24-25 capital budget, $100,000 was adopted for this work. During the 25-26 capital budget, a request for $250,000 was made and an amount of $0 was adopted. As of 1/27/26 the available account balance is $126,574.

Capital Project CP2703, Bouton Street Culvert Replacement. Engineering Bureau requested $200,000 in FY 21-22. This amount was adopted. As of 6/30/21, balance in the account is $0. No capital requests were made in FY 22-23, FY 23-24, FY 24-25, or FY 25-26.

Capital Project CP1074, Pine Hill Drainage. Engineering Bureau requested $2,600,000 in FY 22-23. No funding was approved for this in FY 22-23. As of 6/21/22, the account has an available balance of $261,300. No request for funding was made in FY 23-24, FY 24-25, or FY 25-26.

Operations: Traffic and Road Maintenance

Capital Project CP8711, Traffic / Road Paving and Drainage. The funds in this project will allow for full (curb to curb) roadway restoration, in situations where utility road opening work would only partially restore the roadway affected by the utility work. Mayor requested and boards adopted $500,000 for this in FY 23-24. In FY 24-25, the Department request was for $1,000,000 and $500,000 was the adopted amount. In the 2025-26 capital budget, the name of this project was changed to "Utility Paving." The project number of CP8711 remained the same. The project description was modified to allow for full curb to curb restoration of the roadway following any construction on roads with partial utility company repairs. The department request was for

$3,000,000. The adopted amount was $1,500,000. Minor drainage issues are addressed on these roads prior to final paving restoration. Examples include changing catch basin tops, replacing storm manhole frames, repairing sinkholes, and minor pipe repairs as necessary to ensure proper function of the system.

Capital Project C56129, Citywide Manhole and Basin. In FY 22-23, the SMD requested $500,000 and $0 was adopted for this work. In FY 23-24, the SMD requested $1,000,000 for this work and $0 was adopted. In FY 24-25, the SMD again requested $1,000,000 for this work and $0 was adopted. In FY 25-25, this project did not appear in the capital budget book, as no request was made. As of 6/6/2024, the amount available in the Capital project was $2,010,000. During the 24-25 reporting year, the funding for this account was converted to federal dollars from the American Rescue Plan (ARP). In January 2025, the project balance was $1,279,883. The goal is to utilize this funding to make necessary drainage repairs prior to 12/31/2026. This is the primary source of Capital funds used by the SMD to make corrective repairs to all components of the MS4.

Capital Project C56182, Street Patch and Resurfacing. The funds in this project are for roadway milling / paving / reclaiming operations. Funds also include drainage repairs and grading corrections to ensure storm flow slopes to drain. Department request for FY 23-24 was for $10,000,000 and the boards adopted $5,000,000. In fiscal year 2022, the expenditure in this account was $12,194,451. In fiscal year 2023, the expenditure was $13,340,912. In fiscal year 2024, the expenditure was $10,955,692. The SMD estimates a significant percentage of this amount was allocated to drainage and MS4 improvements. The available balance as of 5/7/25 was $3,122,989. A new survey was conducted in 2024, highlighting the top 200 worst roads in the City. In FY 24-25, the department request was for $10,000.000. The adopted amount was $10,220,330.

Operations: Stormwater Management

Capital Project CP0211, Environmental Compliance. FY 22-23 requested $50,000 for capital costs related to MS4 compliance efforts in conjunction with CT0030279. No funding was adopted. In FY 24-25, requested $100,000 for these purposes. No funding was adopted. Available balance as of 8/25/23 was $272,777. No request for funding was made in FY 24-25. In FY 25-26, the SMD requested $100,000. The funding request was not approved. As of 5/7/25, there was $86,618 available. Funding was converted to American Rescue Plan federal dollars in FY 24-25. SMD purchased significant inventory of manhole frames and catch basin grates from Campbell Foundry to be used as replacements for damaged structures in future years.

Operations: Land Use

Capital Project CP1457, Resiliency and Climate Adaptation Implementation. FY 23-24 requested $50,000 and boards adopted this amount. The Land Use Bureau proposes a study of coastal flood

hazard areas that will identify flood risks and opportunities to enhance climate resiliency. The study will develop preliminary design and cost estimates to establish a prioritized list of resiliency projects. A project kickoff meeting and workshop was held at Government Center on 2/18/25. Approximately 100 people attended. No capital request for funding was made during the 24-25 or the 25-26 budget cycle. This important work remains underway during the 24-25 period, and city staff has reviewed three concept alternatives to further explore and take steps to implement during future years.

Capital Project C66322, Citywide Geographic Information Systems. FY 25-26 capital request by Land Use Bureau for $200,000 to update aerial photography and topographic mapping, which has not been updated since 2013. This data is critically important to SMD, and GIS systems are used each and every day by SMD in order to troubleshoot drainage issues and to better understand MS4 piping connectivity, as required by CT0030279. Funding in the amount of $200,000 was adopted for this. A status update and progress on this capital project will be included in future reporting years.

Other Funding Sources

State of Connecticut Nip Bottle Recycling Program. This program places a surcharge on each 50ML container of alcohol sold within each Connecticut town. Checks are then sent to each city or town, and funds are to be used in support of program goals. As reported by State of Connecticut, from 4/1/23 to 9/30/24, Stamford received funds of $42,008.15. The total funding received since the program was established was $156,932.35. As reported in the 2022-23 annual report, the SMD did utilize a portion of this funding to purchase sweeper brooms and catch basin bell traps. SMD did not utilize any portion of this funding during the 24-25 reporting year. Current account balance unavailable to SMD due to variable nature of the revenue source and multiple city departments using funding in support of program goals. Budgetary info available upon request.

Monsanto PCB Settlement Funds. Funds received by the City from class action lawsuit. SMD became involved and suggested possible uses for the funds related to stormwater management goals and objectives. $32,414.03 was received and appropriated by the City Boards on 6/5/2024. Funding is still in place and has not been utilized as of 1/27/26.

The City's Annual Capital and Operating Budgets for 2024-25 are available on the City's website at http://www.stamfordct.gov/, under the Office of Policy and Management Link.

An increase in funding associated with additional staffing discussed in the next section of this Annual Report will also be required in coming fiscal years.

6.2 Staff and Resources

The City transferred responsibility for many of the stormwater management tasks and MS4 permit compliance from the SWPCA to the Road Maintenance Department with the issuance of

the NPDES Permit in June 2013. While evaluating the permit requirements, the Road Maintenance Supervisor and Pollution Prevention Team Coordinator began to assess the staff and resources necessary to achieve and maintain compliance. No responsibility transfers and no new staff were reported during the 2024-25 reporting year.

In the 2024-25 Reporting Year, the SMD had nine heavy equipment operators to complete field work including catch basin investigation, cleaning, and maintenance. These operators are also responsible for assisting with sweeping, snow removal, leaf pickup and other activities designed to improve the quality of stormwater runoff. The SMD also employs an Environmental Enforcement Officer, who started in March 2022, to assist with enforcement and compliance work.

Over the course of the Reporting Period, the Stormwater Department assessed these new staffing levels as the SMP was being implemented and additional schedules and goals are continuously being generated to meet the demands of the City's MS4.

In addition to these individuals, the Road Maintenance Division maintains a work force of thirty skilled operators, laborers, administrative, support, and management personnel that provide many of the direct services outlined in this report, such as: roadway sweeping, leaf pickup, snow removal, infrastructure improvements and maintenance. They are also available to assist with other stormwater management projects, as directed.

Several other City Departments provide personnel to support compliance with the NPDES Permit and implementation of the SMP, including Engineering, Land Use, Planning, Zoning, Environmental Protection, Information Technology (GIS), SWPCA, Solid Waste, Recreation and Leisure Services, Parks, Parking & Transportation, Fleet Maintenance, Legal, and the Fire Department. The Environmental Protection Board has four full-time technical staff (3 Environmental Analysts and an Executive Director). See Appendix F for the Environmental Protection Board Report.

During the next year, implementation of the SMP, the municipal stormwater ordinance, and the changes to the Zoning Regulations, City Departments will be better able to assess the adequacies of their staffing levels with the added MS4 permit compliance requirements. As discussed during the compliance audit conducted by the EPA (see Section 2.3.1) and the City's own assessments, it is anticipated that additional staffing may be necessary in the following areas:

- Information Technology (IT) – There is a substantial amount of stormwater mapping and information management to be set up and managed, particularly during the first several years of the permit. The City needs to finalize the outfall identification mapping, and confirmation process and begin the DCIA analysis. In 2022, the GIS Department grew to a staff of three; however, the SMD may still need outside consultants to work toward MS4 Permit goals. No new IT staff were hired during the reporting period.

- Engineering and Land Use Offices – Additional staff are required to perform technical review of land use permits due to volume and complexity of work. Performing site inspections before permit issuance, during construction, and prior to Certificate of Occupancy are a critical component for compliance. No new

As mentioned in Section 4.3.5.7, the City recently started implementing a software tracking program using field tablets for tracking catch basin inspection, cleaning and repair progress. The MS4 Front software was brought on-line in October 2014.

Additional software and equipment needs will be assessed during the coming year and requested in the City's next fiscal year budget as appropriate.

Appendix A

Definitions

DEFINITIONS

"BMPs" or "Best Management Practices" means either structural or engineered control devices and systems (e.g. retention ponds) to treat polluted stormwater, as well as operational or procedural practices (e.g. minimizing use of chemical fertilizers and pesticides).

"Commissioner" means the commissioner as defined by section 22a-2(b) of the Connecticut General Statutes.

"CTDEEP" or "DEEP" means the Connecticut Department of Energy and Environmental Protection, whose mission is to conserve, improve and protect the air, water and other natural resources and environment of the State of Connecticut while fostering sustainable development.

"DCIA" or "Directly Connected Impervious Area" means that part of the total impervious area that is hydraulically connected to the City of Stamford's MS4. DCIA typically includes streets, sidewalks, driveways, parking lots, and roof tops. DCIA typically does not include isolated impervious areas that are not hydraulically connected to the MS4 or otherwise drain to a pervious area.

"DOT" means the Connecticut Department of Transportation, who is responsible for the development and operation of highways, railroads, mass transit systems, ports and waterways in Connecticut.

"DSSD" means the Downtown Special Services District, a Stamford, CT Business Improvement District, that was established in 1992. Its mission is to manage, enhance and promote the Downtown experience

"EPA" means the United States Environmental Protection Agency, whose mission is to protect human health and the environment.

"EPB" means the City of Stamford's Environmental Protection Board.

"GIS" or "Geographic Information System" is a system designed to capture, store, manipulate, analyze, manage, and present all types of spatial or geographical data.

"HHW" or "Household Hazardous Waste" means post-consumer waste which qualifies as hazardous waste when discarded. It includes household chemicals and other substances for which the owner no longer has a use, such as consumer products sold for home care, personal care, automotive care, pest control and other purposes.

"IDDE" or "Illicit Discharge Detection and Elimination" means a program to detect and eliminate existing illicit discharges and to prevent future illicit discharges.

"IDDP" or "Illicit Discharge Detection Protocol" means a protocol established to identify, prioritize and investigate separate storm sewer catchments for suspected illicit discharges of pollutants.

"Illicit Discharge" means any discharge to the MS4 that is not composed entirely of stormwater, with the exception of discharges authorized by another NPDES Permit, or discharges described in the "Non-Stormwater Discharges" section (Section 4(A)(3)) of the permit.

"Impaired Waters" means those surface waters of the state designated by the Commissioner as impaired pursuant to Section 303(d) of the Clean Water Act and as identified in the most recent State of Connecticut Integrated Water Quality Report.

"LID" or "Low Impact Development" means land planning and engineering design approach to manage stormwater runoff. LID emphasizes conservation and use of on-site natural features to protect water quality.

"MS4"' or "Municipal Separate Storm Sewer System" means a conveyance, or system of conveyances, including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains, which is or are (i) owned or operated by a state, city, town, borough, county, parish, district, association, or other public body (created by or pursuant to state law) having jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes, including special districts under state law such as sewer districts, flood control districts or drainage districts, or similar districts, or an Indian tribe or an authorized Indian tribal organization, or a designated and approved management agency under section 208 of the CWA that discharges to waters of the state; (ii) designed or used for collecting or conveying stormwater; (iii) which is not a combined sewer; and (iv) which is not part of a POTW.

"NOV" or "Notice of Violation" means a notice provided by the CTDEEP informing the permittee that a violation of law has occurred.

"NPDES Permit" or "National Pollutant Discharge Elimination System Permit" means the program authorized by the Clean Water Act which controls water pollution by regulating point sources that discharge pollutants into waters of the United States.

"Outfall" means the discharge point of a waste stream into a body of water.

"PHFs" means pesticides, herbicides and fertilizers.

"Point Source" means any discernible, confined and discrete conveyance (including, but not limited to any pipe, ditch, channel, tunnel, conduit, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft) from which pollutants are or may be discharged.

"POTW" or "*Publicly Owned Treatment Works"* means sewage treatment plants.

"Reporting Period" refers to the period of time that the Annual Report is based on. In this report it pertains to July 1, 2023 through June 30, 2024.

"SMD" or *"Stormwater Management Department"* is responsible for the development and implementation of stormwater management practices to protect the environment and public infrastructure in line with applicable regulatory authorities

"SMP" or "Stormwater Management Plan" sets forth a program to provide for the implementation of specific control measures, stormwater monitoring, illicit discharge detection and elimination, and other appropriate means to control the quality of the authorized discharge.

"SPRP", "SP&R Plan" or "Spill Prevention and Response Plan" means a plan to prevent, contain and respond to spills entering the MS4.

"Stormwater" means waters consisting of rainfall runoff, including snow or ice melt during a rain event, and drainage of such runoff.

"SWPCA" or "Stamford Water Pollution Control Authority" controls the City of Stamford Water Pollution Control Facility, which processes wastewater from the City and the neighboring Town of Darien, and discharges clean water into the East Branch of Stamford Harbor.

Appendix B

Stormwater Management Plan Summary Table

Appendix B is intentionally left blank.

Appendix C

Updated City Outfall Locations Map

City of Stamford Outfalls as of June 30, 2025

Map Key

- Outfalls (990 points)
- Hydrology
- Parks
- I-95 & Merritt Pkwy
- Major Arterials
- All Other Roads
- Railroads

Notes:

Map created by City of Stamford, CT GIS staff for MS4 annual reporting. Questions regarding this map should be directed to the City of Stamford MS4 program.

Map created: 11/2025

Appendix D

2024–25 Spills of Five Gallons or More

City of Stamford MS4 #CT0030279

Spills and Leaks 7/1/24 - 6/30/2025

Date	Address / Location	Material Spilled	Quantity Released	Receiving Stream	Notes
7/7/2024	614 Shippan Ave.	Hydrualic fluid	25 gal.	Long Island Sound	COS sweeper #150 ruptured hydrualic hose. Spill was contained on roadway. Sorbent material applied and site was cleaned and restored.
1/22/2025	WPCA Septic Receiving Station	Sanitary Waste	Unknown	Long Island Sound - East Branch Stamford Harbor	Private contractor offloading sewage at WPCA septic receiving station. Hose disconnected and spillage observed on adjacent paved areas. WPCA staff dispatched to the spill site and cleaned the area.
1/27/2025	595 Summer St.	Mixed	Unknown	Rippowam River	Sprinkler at office building parking area broke and flooded the basement, which had been storing numerous vehicles. SFD, WPCA, SMD and CT DEEP dispatched to the site. Water from basement was pumped and conveyed to adjacent WPCA infrastrucure for treatement at the plant.
2/25/2025	Intersection of Clinton Ave. and Division St.	Mixed	Unknown	Rippowam River	Private garbage company (All American Waste) refuse truck caught fire in roadway. Stamford Fire Dept. responded. Garbage was dumped on roadway. SFD extinguished the fire. CT DEEP was notified and COS Highways also on site.
3/22/2025	Bedford St. refuse and used cooking oil storage area	Used cooking oil	Unknown	Long Island Sound	Used cooking oil/grease from combined storage area overflow/spillage on pavement. Area was professionally cleaned, catch basin pumped and cleaned, and all wash waters recovered and discharged to WPCA. COS Health Dept., COS Highways/SMD, and CT DEEP involved in spill response and discussions of preventative measures.

Appendix E

2024–25 Pesticide, Fertilizer, and Herbicide Use

Sterling Farms Golf Course Nitrogen Totals up to June 30, 2025

	Greens (4 Acres)	Total	Tees (3.5 Acres)	Total	Fairways (23 Acres)	Total	Rough (10 Acres)	Total
Granular	None	None	None	None	None	None	1 LB/N/m	400 LBS N
Liquid	2.3 lbs/N/m		1.5 lbs/N/m		1.5 lbs N/m		n/a	

Nitrogen Application by site For E Gaynor Brennan Golf Course 7/1/2024 - 6/30/2025

Greens 4 Acres 176,000 sq ft

		Total Product		Total N	
28-8-18	soluble		400#		112
				Total GR	112

Tees 2 Acres 88,000 sq ft

Product					
15-0-15	Granular	Total product	1400	Total N	210 lbs
21-22-4	Granular		500#		110
7 7 7	Granular		1000#		70
				Total Tee	390

Fairways 18 Acres

Product					
		Total product			
28-8-18	soluble		1000 #		280
extra Iron	liquid		40 gal		35.6
				Total FWY	315.6

Roughs/Green Banks

Product					
30-0-10	Granular	Total product	1200	TOTAL N	360 lbs
				Total RGH	360
				Total YR	1177.6 lbs

Appendix F

2024–25 Environmental Protection Board Summary Table

Environmental Protection Board

The Land Use Bureau's Environmental Protection Board (EPB) has a range of regulatory responsibilities, including issuing special permits for development activities on properties with inland wetlands and watercourses, and in special flood hazard areas outside the Coastal Management boundary. EPB staff also began the process of reviving the city's Aquifer Protection Program in Fiscal Year 2024-25. The EPB provides technical reviews of the potential environmental impact of subdivisions, coastal and other site plans, variances, special permits, drainage and erosion control plans, utility installations, activities in deeded open space areas, and public points of access to Stamford's waterfront and shoreline. In cooperation with other City departments, EPB staff inspect development projects to ensure conformance with issued permits, approvals, and City standards, and the office acts as the City's designated liaison with State and Federal officials on matters related to wetlands, floodplains, and coastal management.

In FY '24-25, EPB staff reviewed 876 applications for building permits and evaluated 116 formal applications made to the EPB and the other Land Use boards for compliance with EPB-administered regulations. These applications included numerous projects of value and interest to the public, including large private developments and city school replacement and infrastructure improvement projects. During the past fiscal year, EPB staff fielded thousands of phone calls and emails from citizens, professionals, and other individuals with questions about specific projects and properties or general wetland, flood zone, and other environmental issues. Staff participated in the walk-in permit sessions on the 7th floor of the Government Center that were held on a biweekly basis during FY'24-25. EPB staff also provided important administrative support to the other Land Use boards and the Engineering Bureau by processing hundreds of performance bonds and drainage and landscaping maintenance agreements.

In the past fiscal year, EPB staff conducted hundreds of site inspections to assess compliance with issued approvals or investigate reports of unauthorized regulated activities. A number of enforcement actions were formally brought before the Board during FY'24-25 to restore adverse environmental impacts discovered by staff during these site inspections. In an effort to reduce environmental impacts from occurring in the first place, the EPB uses lists of single-family home sales periodically provided by the

Assessor to send informational material to new owners of properties containing wetlands, watercourses, and conservation easement areas. These letters describe the rules which apply to activities in and adjacent to these resources and encourage our new neighbors to contact EPB staff to discuss project they may be considering.

In support of the EPB role as the City's Flood and Erosion Control Board, in early 2025 staff compiled and submitted the annual documentation needed by the Federal Emergency Management Agency for Stamford to maintain its Class 7 standing in the Community Rating System of the National Flood Insurance Program (NFIP). The NFIP rewards Stamford for the reduction in the City's flood risk that results from our consistent adherence to floodplain management standards by giving a 15% premium discount to our flood insurance policy holders. The EPB also conducts annual educational outreach to the public about flood preparedness and provides technical advice to individuals regarding flood proofing measures they might employ to protect their properties.

Appendix G

2024-25 City Staff Training Events Sign-In Sheets

FUSS & O'NEILL

Employee Training
Stormwater Pollution Prevention Plan (SWPPP)
City of Stamford
Date of Training: October 2, 2024

Attendees Sign-In:

	Name Printed	Name Signed	Company / Work Function
1	Bill Klous	Bill Klous	FLEET MGR
2	Geraldo Roldan	Geraldo Roldan	Mechanic
3	Nicola DiPreta	Nicola DiPreta	Mechanic
4	Eric Marrais		Master mechanic
5	Will Chiello		Mechanic
6	STEVEN MEJIA		MECHANIC
7	DOAN FRANCIQUE		MECHANIC
8	Bob Wachus	Bob Wachus	MECH
9	S Gunnell		Fleet
10	Alec Markowski	Alec Markowski	UMF

Training Location: City of Stamford – Highway Department
100 Magee Avenue
Stamford, CT

Resources: General Permit for the Discharge of Stormwater Associated with Industrial Activities
Connecticut General Statures (CGS) Section 22a-430-3b:
Site's Stormwater Pollution Prevention Plan (SWPPP)
SWPPP Training Power Point Presentation (by F&O)

Training Facilitator: Justin Penfield, P.E., Fuss & O'Neill

Justin Penfield, _____, Fuss & O'Neill, Inc
Printed Name Signature

FUSS & O'NEILL

Employee Training
Stormwater Pollution Prevention Plan (SWPPP)
City of Stamford
Date of Training: October 2, 2024

Attendees Sign-In:

	Name Printed	Name Signed	Company / Work Function
1	John Perkins	John Perkins	Fleet Management (Seen)
2	ROBERT KOCZENIAK		UMF
3			Fleet Management
4			
5			
6			
7			
8			
9			
10			

Training Location: City of Stamford – Highway Department
100 Magee Avenue
Stamford, CT

Resources: General Permit for the Discharge of Stormwater Associated with Industrial Activities
Connecticut General Statures (CGS) Section 22a-430-3b:
Site's Stormwater Pollution Prevention Plan (SWPPP)
SWPPP Training Power Point Presentation (by F&O)

Training Facilitator: Justin Penfield, P.E., Fuss & O'Neill

Justin Penfield, _____, Fuss & O'Neill, Inc
Printed Name Signature

FUSS & O'NEILL

Employee Training
Spill Prevention Control and Countermeasure (SPCC) Plan
City of Stamford
Date of Training: October 2, 2024

Attendees Sign-In:

	Name Printed	Name Signed	Company / Work Function
1	Bill Klous	Bill Klous	Fleet Mgr
2	Geraldo Rolon	Geraldo Rolon	Mechanic
3	Nicola DiPietro	Nicola DiPietro	Mechanic
4	Eric Kazzaic		Master Mechanic
5	Will Chelb		Mechanic
6	STEVEN MEJIA		MECHANIC.
7	DOAN FRANCIQUE		MECHANIC
8	S GENARD.		Fleet
9			" "
10	Alec Norkowski	Alec Norkowski	UMF

Training Location: City of Stamford – Highway Department
100 Magee Avenue
Stamford, CT

Resources: US Environmental Protection Agency (EPA) regulations of 40 CFR 112:
Site's Spill Prevention Control and Countermeasures (SPCC) Plan
SPCC Training Power Point Presentation (by F&O)

Training Facilitator: Justin Penfield, P.E., Fuss & O'Neill

Justin Penfield, _____, Fuss & O'Neill, Inc
Printed Name Signature

FUSS & O'NEILL

Employee Training
Spill Prevention Control and Countermeasure (SPCC) Plan
City of Stamford
Date of Training: October 2, 2024

Attendees Sign-In:

	Name Printed	Name Signed	Company / Work Function
1	John Perkins	John Perkins	Fleet Management (Secty)
2	ROBERT KOCZENIAK		VMF
3	Jason Timmerman		Fleet Supervisor
4			
5			
6			
7			
8			
9			
10			

Training Location: City of Stamford – Highway Department
100 Magee Avenue
Stamford, CT

Resources: US Environmental Protection Agency (EPA) regulations of 40 CFR 112:
Site's Spill Prevention Control and Countermeasures (SPCC) Plan
SPCC Training Power Point Presentation (by F&O)

Training Facilitator: Justin Penfield, P.E., Fuss & O'Neill

Justin Penfield, _____, Fuss & O'Neill, Inc
Printed Name Signature

FUSS & O'NEILL

Employee Training
Universal Waste
City of Stamford
Date of Training: October 2, 2024

Attendees Sign-In:

	Name Printed	Name Signed	Company / Work Function
1	Bill Klous	Bill Klous	FLEET MGR
2	Costa Londa		Mechanic
3	Nicola DiPreta	Nick DiPreta	Mechanic
4	Eric Marrale		Master Mechanic
5	Will Chiello		Mechanic
6	STEVEN MEJIA		MECHANIC
7	DUAN FRANCIQUE		MECHANIC
8	SCOTT GERARD		Fleet
9			" "
10	Alec Nockowski	Alec Nockowski	UMF

Training Location: City of Stamford – Highway Department
100 Magee Avenue
Stamford, CT

Resources: US Environmental Protection Agency (EPA) Regulations of 40 CFR 262.34(a)(4) and 265.16
Regulations of Connecticut State Agencies (RCSA) Section 22a-449(c)-102(a)(1)
Universal Waste, Used Oil and CT Regulated Waste Training Power Point Presentation (by F&O)

Training Facilitator: Justin Penfield, P.E., Fuss & O'Neill

Justin Penfield, _____, Fuss & O'Neill, Inc
Printed Name Signature

FUSS & O'NEILL

Employee Training
Universal Waste
City of Stamford
Date of Training: October 2, 2024

Attendees Sign-In:

	Name Printed	Name Signed	Company / Work Function
1	John Perkins	John Perkins	Fleet Management (Secty)
2	ROBERT KOCZENAS		UMF
3	Jason Timmerman		Fleet Supervisor
4			
5			
6			
7			
8			
9			
10			

Training Location: City of Stamford – Highway Department
100 Magee Avenue
Stamford, CT

Resources: US Environmental Protection Agency (EPA) Regulations of 40 CFR 262.34(a)(4) and 265.16
Regulations of Connecticut State Agencies (RCSA) Section 22a-449(c)-102(a)(1)
Universal Waste, Used Oil and CT Regulated Waste Training Power Point Presentation (by F&O)

Training Facilitator: Justin Penfield, P.E., Fuss & O'Neill

Justin Penfield, _____, Fuss & O'Neill, Inc
Printed Name Signature

Appendix H

2024-25 Catch Basin / Manhole Repairs List

Catch Basin & Manhole Repair Master List 2024-2025 Annual Report (7/1/24 - 6/30/2025)

Service Request # GovQA	Date	Location/Address	Reported or Observed Issue	Status	Date	Repair Date
	01/15/20	1347 Newfield Ave.	MH Repair - Need to lower MH. Tall cone placed 1/14/20	Sent to Cavaliere	9/17/2024	9/25/2024
	03/30/21	936 Hope St. on Bennett	6" PVC uncovered drain pipe in CIP walk. CCTV Work confirmed. Install new CB and connect to existing pipe. Cone placed	Sent to Grasso	3/1/2025	4/1/2025
	05/27/22	1 Mill Rd.	Sinkhole @Culvert/Bridge.Unable to repair. Referred to Engr. 5/27/22. Vitti Const. repaired road - plate removed.	Sento to Engineering		7/8/2024
	07/15/22	54 Sleepy Hollow Ln.	CB Repair - hole at CB. Barrel 7/15/22. Replace w/ new precast sumps. **PRIORITY - EXCAVATION IN PARK COMPLETE AS OF 6/24/24**	Sent to Cavaliere	7/15/2024	9/11/2024
	09/07/22	43 Pellom Place	CB Repair - Hole at CB. Barrel placed. ME. Very small hole. Low priority - end of road	Road paved by utility company 11/12/24		
	10/26/22	34 Michael Rd.	CB Repair - Hole at CB. Barrel at CB 5/3/24.Total rebuild. Needs new sump, new top & frame	Sent to Cavaliere	9/16/2024	10/8/2024
	12/07/22	2215 Summer St.	CB Repair - CB top/frame sinking - Left lane at Ridgeway entry. Opposite #2284. Per Tturk. Paved 10/4/24			
	12/07/22	2215 Summer St.	CB Repair - CB top/frame sinking - Left lane, opposite Bridge St., near AT&T, southeast entry ridgeway. Per T.Turk. Paved 10/4/24			
	12/13/22	280 Fairfield Ave. at Young Dixon Way	CB Repair - needs top replacement. Tall cone left ME 12/13/22 & 5/23/25	Sent to Cavaliere	6/2/2025	6/25/2025
	03/13/23	321 Soundview Ave.	CB Repair - sump collapsing. CDOT style grate/frame broken. Total rebuild	Sent to Grasso	12/19/2024	2/5/2025
	06/14/23	111 Fox Ridge Rd.	MH Repair - MH paved over. ME located 6/14/23 and painted. Excavate and install Repl frame and cover	Sent to Cavaliere	4/21/2025	5/6/2025
	06/14/23	223 Foxwood Rd. on Fox Ridge Rd. - near CB's	MH Repair - MH paved over. ME located 6/14/23 and painted. Excavate and install Repl frame and cover	Sent to Cavaliere	4/21/2025	5/6/2025
	06/20/23	1 East Ridge Rd.	CB Repair - Hole next to double CB. Barrel 6/20/23. Double top reset.	Sent to Cavaliere	6/2/2025	6/16/2025
	06/26/23	48 Lannell Dr.	CB Repair - Hole next to precast conc.CB.Total rebuild.Convert to flat top. Small asph. curb behind.	Sent to Cavaliere	11/12/2024	12/28/2024
	08/15/23	2777 Summer St.	CB Repair - Hole next to CB.tall cone placed ME. Reset existing CI top	Sent to Cavaliere	7/15/2024	9/16/2024
	10/05/23	175 Highview Ave. on Columbus Pl. (south side of rd)	CB Repair - CI curb back frame is loose. Reset existing top. No hole. Sump is good. Low priority.	Sent to Cavaliere	9/16/2024	10/3/2024
	11/01/23	20 Silver St	CB Repair - hole at CB. Needs new CI top and frame. Check sump condition. Barrel 11/1/23	Sent to Cavaliere	12/16/2024	1/27/2025
	11/13/23	29 Country Club Rd.	CB Repair - grate tilted forward. Needs new sump. Reset existing top and frame. Barrel 11/13/23	Sent to Cavaliere	11/12/2024	12/10/2024
	11/29/23	Club Rd	Pipe Repair - tt to verify - 15' of 12" to CB and 30' of 18" in main? CCTV work OneVac on 11/16/23	Sent to Cavaliere	9/16/2024	11/5/2024
	12/14/23	237 Foxwood Rd.	CB Repair - hole at CB. Barrel in place. Near column w/mailbox	Sent to Cavaliere	11/12/2024	12/4/2024
	12/16/23	93 Neponsit St.	CB Repair - hole at CB. Barrel in place. Flat top. Total rebuild-new sump, new flat top, tie in leader	Sent to Cavaliere	9/16/2024	10/31/2024
	01/31/24	34 Lanark Rd.	CB Repair - hole at CB. Needs new sump box, top and frame. Barrel in place ME	Sent to Cavaliere	6/15/2024	9/5/2024
	03/13/24	180 Colonial Rd. at Strawberry Hill Ave.	CB Repair - Convert to flat top - demo existing curb, improve turing radius, need apron 1-1/2" transition	Sent to Cavaliere	3/22/2024	
	03/22/24	Lockwood Ave. at Orange St.	MH Repair - Paved over. Located CCTV - on Lockwood under I-95 southbound. New frame &cover.	Sent to Cavaliere	3/22/2024	
	03/26/24	5 Hunting Ridge Rd. at Long Ridge Rd.	CB Repair - hole at CB. Barrel 3/26/24. Needs new sump box, top and frame. PRIORITY	Sent to Cavaliere	5/21/2024	7/23/2024
	03/27/24	17 Saddle Rock Rd.	MH Repair - no frame/no ring - not secure. TT barrel 3/26/24	Sent to Cavaliere	5/21/2024	9/3/2024
	04/01/24	60 Saddle Rock Rd.	MH Repair - frame very worn. Needs replacement	Sent to Cavaliere	5/21/2014	9/3/2024
	04/08/24	259 Hope St.	CB Repair - Needs new sump box, new CI top. Cone in place. Also needs demo & repl. 3 walk panels	Sent to Cavaliere	7/15/2024	8/30/2024
	04/09/24	Opposite #1 Orange St.	Pipe Repair - CCTV 4/8/24.12"clay collapsed @40' west of MH-6717.under sidewalk. Painted.Excavate and explore.	Sent to Cavaliere	12/16/2024	3/3/2025
	04/23/24	Opposite 175 South Lake Dr.	CB Repair - Existing CI top loose. Needs top reset.Sump OK. Barrel in place.Reported A. Turner	Sent to Cavaliere	2/15/2025	3/27/2025
	05/06/24	Opposite #61 Strawberry Hill Ct. at Tully Ctr.	CB Repair - Reset existing grate and frame. Existing sump OK	Sent to Cavaliere	6/2/2025	7/2/2025
	05/08/24	122 Old Colony Rd.	Pipe Repair - 12" CMP outflow pipe from CB to CB at #117 collapsed/blocked - unable to jet. 40'LF	Sent to Cavaliere	7/15/2024	8/22/2024
	05/30/24	3 Highline Trail South	CB Repair - total replacement. Needs new precast sump, new CI top and frame. Barrel 5/30/24	Sent to Cavaliere	2/15/2025	3/19/2025
	06/24/24	113 Thornridge Dr	CB Repair - Hole at CB. Needs new precast sump, reset exist. Top and frame. Barrel 6/20/24		9/16/2024	9/30/2024
	06/24/24	322 High Ridge Rd. on Brownley Dr.	CB Repair - Grate/frame dropped in.Total rebuild. New sump, new cast iron top/frame. Water barrier in place.**PRIORITY**	Sent to Cavaliere	7/15/2023	9/6/2024
	06/25/24	35 Belltown Rd. on Leonard St.	CB Repair - Needs new CI curb back top and frame. Ex. Sump is OK. Demo and repl. 2 conc. Panels behind. Barrels 6/25/24			10/15/2024
	06/26/24	Merrell Ave. at Carolina Rd.	CB and pipe Repair-CB needs new curb back type grate/frame. Replace 60lf RCP piping from CB to MH. **PLATED**		7/9/2024	7/16/2024
	06/27/24	Lockwood at Orange St.	Pipe Repair- replace 24" deformed CMP to CDOT MH in walk. 60' lf of pipe. Also change 12" cmp. **PLATED**	Sent to Cavaliere	6/26/2024	7/8/2024
	06/27/24	1083/1093 Shippan Ave.	MH Repair - Loud MH. Needs New Frame and Cover	Sent to Cavaliere	4/21/2025	5/8/2025
	07/01/24	137 Selleck St. on Vassar Ave.	CB Repair - Holes at CB. Needs new sump box, reset existing cast iron grate. Barrel 7/1/24.	Sent ot Cavaliere	2/15/2025	3/31/2025
	07/08/24	104 Burwood Ave. on Silver St.	CB Repair - Frame/grate dropped. Needs new sump and CI frame and grate. Barrel 7/3/24.	Sent to Cavaliere	12/16/2024	1/27/2025
	07/08/24	50 Silver St. at Burwood Ave.	CB Repair - Hole @ CB. Needs new sump and CI frame and grate. Barrel 7/3/24.	Sent to Cavaliere	12/16/2024	1/27/2025
	07/13/24	48 Powell Pl. at Ivy St.	CB Repair - Hole @ CB. Maybe just top reset. Barrel 7/15/24. New Barrel 12/28/24. Water barrier 1/2/25.	:Sent to Cavaliere	6/2/2025	6/26/2025
	07/16/24	20/28 Spring St.	Pipe Repair - Excavate and assess existing 8" clay @ collapse @ patch @ north curbline. **OCT. 2024**	Sent to Cavaliere	9/16/2024	9/25/2024
	07/17/24	114 Crestview Ave. on Klondike Ave.	CB Repair - Hole @ CB. Needs new sump. Reset existing CI top and frame. Barrel 7/16/24	Sent to Cavaliere	2/15/2025	4/24/2025
	07/18/24	#43 / #51 / #76 / #80 Redbird Rd	Pipe & CB Repair - Repl. 3 CBs. Repl all piping 340lf.	Sent to Cavaliere	7/15/2024	8/14/2024
	07/23/24	134 Henry St. on Garden St.	CB Repair - Hole @ CB. Needs precast transition and top reset. Tall cone 7/19/24 - Engineering and BLT to fix	Send to Cavalier	2/15/2025	4/8/2025
	07/24/24	1078 Cove Rd. on Island Heights Rd.	CB Repair - Hole @ CB. Sump OK. Reset existing CI top. Needs leveling course. Barrel 7/24/24	Sent to Cavaliere	11/12/2024	12/2/2024
	08/15/24	33 Auldwood Rd.	CB Repair - Hole @ CB. Needs new sump. Reset existing CI top. Barrel 8/15/24	Sent to Cavaliere	11/12/2024	1/6/2025
	08/22/24	Bedford at Fifth St.	MH Repair - MH cover off. PLATED.	Sent to Cavaliere	8/22/2024	9/3/2024
	08/22/24	1926 Bedford St.	MH Repair - MH cover cracked and rusted shut.	Sent to Cavaliere	8/22/2024	9/3/2024
	08/22/24	1966 Bedford St.	MH Repair - MH cover buried/paved over.	Sent to Cavaliere	8/22/2024	9/3/2024
	08/22/24	On Edgewood at Hope St.	Pipe Repair - RCP pipe segment dropped - Burns/Eversource. Replace 40'LF pipe.	Sent to Cavaliere	8/22/2024	9/3/2024
	09/06/24	108 Prospect St.	CB Repair - Top is sinking. Reset existing top. Water barrier 9/9/24	Sent to Cavaliere	12/15/2024	12/13/2025
	09/06/24	173/185 Slice Dr.	MH Repair - frame is loose. Furnish and install new frame & cover	Sent to Cavaliere	9/16/2024	9/20/2024
	09/09/24	22 Broad Brook Ln. on west side of Hope St.	CB Repair - Hole at CB. Furnish new wide dimension CI flat top grate/frame. Needs new sump.	Sent to Cavaliere	9/16/2024	11/25/2024

	09/10/24	6 Suburban Ave. (west side of street)	CB Repair - CI curb back broken and frame bent by Burns Const. Furnish new CI frame and top	Sent to Cavaliere	12/16/2024	2/4/2025
	09/16/24	88 Merrill Ave.	CB Repair - Hole @ existing CB. DEMO EXIST. CB and connect & fernco piping. Barrel 9/12/24	Sent to Cavaliere	9/16/2024	11/7/2024
	09/16/24	102 Alpine St.	Pipe Repair - Sinkhole in road.Barrel 8/14/24.Hole at top of 18"RCP pipe & major root intrusion. CCTV complete. Excavate & repair top of pipe. SMD to cut out roots	Sent to Cavaliere	11/12/2024	12/6/2024
	09/17/24	195 Slice Dr.	MH Repair - Enter MH-remove rocks and build new conc. Sweep at MH trough. Frame and cover OK	Sent to Cavaliere	9/16/2024	9/20/2024
	09/20/24	80 West Forest Lawn Ave.	MH Repair - Reset exist MH frame/cover. Enter MH - new conc trough at junction box.Sinkhole at road. Barrel 9/19/24	Sent to Cavaliere	11/12/2024	11/21/2024
	09/20/24	West Broad St at Schuyler St.	MH Repair - Needs locking MH frame & cover - PLATED 9/23/24 - PRIORITY BEFORE WINTER	Sent to Cavaliere	11/12/2024	12/2/2024
	09/26/24	Next to #75 Orange St.	CB & Pipe Repair - Needs new sump box, reset exist. Top & frame. Needs 20'lf new 12" SDR to MH	Sent to Cavaliere	12/16/2024	3/10/2025
	10/04/24	1444 Summer St.	CB Repair - reset existing CI top & frame. Sump is OK. Barrel on hole 10/4/24	Sent to Cavaliere	12/16/2024	3/27/2025
	10/29/24	100 Glenbrook Rd.	MH Repair - Paved over. Needs new frame & cover and raise to grade. Mondo Const. discovered it.	Sent to Cavaliere	11/12/2024	12/12/2024
	11/06/24	40 Pershing at Todd Ln.	CB Repair - hole at CB. Needs new 6" curb back top and frame. Needs new sump. Barrel 11/6/24	Sent to Cavaliere	4/21/2025	5/19/2025
	11/06/24	33 Pershing at Todd Ln	MH Repair - MH in road at curb ramp needs new frame and cover. Burns uncovered.	Sent to Cavaliere	4/21/2025	5/19/2025
	11/06/24	33 Pershing at Todd Ln	MH Repair - MH in center of intersection needs new frame/cover.Unable to open. SMD painted.	Sent to Cavaliere	4/21/2025	5/19/2025
	11/18/24	Springdale Train Station	CB Repair - hole at flat top cb near platform. Sump OK. Reset exist.top & seal around pipe. Barrel in place. PRIORITY	Sent to Cavaliere	12/16/2024	2/3/2025
	12/02/24	34 Twin Brook Drive	MH Repair - MH frame hit by loader leaf pick up. Needs new frame & cover **PRIORITY**	Sent to Cavaliere	12/6/2024	12/13/2024
	12/06/24	29 Janice Rd.	MH Repair - MH frame hit by loader leaf pick up. Needs new frame & cover **PRIORITY**	Sent to Cavaliere	12/6/2024	12/17/2024
	12/15/24	Opposite 212 Magee Ave.	MH inspection and repair - Enter MH's at low tide and provide assessment/clear debris at inlet/outlet piping	Sent to Cavaliere	2/15/2025	3/21/2025
	12/17/24	On South Lindsey Ave. at Crane Rd. North	MH Repair - Needs new frame and cover. Barrel is in place	Sent to Cavaliere	2/15/2025	2/25/2025
	01/11/25	192 Bennett St.	CB Repair - Double CB. Grate is unscure in precast conc frame. Needs replacement.Barrel 1/11/25.	Sent to Cavaliere	4/4/2025	4/17/2025
	01/16/25	77 Elmbrook Dr.	CB and Pipe Repair - Need new precast conc sump, CI curb back grate & frame, 32' new SDR 12" from CB to MH	Sent to Cavaliere	2/15/2025	5/3/2025
	01/29/25	16 Silver St.	MH Repair - MH in driveway paved over. Needs new frame and cover.Located CCTV and painted	Sent to Grasso	5/7/2025	5/30/2025
	02/06/25	89 Slice Dr.	MH Repair - Needs new frame. Hit by plow. Barrel in place.	Sent to Cavaliere	2/7/2025	2/21/2025
	02/12/25	80 Mill River St.	MH Repair - Ring was hit and broken by plow. Cover sits low. Needs new frame	Sent to Cavaliere	2/15/2025	3/8/2025
	02/12/25	152 Dunn Ave.	MH Repair - Ring was hit and broken by plow. Cover sits low. Needs new frame	Sent to Cavaliere	2/15/2025	2/20/2025
	02/15/25	77 Seaside Ave. at Bungalow Park	CB Repair - Hole at back of CB. Block from sump missing. Total rebuild. New CI top and frame. Barrel 2/15/25.	Sent to Cavaliere	2/15/2025	4/4/2025
	02/15/25	39 Cogswell Ln.	MH Repair - Riser hit by plow. Needs new frame and cover. No barrel	Sent to Cavaliere	6/2/2025	6/9/2025
	02/20/25	108 Canfield Dr.	MH Repair - Frame broken & cover loose. Needs new frame and cover. Barrel ME 2/20/25	Sent to Cavaliere	2/21/2025	2/28/2025
	09/20/24	345 Pepper Ridge Rd. - Newfield Elem. School	CB Repair - Grate fused to frame at CB in back near playground. Replace grate & frame.	Sent to Cavaliere	12/16/2024	2/14/2025
	03/10/25	On Newfield #592/#596 Newfield Ave. @ Newfield Ct	MH Repair - MH buried/paved over - northbound lane, Needs new frame and cover. Needs to be painted	Sent to Cavaliere	4/21/2025	5/13/2025
	03/11/25	On Cold Spring Rd. at Washington Blvd.	CB Repair - Sump box is OK. Needs new transition, leveling course, and new CI top and frame. Water barrier 3/11/25	Sent to Cavaliere	4/21/2025	4/24/2025
	03/11/25	On Cold Spring Rd. at Washington Blvd.	CB Repair - Need new cast iron curb back. Bolt in place. Tall cone in place.	Sent to Cavaliere	4/21/2025	4/24/2025
	03/20/25	104 Old Barn Rd. West	CB Repair - Hole at CB. Needs new precast sump, new CI flat top type grate and frame. Barrel 3/17/25	Sent to Cavaliere	4/21/2025	5/30/2025
	04/22/25	111 Harbor View Ave.	MH Repair - MH at southbound Harbor View Dr. at TS incorrectly installed. Demo CIP and properly reset new MH frame.TT painted 4/22/25	Sent to Cavaliere	6/2/2025	6/6/2025
		Note: As of 10/10/2025, there were 88 repairs completed from this list, compared to 84 repairs completed during the 2023-2024 Reporting Period				
		Note: As of 3/3/2026, there are appx. 110 Remaining / Outstanding Repair items (not shown on this list) compared to 103 outstanding repairs during the 2023-2024 Reporting Period.				
		Note: Work on this list performed by various contractors as noted and efforts supplimented by City Staff.				
		Note: Additional detail available as per invoices from contractors and city documentatation.				
		Note: Additional repairs to MS4 Drainage completed by Grasso Construction as part of paving work do not appear on this list.				

Appendix I

2024-25 Culvert Cleaning List

City of Stamford - #CT0030279

Open Drainage Channel (Culvert Cleaning and Backhoe Work) 7/1/24 - 6/30/2025

Date	Address / Location	Duration	Manpower	Quan. Of Material Removed	Receiving Waters	Notes
7/16/2024	#3 Green St.	1/2 Day	4 men, mini excavator, bobcat/tool cat, small dump trucks.	appx. 6 cubic yards - brush, debris, and logs at location of stormwater outfall pipe (DIS-12) to Rippowam River.	Rippowam River	Cleaned and cleared logs/sediment/debris at DIS-12.
7/21/2024	#490 Hunting Ridge Rd.	2 Days	6 men, small dump trucks & mini excavator	appx. 15 cubic yards - Sediment, brush and debris accumulated in front of MS4 outfall pipe @ DIS-550	Haviland Brook / Rippowam River	Cleaned and cleared sediment accumulated at stormwater ouftall pipe. Regraded swale downstream from outfall. Topsoil/seed/&hay to stabalize all soils.
8/16/2024	#257 Silver Hill Lane	1 Day	3 men, hydrualic crane and small dump truck.	appx. 21 cubic yards - brush, debris, and logs.	Toilsome Brook / Rippowam River	Cleaned and cleared debris from trash rack. SMD staff removed what they could reach. SMD then referred remaining cleaning to Parks Dept. (Grapple truck).
8/20/2024	#12 Woodbrook Dr.	1/3 Day	4 men, small dump trucks, hydrualic crane truck	appx. 2 cubic yards - brush, debris, and logs.	Springdale Brook / Noroton River	Cleaned and cleared debris from RCP MS4 inlets. Numerous logs and debris removed.
8/23/2024	#257 Silver Hill Lane	1 Day	4 men, Parks Dept. graple truck and small dump truck	appx. 4 cubic yards - brush, debris, and logs.	Toilsome Brook / Rippowam River	Cleaned and cleared debris from trash rack. Numerous logs and debris removed which were washed in during 8/18/25 storm event.
8/29/2024	1/4mi north of #373 Riverbank Rd. at twin 24" RCP's	1/2 Day	4 men, small dump truck, stetco hydraulic cranel, mini excavator	appx. 2 cubic yards	Haviland Brook / Rippowam River	Cleaned and cleared accumulated debris at twin 24" RCP inlets.
9/5/2024 & 9/19/2024	#88 Mianus Rd.	1/2 Day	4 men, small dump trucks, mini excavator	appx. 2 cubic yards - brush, debris, and logs.	Mianus River	Cleaned and cleared 4 RCP pipe inlets. Numerous logs and debris removed.
9/6/2024	#188 / #202 Slice Dr.	1 Day	4 men, mini excavator, small dump trucks	appx. 8 cubic yds.	Noroton River	Cleaned and cleared culvert piles of rock and debris washed and deposited at inlet. Also did significant jetting of downstream RCP. Material was washed during 8/18/24 storm event.
9/6/2024	#7 Malvern / #284 Vine Rd.	1/2 Day	4 men, Mini Excavator an small dump truck	appx. 6 cubic yards	Rippowam River	Cleaned and cleared sediment accumulated at stormwater inlets (6 of them). Debris washed in after 8/18/24 storm event.
9/9/2024 & 9/11/2024	#24 West Trail	2 Days	4 men, mini excavator, small dump trucks	appx. 4 cubic yards - sediment, brush & debris	Rippowam River	Cut back brush at leakoff / culvert outlet. Removed pile of sediment located downstream from outlet in stream channel.
9/10/2024	#239 Cold Spring Rd.	1 Day	4 men, Parks Dept. graple truck and small dump truck	appx. 10 cubic yards - brush, debris, and logs.	Rippowam River	Cleaned and cleared logs and debris trapped at bridge pier after 8/18/24 rainfall event.
9/12/2024	#661 Westhill Rd.	1/2 Day	2 men, handwork and small dump truck	appx. 2 cubic yds.	Rippowam River	Cleaned and cleared leaves and debris at pipe inlet. Reported inlet completely blocked as of 9/3/24.
9/22/2024	#386 June Rd.	1 Day	4 men, mini excavator, small dump trucks	appx. 2 cubic yds.	Long Island Sound Via Mianus River	Cleaned and cleared leakoff (reported water on road) and reset surge stone.
10/2/2024	#54 Oakdale Rd.	1/2 Day	2 men, handwork	appx. 1 cubic yd.	Noroton River	Removed 4x4 and logs accumulated at culvert inlet #54 Oakdale Rd.
10/7/2024	#44 East Cross Rd.	1/2 Day	5 men, mini excavator, small dump trucks	appx. 4 cubic yards	Rippowam River	Cleaned and cleared sediment accumulated at inlet / culvert crossing.

10/10/24 - 10/11/2024	#123 Dogwood Ln.	2 Days	4 men, mini excavator, small dump trucks	appx. 6 cubic yards	Rippowam River	Cleaned and cleared sediment at culvert outlet pipe (DIS-1948) and prep for new asphalt leakoff at low point of road at this location.
3/26/2025	#12 / #28 Swampscott Rd.	1/2 Day	2 men, bobcat / toolcat / shovels, small dump truck	appx. 2 cubic yards - cleaned and cleared sediment four (4) leakoffs at ends of road.	Rippowam River	leakoffs cleaned and cleared. SMD referre this item to parks dept. to cut back trees and vegetation above and adjacent to leakoff locations.
4/16/2025	Inlet located behind #269 Vine Rd.	1/2 Day	2 men, small dump truck	Debris blocking inlet was cleared and moved to the side of stream channel. Do not believe any debris was hauled.	Rippowam River	Cleaned and cleared sediment accumulated at stormwater inlet. Needed chainsaws, shovels, etc., mostly handwork.
4/23/2025	#84 Brookdale Rd.	1/2 Day	4 men, small dump trucks, backhoe	appx. 2 cubic yards - Sediment, brush and debris and remnants of bridge which was washed to face of culvert inlet.	Rippowam River	Cleaned and cleared debris as described.
4/23/2025	Intersection of Ingleside / Briar Brae Rd. at High Ridge Rd.	1/2 Day	4 men, small dump trucks, backhoe	appx. 2 cubic yards - Sediment, brush and debris cleaned and cleared from leakoffs at intersection.	Rippowam River	Cleaned and cleared debris as described.
4/29/2025	#55 Dannell Dr.	1/2 Day	4 men, small dump trucks, hydrualic crane truck	appx. 2 cubic yards - Sediment, brush and debris.	Rippowam River	Picked up and removed debris jetted and removed by contractor (One Vac LLC) per the direction of SMD.
5/13/2025	#41 Palmers Hill Rd. on Westover Rd.	1/2 Day	4 men, vac truck, shovels	appx. 2 cubic yards - cleaned and cleared sediment at inlet pipe and used root cutter for remaining debris in piping.	Long Island Sound via Rosa Hartman park and into Greenwich	Inlet partially blocked. Inspected and CCTV work. Root cutter to remove root obstructions.
6/24/2025	#421 Chestnut Hill Rd.	1/2 Day	4 men, small dump trucks, Mini excavator	appx. 2 cubic yards - Sediment, brush and debris. Able to reach from road w/ mini ex bucket.	Rippowam River	Cleaned and cleared sediment accumulated at ms4 ouftfall DIS-1416

Scofieldtown Road Beaver Issues - Twin 36" RCP Culvert Pipe Inlets

Date	Address / Location	Duration	Manpower	Quan. Of Material Removed	Receiving Waters	Notes
7/25/2024	Scofieldtown Rd. at Hannas Rd.	1/2 Day	4 men, vac truck / mini excavator, small dump truck	appx. 2 cubic yards - Sediment, brush and tree debris	Rippowam River	Tree was blocking inlets. Tree pushed to the side and debris cleared.
9/5/2024	Scofieldtown Rd. at Hannas Rd.	1/2 Day	4 men, vac truck / mini excavator, small dump truck	appx. 2 cubic yards - Sediment, brush and debris.	Rippowam River	Cleaned and cleared debris placed by beavers at pipe inlets.
4/1/2025	Scofieldtown Rd. at Hannas Rd.	1 Day	4 men, vac truck, hydrualic crane truck	appx. 2 cubic yards - Sediment, brush and debris.	Rippowam River	Twin 36" RCP's high pressure jetted and cleaned. Additional debris removed by backhoe 4/2/2025
4/22/2025	Scofieldtown Rd. at Hannas Rd.	1/2 Day	4 men, vac truck and backhoe	appx. 2 cubic yards - Sediment, brush and debris.	Rippowam River	Backhoe cleared debris at twin 36" RCP inlets. Vac truck high pressure jetted and cleaned piping.
4/29/2025	Scofieldtown Rd. at Hannas Rd.	1/2 Day	4 men, vac truck and backhoe	appx. 2 cubic yards - Sediment, brush and debris.	Rippowam River	Backhoe cleared debris at twin 36" RCP inlets. Vac truck high pressure jetted and cleaned piping.
5/7/2025	Scofieldtown Rd. at Hannas Rd.	1/2 Day	4 men, camera truck and backhoe	appx. 2 cubic yards - Sediment, brush and debris.	Rippowam River	Backhoe cleared and removed debris at twin 36" RCP inlets.
5/22/2025	Scofieldtown Rd. at Hannas Rd.	1 Day	5 men, camera truck, vac truck & backhoe	appx. 2 cubic yards - Sediment, brush and debris.	Rippowam River	Backhoe cleared and removed debris at twin 36" RCP inlets.
6/4/2025	Scofieldtown Rd. at Hannas Rd.	1/2 Day	5 men, camera truck, vac truck & backhoe	appx. 2 cubic yards - Sediment, brush and debris.	Rippowam River	Backhoe cleared and removed debris at twin 36" RCP inlets.
6/25/2025	Scofieldtown Rd. at Hannas Rd.	1/2 Day	5 men, camera truck, vac truck & backhoe	appx. 2 cubic yards - Sediment, brush and debris.	Rippowam River	Backhoe cleared and removed debris at twin 36" RCP inlets.

Appendix J

20234-25 Dry Weather Screening Data Summary Table

CITY OF STAMFORD DRY WEATHER SAMPLING 2025

	General Information										Initial Rain Event		Initial Screening Info					
	SON #	Permit Outfall ID	Screen/ Status	Company	Sample Status	Condition Status	Condition Level	Up Gradient Sampled	Direct Discharge	Evidence of Sewage	Date	Amount	Initial	Date	Time Sampled	Photo	Follow Up	Flow (gal/min)
28	SON-0035	DIS-28	Yes	B&L	NN		Good	No	No	No	6/18/2025	0.19	MMV/MMM	6/26/2025	10:44	No	Yes	0
89	SON-0062	DIS-89	Yes	B&L	NN		Good	No	Yes	No	6/18/2025	0.19	MMV/MMM	6/26/2025	9:17	No	No	0
95	SON-0064	DIS-95	Yes	B&L	NN		Good	No	Yes	No	6/18/2025	0.19	MMV/MMM	6/26/2025	9:10	No	No	0
112		DIS-112	Yes	B&L	NN		Good	No	Yes	No	6/18/2025	0.19	MMV/MMM	6/26/2025	12:10	No	No	3
169		DIS-169	Yes	B&L	NN		Good	No	No	No	6/18/2025	0.19	MMV/MMM	6/26/2025	10:58	No	No	0
175		DIS-175	Yes	B&L	NN		Good	No	Yes	No	6/18/2025	0.19	MMV/MMM	6/26/2025	10:30	No	No	0
177		DIS-177	Yes	B&L	SF		Good	No	No	No	6/18/2025	0.19	MMV/MMM	6/26/2025	10:18	No	Yes	2
179		DIS-179	Yes	B&L	NN		Good	No	No	No	6/18/2025	0.19	MMV/MMM	6/26/2025	11:52	No	No	0
206		DIS-206	Yes	B&L	NN		Good	No	No	No	6/11/2025	0.67	SEL/OWA	6/13/2025	9:00	No	No	0
207		DIS-207	Yes	B&L	NN		Good	No	No	No	6/11/2025	0.67	SEL/OWA	6/13/2025	8:45	No	No	0
208		DIS-208	Yes	B&L	NN		Good	No	No	No	6/11/2025	0.67	SEL/OWA	6/13/2025	8:15	No	No	0
223		DIS-223	Yes	B&L	NN		Unk	No	No	No	6/18/2025	0.19	MMV/MMM	6/26/2025	12:22	No	No	0
224		DIS-224	Yes	B&L	NN		Unk	No	No	No	6/18/2025	0.19	MMV/MMM	6/26/2025	12:20	No	No	
319		DIS-319	Yes	B&L	NN		Good	No	No	No	6/11/2025	0.67	SEL/OWA	6/13/2025	9:55	No	No	0
320		DIS-320	Yes	B&L	SF		Good	Yes	No	No	6/11/2025	0.67	SEL/OWA	6/13/2025	12:15	No	No	5
439		DIS-439	Yes	B&L	NN		Good	No	No	No	6/11/2025	0.67	SEL/OWA	6/13/2025	9:28	No	No	0
841		DIS-841	Yes	B&L	NN		Unk	Yes	No	No	6/11/2025	0.67	SEL/OWA	6/13/2025	12:35	No	No	
987		DIS-987	Yes	B&L	SF		Good	No	Yes	No	5/15/2025	0.95	SME/OWA	5/21/2025	11:20	No	No	5
1064		DIS-1064	Yes	B&L	EFF		Unk	Yes	Yes	Yes	5/15/2025	0.95	SME/OWA	5/21/2025	12:00	No	Yes	
1065		DIS-1065	Yes	B&L	SF		Unk	Yes	Yes	No	5/15/2025	0.95	SME/OWA	5/21/2025	11:40	No	No	2
1069		DIS-1069	Yes	B&L	EFF		Good	No	No	No	5/15/2025	0.95	SME/OWA	5/21/2025	10:55	No	Yes	
1070		DIS-1070	Yes	B&L	EFF		Good	No	No	No	5/15/2025	0.95	SME/OWA	5/21/2025	10:50	No	Yes	
1071		DIS-1071	Yes	B&L	NN		Unk	Yes	Yes	No	5/15/2025	0.95	SME/OWA	5/21/2025	10:48	No	No	
1072		DIS-1072	Yes	B&L	NN		Good	No	No	No	5/15/2025	0.95	SME/OWA	5/21/2025	10:42	No	No	
1074		DIS-1074	Yes	B&L	NN		Unk	Yes	Yes	No	5/15/2025	0.95	SME/OWA	5/21/2025	10:15	No	No	
1075		DIS-1075	Yes	B&L	SF		Fair	No	Yes	Yes	5/15/2025	0.95	SME/OWA	5/21/2025	10:00	No	No	2
1076		DIS-1076	Yes	B&L	SF		Unk	Yes	Yes	Yes	5/15/2025	0.95	SME/OWA	5/21/2025	9:15	No	No	5
1077		DIS-1077	Yes	B&L	NN		Good	No	Yes	No	5/15/2025	0.95	SME/OWA	5/21/2025	10:30	No	No	
1078		DIS-1078	Yes	B&L	NN		Good	No	Yes	No	5/15/2025	0.95	SME/OWA	5/21/2025	10:30	No	No	
1080		DIS-1080	Yes	B&L	EFF		Fair	No	Yes	No	5/15/2025	0.95	SME/OWA	5/21/2025	11:00	No	Yes	
1229		DIS-1229	Yes	B&L	NN		Good	No	No	No	6/18/2025	0.19	MMV/MMM	6/26/2025	9:40	No	Yes	
1408	SON-0241	DIS-1408	Yes	B&L	NN		Good	No	No	No	6/18/2025	0.19	MMV/MMM	6/26/2025	10:40	No	No	0
1412		DIS-1412	Yes	B&L	NN		Good	No	Yes	No	6/18/2025	0.19	MMV/MMM	6/26/2025	9:23	No	Yes	0
1451	SON-0155	DIS-1451	Yes	B&L	SF		Good	No	Yes	No	6/18/2025	0.19	MMV/MMM	6/26/2025	11:28	No	Yes	4
1800		DIS-1800	Yes	B&L	NN		Good	No	Yes	No	6/18/2025	0.19	MMV/MMM	6/26/2025	11:42	No	No	0
1818		DIS-1818	Yes	B&L	NN		Unk	Yes	No	No	6/11/2025	0.67	SEL/OWA	6/13/2025	12:45	No	No	

Sampling Codes	Code
E-Flow Follow Up	EFF
No Flow/ E- Flow	NFEF
No Flow/ No E-Flow	NN
Not Sampled	NS
Sampled Flow	SF
Sampled Upstream	SU

Condition	Code
Burried	B
Inexcessible	IE
Lost/ Not Found	L
Repairs	R
Underwater	UW
Unknown	Ukn
Damaged	D

CITY OF STAMFORD DRY WEATHER SAMPLING 2025

General Information			Field Parameters											Impaired Parameters		
	SON #	Permit Outfall ID	Ammonia (mg/L)	Chlorine (mg/L)	Conductivity (umhos/cm)	Salinity (g/kg)	Potassium (mg/L)	pH	D.O (mg/L)	Turbidity (NTU)	Temp (oC)	MBAs (mg/L)	Escherichia Coli	Total Coliforms	UpStream Turbidity (NTU)	Turbidity (NTU)
28	SON-0035	DIS-28														
89	SON-0062	DIS-89														
95	SON-0064	DIS-95														
112		DIS-112	0	0.07	698	0.0196	6.2			0	10.3	0.51	15500	>24200		0
169		DIS-169														
175		DIS-175														
177		DIS-177	0	0	1128	0.0192	7.7			0	8	0.56	743	>24200		0
179		DIS-179														
206		DIS-206														
207		DIS-207														
208		DIS-208														
223		DIS-223														
224		DIS-224														
319		DIS-319														
320		DIS-320	0	0.04	639	0.299	5.7			0	20.5	0.17	428			0
439		DIS-439														
841		DIS-841														
987		DIS-987	0	0.01	269	0.129		9.1		0.02	11.9	0.1	393	5790		0.02
1064		DIS-1064														
1065		DIS-1065	0	0.03	393	0.19		8.46		0.51	11.9	0.15	61	8160		0.51
1069		DIS-1069														
1070		DIS-1070														
1071		DIS-1071														
1072		DIS-1072														
1074		DIS-1074														
1075		DIS-1075	0	0.02	844	0.415		8.43		1.54	12.7	0.17	10	5480		1.54
1076		DIS-1076	0	0.09	366	0.178		8.81		1.46	11.9	0.09	52	3870		1.46
1077		DIS-1077														
1078		DIS-1078														
1080		DIS-1080														
1229		DIS-1229														
1408	SON-0241	DIS-1408														
1412		DIS-1412														
1451	SON-0155	DIS-1451	0	0.09	649	1.18	5.1			0.15	8.3	0.85	1860	>24200		0.15
1800		DIS-1800														
1818		DIS-1818														

CITY OF STAMFORD DRY WEATHER SAMPLING 2025

General Information			IDDP Catchment Investigation				
	SON #	Permit Outfall ID	Surfactants >0.25 mg/L?	Ammonia/ Potasium Ratio > 1?	Chlorine >1.0 mg/L	Possible Source	Comments
28	SON-0035	DIS-28					Evidence of dry weather discharge, staining
89	SON-0062	DIS-89					
95	SON-0064	DIS-95					
112		DIS-112					Slight musty smell noted, along with elevated surfactants levels
169		DIS-169					Possilbly a culvert, there is a fence around OF; difficult to access
175		DIS-175					
177		DIS-177					
179		DIS-179					
206		DIS-206					
207		DIS-207					
208		DIS-208					
223		DIS-223					Outfall covered by vegetation
224		DIS-224					Outfall covered by vegetation
319		DIS-319					
320		DIS-320					
439		DIS-439					
841		DIS-841					
987		DIS-987				Possible Tap/Irrigation Source	
1064		DIS-1064					Possible sewer/stormwater system
1065		DIS-1065	NO	NO	NO	Possible sprinkler	
1069		DIS-1069					Evidence of dry weather discharge, staining
1070		DIS-1070					Evidence of dry weather discharge, staining
1071		DIS-1071					CNL outfall, thick layer of vegetation blocking access
1072		DIS-1072					
1074		DIS-1074					System leads to culvert, CB to the east of outfall is a culvert inlet
1075		DIS-1075				Irrigation/Sewer Connection	Possible combined sewer/stormwater system based on culvert-like structure and musty/sewage odor, along with foam and brown debris around OF
1076		DIS-1076				Irrigation/Sewer Connection	Possible combined sewer/stormwater system based on culvert-like structure and musty/sewage odor
1077		DIS-1077					1078 leads into a culvert, 1077 is a single catch basin but no visible connection to outfall/culvert
1078		DIS-1078					
1080		DIS-1080					
1229		DIS-1229					Staining observed
1408	SON-0241	DIS-1408					Lots of vegetation surrounding outfall
1412		DIS-1412					Evidence of staining
1451	SON-0155	DIS-1451					Flow at outfall but not at upgradient CB, could be underground source. Foam near outfall
1800		DIS-1800					
1818		DIS-1818					

Appendix K

2024-25 IDDE Sampling

Technical Report

prepared for:

Tyler Theder,

City of Stamford

Report Date: 02/20/2025

Client Project ID: Burwood Ave.

CT Cert. No. PH-0262 10 Woodside Ln (203) 557-4400

Westport, CT 06880

General Notes

- This report contains the data for the samples collected by Harbor Watch.
- All analyses were conducted and met standard operating procedure (SOP) requirements and were conducted utilizing appropriate Standard Methods.
- Freshwater is processed for *E. coli* and brackish/saltwater is processed for Enterococci.
- Results reported are adjusted for any dilution.
- Any unused sample is disposed of immediately after use.
- Laboratory analyses were conducted at Earthplace Laboratory, 10 Woodside Ln. Westport, CT 06880.

Acronym/Terms

- SW - saltwater
- QC - quality control
- Dupe - field duplicate
- FTB - field trip blank
- ppm - parts per million
- FW - freshwater
- DI - deionized water
- Rep - laboratory replicate
- mg/L - milligrams per liter
- uS/cm - microsiemens per centimeter
- MPN/100 mL - most probable number per 100 mL (this is a unit of measurement for bacteria concentrations based on statistics rather than direct counts of specific colonies)
- n/a - indicates that results for a sample were unable to quantified due to field or lab impediments
- > - indicates that the results exceeded the maximum reporting limit
- < - indicated that the results were less than the minimum reporting limit

Approved By:

Kasey Burns

Laboratory Manager

Please contact Harbor Watch at 203.557.8464 with any questions regarding this report.

Results:

Table 1. Results from sampling in the area of Burwood Ave on 2/18/2025. *Note: cells left blank have no data associated with them*.

Site Name	Date	Water Temp (° C)	Dissolved Oxygen (mg/L)	Conductivity (µmho/cm)	Salinity (ppt)	Ammonia (ppm)	*E. coli* (MPN/100 mL)	Enterococci (MPN/100 mL)	Notes
CB 1 & 2	2/18/2025								Dry, would flow into MH 6751 if there was flow
MH 6751	2/18/2025								Sitting water in basin, did not reach exit pipe (exit pipe was bone dry)
Sump at CB 3	2/18/2025						<1		
CB 3	2/18/2025								Couldn't tell if there was flow out, flow in was from sump pump
MH 6752	2/18/2025					0	775	228	Little to no movement in the water
MH 775	2/18/2025						52	209	Flow coming from Silver St and Burwood before cont. down Burwood
MH 766 - House 103	2/18/2025	7.2	10.98	673			22	20	Collected sample from flow passing in front of house 103
MH 766 - House 101	2/18/2025						88	131	Collected sample from flow passing in front of house 101
DIS	2/18/2025	5.5	10.79	1041		0	62	63	Off Top Gallant Rd, fully out of the water

Map:


Sump pump @ CB 3
CB 3
CB 1
CB 1
DIS
BURWOOD AVE
DAVENPORT DR
TOP GALLANT RD
DOLPHIN CO
MH-6751
MH-6752
MH 775
550 LOCATION
FLOW
STORM

Summary:

- Sewage-like odors, in the vicinity of catch basins at Silver Street and Burwood, were observed by City of Stamford personnel, which may be associated with a recent forced sanitary main malfunction. Further investigation by Harbor Watch was requested to determine if a source of sewage pollution was affecting the stormwater system.
- At this time, the data would indicate that there is no obvious source of pollution affecting the stormwater system. Elevated *E.coli* concentrations were observed in MH 6752, but this could likely be attributed to the lack of flow observed in this manhole, and all other sites resulted in unalarming concentrations (Table 1).
- Sampling occurred after low tide, which was at 9:11, but before the tide came back in. It should be noted that a wintery mix resulting in >1 in of precipitation occurred approx. 72 hours prior (according to the Norwalk Health Department Rain Gauge). Low temperatures and snow melt runoff may have suppressed bacteria growth.

Next Steps:

- Based on the current data, we believe no immediate action is necessary. Should concerns persist, we recommend follow-up testing during warmer temperatures; if new concerns arise, additional testing is recommended due to the proximity to the forced sanitary main.

Technical Report

prepared for:

Tyler Theder,

City of Stamford

Report Date: 04/02/2025

Client Project ID: Cove Road

CT Cert. No. PH-0262 10 Woodside Ln (203) 557-4400

Westport, CT 06880

General Notes

- This report contains the data for the samples collected by Harbor Watch.
- All analyses were conducted and met standard operating procedure (SOP) requirements and were conducted utilizing appropriate Standard Methods.
- Freshwater is processed for *E. coli* and brackish/saltwater is processed for Enterococci.
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Acronym/Terms

- SW - saltwater
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- n/a - indicates that results for a sample were unable to quantified due to field or lab impediments
- > - indicates that the results exceeded the maximum reporting limit
- < - indicated that the results were less than the minimum reporting limit

Approved By:

Kasey Burns

Laboratory Manager

Please contact Harbor Watch at 203.557.8464 with any questions regarding this report.

Results/Summary:

Harbor Watch attempted resampling at 8 sampling locations on Cove Road west of Frederick Street at the request of Tyler Theder based on results obtained in 2023. A sampling team arrived at 9:25 on April 2, 2025 to conduct the resampling. The team looked at the manholes and catch basins highlighted in the map provided by the City of Stamford. All 8 sampling location were either dry or had stagnant water which did not warrant sampling (as stagnant water can result in inflated data). No samples were taken at any sampling locations.

Map:

Next Steps:

- At this point, the lack of flow in the system does not require any immediate follow-up. Should the City of Stamford be interested in attempting sampling again, we are happy to do so later in the summer.

Appendix L

2024-25 DCIA Tracking Worksheet

CITY OF STAMFORD					
STORMWATER MANAGEMENT STANDARDS - EXEMPTION FORM					
	SQUARE FEET OF NEW IMPERVIOUS COVERAGE				
	7/1/20-6/30/21	7/1/21-6/30/22	7/1/22-6/30/23	7/1/23-6/30/24	7/1/24-6/30/25
1	47	250	110	-320	-113
2	367	400	367	181	81
3	155	288	271	384	79
4	350	221	0	0	210
5	312	360	366	258	348
6	390.44	60	-4	348	195
7	48	221	400	311	200
8	57.8	375	261	390	264
9	168	33.5	62.5	139	-255
10	280	-85	137.7	235	361
11	0	-29	172	81	387
12	149.7	263	225	-428	347
13	0	156	342	286	110
14	0	85	87	273.75	82
15	362	273	245.5	n/a	-120
16	388.8	170	377	311	356
17	188	183	-1796	336	40
18	-289.6	-52.6	0	-712	360
19	333	23	337	343	158
20	200	394	400	260	270
21	390	2	-1469	335	70
22	300	285	262	158	63
23	390	221	228	-1	70
24	381	192	0	n/a	57
25	157.085	-283	376	60	67
26	308	0	16	n/a	225
27	285.6	-810	104	n/a	36
28	-120	23	260	80	356
29	392	0	205.38	53	399
30	320	190	183.75	0	34
31	145	315	278	390	237
32	362	-377	389	89.2	385
33	399	392	38	386	89
34	-232	-385	-25	207	259
35	388	381.54	296	165	356
36	31	385	120	378	0
37	-634	194	317	283	296
38	255	384	360	730	-41
39	344	49	335	38	93
40	140	83	85	399	220
41	368	324	78	-647	310
42	396	220	161	270	-221

CITY OF STAMFORD					
STORMWATER MANAGEMENT STANDARDS - EXEMPTION FORM					
	SQUARE FEET OF NEW IMPERVIOUS COVERAGE				
	7/1/20-6/30/21	7/1/21-6/30/22	7/1/22-6/30/23	7/1/23-6/30/24	7/1/24-6/30/25
43	95	121	63	0	383
44	373.2	-283		-211	-570
45	308	61		157	280
46	206	70		126	40
47	375	-10		60	310
48	392	42		390	80
49	35	156		211	25
50	385	130		284	325
51	112	152		100	-229
52	288	216		280	82
53	380	217		0	398
54	379	235		187	-175
55	193.6	330		88	238
56	254	120		361	192
57		-387		-701	-212
58		184		35.28	-800
59		219		276	395
60		397.3		192	131
61		369		90	-934
62		239.5		347	192
63		186		192	87
64				n/a	364
65				160	369
66				187	-143
67				116	253
68				187	88
69				238	300
70				348	385
71				n/a	399
72				-153	10
73				0	68
74				23	64
75					24
76					91
77					300
78					106
79					294
80					0
81					395
82					124
83					187
84					39

CITY OF STAMFORD					
STORMWATER MANAGEMENT STANDARDS - EXEMPTION FORM					
	SQUARE FEET OF NEW IMPERVIOUS COVERAGE				
	7/1/20-6/30/21	7/1/21-6/30/22	7/1/22-6/30/23	7/1/23-6/30/24	7/1/24-6/30/25
85					237
86					389
87					56
88					392
89					-94
90					315
91					399
92					300
93					387
94					282
95					392
96					249
97					319
98					110
99					-20
100					111
101					-75
102					0
103					-2257
104					0
105					153
106					105
107					284
TOTAL	**5230.8**	**4792.34**	**1828**	**5779.28**	**4865**

CITY OF STAMFORD					
DIRECTLY CONNECTED IMPERVOUIS AREA TRACKING WORKSHEET					
	SQUARE FEET OF NEWLY CONNECTED OR REDUCED AREAS				
	7/1/20-6/30/21	7/1/21-6/30/22	7/1/22-6/30/23	7/1/23-6/30/24	7/1/24-6/30/25
1	169.00	-	-	-	180.00
2	-	-	(3,157.00)	2,147.00	36.00
3	-	-	n/a	533.00	-
4	-	-	-	(789.00)	-
5	n/a	n/a	-	121.00	957.00
6	n/a	(101.00)	(37,700.00)	173.00	122.00
7	(130.00)	n/a	3,867.00	-	-
8	n/a	n/a	-	-	(791.00)
9	-	n/a	(2,333.00)	(58.00)	-
10	-	-	120.00	(29.00)	(1,422.00)
11	n/a	n/a	n/a	(5,202.00)	(100,119.00)
12	-	-	(53.00)	27,879.00	(537.00)
13		n/a	-	(98,958.00)	-
14		n/a	293.00	n/a	-
15		-	(495.00)	-	(136.00)
16		(810.00)	(1,470.00)	247.00	-
17		n/a	n/a	-	-
18		-	-	(428.00)	201.00
19		148.00	n/a	240.00	91.00
20		-	-	-	(12,447.00)
21		-	(3,688.00)	n/a	(789.00)
22		-	(58.00)	(2,285.00)	(15,330.00)
23		(3,152.00)	n/a	(24.00)	-
24		(50.00)	-	n/a	120.00
25		n/a	-	-	1,227.00
26		(230.00)	(2,237.00)	-	
27		n/a	941.00	30.00	
28		n/a	n/a	(280.00)	
29			2,033.00	-	
30			n/a	71.20	
31			-	(1,758.00)	
32			3,166.00	(25.00)	
33			(7,377.00)	(263.00)	
34			(484.00)	n/a	
35			-	3,963.00	
36			(591.00)	977.00	
37			n/a	(1,313.00)	
38			-	850.00	
39			850.00	(591.00)	
40			n/a	(484.00)	
41			-	-	
42			n/a	3,166.00	

CITY OF STAMFORD					
DIRECTLY CONNECTED IMPERVOUIS AREA TRACKING WORKSHEET					
	SQUARE FEET OF NEWLY CONNECTED OR REDUCED AREAS				
	7/1/20-6/30/21	7/1/21-6/30/22	7/1/22-6/30/23	7/1/23-6/30/24	7/1/24-6/30/25
44			-	1,247.00	
45			-	941.00	
46			977.00	-	
47				58.00	
48				(502.00)	
49				(3,688.00)	
50				-	
51				(495.00)	
52				293.00	
53				120.00	
54				n/a	
55				(2,233.00)	
TOTAL	**39.00**	**(4,195.00)**	**(47,396.00)**	**(76,348.80)**	**(128,637.00)**

Appendix M

2024-25 Road Paving Program

10-Apr-24

STAMFORD UTILITY COORDINATION PROJECTS 2024

	Road	FROM	TO			
1	EIGTH ST	SUMMER	WEIL	on City paving list	1	
2	EIGTH ST	WEIL ST	WATERFORD LA	on City paving list	2	
3	WATERFORD LA	EIGHT ST	SEVENTH ST			1
4	WATERFORD LANE	SEVENTH ST	END OF RD			
5	SEVENTH ST	WEIL ST	SUMMER ST			
6	WEIL ST	EIGHT ST	SEVENTH ST			
7	SUMMER ST	EIGHT STREET	SEVENTH STREET			
8	SUMMER ST	SEVENTH ST	BRIDGE ST			
9	LEONARD ST	BELLTOWN RD	SUMMIT PL			
10	LEONARD ST	SUMMIT PL	CENTRAL ST			2
11	LEONARD ST	CENTRAL ST	DALE PL			
12	LEONARD ST	DALE PL	END OF RD			
13	Van Buskirk Ave	Cove Rd	103 Van Buskirk Ave	on City paving list	3	
14	Sachem Pl (1)	Van Buskirk Ave	Uncas Rd			
15	Uncas Rd	Sachem Pl	Wasussee La			3
16	Wascussee La	Uncas Rd	Sachem Pl			
17	Wascussee La East	Uncas Rd	Sachem Pl			
18	Sachem Pl (2)	Wascusee La	41 Sachem Pl			
18	Willowbrook Ave	Cove Rd	Hale St			
20	Hale St	Willowbrook Ave	Ferro Dr			4
21	Willowbrook Pl	Hale St	34 Willowbrook Pl			
22	Ferro Dr	Hale St	26 Ferro Dr			
23	Kirkham Pl	Church St	Union St	on City paving list	4	
24	Union St	Kirkham Pl	Hope St			5
25	Elm Tree Pl	Union St	Church St			
26	Paragon Ln	Washington Blvd	29 Paragon Ln	on City paving list	5	6
27	Washington Blvd	Forest Lawn Ave	Cold Spring Rd			
28	Third St	Bedford St	Morgan St			
29	Morgan St	Third St	Fifth St			7
30	Fourth St	Bedford St	Revonah Ave	on City paving list	6	
31	Old Colony Rd	Bouton St W	139 Old Colony Rd	on City paving list	7	8
32	Urban St	Bedford St	Revonah Ave	on City paving list	8	9
33	Revonah Ave	Revonah Cir	Chester St			
34	RED BIRD RD	PEPPER RIDGE RD	END OF RD	on City paving list	9	
35	IDLEWOOD DR	IDLEWOOD PL	ROBINSON DR			10
36	IDLEWOOD DR	ROBINSON DR	BERRIAN RD			
37	Bridge St			on City paving list	10	
38	Woodmere Rd					11
39	Pellom Pl					
40	Pell Pl					

City Utility coordination - minimal drainage scope	30
On City paving list - full drainage scope	10

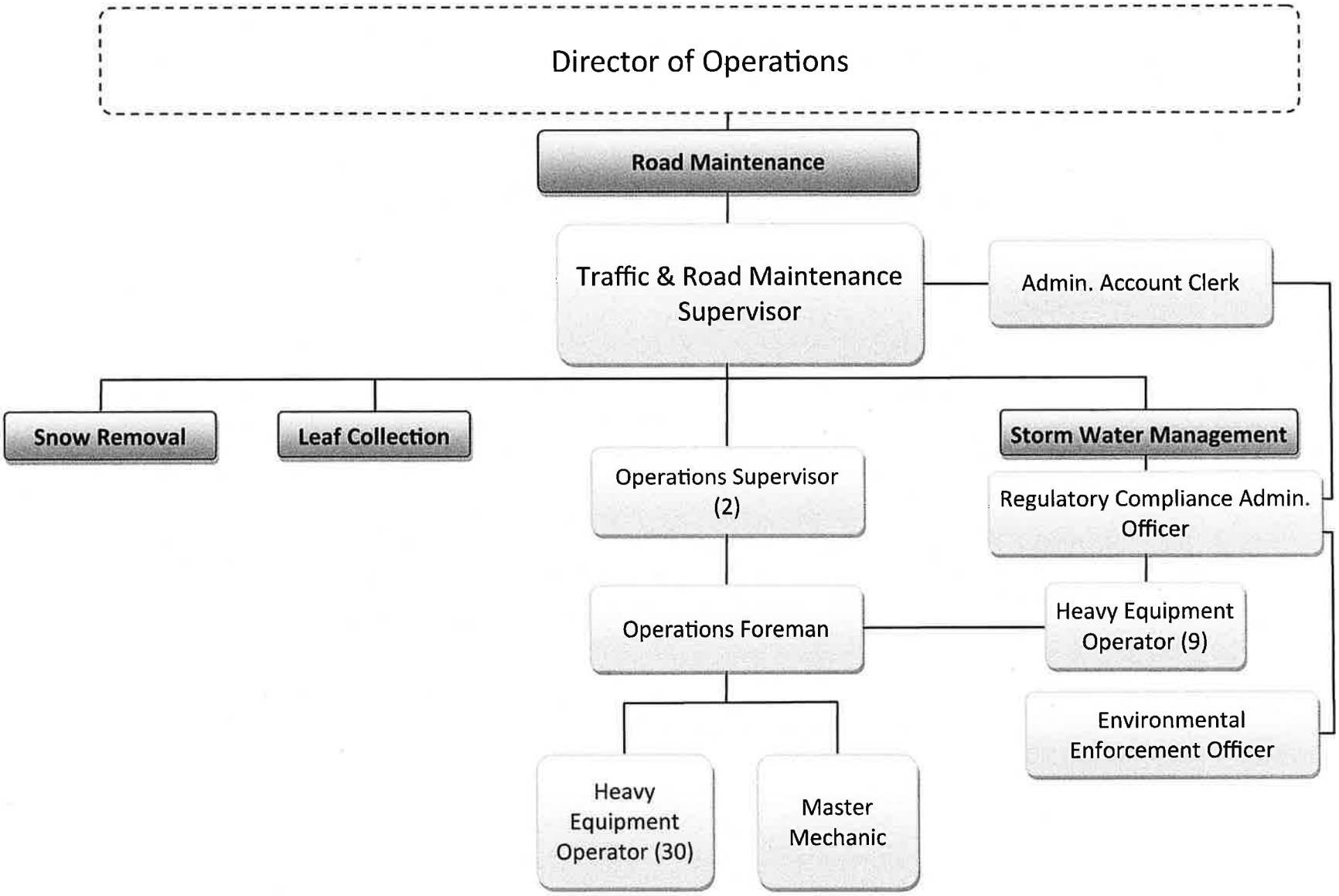
Stamford Paving 2024-2025

1	Silver St
2	Burwood Ave
3	Beal St
4	Melrose Pl
5	Betts Ave
6	Warshaw Pl
7	Jackson St
8	Taylor St
9	Rose Park Ave
10	Nobile St
11	Depinedo Ave
12	Acosta St
13	Relay Pl
14	Pine St
15	Oak Hil St
16	Woodcliff St
17	Hubbard Ct
18	Ivy St
19	Vuono Dr
20	Golf View Circle

Appendix N

2024-25 SMD Road Maintenance

City of Stamford
Office of Operations
Road Maintenance

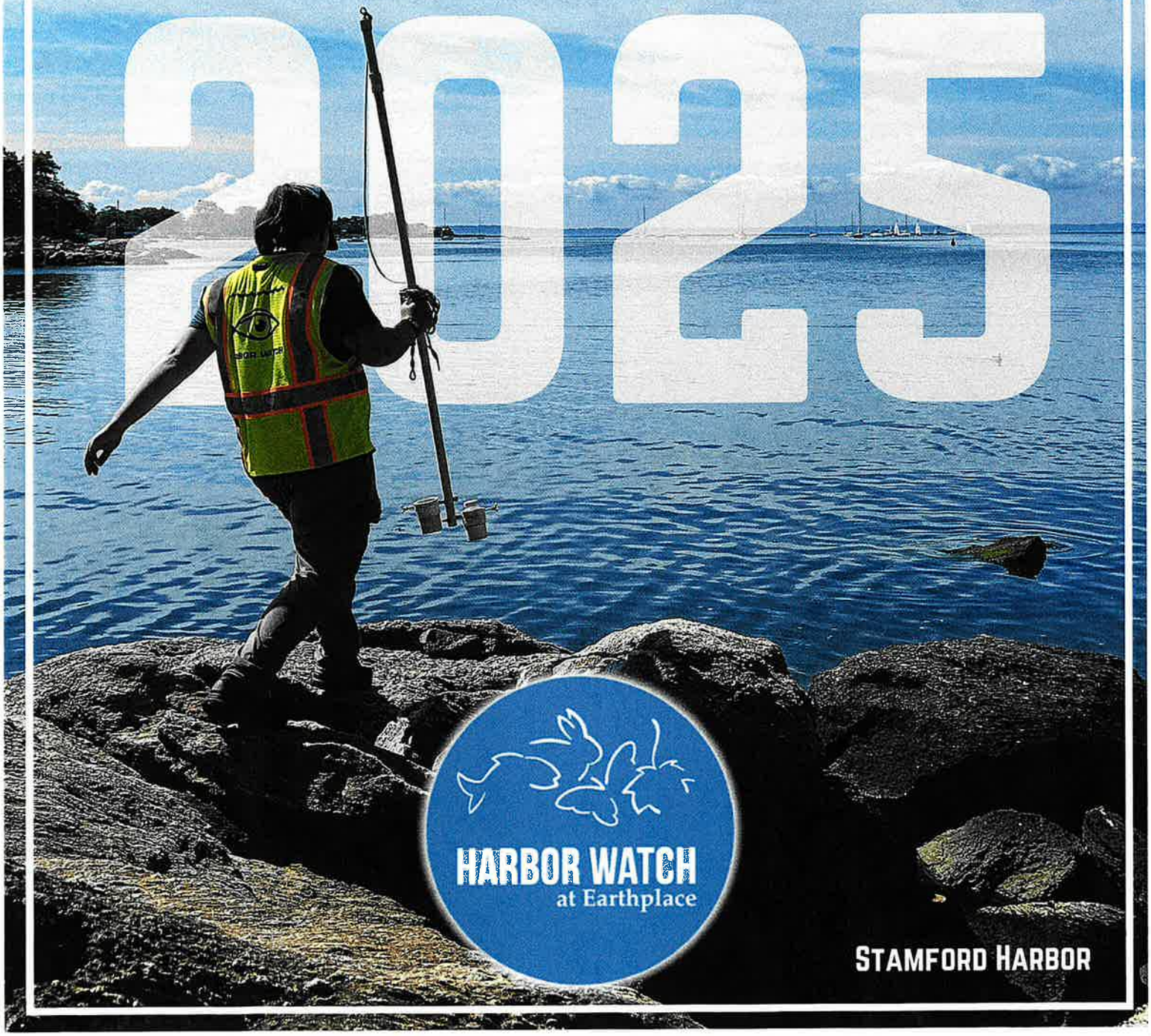


Appendix O

2024-25 Harbor Watch Rivers Report

SOUTHWESTERN CT WATER QUALITY REPORT

2025



HARBOR WATCH
at Earthplace

STAMFORD HARBOR

Contents

About Harbor Watch **2**
Acknowledgements **2**
Introduction **3**
Methods Summary **4**
Results and Discussion **5**
A. Ash Creek Watershed 11
B. Bruce Brook 15
C. Fivemile River 19
D. Milford Harbor Watershed 23
E. New Creek 25
F. Noroton River 29
G. Norwalk River Watershed 33
H. Pequonnock River Watershed 38
I. Rippowam River Watershed 42
J. Sasco Brook Watershed 47
How Can You Help? **51**
Interested in learning more? **52**
Citations **53**
Key Terms and Information **54**
QAPP Deviation Summary **55**

About Harbor Watch

The mission of Harbor Watch is to improve water quality and ecosystem health in Connecticut.

Each day we strive to reach this goal through research in the lab and field, collaboration with our municipal partners, and education of students and the public. Harbor Watch addresses pollution threats to Long Island Sound and educates the next generation of scientists through hands-on research and experiential learning. As part of the larger organization of Earthplace, the work performed by Harbor Watch also supports the mission of Earthplace to blend science, conservation, and education into pathways for learning about nature and the environment with access for all.

Since its inception, Harbor Watch monitored hundreds of sites for a variety of physical and biological parameters and has trained over 1,000 high school students, college interns, and adult volunteers in the work of protecting and improving the biological integrity of Long Island Sound.

Visit www.harborwatch.org for more information!

This report includes data on:
Ash Creek Watershed (Ash Creek, Rooster River, Londons Brook, Horse Tavern Brook), Bruce Brook, Fivemile River, Milford Harbor (Milford Harbor, Gulf Pond), New Creek, Noroton River, Norwalk River Watershed (Norwalk Harbor, Norwalk River, Ridgefield Brook), Pequonnock River Watershed (Pequonnock River, Island Brook), Rippowam River Watershed (Stamford Harbor, Rippowam River), and Sasco Brook Watershed (Sasco Brook, Great Brook).

This report should be cited as:
N.C. Spiller, K.T. Burns, M.K. Donato, and M. Olavarria. 2025. Water Quality Report 2025. Harbor Watch, Earthplace, Inc. 1-55p.

Acknowledgements

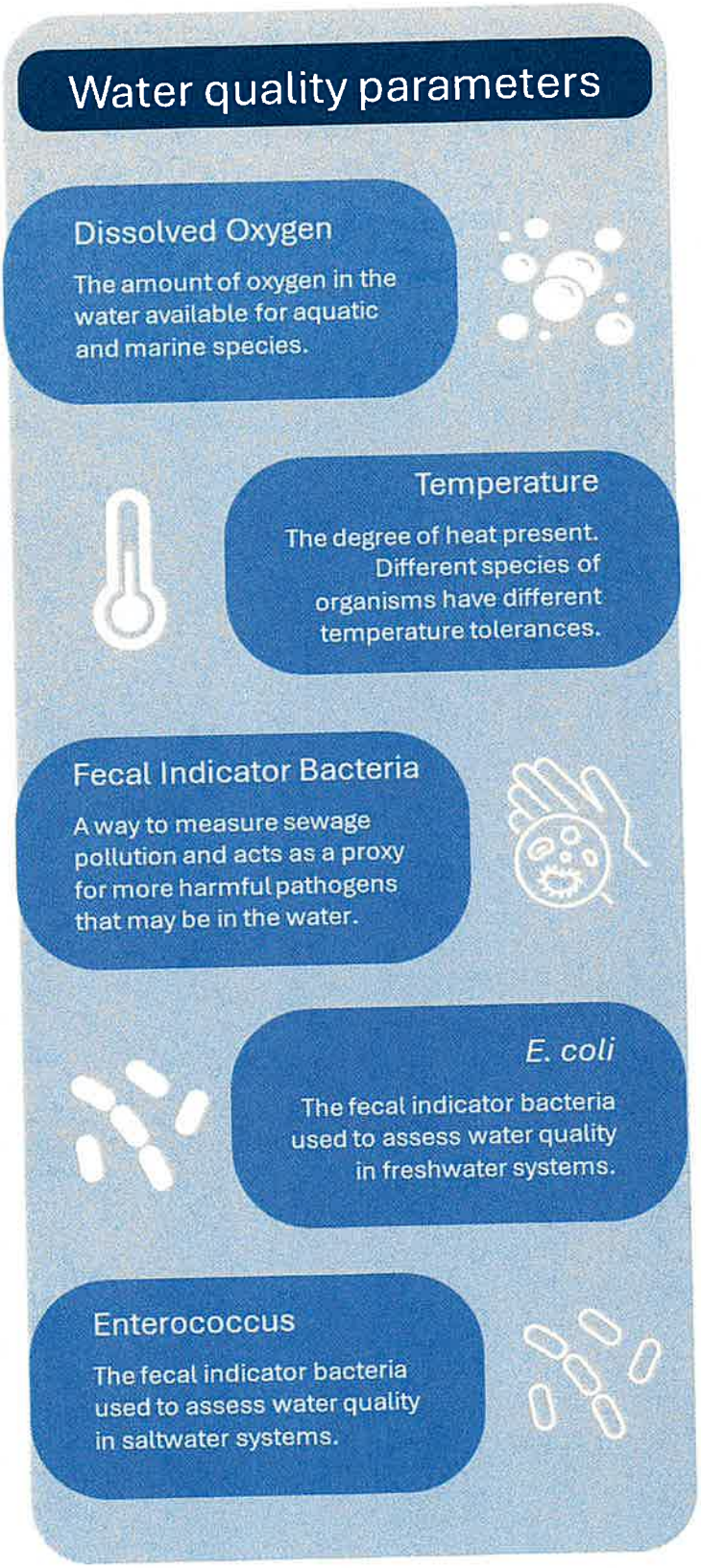
The authors would like to thank Abbey Baldwin, Adrian Corelli, Alyssa Lalli, Aria Olavarria, Amanda Stowe, and Delaney Sullivan for their assistance with data collection and laboratory analysis. Funding for the research presented here was generously provided by the City of Bridgeport, City of Norwalk, City of Stamford, Elizabeth Raymond Ambler Trust, King Industries, Long Island Sound Partnership, New Canaan Community Foundation, Norwalk Mayor's Water Quality Committee, Norwalk River Watershed Association, Town of Fairfield, Town of Ridgefield, Town of Stratford, Town of Westport, Town of Wilton, and Westport Shellfish Commission. Additional support was provided by the generosity of individual donors. We thank our funders for their continued support, without which this work would not be possible!

Introduction

Harbor Watch is a water quality research and education program based out of Earthplace in Westport, CT. Our mission is to improve water quality and ecosystem health in Connecticut.

Harbor Watch began conducting instream monitoring of local rivers and embayments in 1990. To bolster the quality of data being collected, Harbor Watch created standard operating procedures, EPA and State approved quality assurance project plans, and eventually built a state-certified laboratory at Earthplace. Over the years, the range of monitoring locations grew from watersheds local to Earthplace such as Sasco Brook, Saugatuck River, and Norwalk River to watersheds across the southwest corner of Connecticut spanning from Greenwich to Newtown to Milford. In 2022, Harbor Watch began partnering with the Interstate Environmental Commission and CT DEEP to establish a coordinated Pathogen Monitoring Network aimed at developing a pathway for state and local partners to identify data gaps and prioritize areas where new data should be collected around Long Island Sound and connecting that to monitoring groups who can do the boots-on-the-ground work. The network functions under an EPA approved quality assurance project plan and provides monitoring groups with field equipment and laboratory support to collect high quality data.

In this report we present data collected from May through September 2025 in 19 waterways (four of which were supported by the Pathogen Monitoring Network). The parameters monitored include dissolved oxygen, temperature, conductivity (not analyzed), and fecal indicator bacteria.



Methods Summary

Each river was visited approximately twice per month from May through September for a goal of ten sampling days per river. Sites were selected based on access and representativeness of the river, with effort made to space sites evenly throughout the length of the river being studied. Monitoring was carried out under a Quality Assurance Project Plan approved by CT DEEP in March 2025 (QA Tracking #25001) and the Pathogen Monitoring Network Quality Assurance Project Plan (QA Tracking #23091) addendum approved in May 2025.

Monitoring teams left Earthplace in Westport, CT in the morning to begin sampling and would return within 2-4 hours. Each team was comprised of fully trained Harbor Watch staff or student interns, sometimes accompanied by volunteers. At each site, a water sample was collected and kept on ice.

Water temperature, dissolved oxygen, and conductivity were measured at each site using a YSI Pro2030 meter.

Upon returning to the Harbor Watch laboratory, the water samples were analyzed for total coliform and *E. coli* and/or enterococci using enzyme substrate methods set forth in Standard Methods (SM9223B). Indicator bacteria concentrations were evaluated using the criteria published in the CT DEEP Surface Water Quality Standards on 10/10/13 (Table 1). The monitoring conducted here is for general understanding of waterway health, therefore the "all other recreational uses" criteria will apply for analyses in this report. For additional information on methodology, please refer to the approved QAPP. A summary of deviations from the QAPP can be found on page 55 of this report.

Table 1. CT DEEP criteria for *E. coli* and enterococci levels as applied to recreational use, effective 10/10/13. Highlighted cells represent criteria used by Harbor Watch in this report.

Designated Use	Indicator	Criteria
Designated Swimming	*E. coli*	Geomean less than 126/100 mL Single Sample Maximum 235/100 mL
Non-designated Swimming	*E. coli*	Geomean less than 126/100 mL Single Sample Maximum 410/100 mL
All Other Recreational Uses	*E. coli*	Geomean less than 126/100 mL Single Sample Maximum 576/100 mL
Designated Swimming	Enterococci	Geomean less than 35/100 mL Single Sample Maximum 104/100 mL
All Other Recreational Uses	Enterococci	Geomean less than 35/100 mL Single Sample Maximum 500/100 mL

Results and Discussion

From May through September 2025, **19 waterways** (categorized into 10 watersheds) were monitored by Harbor Watch across **12 towns** in Southwestern Connecticut (Table 2). One hundred and eight unique sampling locations were evaluated a minimum of eight times each (unless otherwise stated in each section). Many of these rivers did not meet the state criteria for acceptable bacteria concentrations and are likely acting as conduits for sewage pollution to Long Island Sound.

The 2025 season experienced a shift in weather patterns that impacted local water quality. In May, there were more frequent and larger precipitation events compared to 2024 (Figure 1). This resulted in more runoff entering our waterways and higher than typical bacteria concentrations at the start of the monitoring season. This was followed by drier conditions from June through September, mixed with extreme heat; as a result, we observed low dissolved oxygen levels and waterways drying up. The few times it did rain, short, high intensity storms dumped water on very dry ground, preventing it from penetrating the soil, directly washing all the pollutants into our waterways unfiltered (Pease, 2020).

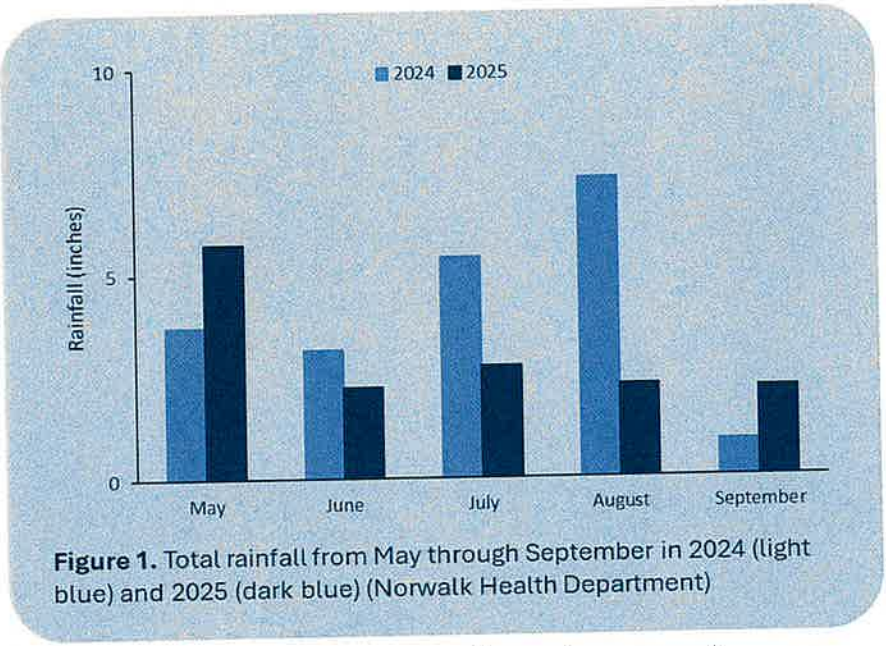


Figure 1. Total rainfall from May through September in 2024 (light blue) and 2025 (dark blue) (Norwalk Health Department)

Milford Harbor and Norwalk Harbor tied for fewest exceedances of the single sample maximum

Indicator bacteria: In years prior, our big-picture analysis focused on the indicator bacteria geometric mean of each sampling location, the preferred criteria by CT DEEP. Unfortunately, this year presented us with an increased number of sites with sampling constraints (e.g., dried up waterways, flow too low or stagnant to sample, or construction). Nine sampling locations (see QAPP Deviation Report on page 55) had less than the minimum eight samples needed to accurately analyze the data using a geometric mean. However, we were able to use the secondary indicator bacteria criterion, the single sample maximum, to understand the relative water quality within each watershed and compare results across towns because this method evaluates the individual samples collected. Milford Harbor and the Norwalk River watershed had the fewest percentage of samples that exceeded the CT DEEP single sample maximum criterion for bacteria. Bruce Brook had the highest percentage of samples that exceeded the CT DEEP single sample maximum criterion for bacteria (Table 3).

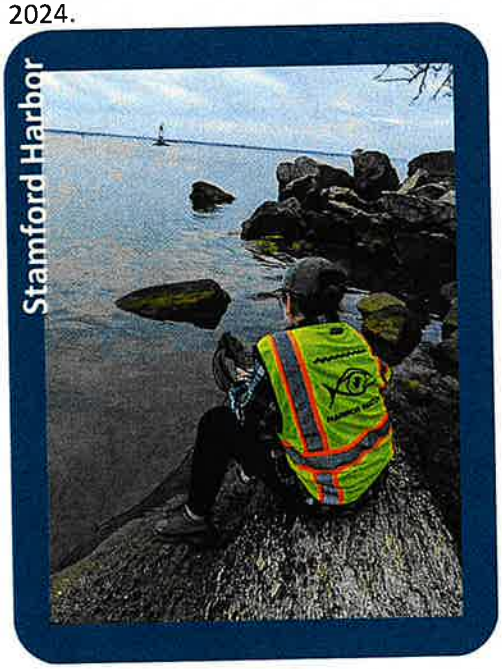
Table 2. Percentage of samples collected in each municipality that exceeded the CT DEEP single sample maximum for indicator bacteria. *Sites that are located at the border of two towns have been included in the count for each town.

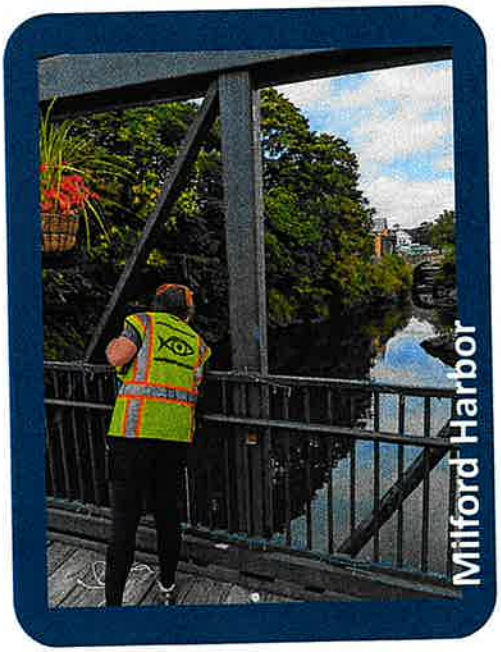
Town	Number of samples collected	% Falling SSM Criteria	Waterways
Bridgeport	130	79%	Ash Creek, Bruce Brook, Pequonnock River
Darien	68	26%	Fivemile River, Noroton River
Fairfield	158	43%	Ash Creek, Sasco Brook
Milford	60	17%	Milford Harbor
New Canaan	125	21%	Fivemile River, Noroton River, Rippowam River
Norwalk	153	19%	Fivemile River, Norwalk River
Ridgefield	50	10%	Norwalk River
Stamford	161	40%	Noroton River, Rippowam River
Stratford	82	84%	Bruce Brook
Trumbull	28	32%	Ash Creek, Pequonnock River
Westport	126	37%	New Creek, Sasco Brook
Wilton	30	13%	Norwalk River

Table 3. Percentage of samples collected in each watershed that exceeded the CT DEEP single sample maximum for indicator bacteria.

Watershed	Number of Samples Collected	% Falling SSM Criterion	Towns
Ash Creek Watershed	112	56%	Bridgeport, Fairfield, Trumbull
Bruce Brook	82	84%	Bridgeport, Stratford
Fivemile River	78	19%	New Canaan, Norwalk
Milford Harbor	60	17%	Milford
New Creek	46	50%	Westport
Noroton River	79	24%	Darien, New Canaan, Stamford
Norwalk River Watershed	206	17%	Norwalk, Ridgefield, Wilton
Pequonnock River	76	68%	Bridgeport, Trumbull
Rippowam River	147	39%	New Canaan, Stamford
Sasco Brook Watershed	108	33%	Fairfield, Westport

In the 19 waterways studied, 88% of sites with eight or more sampling events exceeded (i.e., had concentrations indicative of fecal contamination) the CT DEEP geomean criterion (<126 MPN/100 mL for freshwater sites or <35 MPN/100 mL for estuarine sites) (Figure 2), and 92% of sites exceeded the secondary single sample maximum criterion (576 MPN/100 mL for freshwater sites or 500 MPN/100 mL) for estuarine sites at least once during the sampling season (Figure 3). Thirty-six percent of sampling locations exceeded the CT DEEP single sample maximum 1-25% of the time, indicating that only one or two sampling events exceeded the maximum during the monitoring season (assuming that 8-10 samples were taken per site). This is likely correlated to wet weather events when fecal matter enters our waterways untreated. Sources may include but are not limited to animal and pet waste runoff, failing septic systems, and combined sewer systems having to use their overflow discharge point. Of the 994 samples that were analyzed for indicator bacteria this monitoring season, only 38% of these samples exceeded the CT DEEP single sample maximum criteria. These percentages are similar to what was observed in 2024.





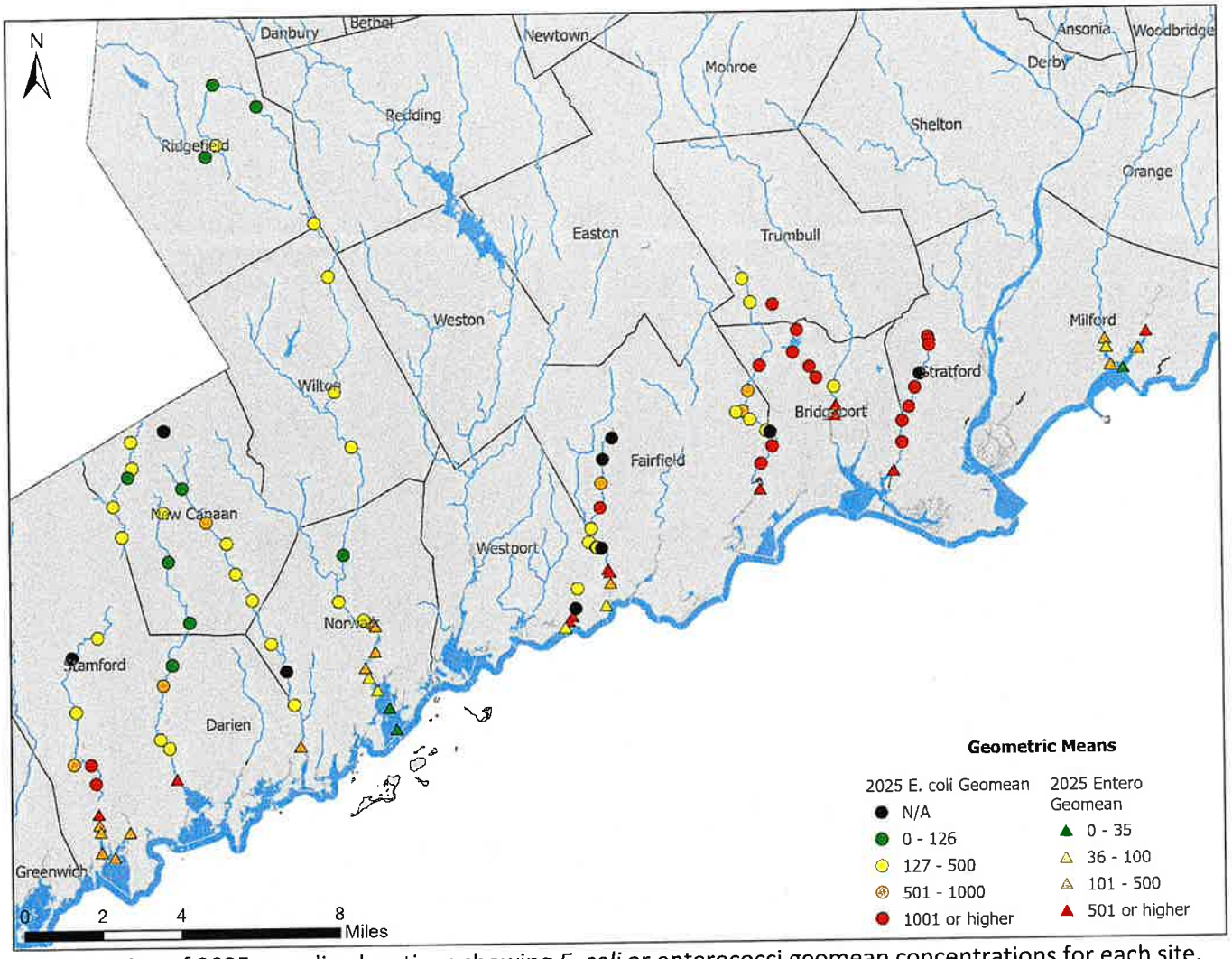


Figure 2. Map of 2025 sampling locations showing *E. coli* or enterococci geomean concentrations for each site. The bacteria concentrations for each site were compared to the state criteria for recreational waters (Table 1). Sites in green had a geomean that met CT DEEP criteria (less than 126 MPN/100 mL for *E. coli* or less than 35 MPN/100 mL for enterococci). The sites in black did not have enough data to generate a geomean.

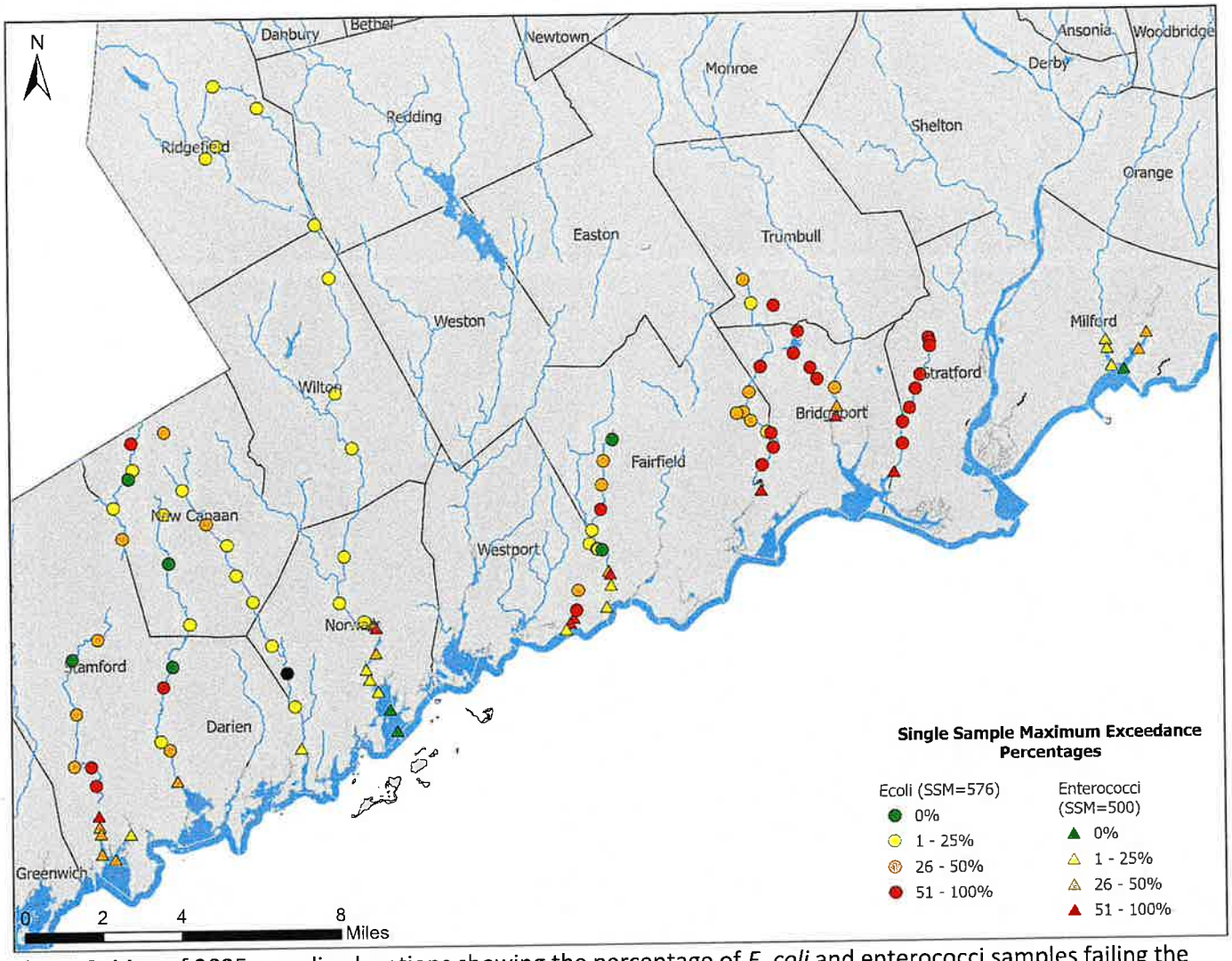


Figure 3. Map of 2025 sampling locations showing the percentage of *E. coli* and enterococci samples failing the CT DEEP single sample maximum criteria for recreational waters at each site. Sites in green had none of their samples exceeding 576 MPN/100 mL for *E. coli* and 500 MPN/100 mL for enterococci. The sites in black did not have any samples collected due to construction during the monitoring season.

Dissolved Oxygen: The CT DEEP criteria for dissolved oxygen is set at a minimum of 5 mg/L anytime for freshwater and 3 mg/L acutely for saltwater (State of Connecticut Department of Energy and Environmental Protection [CT DEEP], 2015a). Of all observed dissolved oxygen readings, 17% did not meet the CT DEEP minimum criteria in 2025. This is an increase over the 10% of all samples in 2024. The Pequonnock River had the highest frequency of low dissolved oxygen readings with 43% of observed readings below 3 mg/L (Figure 4). Prolonged periods of low dissolved oxygen can be harmful to marine and aquatic organisms, potentially leading to stress and fish kills (Sinclair, 2023). Low dissolved oxygen readings are often the result of several interacting factors. These factors include low flow (which was observed at many sampling locations due to the nature of the site), periods of low rainfall, decomposition of organic matter, and temperature (cold water can hold more dissolved oxygen than warm water (Environmental Protection Agency [EPA], 2015); therefore it is common to see a decrease in dissolved oxygen concentrations as the monitoring season progresses into the heat of the summer, where water temperatures increase).

17% of dissolved oxygen readings did not meet CT DEEP recommended minimums

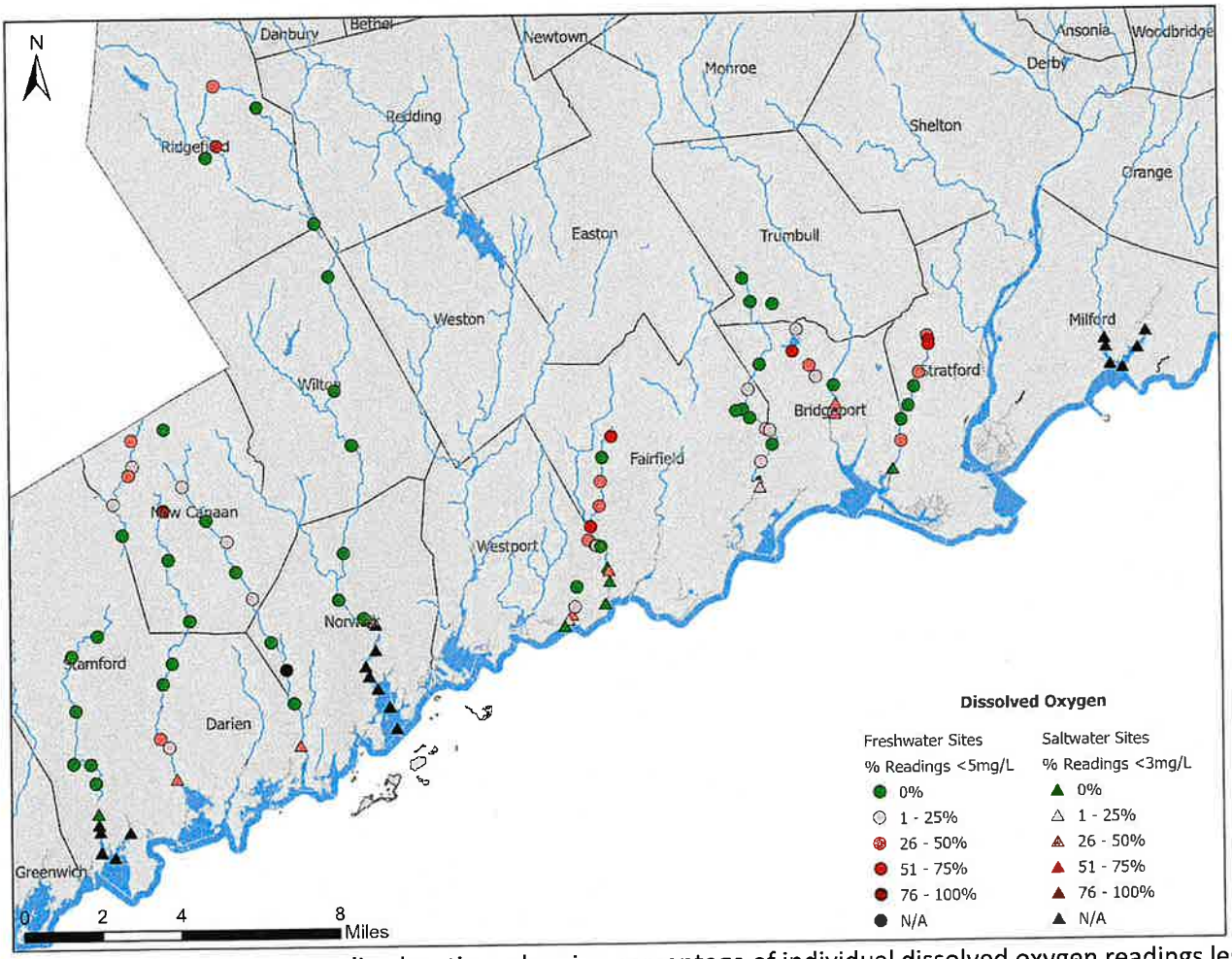
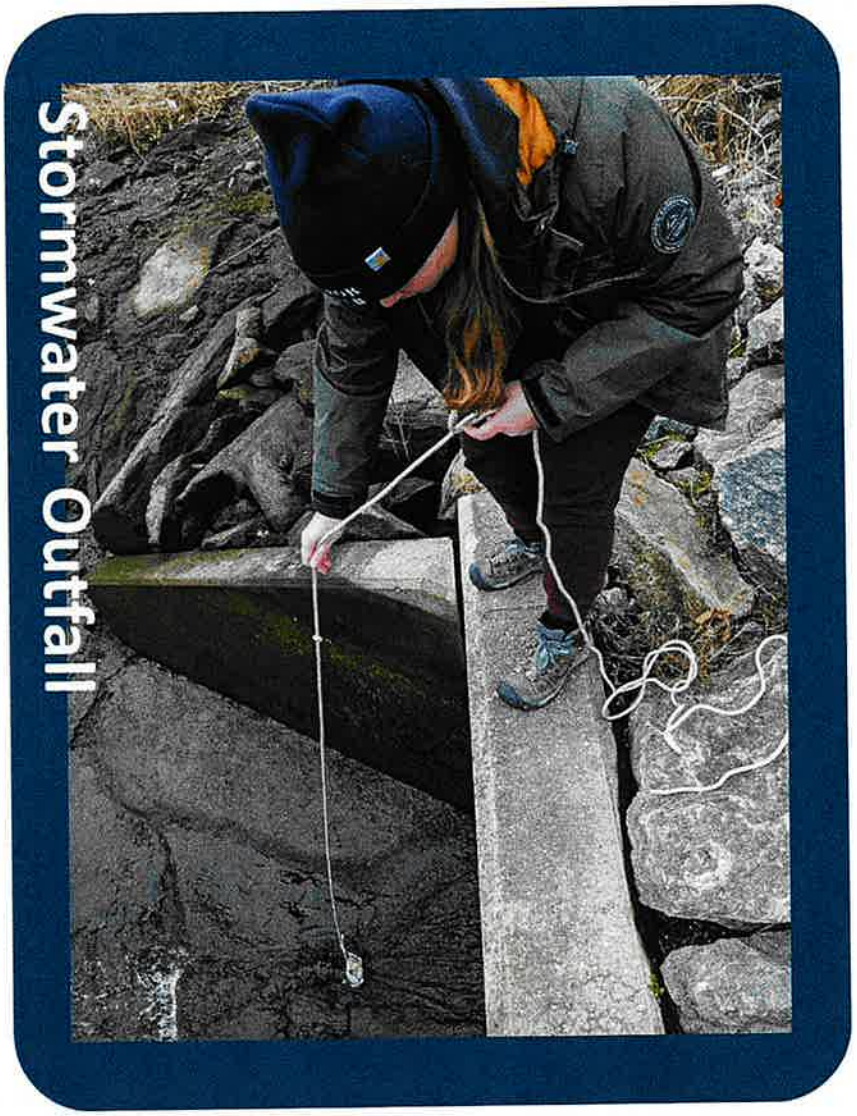


Figure 4. Map of 2025 river sampling locations showing percentage of individual dissolved oxygen readings less than the CT DEEP minimum criteria of 5 mg/L anytime for freshwater and 3 mg/L acutely for saltwater sites. The sites in black did not have any dissolved oxygen data collected during the monitoring season.

Track-down: Harbor Watch aims to better understand the ecological health of our watersheds by monitoring dissolved oxygen, conductivity, water temperature, and indicator bacteria concentrations (*E. coli* in freshwater and enterococci in brackish or saltwater), and to make these data available for use by interested stakeholders. A secondary objective is to use the data collected to assess where sewage pollution sources may be located so that we can conduct further investigation. Once sources of sewage pollution are identified, Harbor Watch works with our municipal partners in Conservation, Public Works, and Water Pollution Control Authorities to ensure that the issue is fixed. Track-down surveys were conducted on projects in Bridgeport, New Canaan, Stamford, and Westport in 2025. Track-down surveys are ongoing and will continue year-round as field conditions allow. Our process of repetitive bacteria testing has a history of success in identifying point sources of pollution, such as leaking sanitary sewer lines, broken sewer laterals, and pipes illegally hooked into the storm water system. As a way to boost our investigations, when funding allows, we are also adding pharmaceutical and microbial source tracking (also commonly referred to as DNA testing) testing to help identify potential sources such as human, horse, cow, or avian. In 2025, we conducted nine pollution track-down projects and our municipal partners are working alongside us to isolate and remove any sources that are uncovered as testing continues. The frequent incidence of failing bacteria concentrations observed over this monitoring season (Figure 2, Table 1) indicates that there is still much work to be done to improve the overall water quality of the Long Island Sound watershed. We look forward to tackling these issues head on with our partners!

Track-down projects in four towns in Fairfield County



13 sites tested for DNA markers

In the following sections, we present a data summary of each of the 10 watersheds monitored by Harbor Watch during 2025.

F. Noroton River

The Noroton River watershed encompasses portions of Stamford, Darien, and New Canaan, CT. The watershed is approximately 7,000 acres or 11 square miles (CT DEEP, 2022). The river begins in New Canaan and flows south, forming the border of Stamford and Darien, until it discharges into Holly Pond. The land use along the river is a mixture of residential and light commercial. Harbor Watch has monitored the Noroton River annually since 2016.

Table F1. Site locations for Noroton River.

Site Name	Site location notes
Noroton 8	West Road and Greenley Road intersection
Noroton 7	209 Frogtown Road
Noroton 5	47 Jelliff Mill Road
Noroton 4	137 Woodway Road
Noroton 3	Camp Avenue
Noroton 2	668 Connecticut 106
Noroton 1.75	West Avenue
Noroton 1	1308 E. Main Street

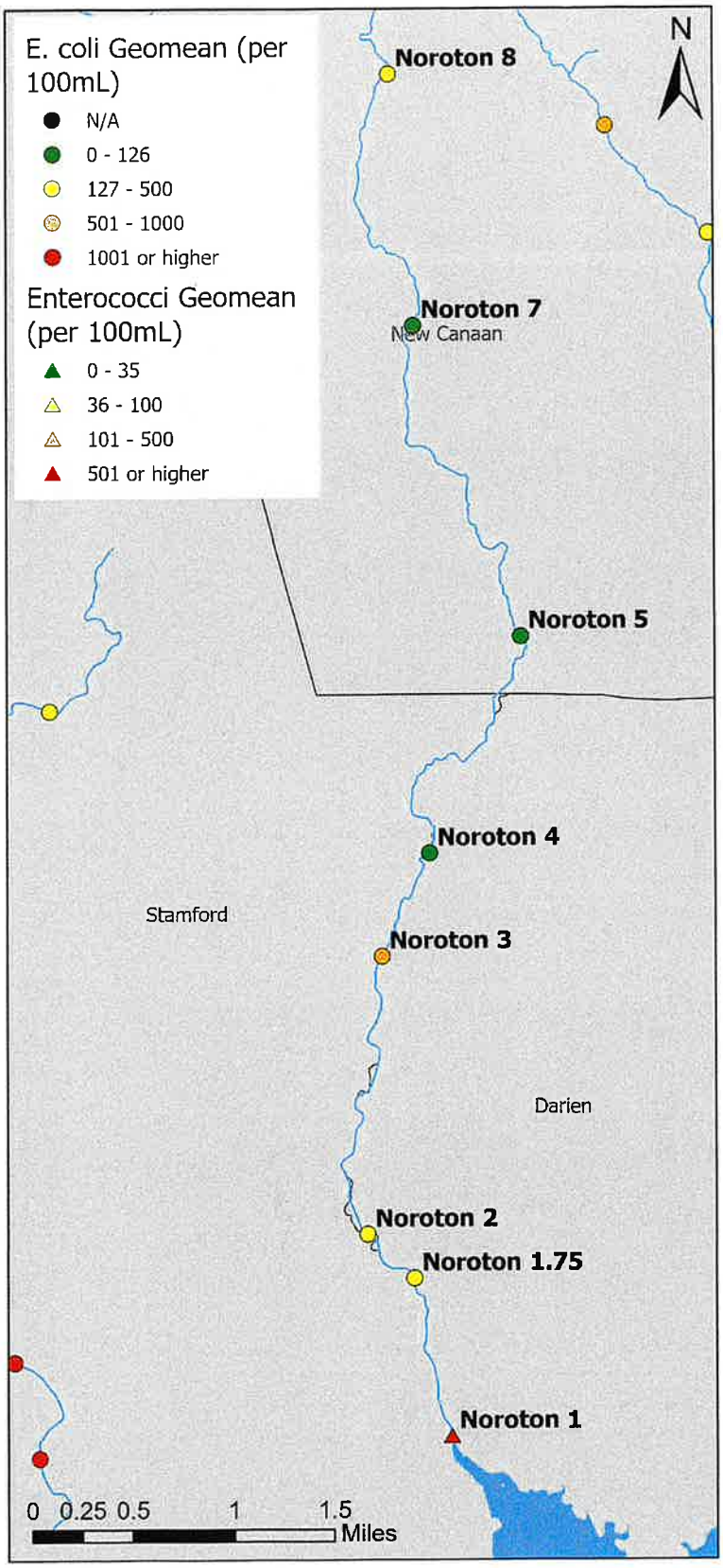


Figure F1 (right). Map of indicator bacteria, *E. coli* or enterococci, geomean concentrations at each site in the Noroton River in 2025. Unlabeled sites are Fivemile River and Rippowam River (see sub-section C and I respectively).

Indicator bacteria: In 2025, data were collected on ten days. Bacteria concentrations at five of the eight sites in Noroton River exceeded the CT DEEP geomean criteria (Figure F1, Table F2). Additionally, 24% of all samples processed exceeded the CT DEEP single sample maximum criteria (Table F3). Annual mean *E. coli* concentrations dropped slightly compared to the increasing trend observed since 2020 (Figure F2).

Table F2. Noroton *E. coli* and enterococci geomeans and percentage of samples exceeding the CT DEEP single sample maximum. Blue cells represent sites that exceeded the CT DEEP geomean criteria.

Site	Indicator Bacteria	Geomean	Exceed SSM
Noroton 8	*E. coli*	238	22%
Noroton 7	*E. coli*	65	0%
Noroton 5	*E. coli*	39	10%
Noroton 4	*E. coli*	101	0%
Noroton 3	*E. coli*	691	70%
Noroton 2	*E. coli*	132	10%
Noroton 1.75	*E. coli*	464	30%
Noroton 1	Enterococci	517	50%

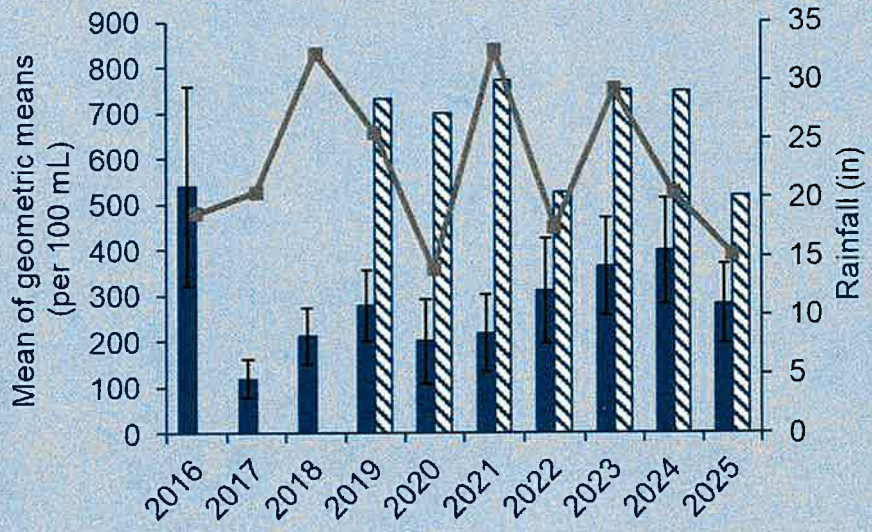
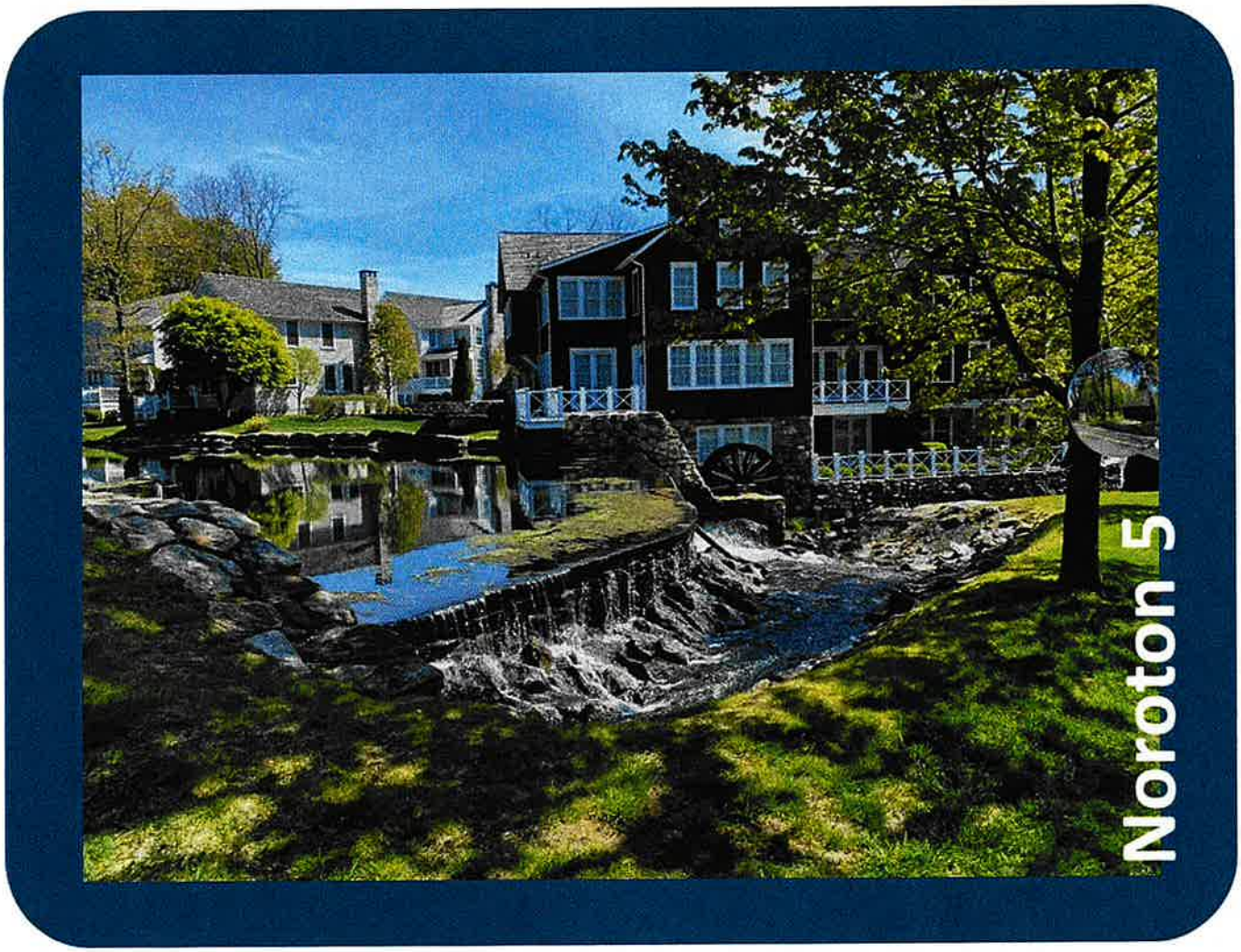


Figure F2. Mean of freshwater site geomeans (solid bars; *E. coli*) and saltwater site geomeans (striped bars; enterococci) from 2016-2025 in Noroton River and total rainfall from May through September each year (grey squares and line).

Table F3. Noroton River *E. coli* and enterococci concentrations (MPN/100mL). Rainfall data (inches) gathered from the Norwalk Health Department website (Norwalk Health Department, n.d.).

Site	Indicator Bacteria	5/13/2025	6/3/2025	6/17/2025	7/9/2025	7/24/2025	8/4/2025	8/19/2025	8/28/2025	9/9/2025	9/22/2025
Noroton 8	*E. coli*	192	488	770	1,120	248	No Data	210	71	249	33
Noroton 7	*E. coli*	52	43	57	517	41	150	45	40	66	26
Noroton 5	*E. coli*	48	81	50	1,203	5	108	5	3	22	193
Noroton 4	*E. coli*	50	72	18	517	238	19	172	411	108	96
Noroton 3	*E. coli*	127	193	1,986	1,961	582	1,159	1,298	1,034	293	977
Noroton 2	*E. coli*	172	113	99	> 2,420	91	21	70	249	276	38
Noroton 1.75	*E. coli*	185	166	231	> 2,420	1,011	496	498	321	613	548
Noroton 1	Enterococci	185	120	213	> 24,196	537	717	738	109	1,691	228
Rain Accum. (48 hours prior)		0.00	0.00	0.07	0.47	0.00	0.00	0.00	0.00	0.04	0.00



Dissolved oxygen and water temperature: Dissolved oxygen readings varied at each site throughout the watershed (Figure F3). While the majority of individual dissolved oxygen readings met the CT DEEP minimum criteria, 12 readings were observed below 5 mg/L at Noroton 8, Noroton 2, and Noroton 1.75, and five readings were observed below 3 mg/L at saltwater site Noroton 1. Low flow was the primary reason for low dissolved oxygen concentrations at Noroton 8. Higher water temperatures and limited precipitation may be contributing to lower concentrations at the other sites (Figure F4).

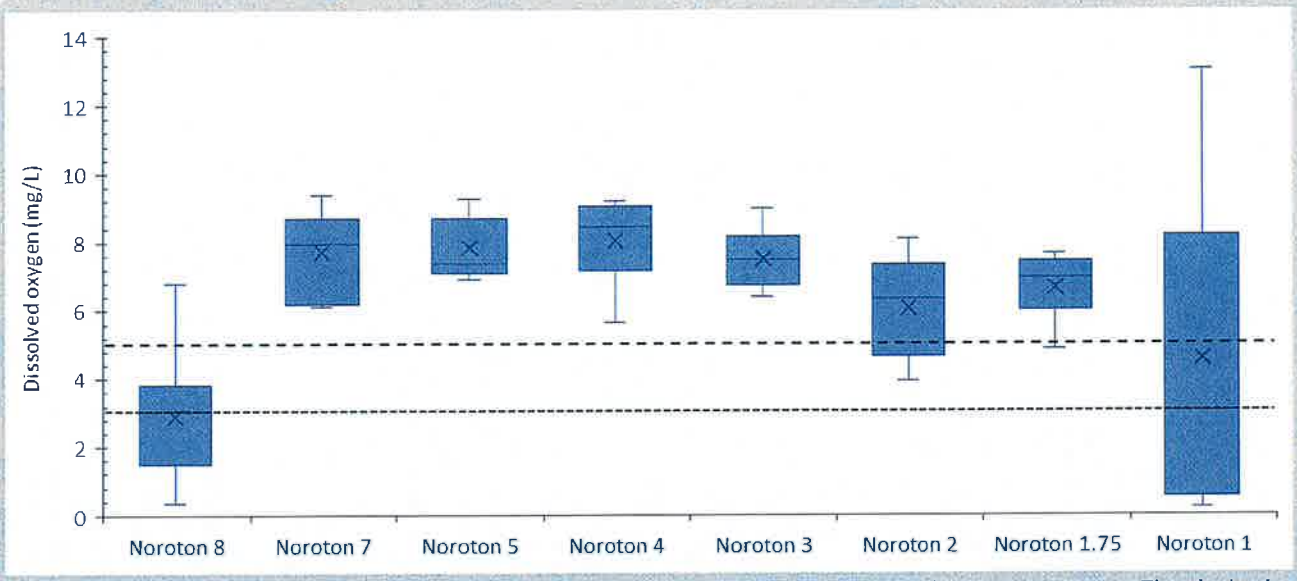


Figure F3. Box plot of dissolved oxygen concentrations at each sampling site in the Noroton River. The dashed blue line represents the CT DEEP minimum criterion for dissolved oxygen in freshwater, which is 5 mg/L. The dotted blue line represents the CT DEEP minimum criterion for dissolved oxygen in saltwater, which is 3 mg/L. The only saltwater sampling site in this watershed is Noroton 1.

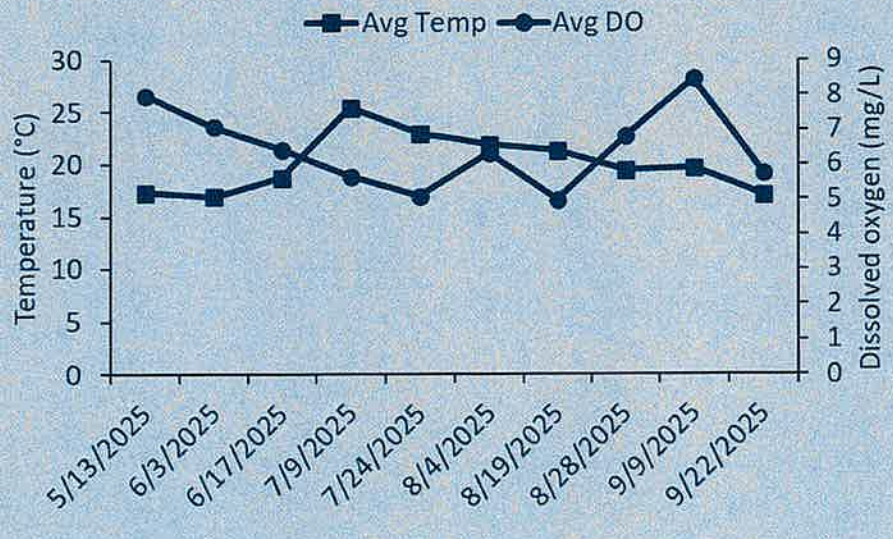


Figure F4. Mean water temperature and mean dissolved oxygen of all sites on each sampling date in the Noroton River.

I. Rippowam River Watershed

(Rippowam River and Stamford Harbor)

The Rippowam River watershed covers 37.5 square miles from the New York State border, through parts of New Canaan, Ridgefield, and Stamford, CT, where it discharges into Stamford Harbor. The southern portion of the basin is commercial, industrial, and urban and the northern portion is largely suburban, and forested (CT DEEP, 2011). This river is also known locally as the Mill River. Harbor Watch has monitored portions of the Rippowam River annually since 2017; after 2 years of only monitoring the lower portion, we returned to monitoring the entire system in 2025. In 2024, Harbor Watch began monitoring indicator bacteria data in Stamford Harbor at the prioritization of CT DEEP who had insufficient data to conduct assessments. This work was continued into 2025. Data for the harbor was collected as part of the Pathogen Monitoring Network.

Table I1. Site locations for the Rippowam River watershed.

Site Name	Site location notes
Rippowam 12	Oenoke Ridge
Rippowam 11.5	West Road
Rippowam 11	Dans Hwy
Rippowam 10	Ponus Ridge Road
Rippowam 9	Cascade Road
Rippowam 8	Wire Mill Rd & High Ridge Rd intersection
Rippowam 7	Cedar Heights Road
Rippowam 5	Long Ridge Road
Rippowam 4	Cold Spring Road
Rippowam 3	Bridge Street
Rippowam 2	W North Street
Rippowam 0.5	Richmond Hill Avenue
Stamford Harbor West 3	Pulaski Street
Stamford Harbor West 2	Atlantic Street Dock
Stamford Harbor West 1	Soundwaters Dock
Stamford Harbor East 2	Czescik Marina
Stamford Harbor East 1	Kosciuszko Park

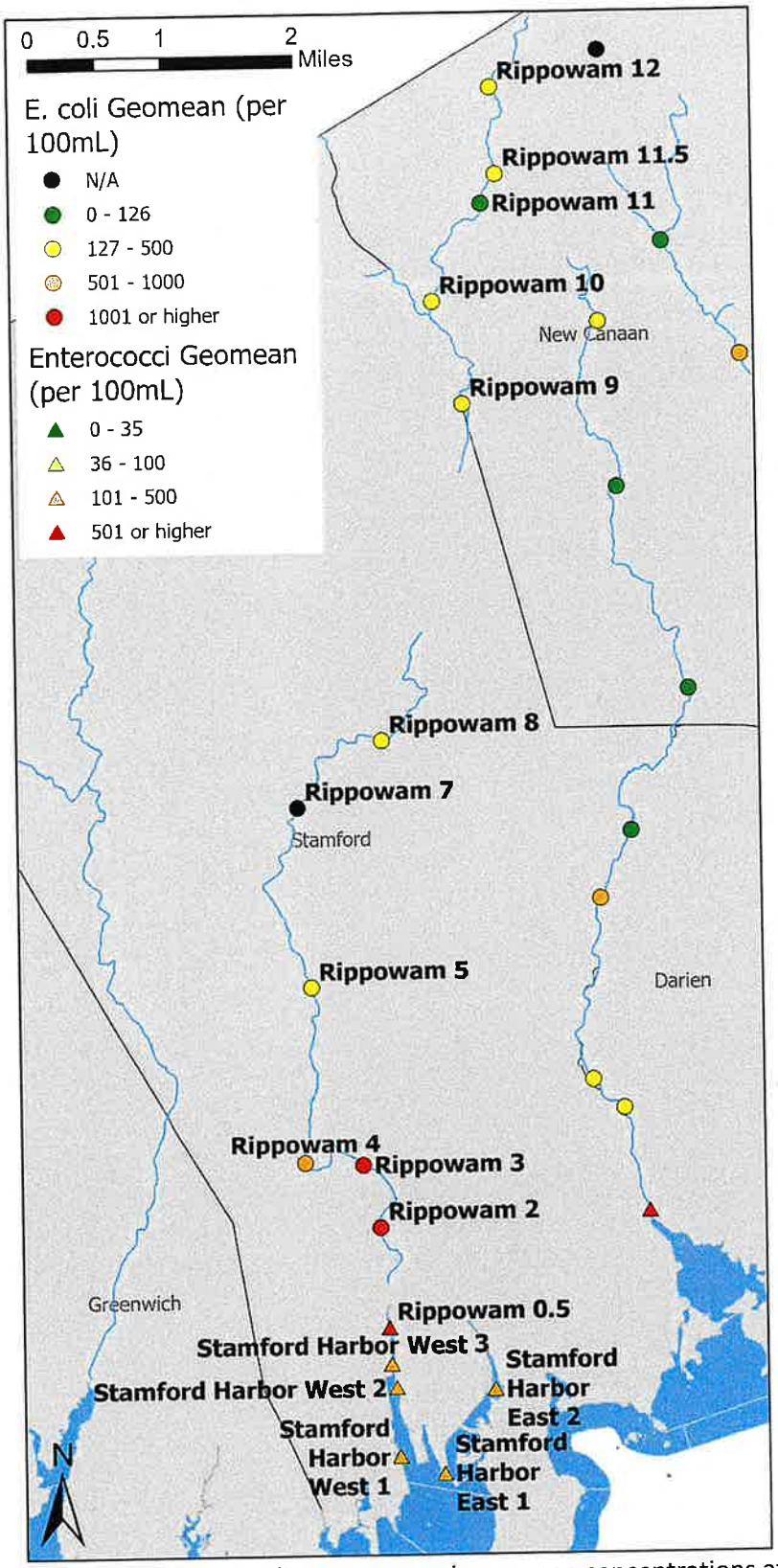


Figure I1. Map of indicator bacteria, *E. coli* or enterococci, geomean concentrations at each site in the Rippowam River watershed in 2025. Unlabeled sites are Fivemile River (see sub-section C) and Noroton River (see sub-section F).

Indicator bacteria: In 2025, data were collected on nine days. Due to construction, fewer than the minimum eight samples to calculate a geometric mean were collected at Rippowam 7. Fifteen sites in the Rippowam River watershed exceeded the CT DEEP geomean criterion for indicator bacteria in 2025 (Figure I1, Table I2). Additionally, 39% of all samples processed in the Rippowam River watershed exceeded the CT DEEP single sample maximum criteria (Table I3). Bacteria concentrations at the freshwater sites were relatively similar in 2024 and 2025, but a more dramatic increase was observed in the saltwater sites in 2025, driven by very elevated concentrations at the beginning of the monitoring season (Figure I2, Table I3). Monitoring should continue in 2026, and Harbor Watch will work with the City of Stamford to investigate if elevated concentrations persist.

Table I2. Rippowam River watershed *E. coli* and enterococci geomeans and percentage of samples exceeding the CT DEEP single sample maximum. Blue cells represent sites that exceeded the CT DEEP geomean criteria.

Site	Indicator Bacteria	Geomean	Exceed SSM
Rippowam 12	*E. coli*	475	56%
Rippowam 11.5	*E. coli*	250	22%
Rippowam 11	*E. coli*	68	0%
Rippowam 10	*E. coli*	211	11%
Rippowam 9	*E. coli*	240	33%
Rippowam 8	*E. coli*	248	38%
Rippowam 7	*E. coli*	N/A	0%
Rippowam 5	*E. coli*	361	33%
Rippowam 4	*E. coli*	713	44%
Rippowam 3	*E. coli*	1,307	67%
Rippowam 2	*E. coli*	1,296	67%
Rippowam 0.5	Enterococci	2,025	78%
Stamford Harbor West 3	Enterococci	324	40%
Stamford Harbor West 2	Enterococci	357	40%
Stamford Harbor West 1	Enterococci	338	40%
Stamford Harbor East 2	Enterococci	114	22%
Stamford Harbor East 1	Enterococci	177	33%

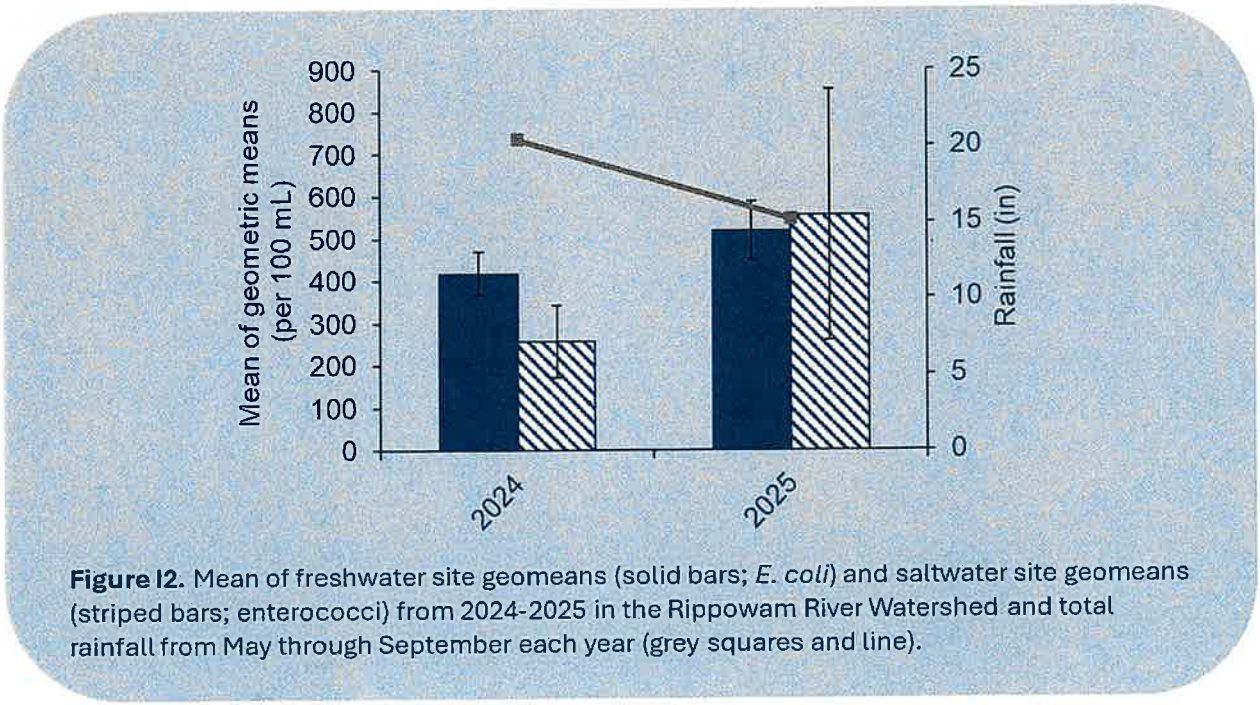


Figure I2. Mean of freshwater site geomeans (solid bars; *E. coli*) and saltwater site geomeans (striped bars; enterococci) from 2024-2025 in the Rippowam River Watershed and total rainfall from May through September each year (grey squares and line).

Table I3. Rippowam River watershed *E. coli* and enterococci concentrations (MPN/100mL). Rainfall data (inches) gathered from the Norwalk Health Department website (Norwalk Health Department, n.d.).

(A)

Site	Indicator Bacteria	5/22/2025	6/2/2025	6/12/2025	6/25/2025	7/15/2025	7/29/2025	8/19/2025	8/28/2025	9/25/2025
Rippowam 12	*E. coli*	1,986	181	108	757	1,095	872	104	150	2,827
Rippowam 11.5	*E. coli*	866	166	77	249	1,733	238	435	31	242
Rippowam 11	*E. coli*	18	119	58	214	308	14	22	53	222
Rippowam 10	*E. coli*	138	89	126	123	2,420	137	142	210	449
Rippowam 9	*E. coli*	649	162	120	326	2,420	72	59	64	977
Rippowam 8	*E. coli*	980	135	107	Bridge construction	>2,420	21	70	58	>4,839
Rippowam 7	*E. coli*	Bridge construction		133	Bridge construction					
Rippowam 5	*E. coli*	613	139	172	201	>2,420	210	150	162	2,827
Rippowam 4	*E. coli*	>2,420	311	1,298	472	4,839	181	120	249	3,973
Rippowam 3	*E. coli*	3,973	420	558	1,095	4,839	1,226	690	472	5,654
Rippowam 2	*E. coli*	4,839	374	504	922	4,839	1,095	570	651	6,212
Rippowam 0.5	Enterococci	19,863	323	833	717	8,297	512	3,255	448	>24,196
Rain Accum. (48 hours prior)		0.75	0.01	0.58	0.00	1.22	0.00	0.00	0.00	0.30

(B)

Site	Indicator Bacteria	5/6/2025	6/4/2025	6/10/2025	7/9/2025	7/23/2025	8/7/2025	8/13/2025	9/4/2025	9/15/2025	9/23/2025
Stamford Harbor West 3	Enterococci	3,448	457	7,270	> 24,196	160	20	20	20	842	41
Stamford Harbor West 2	Enterococci	4,611	426	2,481	24,196	109	135	987	<10	195	<10
Stamford Harbor West 1	Enterococci	5,172	110	2,851	> 24,196	109	546	272	41	74	<10
Stamford Harbor East 2	Enterococci	No Data	120	5,475	> 24,196	<10	41	98	10	52	10
Stamford Harbor East 1	Enterococci	5,172	No Data	512	24,196	108	193	10	63	20	<10
Rain Accum. (48 hours prior)		1.52	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Dissolved oxygen and water temperature: Dissolved oxygen readings were more variable at sites in the upper portion of the Rippowam River than the lower portion (Figure I3). Nine individual dissolved oxygen readings fell below the CT DEEP minimum criterion of 5 mg/L at freshwater sites Rippowam 12, Rippowam 11.5, Rippowam 11, and Rippowam 10 starting at the end of July through the rest of the monitoring season. Mean water temperatures and dissolved oxygen were correlated as expected, with water temperatures highest in June and July (Figure I4).

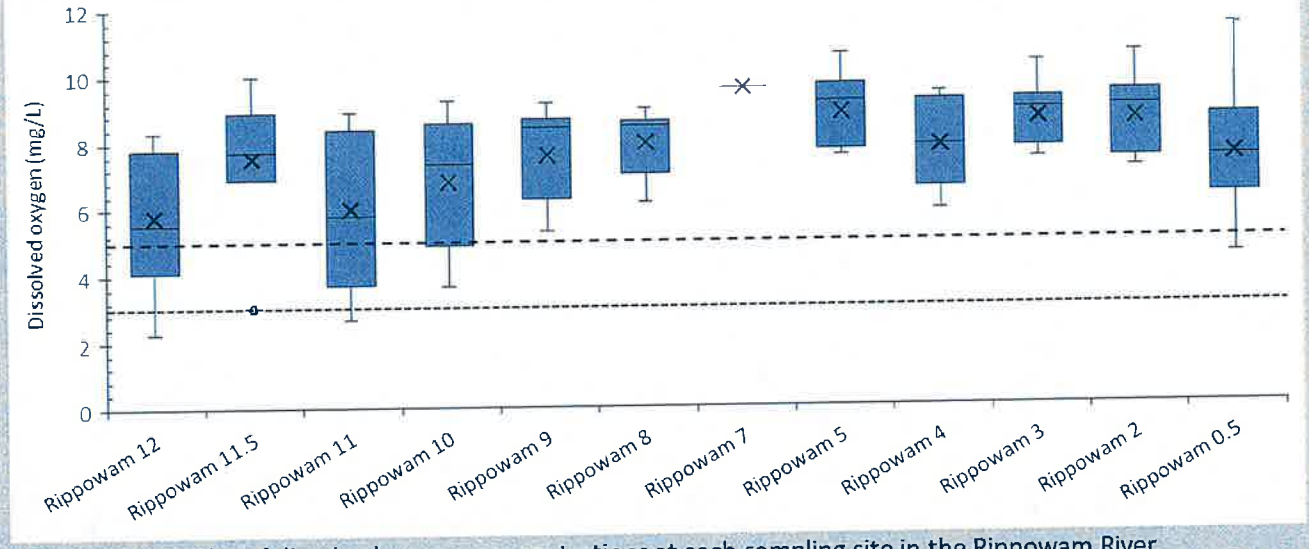


Figure I3. Box plot of dissolved oxygen concentrations at each sampling site in the Rippowam River Watershed. The dashed red line represents the CT DEEP minimum criterion for dissolved oxygen in freshwater, which is 5 mg/L. The dotted red line represents the CT DEEP minimum criterion for dissolved oxygen in saltwater, which is 3 mg/L. The only saltwater sampling site in the Rippowam River is Rippowam 0.5. Note that Rippowam 7 has only one data point due to accessibility challenges.

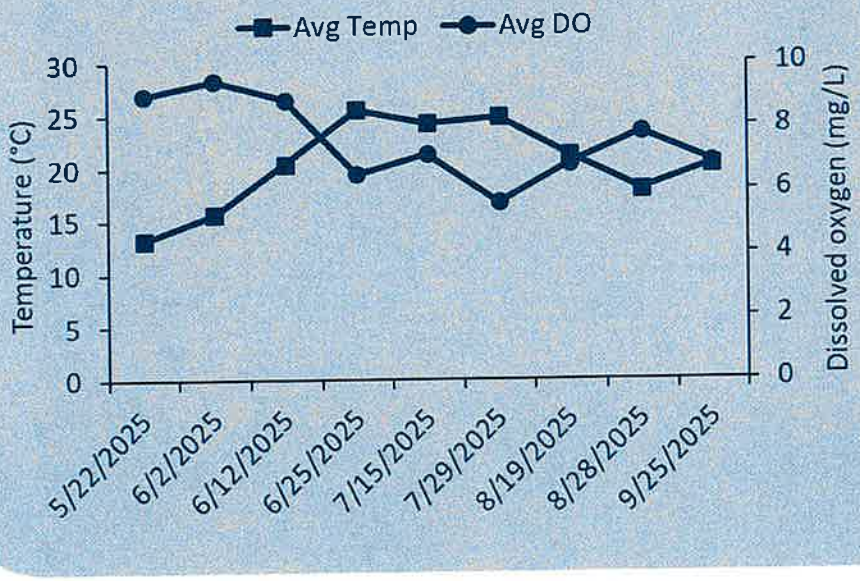


Figure I4. Mean water temperature and mean dissolved oxygen of all sites on each sampling date in the Rippowam River.

Site Name	Date	Time	Water Temp ° C	Dissolved Oxygen mg/L	Conductivity µmho/cm	Salinity ppt	Total Coliform (MPN/100 mL)	E. coli (MPN/100 mL)	Enterococccus (MPN/100 mL)	Notes
Noroton 8	7/1/2024	10:23:00 AM	22.4	3.99	351.9		> 4839.2	581.9		
Noroton 7	7/1/2024	10:12:00 AM	20.3	6.15	247.5		> 4839.2	581.9		
Noroton 5	7/1/2024	9:59:00 AM	22.2	7.76	272.2		> 4839.2	30.0		
Noroton 4	7/1/2024	9:45:00 AM	22.4	6.88	298.4		> 4839.2	383.6		ducks upstream
Noroton 3	7/1/2024	9:33:00 AM	21.3	6.74	301.8		> 4839.2	1841.7		
Noroton 2	7/1/2024	9:20:00 AM	22.1	3.98	238.8		> 4839.2	2599.3		
Noroton 1.75	7/1/2024	9:09:00 AM	21.9	5.05	235.7		> 4839.2	2827.2		
Noroton 1	7/1/2024	8:55:00 AM	21.6	3.38	32969.0	20.7	> 4839.2	976.9	4351.7	
Noroton 8	7/25/2024	9:52:00 AM	23.6	1.32	352.7		> 2419.6	142.1		
Noroton 7	7/25/2024	10:07:00 AM	22.4	5.95	272.0		> 2419.6	55.2		
Noroton 5	7/25/2024	10:21:00 AM	23.8	7.28	292.5		> 2419.6	101.7		
Noroton 4	7/25/2024	10:32:00 AM	24.3	6.17	266.0		> 2419.6	90.8		
Noroton 3	7/25/2024	10:49:00 AM	23.4	6.17	293.6		> 2419.6	866.4		
Noroton 2	7/25/2024	11:24:00 AM	23.2	5.20	379.9		> 4839.2	203.9		
Noroton 1.75	7/25/2024	11:32:00 AM	22.7	5.41	387.8		> 4839.2	279.2		
Noroton 1	7/25/2024	11:45:00 AM	23.6	1.01	35903.0	22.7	> 2419.6	40.0	410.3	
Noroton 8	7/31/2024	9:38:00 AM	22.9	0.14	382.7		> 2419.6	110.6		
Noroton 7	7/31/2024	9:50:00 AM	23.7	6.14	228.3		> 2419.6	10.8		
Noroton 5	7/31/2024	9:59:00 AM	25.3	7.36	152.3		> 2419.6	14.2		
Noroton 4	7/31/2024	10:07:00 AM	25.9	5.97	252.0		> 2419.6	52.0		People cutting lawn, grass in river
Noroton 3	7/31/2024	10:14:00 AM	24.0	6.08	296.6		> 2419.6	> 2419.6		Leaves and feathers
Noroton 2	7/31/2024	10:25:00 AM	23.9	6.30	443.2		> 4839.2	82.7		
Noroton 1.75	7/31/2024	10:32:00 AM	23.4	6.51	452.8		> 4839.2	1373.3		
Noroton 1	7/31/2024	10:40:00 AM	24.7	6.26	8650.0	4.8	> 2419.6	> 2419.6	959.9	
Noroton 8	8/14/2024	11:37:00 AM	21.9	0.50	336.7		> 2419.6	214.3		
Noroton 7	8/14/2024	11:29:00 AM	20.9	6.91	278.4		> 2419.6	32.7		
Noroton 5	8/14/2024	11:18:00 AM	24.2	7.70	291.0		2419.6	11.8		
Noroton 4	8/14/2024	10:54:00 AM	22.9	7.61	282.1		2419.6	58.1		
Noroton 3	8/14/2024	10:47:00 AM	21.6	7.30	291.2		4839.2	444.7		
Noroton 2	8/14/2024	10:40:00 AM	21.2	5.76	421.1		2419.6	14.2		
Noroton 1.75	8/14/2024	10:31:00 AM	20.7	5.92	415.2		3972.6	167.2		
Noroton 1	8/14/2024	10:18:00 AM	22.7	1.17	36590.0	23.2			495.9	
Noroton 8	9/3/2024	10:12:00 AM	19.5	4.67	232.4		2419.6	547.5		
Noroton 7	9/3/2024	10:04:00 AM	17.9	7.34	268.5		2419.6	63.1		House upstream has demolition notice
Noroton 5	9/3/2024	9:48:00 AM	20.8	8.69	280.5		2419.6	30.1		
Noroton 4	9/3/2024	9:37:00 AM	19.8	8.54	280.2		2419.6	60.5		
Noroton 3	9/3/2024	9:28:00 AM	18.7	7.39	290.2		4839.2	1095.0		
Noroton 2	9/3/2024	9:13:00 AM	19.2	6.08	410.7		2419.6	307.6		
Noroton 1.75	9/3/2024	8:56:00 AM	19.1	7.12	194.7		4839.2	216.1		
Noroton 1	9/3/2024	8:51:00 AM	22.2	0.93	31790.0	19.8	4839.2	161.7	184.9	Ducks
Noroton 8	9/16/2024	9:28:00 AM	18.2	2.44	299.2		2419.6	104.6		
Noroton 7	9/16/2024	9:41:00 AM	16.9	6.55	283.0		2419.6	10.9		

Site Name	Date	Time	Water Temp ° C	Dissolved Oxygen mg/L	Conductivity µmho/cm	Salinity ppt	Total Coliform (MPN/100 mL)	E. coli (MPN/100 mL)	Enterococccus (MPN/100 mL)	Notes
Noroton 5	9/16/2024	9:52:00 AM	20.2	8.33	343.2		1732.9	9.8		
Noroton 4	9/16/2024	10:03:00 AM	19.2	8.32	298.8		2419.6	122.3		
Noroton 3	9/16/2024	10:12:00 AM	18.2	6.72	306.6		2419.6	166.4		
Noroton 2	9/16/2024									Construction at site, unable to collect
Noroton 1.75	9/16/2024	10:22:00 AM	18.8	7.80	472.0		2419.6	328.2		
Noroton 1	9/16/2024	10:38:00 AM	21.0	5.39	40107.0	25.6	2419.6	> 2419.6	369.2	
Noroton 8	5/13/2025	11:34:00 AM	19.1	6.80	370		>2419.6	191.79		
Noroton 7	5/13/2025	11:21:00 AM	15.9	8.20	323.7		>2419.6	52.08		
Noroton 5	5/13/2025	11:07:00 AM	17.0	9.04	355.6		1732.89	47.98		
Noroton 4	5/13/2025	10:56:00 AM	18.5	8.55	358.3		>2419.6	49.54		
Noroton 3	5/13/2025	10:49:00 AM	17.5	8.38	365.6		>2419.6	127.4		
Noroton 2	5/13/2025	10:33:00 AM	17.0	7.28	445.1		>2419.6	172.16		
Noroton 1.75	5/13/2025	10:20:00 AM	16.8	7.62	458.0		>2419.6	185.01		
Noroton 1	5/13/2025	10:07:00 AM	16.7	7.97	553.0	0.3	>2419.6	198.9	184.9	
Noroton 8	6/3/2025	9:23:00 AM	17.1	3.58	386		>2419.6	488.44		
Noroton 7	6/3/2025	9:33:00 AM	14.6	9.06	321		>2419.6	42.84		
Noroton 5	6/3/2025	9:47:00 AM	17.3	9.27	297.6		>2419.6	81.26		
Noroton 4	6/3/2025	9:57:00 AM	18.0	9.01	361.6		>2419.6	71.73		
Noroton 3	6/3/2025	10:10:00 AM	16.8	8.09	368.6		>2419.6	193.49		
Noroton 2	6/3/2025	10:22:00 AM	16.9	7.54	451.6		>2419.6	112.64		
Noroton 1.75	6/3/2025	10:27:00 AM	16.4	7.68	453.2		>2419.6	165.76		
Noroton 1	6/3/2025	10:43:00 AM	18.1	2.34	40144.0	25.1	>2419.6	228.18	119.9	
Noroton 8	6/17/2025	10:55:00 AM	19.2	3.34	395.6		>2419.6	770.1		
Noroton 7	6/17/2025	10:42:00 AM	17.2	7.30	335		>2419.6	57.31		
Noroton 5	6/17/2025	10:29:00 AM	19.0	8.60	370.4		>2419.6	50.39		
Noroton 4	6/17/2025	10:17:00 AM	19.6	7.48	357.4		1986.29	18.1		
Noroton 3	6/17/2025	10:06:00 AM	19.0	7.72	369.0		>2419.6	1986.29		
Noroton 2	6/17/2025	9:40:00 AM	18.2	6.65	492.0		1011.16	98.67		
Noroton 1.75	6/17/2025	9:33:00 AM	18.0	7.06	499.0		>2419.6	230.98		
Noroton 1	6/17/2025	9:21:00 AM	19.5	3.31	38838.0	24.8	>2419.6	435.17	213.3	

Site Name	Date	Time	Water Temp ° C	Dissolved Oxygen mg/L	Conductivity µmho/cm	Salinity ppt	Total Coliform (MPN/100 mL)	E. coli (MPN/100 mL)	Enterococccus (MPN/100 mL)	Notes
Rippowam 7	7/10/2024	11:53:00 AM								bridge construction
Rippowam 5	7/10/2024	11:43:00 AM	25.2	7.92	293.0		> 2419.6	178.5		
Rippowam 4	7/10/2024	11:23:00 AM	25.5	5.63	440.5		> 2419.6	172.5		
Rippowam 3	7/10/2024	11:12:00 AM	25.4	7.62	445.1		> 2419.6	387.3		
Rippowam 2	7/10/2024	11:00:00 AM	25.6	8.32	466.0		> 2419.6	328.2		
Rippowam 0.5	7/10/2024	10:47:00 AM	27.0	8.28	3751.0	2	> 4839.2	688.2	608.6	
Rippowam 7	7/15/2024									bridge construction
Rippowam 5	7/15/2024	11:08:00 AM	23.9	8.10	411.2		> 2419.6	167.4		
Rippowam 4	7/15/2024	10:54:00 AM	24.2	6.35	428.1		> 2419.6	686.7		
Rippowam 3	7/15/2024	10:45:00 AM	24.2	6.11	433.4		> 2419.6	613.1		
Rippowam 2	7/15/2024	10:34:00 AM	24.4	7.08	439.4		> 2419.6	387.3		
Rippowam 0.5	7/15/2024	10:24:00 AM	25.5	6.26	5849.0	3.2	> 4839.2	872.1	819.7	lots of geese and ducks
Rippowam 7	7/29/2024									bridge construction
Rippowam 5	7/29/2024	11:38:00 AM	21.4	8.32	386.4		> 2419.6	686.7		
Rippowam 4	7/29/2024	11:08:00 AM	21.2	7.77	448.4		> 2419.6	325.5		
Rippowam 3	7/29/2024	11:17:00 AM	21.4	8.42	446.5		> 2419.6	2419.6		
Rippowam 2	7/29/2024	10:55:00 AM	21.4	7.55	497.0		> 2419.6	648.8		
Rippowam 0.5	7/29/2024	10:41:00 AM	22.2	7.25	5558.0	3	> 4839.2	499.1	3281.5	
Rippowam 7	8/22/2024									Construction
Rippowam 5	8/22/2024	11:49:00 AM	19.7	8.84	278.0		> 2419.6	238.2		
Rippowam 4	8/22/2024	11:35:00 AM	19.6	8.35	327.5		> 2419.6	290.9		DO recalibrated
Rippowam 3	8/22/2024	11:17:00 AM	19.3	8.85	331.4		> 2419.6	222.4		
Rippowam 2	8/22/2024	11:04:00 AM	19.3	8.95	358.1		> 2419.6	410.6		DO recalibrated
Rippowam 0.5	8/22/2024	10:55:00 AM	19.4	9.29	416.4	0.2	> 4839.2	544.6	271.8	
Rippowam 7	8/27/2024									Construction
Rippowam 5	8/27/2024	9:21:00 AM	20.5	8.72	339.3		> 2419.6	727.0		
Rippowam 4	8/27/2024	9:31:00 AM	20.0	7.67	436.2		> 2419.6	224.7		
Rippowam 3	8/27/2024	9:43:00 AM	19.9	8.89	451.4		> 2419.6	344.1		
Rippowam 2	8/27/2024	9:57:00 AM	20.0	9.20	481.0		> 2419.6	488.4		DO recalibrated
Rippowam 0.5	8/27/2024	10:07:00 AM	20.8	9.56	4959.0	2.7	> 4839.2	163.0	478.7	40+ water fowl upstream
Rippowam 7	9/18/2024									Construction
Rippowam 5	9/18/2024	11:38:00 AM	18.4	9.99	397		> 2419.6	770.1		
Rippowam 4	9/18/2024	11:25:00 AM	18.1	7.85	447		1986.3	108.6		
Rippowam 3	9/18/2024	11:12:00 AM	18.3	8.70	450		> 2419.6	461.1		
Rippowam 2	9/18/2024	11:03:00 AM	18.7	9.20	482		> 2419.6	727.0		
Rippowam 0.5	9/18/2024	10:52:00 AM	23.3	5.02	32602	20.4	> 2419.6	2419.6	487.4	film on surface, oil specs
Rippowam 12	5/22/2025	12:04:00 PM	11.4	8.33	212		>2419.6	1986.29		
Rippowam 11.5	5/22/2025	11:49:00 AM	11.7	10.00	272		>2419.6	866.44		
Rippowam 11	5/22/2025	11:40:00 AM	15.2	8.19	283		>2419.6	18.49		
Rippowam 10	5/22/2025	11:23:00 AM	15.3	8.54	275		>2419.6	137.61		
Rippowam 9	5/22/2025	11:16:00 AM	13.0	8.66	295		>2419.6	648.82		

Site Name	Date	Time	Water Temp ° C	Dissolved Oxygen mg/L	Conductivity µmho/cm	Salinity ppt	Total Coliform (MPN/100 mL)	E. coli (MPN/100 mL)	Enterococccus (MPN/100 mL)	Notes
Rippowam 8	5/22/2025	10:56:00 AM	14.3	8.61	346		>2419.6	980.39		
Rippowam 7	5/22/2025									Construction, didn't take a sample
Rippowam 5	5/22/2025	10:40:00 AM	13.5	9.26	447		>2419.6	613.14		
Rippowam 4	5/22/2025	10:23:00 AM	12.9	9.44	384		>2419.6	>2419.6		
Rippowam 3	5/22/2025	10:15:00 AM	12.7	9.42	366		>4839.2	3972.58		
Rippowam 2	5/22/2025	10:00:00 AM	12.6	9.54	344		>4839.2	4839.14		
Rippowam 0.5	5/22/2025	9:41:00 AM	12.6	8.95	1956	1			19862.9	
Rippowam 12	6/2/2025	9:07:00 AM	15.5	7.24	287			181.26		Didn't write down the numbers for the Total Coliform for any of the sites
Rippowam 11.5	6/2/2025	9:23:00 AM	14.8	8.69	289			166.4		Didn't write down the numbers for the Total Coliform for any of the sites
Rippowam 11	6/2/2025	9:33:00 AM	16.1	8.93	277			119.1		Didn't write down the numbers for the Total Coliform for any of the sites
Rippowam 10	6/2/2025	9:38:00 AM	15.9	9.24	284			88.59		Didn't write down the numbers for the Total Coliform for any of the sites; Lawn was being mowed right next to where we took the sample
Rippowam 9	6/2/2025	9:54:00 AM	15.1	9.17	297			162.42		Didn't write down the numbers for the Total Coliform for any of the sites
Rippowam 8	6/2/2025	9:59:00 AM	15.9	8.36	352			135.37		Didn't write down the numbers for the Total Coliform for any of the sites
Rippowam 7	6/2/2025									Didn't write down the numbers for the Total Coliform for any of the sites; Couldn't take sample because of construction
Rippowam 5	6/2/2025	10:43:00 AM	15.6	10.59	427			139.14		Didn't write down the numbers for the Total Coliform for any of the sites
Rippowam 4	6/2/2025	10:54:00 AM	15.5	9.42	457			310.5		Didn't write down the numbers for the Total Coliform for any of the sites
Rippowam 3	6/2/2025	11:17:00 AM	15.6	10.33	460			419.64		Didn't write down the numbers for the Total Coliform for any of the sites
Rippowam 2	6/2/2025	11:26:00 AM	15.9	10.60	482			374.38		Didn't write down the numbers for the Total Coliform for any of the sites; Seagulls and geese upstream
Rippowam 0.5	6/2/2025	11:59:00 AM	16.7	11.38	882	0.4			322.5	Didn't write down the numbers for the Total Coliform for any of the sites
Rippowam 12	6/12/2025	11:40:00 AM	21.9	7.75	235		>4839.2	107.62		
Rippowam 11.5	6/12/2025	11:19:00 AM	20.9	9.14	234		2022.32	76.5		
Rippowam 11	6/12/2025	11:06:00 AM	22.7	8.61	230		>2419.6	58.33		
Rippowam 10	6/12/2025	10:53:00 AM	21.2	8.66	231		>2419.6	125.91		
Rippowam 9	6/12/2025	10:44:00 AM	20.5	8.42	245		>2419.6	120.07		
Rippowam 8	6/12/2025	10:38:00 AM	20.0	8.99	295		>2419.6	107.12		
Rippowam 7	6/12/2025	10:29:00 AM	19.9	9.59	332		>2419.6	133.44		
Rippowam 5	6/12/2025	10:14:00 AM	20.0	9.17	355		>2419.6	172.47		
Rippowam 4	6/12/2025	10:02:00 AM	19.7	9.01	380		>4839.2	1297.64		
Rippowam 3	6/12/2025	9:47:00 AM	19.5	9.10	380		>9678.4	558.32		
Rippowam 2	6/12/2025	9:39:00 AM	19.4	9.28	396		>9678.4	503.64		

Site Name	Date	Time	Water Temp ° C	Dissolved Oxygen mg/L	Conductivity µmho/cm	Salinity ppt	Total Coliform (MPN/100 mL)	E. coli (MPN/100 mL)	Enterococccus (MPN/100 mL)	Notes
Rippowam 0.5	6/12/2025	9:25:00 AM	19.6	8.41	434	0.2			832.9	
Rippowam 12	6/25/2025	11:21:00 AM	23.9	5.05	284		>4839.2	756.88		
Rippowam 11.5	6/25/2025	11:14:00 AM	25.4	6.92	283		>2419.6	248.9		
Rippowam 11	6/25/2025	11:07:00 AM	29.3	5.79	278		>2419.6	214.26		
Rippowam 10	6/25/2025	10:56:00 AM	29.2	6.75	207		>2419.6	123.35		
Rippowam 9	6/25/2025	10:41:00 AM	24.7	5.32	318		>2419.6	325.54		
Rippowam 8	6/25/2025									Bridge construction
Rippowam 7	6/25/2025									Bridge construction
Rippowam 5	6/25/2025	10:07:00 AM	24.9	7.54	218		>2419.6	201.42		
Rippowam 4	6/25/2025	9:51:00 AM	24.3	6.58	518		>4839.2	471.86		
Rippowam 3	6/25/2025	9:37:00 AM	24.2	7.45	493		>4839.2	1095		
Rippowam 2	6/25/2025	9:26:00 AM	24.4	7.15	539		>4839.2	922.22		
Rippowam 0.5	6/25/2025	9:12:00 AM	24.9	6.20	1788	0.9			717.3	

Site Name	Date	Time	Water Temp ° C	Dissolved Oxygen mg/L	Conductivity µmho/cm	Ammonia	Total Coliform (MPN/100 mL)	E. coli (MPN/100 mL)	Enterococccus (MPN/100 mL)	Project Name	Notes
CB 1	2/18/2025	9:30:00 AM								Burwood	Dry, would flow into MH 6751 if there was flow
CB 2	2/18/2025	9:30:00 AM								Burwood	Dry, would flow into MH 6751 if there was flow
CB 3	2/18/2025	9:40:00 AM								Burwood	Couldn't tell if there was flow out, flow in was from sump pump
Sump at CB 3	2/18/2025	9:40:00 AM					42.23	<1		Burwood	
MH 775	2/18/2025	9:48:00 AM	0.0	15.06	0		2406.66	51.8	208.6	Burwood	Flow coming from Silver St and Burwood before cont. down Burwood
MH 6752	2/18/2025	9:50:00 AM	5.9	11.59	0	0	>4839.2	774.64	228.1	Burwood	Little to no movement in the water
MH 766 - House 103	2/18/2025	10:00:00 AM	7.2	10.98	673		1986.29	21.82	20.2	Burwood	Collected sample from flow passing in front of house 103
MH 766 - House 101	2/18/2025	10:05:00 AM					960.61	88.41	131	Burwood	Collected sample from flow passing in front of house 101
MH 6751	2/18/2025	10:12:00 AM								Burwood	Sitting water in basin, did not reach exit pipe (exit pipe was bone dry)
DIS	2/18/2025	10:22:00 AM	5.5	10.79	1041	0	>2419.6	61.98	62.6	Burwood	Off Top Gallant Rd, fully out of the water, Low tide was at 911 AM
MH 9681	4/2/2025	9:28:00 AM								Cove Road	Stagnant pool, no flow from pipes
CB at 108	4/2/2025	9:35:00 AM								Cove Road	Stagnant
MH 7621	4/2/2025	9:41:00 AM								Cove Road	Stagnant pool, no flow
CB at 105	4/2/2025	9:41:00 AM								Cove Road	Stagnant
CB IN 11798	4/2/2025	9:50:00 AM								Cove Road	Stagnant
New CB at 69	4/2/2025	9:50:00 AM								Cove Road	Dry
New MH 3	4/2/2025	9:52:00 AM								Cove Road	Damp, no flow
New MH 5	4/2/2025	9:55:00 AM								Cove Road	Stagnant pool, doesn't reach outflow

Appendix P

2024-25 Wet Weather Screening Data Summary Table

CITY OF STAMFORD WET WEATHER SAMPLING 2025

General Information								Rain Event		Sample Info				Field Parameter					
SON #	Permit Outfall ID		Sample Status	Condition Status	Condition Level	Up Gradient Sample	Direct Discharge	Amount (in)	Time Since Previous Event	Initial	Date	Time SF	Photo	Turbidity (NTU)	Turbidity Upstream (NTU)	pH (S.U)	Temperature	D.O (mg/l)	Conductivity (umhos/cm)
SON-0184	DIS-275	275	SU	Unknown	Good	Yes	Yes	0.2	6 days	MMM/MMV	5/22/2025	11:30	No		2.51	-	-	-	-
SON-0185	DIS-276	276	SU	Unknown	Good	Yes	Yes	0.2	6 days	MMM/MMV	5/22/2025	11:10	No		52.1	-	-	-	-
	DIS-572	572	SU	-	-	No	Yes	0.2	6 days	MMM/MMV	5/22/2025	10:30	No		8.46	-	-	-	-
	DIS-753	753	SF	-	Good	No	Yes	0.2	6 days	MMM/MMV	5/22/2025	9:32	Yes	6.04	4.79	-	-	-	-
	DIS-867	867	SU	-	-	No	Yes	0.2	6 days	MMM/MMV	5/22/2025	10:01	Yes		2.72	-	-	-	-
	DIS-868	868	SF	-	Good	No	Yes	0.2	6 days	MMM/MMV	5/22/2025	10:08	Yes	3.18	2.98	-	-	-	-

Sampling Codes	Code
E-Flow Follow Up	EFF
No Flow/ E- Flow	NFEF
No Flow/ No E-Flow	NN
Not Sampled	NS
Sampled Flow	SF
Sampled Upstream	SU
Missing Impaired Parameters	

CITY OF STAMFORD WET WEATHER SAMPLING 2025

General Information			Lab Data							Follow-Up Required						
SON #	Permit Outfall ID		Escherichia Coli	Total Coliforms	Fecal Colilforms	Enterococcus	Phosphorus	Total Nitrogen	Impairment	Turbidity	E.Coli	Total Coliform	Fecal Coliform	Entero	Phosphorus	Total Nitrogen
SON-0184	DIS-275	275	4110	>24200	-	-	-	-	Other Pollutant of Concern, Bacteria		YES					
SON-0185	DIS-276	276	>24200	>24200	-	-	-	-	Other Pollutant of Concern, Bacteria		YES					
	DIS-572	572							Other Pollutant of Concern							
	DIS-753	753							Other Pollutant of Concern	NO						
	DIS-867	867							Other Pollutant of Concern							
	DIS-868	868							Other Pollutant of Concern	NO						

- E.Coli > 235 col/100mL for swimming; >410 for others
- Coliform > 500 col/100mL
- Fecal > 31 col/100mL for Class SA; >260 for SB
- Entero > 104 col/100mL for swimming; >500 for others
- Turbidity > 5 NTU diff. b/w outfall and upstream
- Total Phosphorus > 0.3 mg/L
- Total Nitrogen > 2.5 mg/L

CITY OF STAMFORD WET WEATHER SAMPLING 2025

General Information					
SON #	Permit Outfall ID		Comment	Longitude	Latitude
SON-0184	DIS-275	275		-73.55722556630	41.07084979600
SON-0185	DIS-276	276		-73.55685511570	41.08636277150
	DIS-572	572		-73.57692318450	41.07263776720
	DIS-753	753		-73.58089662520	41.08066090980
	DIS-867	867	Couldn't reach actual outfall with sampling stick, bailer won't fit down CB. Manhole not labeld. Collected sample upstream	-73.57610670190	41.07450128880
	DIS-868	868		-73.57631781540	41.07451645400