

NYC Stormwater Management Program

2024 MS4 Annual Report



**Municipal Separate Storm
Sewer System of New York City
SPDES Number: NY-0287890**

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Jamaica Bay, Queens

Executive Summary

When precipitation (rain, snow) falls on impervious surfaces like rooftops, streets, and sidewalks, and the ground cannot absorb all the precipitation naturally, stormwater runoff results. This runoff flows over streets and sidewalks, potentially collecting pollutants such as oils, chemicals, sediment, debris and pathogens before entering the sewer system through catch basins. In municipal separate storm sewer system (MS4) areas, the runoff flows into local waterways without receiving treatment.

To reduce potential stormwater pollution in MS4 areas, the City developed the NYC Stormwater Management Program (SWMP) Plan. This Annual Report describes the activities the City performed throughout calendar year 2024 to implement the SWMP and to comply with the City's MS4 permit in an effort to manage urban sources of stormwater runoff, both to protect overall water quality and to improve water quality in impaired waters.

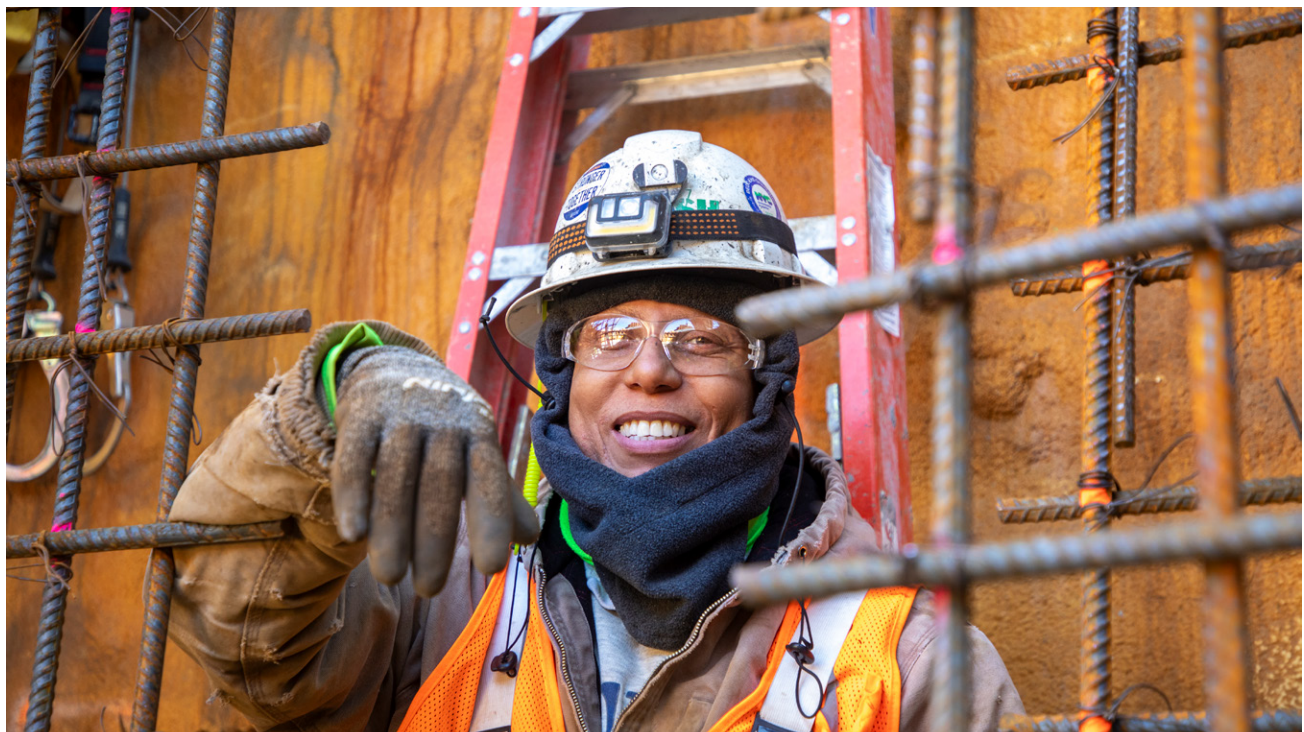
2024 Major Accomplishments

- Completed and timely submitted to the New York State Department of Environmental Conservation (NYSDEC) the MS4 Permit deliverables due in 2024, including the Harbor Survey Data Baseline Analysis - Baseline Conditions 2014-2018 and the Urban Stormwater Quality Model Development Interim Report.
- Reviewed 697 Stormwater Pollution Prevention Plans (SWPPPs) for new development and redevelopment projects citywide, ensuring they included proper practices for the control of stormwater runoff during construction activities and, where applicable, effective strategies for long-term runoff reduction and stormwater management post-construction.
- Took 7,685 enforcement actions against entities responsible for illicit discharges and abated 1,712 illicit discharges.
- Held/participated in 296 community cleanup events and 5 SAFE (Solvents, Automotive, Flammables, and Electronics) Disposal Events with more than 17,000 participants.
- Swept more than 900,000 miles of streets and parking lots citywide, inspected more than 25,000 catch basins, and cleaned more than 8,000 catch basins.

2024 Program Updates

- **Public Education and Outreach (PEO).** This program includes initiatives to inform the public about the MS4.
 - » The City distributed approximately 10,000 coloring books on NYC’s “water story” to schools, partner organizations, and the public.
- **Public Involvement and Participation (PIP).** This program includes initiatives to get the public involved in MS4-related activities.
 - » The City participated in 554 Park Stewardship events that involved nearly 7,000 participants.
- **Mapping.** This program includes identifying and mapping the MS4 outfalls and drainage areas.
 - » The City provides an interactive, public map – view the map here nyc.gov/dep/ms4map
- **Illicit Discharge Detection and Elimination (IDDE).** This program includes finding, abating, and preventing illicit discharges.
 - » The City abated 1,712 illicit discharges.
- **Construction and Post-Construction (C/PC).** This program includes managing pollution risks from development and redevelopment projects in MS4 and combined sewer areas draining to the city-owned sewer system.
 - » The City reviewed 697 SWPPPs citywide, including
- 290 within the MS4. The City issued 184 Stormwater Construction Permits with 93 within the MS4, bringing the total number of active Stormwater Construction Permits to 331 with 195 within the MS4.
- **Pollution Prevention/Good Housekeeping (PP/GH) for Municipal Operations and Facilities.** This program includes managing pollution risks at the City’s own facilities and during its operations conducted off-site, including in the right of way (ROW).
 - » The City assessed 108 City-owned facilities to evaluate their stormwater pollution potential and the stormwater controls associated with the facilities’ operations.
- **Industrial and Commercial (I/C) Stormwater Sources.** This program includes managing pollution risks from industrial and commercial facilities that engage in certain activities that may cause stormwater pollution.
 - » The City assessed 17 unpermitted facilities for potential permitting under the NYSDEC State Pollutant Discharge Elimination System (SPDES) program. Additionally, the City inspected 30 facilities permitted under the SPDES Multi-Sector General Permit (MSGP) to evaluate their implementation of stormwater controls.
- **Control of Floatable and Settleable Trash and Debris.** This program includes measures taken to reduce NYC’s litter and keep trash and debris from reaching waterbodies.

Worker at Shaft Site 18B.



- » The City continued its analysis of data from a study to determine the loading rate of trash and debris from the MS4 to floatables-impaired waterbodies.
- **Monitoring.** This program includes analyses that will facilitate development of Urban Stormwater Quality (USWQ) models and evaluation of long-term trends in water quality to demonstrate how water quality is being impacted by the City's structural and non-structural Best Management Practices (BMPs).
 - » The City completed the five-year Harbor Survey data analysis to establish a baseline for future evaluation of long-term trends in water quality.
 - » The "Urban Stormwater Quality Model Development Interim Report" was timely submitted to NYSDEC. The report details how USWQ models will further the City's goal of reducing the discharge of pollutants from stormwater
- **Special Conditions for Impaired Waters.** This program includes identifying any impaired waterbody with an approved Combined Sewer Overflow Long-Term Control Plan (CSO LTCP) that does not predict compliance with applicable water quality standards, where stormwater pollution from the MS4 is expected to significantly contribute to the impairment.
 - » Upon NYSDEC's approval of the Jamaica Bay LTCP, the City determined that Bergen Basin and Thurston Basin have met these criteria. The City will create a plan for each waterbody to address the pollutants of concern (POCs).

to engage with local stakeholder groups and to participate in community events.

- **Mapping.** Continue to update GIS datasets for the next MS4 map due August 1, 2027.
- **Illicit Discharge Detection and Elimination (IDDE).** Continue implementing the Shoreline Survey, Harbor Survey, Sentinel Monitoring, and Emergency Response Unit programs, including abatement of confirmed illicit discharges.
- **Construction and Post-Construction (C/PC).** Continue outreach efforts to the construction community, the review and approval of SWPPPs, and inspections of sites that have Stormwater Construction permits.
- **Pollution Prevention/Good Housekeeping (PP/GH) for Municipal Operations and Facilities.** Continue to self-assess facilities and off-site operations and provide appropriate training to staff; inspect and maintain municipally constructed green infrastructure (GI).
- **Industrial and Commercial (I/C) Stormwater Sources.** Continue the assessment of unpermitted facilities and inspection of permitted facilities and take necessary enforcement actions.
- **Control of Floatable and Settleable Trash and Debris.** Continue to analyze data obtained as part of the Floatables Loading Rate Study and continue floatables control programs, including PEO efforts, street sweeping, catch basin inspections and cleaning, and booming/netting.
- **Monitoring.** Report on progress in development of Urban Stormwater Quality (USWQ) Models.
- **Special Conditions for Impaired Waters.** For Bergen and Thurston Basins, determine source categories for POCs causing the impairments, customized non-structural BMPs and any opportunities for GI projects; for Coney Island Creek, continue to implement and refine enhanced BMPs.

Plans/ Goals for 2025

- **Public Education and Outreach (PEO).** Continue to implement programs including SAFE Disposal events and various environmental education initiatives.
- **Public Involvement and Participation (PIP).** Continue

Heavy rainfall in Queens.





Wildflowers at Staten Island Bluebelt.

Introduction

Pursuant to the New York State Department of Environmental Conservation (NYSDEC) State Pollutant Discharge Elimination System (SPDES) Municipal Separate Storm Sewer System (MS4) Permit (No. NY-0287890), first issued to the City of New York (City or NYC) in 2015 and renewed as of August 1, 2022, the City implements a Stormwater Management Program (SWMP) Plan¹.

The SWMP consists of the City's measures to reduce pollution in stormwater runoff discharging into and from the MS4. Through proper management and increased awareness, the City works to keep our streets and facilities well-maintained to reduce the risk of their contributing pollution to stormwater runoff. As most waterbodies in NYC receive stormwater from both the combined and separate sewer systems, the SWMP is an important component of the City's comprehensive integrated planning approach to protecting and improving our waterbodies.

New York City's iconic waterfront and beloved waterbodies are cleaner and healthier than they have been since the 1860s. Whales and seals have returned to the harbor, wetland and mussel restoration projects are thriving, and New Yorkers are enjoying recreational activities on our local waterways. These improvements are in no small part a testament to the City's substantial investments in upgrading our wastewater infrastructure over the last five decades.

Building on these investments, fourteen City agencies implement the SWMP in the areas served by the City's MS4, which carries stormwater runoff directly to nearby waterbodies instead of to a wastewater resource recovery facility (WRRF) for treatment; water that flows on the streets and into catch basins or directly into waterbodies may carry pollutants such as pathogens and debris.

Each year, the City prepares an MS4 annual report, as required by Part IV.M of the MS4 Permit, to inform NYSDEC and the public of the City's progress in implementing the SWMP and the status of its compliance with the MS4 Permit. This MS4 Annual Report, covering

¹ <https://www.nyc.gov/assets/dep/downloads/pdf/water/stormwater/ms4/nyc-swmp-plan-full.pdf>

January 1 through December 31, 2024, includes a brief description of the SWMP activities completed during the 2024 reporting year, measurable goals, and associated reporting requirements included in the MS4 Permit. This report also includes activities planned for the 2025 calendar year and any proposed changes to the SWMP, if applicable.

Each component of the SWMP Plan includes best management practices (BMPs) and associated measurable goals, which the City reports on annually. The City periodically refines the measurable goals based on lessons learned from implementation of the programs, as well as on input from interagency working groups and the public. Continuing to refine and update the measurable goals allows the City to better quantify and more accurately represent the effectiveness of the SWMP. The City bases its assessment of the effectiveness of the SWMP on the achievement of the stated measurable goals for each program.

As needed, the City will undertake updates of the SWMP to reflect the current status of program implementation and the City's compliance with the 2022 MS4 Permit. In the fall of 2025, the City made the following revisions, in addition to general updates that reflect the current state of SWMP programs and related activities:

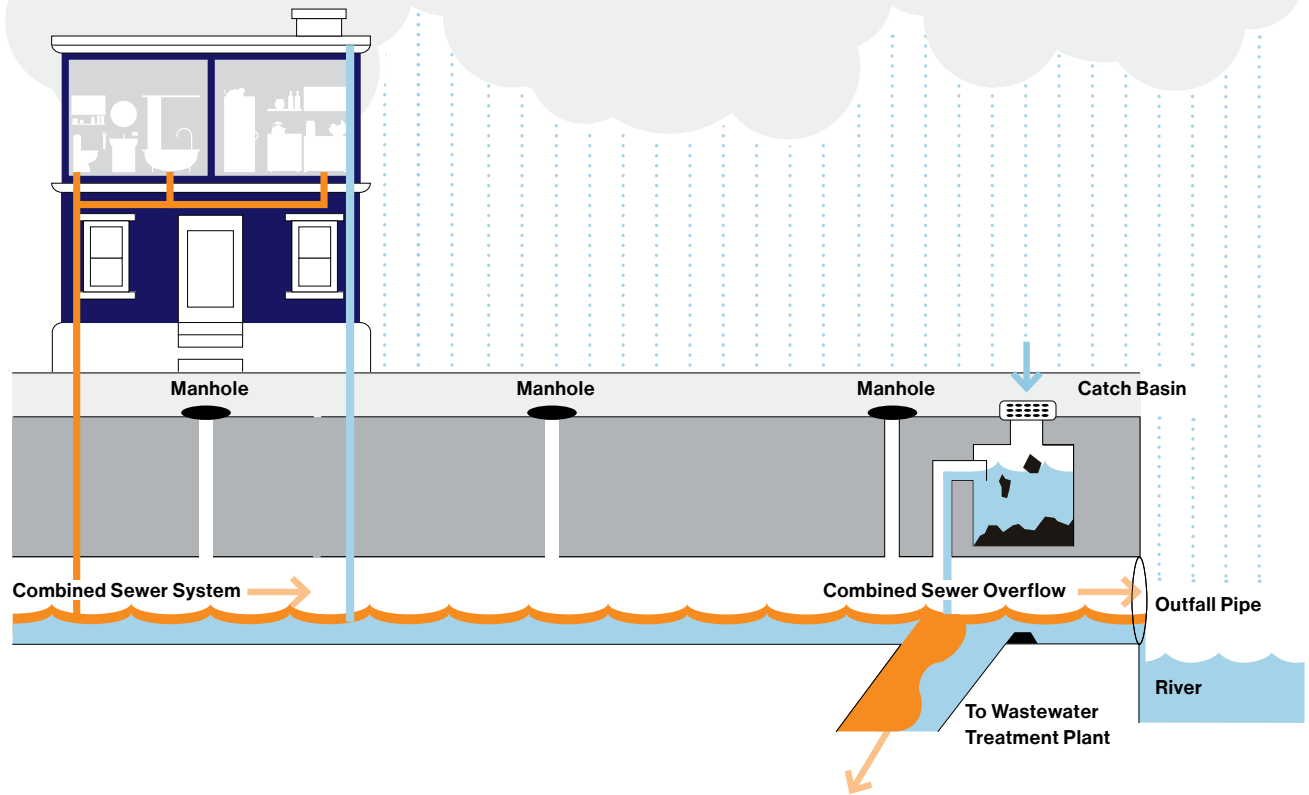
- » 1. *Chapter 5: Illicit Discharge Detection and Elimination (IDDE)* is updated to reflect implementation of the NYSDEC-approved IDDE Plan. The plan has been added to the SWMP as Appendix 9.3: "Illicit Discharge Detection and Elimination (IDDE) Plan."

- » 2. *Chapter 6: Construction and Post-Construction* is updated to remove the detailed discussion of the "Lot Size Soil Disturbance Threshold Study for Construction and Post-Construction Stormwater Management" (Threshold Study), which was included in the SWMP while the study was underway per the requirements of the MS4 Permit.
- » 3. *Chapter 9: Control of Floatable and Settleable Trash and Debris* has been updated to reflect completion of the Floatables Loading Rate Study, including removal of the supporting Appendix 9.1 "Work Plan to Determine the Loading Rate of Floatable and Settleable Trash and Debris Discharged from the MS4," which was included in the SWMP while the study was underway per the requirements of the MS4 Permit.
- » 4. *Chapter 10: Monitoring* has been updated to reflect the requirements of the 2022 permit and to indicate completion of the Outfall Monitoring and Harbor Survey Baseline data analyses.
- » 5. *Chapter 11: Special Conditions for Impaired Waters* has been updated to reflect the approval of the Jamaica Bay and Tributaries LTCP and the pursuant identification of two impaired waterbodies subject to special conditions.
- » 6. *Chapter 12: Recordkeeping and Reporting* has been updated to reflect that Assessment of Controls is provided in Annual Reporting.

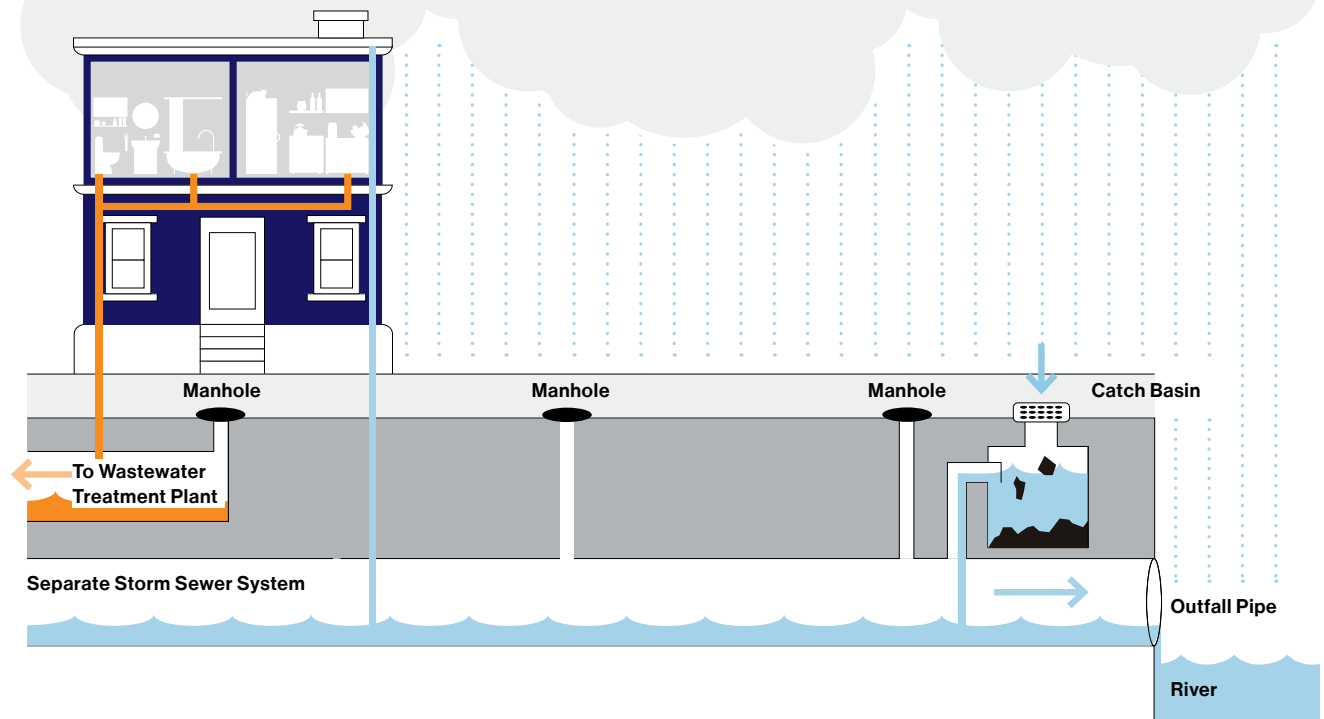
A green roof garden at Corporate Commons Three is Staten Island.



Combined Sewer System



Municipal Separate Storm Sewer System



Administration of the SWMP

The New York City Department of Environmental Protection (DEP) coordinates the implementation of the SWMP with the assistance of and contributions from the Stormwater Controls Working Group (aka Interagency Team). The Stormwater Controls Working Group is a team of representatives from the following New York City agencies that collaborate on MS4 programs (as noted below, a subset of these agencies has obligations under the MS4 Permit):

Agencies with MS4 Permit Obligations

Department of Citywide Administrative Services (DCAS)
Department of City Planning (DCP)
Department of Design and Construction (DDC)
Department of Environmental Protection (DEP)
Department of Buildings (DOB)
Department of Correction (DOC)
Department of Education (DOE)
Department of Health and Mental Hygiene (DOHMH)
Department of Transportation (DOT)
Department of Parks and Recreation (Parks)
Department of Sanitation (DSNY)
Fire Department (FDNY)
Police Department (NYPD)
Department of Small Business Services (SBS)

Collaborating Agencies

NYC Law Department (LAW)
Economic Development Corporation (EDC)
Mayor's Office of Management and Budget (OMB)
Mayor's Office of Climate and Environmental Justice (MOCEJ)

MS4 Annual Reports

Each year, the City reports on SWMP implementation and MS4 Permit compliance. Reporting years are full calendar years (January 1 to December 31). The MS4 annual reports reflect the structure of the City's MS4 Permit and the SWMP Plan, both of which are organized by program. For each program, these MS4 annual reports include the following sections:

- **Introduction.** This section includes an overview of the program and context for the activities completed within a reporting year. For more information on the programs, refer to the SWMP Plan.
- **Program assessment.** This section includes information on activities completed during the reporting year. Tables that present the measurable goals and measures of a program for the reporting year are complemented by a narrative that highlights and explains important activities.
- **Goals for the next reporting cycle.** This section includes the City's objectives for the ongoing implementation of applicable programs during the next reporting cycle.
- **Program updates.** This section includes information on SWMP updates that the City is proposing as part of refining and adapting its program. The Program Updates section does not appear if no substantive changes are required for a program. The City updates the SWMP Plan text annually but implements as soon as practicable any necessary changes identified during the reporting year.

Every spring, the City publishes a draft MS4 annual report online for public comment and holds a public meeting during the comment period. Following the public review of the draft MS4 annual report, the City revises the report, as needed, and includes responses to public comments. The final version of the report is due to NYSDEC September 30 of each year. The MS4 annual reports are available on the DEP website.²

New York City's iconic waterfront and beloved waterbodies are cleaner and healthier than they have been since the 1860s. Whales and seals are returning to the harbor, wetland and mussel restoration projects are thriving, and New Yorkers are enjoying recreational activities in our local waterways. This is in no small part a testament to the City's substantial investments in upgrading our stormwater and wastewater infrastructure over the last four decades.

² <https://www.nyc.gov/site/dep/water/municipal-separate-storm-sewer-system.page>



A DEP environmental educator leads a group of students at Hunters Point in Queens.

Public Education and Outreach

The City implements a public education and outreach program (PEO Program) as part of its MS4 Permit obligations.³ The PEO Program has many education and outreach initiatives that inform a broad range of stakeholders and the public about stormwater, the sources of pollutants associated with stormwater, and stormwater's potential impacts on water quality.

2024 Program Assessment

As part of the PEO Program, the City implemented 13 programs that included more than 2,500 events, reached approximately 82,000 individuals, and distributed more than 2,000,000 materials. These metrics are drawn from activities conducted citywide.

Program Highlights

Environmental Education. DEP distributed approximately 10,000 copies of *Drippy's Water Adventure*, a popular and engaging coloring book with activities, vocabulary

and concepts highlighting NYC's extensive water and wastewater infrastructure. The coloring book illustrates water use, the City's wastewater treatment system, stormwater management and green infrastructure (GI), harbor protection and stewardship opportunities. This successful project was designed in 2023, in partnership with the Fashion Institute of Technology through the NYC Department of Design and Construction's Town+Gown Program.

DEP hosted and participated in multiple professional learning opportunities, engaging over 700 classroom teachers and non-formal educators. DEP partnered with numerous organizations to highlight educational programs and resources about NYC's sewer systems, stormwater resiliency, and environmental stewardship; these organizations included South Street Seaport Museum, New York Aquarium, NY Sea Grant, SUNY Maritime, NY State Parks, NYC Department of Sanitation and NYC Public Schools.

DEP continued to enhance, distribute, and workshop the following three educational resources, which were shared with thousands of educators citywide via DEP's website, the Education Office's monthly e-newsletters for educators, and ongoing professional learning opportunities for teachers and non-formal educators.

³ <https://www.nyc.gov/site/dep/environment/education-programs.page>



Operation P.O.O.P. pet owner outreach.



Participants at a NYC Parks Urban Park Rangers event.

- [Understanding NYC's Water Story: A Curriculum Guide for the Classroom](#): This comprehensive guide for K-8 teachers explores various content related to our shared water resources. The guide includes six units and features a variety of lessons and activities to enhance teaching styles and learning about the New York City water cycle. These lessons and activities are centered on science, technology, engineering, and math (STEM) concepts, and humanities subjects, and are designed to support an interdisciplinary, hands-on approach to teaching.
- [NYC Water Virtual Tours](#): Designed using ArcGIS StoryMaps, these virtual tours offer a collection of historical imagery, in-the-field footage, interactive maps, and staff interviews for a fun and easy way to discover the New York City drinking water supply, sewer system, wastewater treatment system, and harbor protection.
- [Jamaica Bay Education Resource Directory](#): This guide provides an important teaching tool for educators and features partner organizations and educational opportunities, such as resources and program opportunities in and around the Jamaica Bay watershed. In 2024, the guide was updated and reprinted to include new organizations and opportunities throughout the watershed.

Harbor Protectors. This stewardship program recruits volunteers from schools and community groups to participate in activities such as clearing off catch basin gratings, stenciling educational/informational messages on the sidewalks near catch basins, caring for rain gardens and participating in shoreline cleanups. In addition to beautifying communities and keeping pollution out of NYC's waterways, these stewardship actions also aid DEP in its critical mission to protect and improve water

quality across the five boroughs. The Harbor Protectors program hosted an event with 41 students and educators from I.S. 285 in Brooklyn.

SAFE Disposal Events. SAFE Disposal events provide a designated location for New Yorkers to dispose of waste, including harmful household products. These events help the City reduce the risk of pollution in stormwater runoff through trash management and illegal dumping prevention. The City distributed more than 2 million mailers to residents and held 5 events covering all NYC boroughs with more than 17,000 people participating.

Urban Park Rangers. NYC Parks Urban Park Rangers offered to more than 22,000 participants, through several programs, more than 1,200 events focused on ecology, stormwater, and waterbodies. These programs include The Natural Classroom: People, Place and Parks for school groups; Custom Adventures for summer camp and youth groups; and free Weekend Adventures and Pop-Up Adventures for the public.

Each park in New York City is unique and is shaped by its natural features, the plants and animals that live there, and the communities it serves. Through these programs students enjoy exploring these unique urban spaces in active and engaging on-site learning experiences that highlight real-world examples of concepts, ideas, and content learned in the classroom.

During the educational tours, students investigate the diversity of parks and green spaces in the City, how these spaces improve the daily lives of New Yorkers, and how Parks maintains the parks and recreational spaces. Over the years, these types of immersive, on-site outdoor environmental programs have been shown to advance

academic achievement, build character, promote wellness and good health, cultivate environmental stewardship, and foster community and ecological resilience.

Environmental Compliance Outreach (ECO) to

Business Community. DEP has continued to work with its primary partners, including local business groups, trade associations and city agencies, to conduct outreach activities reaching over 200 businesses citywide. DEP has attended business resource fairs organized by local Business Improvement Districts (BIDs) and partners like the Queens, Bronx, & Brooklyn Chambers of Commerce where direct one-on-one engagement with businessowners and prospective businessowners was conducted around BMPs and local environmental regulations on safe disposal. Local partners have promoted DEP's resources in newsletters and other public facing materials throughout the year including DEP's "Trash It. Don't Flush It." PSA campaign.

DEP also continued its environmental compliance education program in spring and summer 2024, titled "Mercury Free NYC," which aims to mitigate mercury contamination and pollution in the environment from industry businesses that work with mercury-containing materials. Additionally, DEP attended the annual convention of 2024 Greater NY Dental Meeting and engaged practitioners and dental educators on safe disposal regulations. The conference was attended by over 13,000 participants.

Southeast Queens Outreach. DEP conducted door-to-door residential environmental education outreach to reduce sewer backups, targeting areas where field operations investigated disposal problems. The program has reached an estimated 29,000+ people.

Operation P.O.O.P. – Pet Owners Outreach Program.

DEP launched Operation P.O.O.P. to raise awareness among pet owners about the harmful environmental effects of improper pet waste disposal. In collaboration with the Mayor's Office and various non-profit organizations, DEP participated in 22 events, distributing disposal bags and other pet-related products to attendees. These events collectively drew 2,000 participants, fostering greater community engagement and promoting responsible pet ownership.

Table 1 lists measurable goals, measures, and the status of the City's implementation of each Public Education and Outreach BMP.

Goals for 2025

The City will continue to implement the programs listed as "planned" in **Table 1**, including SAFE Disposal events and environmental education programming. DEP will continue to collaborate with other agencies on outreach and MS4-related materials. The City will also continue to develop educational materials and will increase our efforts to collaborate with stakeholders.

Hunters Point Community Middle School students at an educational event.



Table 1: Public Education and Outreach – 2024 Status of Implementation

BMP	Measurable Goals	Measures	Status
Provide an ongoing public education and awareness program.	Develop, implement, and assess an ongoing public education and outreach program.	List of education and outreach programs/ events and relevant metric(s) for each (e.g., number of participants, events, or materials distributed)	• Adopt-a-Highway (81 materials distributed) • Community Clean-ups (296 events) • DEP Annual Art and Poetry Contest (3 events; 2,175 participants) • DEP Environmental Education (139 events; 22,738 participants; 35,125 materials distributed) • Forgot Your Bag? (231 canine waste dispensers in the MS4 area) • Harbor Protectors (1 event; 41 participants) • Operation P.O.O.P. (22 events; 2,000 participants) • Parks Environmental Education (25 events; 2,581 participants) • Park Stewardship (554 events; 6,859 participants) • SAFE Disposal Events (5 events; 17,433 participants; 2,278,115 materials distributed) • "Trash It, Don't Flush It" Outreach (23 events; 5,950 households contacted) • Urban Park Rangers Natural Classroom (582 events; 13,091 participants) • Visitor Center at Newtown Creek (198 events; 5,549 participants) • Weekend, Pop-up, and Custom Adventures (672 events; 9,612 participants)
		List of planned educational and outreach programs/ activities to be undertaken in the next reporting cycle	• Automotive Associations Outreach • Community Clean-ups • DEP Annual Art and Poetry Contest • DEP Environmental Education • Forgot Your Bag? • Operation P.O.O.P. • Parks Environmental Education • Park Stewardship • SAFE Disposal Events • "Trash It, Don't Flush It" Outreach • Urban Park Rangers Natural Classroom • Visitor Center at Newtown Creek • Weekend, Pop-up and Custom Adventures
	Develop and implement educational and informational activities related to illicit discharges for businesses and the public.	List of education & outreach programs/ events and relevant metric(s) for each (e.g., number of participants, events, or materials distributed)	• DEP Annual Art and Poetry Contest (3 events; 2,175 participants) • Community Clean-ups (296 events) • DEP Environmental Education (139 events; 22,738 participants; 35,125 materials distributed) • Forgot Your Bag? (231 canine waste dispensers in the MS4 area) • Harbor Protectors (1 event; 41 participants) • Operation P.O.O.P. (22 events; 2,000 participants) • Parks Environmental Education (17 events; 2,213 participants) • Park Stewardship (554 events; 6,859 participants) • SAFE Disposal Events (5 events; 17,433 participants; 2,278,115 materials distributed) • "Trash It, Don't Flush It" Outreach (23 events; 5,950 households contacted) • Urban Park Rangers Natural Classroom (582 events; 13,091 participants) • Visitor Center at Newtown Creek (198 events; 5,549 participants) • Weekend, Pop-up, and Custom Adventures (672 events; 9,612 participants)
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Facilitate public reporting of illicit discharges	Promote, publicize, and facilitate public reporting of illicit discharges and potential water quality impacts.	Summary of public reports received by 311	The City received 95,568 service requests for the 311 complaint types listed in this report as relevant to stormwater pollution.

311 is New York City's main source of government information and non-emergency services.

It provides the public with quick, easy access to all New York City government services and information. The public may connect with 311 24 hours a day, 7 days a week, 365 days a year by:

- Visiting 311 online at nyc.gov/311;
- Calling 311 or (212) NEW-YORK, (212) 639-9675, from outside New York City;
- Texting 311-692;
- Downloading the NYC 311 mobile app for Apple or Android devices; or
- Tweeting to @nyc311

311 is accessible to non-English speakers, available online in over 50 languages and by phone in over 170 languages.

311 facilitates transparency and accountability. Service requests and agency responses are available to public as open data online.

Currently, the public can use 311 to access information on many topics relevant to stormwater pollution and water quality. The public is also encouraged to use 311 to report information relevant to stormwater pollution:

- **Waterway Complaint.** Report floatables, trash, oil, gasoline, sewage, or an unusual color in a waterway; report a potential illicit discharge from an MS4 outfall.
- **Dry Weather Sewage Discharge Complaint.** Report water flowing through a sewer outfall pipe during dry weather.
- **Dumping in Catch Basin or Sewer.** Report grease, gasoline, natural gas, cement, oil, sewage, chemicals, or other substances going into a sewer or catch basin.
- **Oil Spill.** Report an oil spill.
- **Illegal Dumping Complaint.** Report the dumping of large amounts of trash.
- **Catch Basin Complaint.** Report a storm drain that is missing its cover, clogged, sunken, raised, damaged, or defective.





Volunteers at a Parks Stewardship clean-up event.

Public Involvement and Participation

Involving the public in the implementation of the SWMP is a fundamental requirement of the City's MS4 Permit. Whether it is NYC residents who enjoy recreation in local waterbodies, real-estate developers who build in the MS4 area, groups who organize waterbody cleanups, or environmentalists who advocate for a healthier harbor, there is a wide range of stakeholders who participate in the City's efforts to improve water quality.

2024 Program Assessment

The City continued to engage the public using virtual platforms, including on SWMP implementation. DEP published the draft 2023 MS4 Annual Report on the DEP website and hosted the 2023 MS4 Annual Report meeting as a hybrid event (in-person at Coney Island and virtual) in June 2024. The public was encouraged to provide comments on the draft MS4 Annual Report. These comments were addressed in Appendix 1 of the final 2023 MS4 Annual Report submitted to NYSDEC on September 30, 2024 and published on the DEP website.

The City published this draft MS4 Annual Report on the DEP website on June 2, 2025. This report covers SWMP implementation for the 2024 calendar year. The City hosted the MS4 Annual Report meeting at 4:00 pm on June 16, 2025. The public comment period for the draft 2024 MS4 Annual Report ran from June 2, 2025 through July 11, 2025.

Table 2 lists measurable goals, measures, and the status of the City's implementation of Public Involvement and Participation BMPs.

Goals for 2025

The City plans to continue engaging with local stakeholder groups and participating in community events. In compliance with MS4 Permit requirements, the City also plans to publish and respond to comments on this Annual Report.

Table 2: Public Involvement and Participation – 2024 Status of Implementation

BMP	Measurable Goals	Measures	Status
Provide and promote the opportunity to report and receive stormwater information.	Identify mechanism for public to report and request stormwater-related information including contact process to receive and respond to requests.	Summary of public reports and requests received by MS4@dep.nyc.gov	The City responded to inquiries on various SWMP activities including C/PC permitting, potential construction projects, USWR and general stormwater discharge inquiries.
Provide public opportunity to participate in SWMP implementation.	Seek public input on SWMP implementation and provide public access to Annual Reports.	Date and location of draft Annual Report posted for public review and comment period	On May 22, 2024, the City posted on the DEP website the draft 2023 MS4 Annual Report, which was available for public comment through July 2, 2024.
		Date and time of draft annual report stakeholder meeting and number of participants	June 10, 2024, at 4:00 pm; 54 individuals participated (online and in person)
		Summary of comments received on draft Annual Report and City responses	See Appendix 1 of 2023 MS4 Annual Report
		List of involvement and participation activities (e.g., programs, events, key stakeholder meetings)	• 2023 MS4 Annual Report Public Meeting (1 event, 54 participants) • Community Clean-ups (296 events) • Coney Island Community Workshop (1 event, 86 participants) • Green Roof Design for NYC Stormwater Permitting WS (1 event, 371 participants) • Guidance on Geotechnical Investigations for SMP (1 event, 194 participants) • NYC SWPPP Training for DDC Public Buildings (1 event, 48 participants) • NYC SWPPP Workshop (1 event, 70 participants) • Park Stewardship (554 events; 6,859 participants) • Qualified Inspector Guidance for Compliance with NYC SWP (1 event, 153 participants) • Workshop for DDC staff and stakeholders (3 events, 485 participants)
		Status and location of final Annual Report and the SWMP Plan	The SWMP Plan and final MS4 Annual Reports are available at www.nyc.gov/dep/ms4 .
		List of planned participation and involvement programs/ activities to be undertaken in next reporting cycle	• Community Clean-ups • Park Stewardship • Presentation of this 2024 MS4 Annual Report

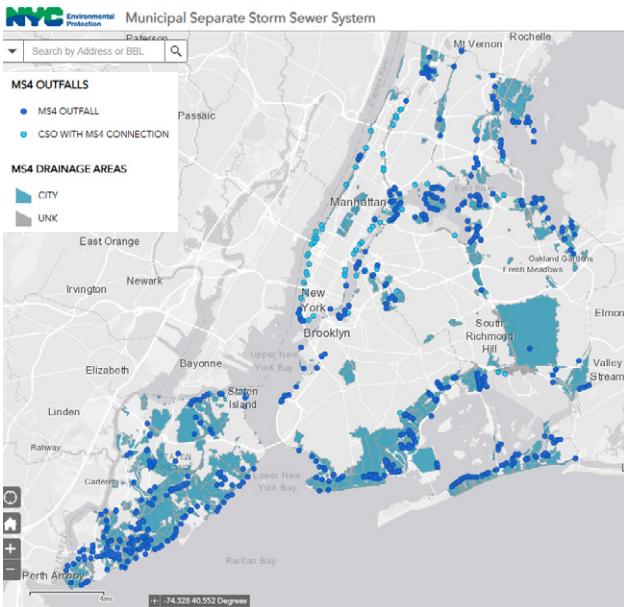
Mapping

The City maintains a GIS-based map of the urbanized area and its MS4 outfalls. The map, together with supportive documentation, satisfies each of the requirements listed in the MS4 Permit (see IV. Stormwater Management Program Requirements (C)(2)(a-h)). The City has several programs that document and map important information about NYC, including all its outfalls and drainage areas. Much of the information gathered by these programs is available to the public through NYC Open Data at opendata.cityofnewyork.us.

As required by the 2015 MS4 Permit, the City submitted with the SWMP Plan the Preliminary MS4 Map, which showed the MS4 drainage areas and outfalls known as of August 1, 2018. The 2015 MS4 Permit further required the City to update and submit, along with supplemental information relevant to stormwater management, the final MS4 map of the permit cycle on August 1, 2020. The next update of the MS4 map is due August 1, 2027, five years from the effective date of the current MS4 Permit.

2024 Program Assessment

The current MS4 Map (as submitted to NYSDEC on August 1, 2020) is available to the public in an interactive format at nyc.gov/dep/ms4map. The MS4 Map includes 764 outfalls, more specifically 693 MS4 outfalls and 71 CSO outfalls with MS4 connections. As stated in the SWMP Plan, GIS datasets are dynamic and change over time as updates are received



The MS4 Map is available at nyc.gov/dep/ms4map.

and processed. As a result, the MS4 Map may be periodically updated as new information becomes available.

Table 3 lists measurable goals and measures with the implementation status of the City’s Mapping BMPs.

Goals for 2025

The City will continue to update GIS datasets for the next map due August 1, 2027.

Table 3: Mapping Program – 2024 Status of Implementation

BMP	Measurable Goals	Measures	Status
Map the MS4 area.	Final Map required by 2015 MS4 Permit submitted August 1, 2020.	Status and location of the MS4 Map	The MS4 Map is online and available to the public at nyc.gov/dep/ms4map
		Number of known MS4 outfalls mapped	764 outfalls mapped
	Update MS4 Map 5 years from effective date of permit (EDP).	Date of latest updated MS4 Map	Current map dated August 1, 2020; updated map due August 1, 2027



Discharge entering a storm drain.

Illicit Discharge Detection and Elimination (IDDE)

Illicit discharges are non-stormwater, unauthorized discharges into and from the MS4. Examples include sanitary pipes illegally connected to storm sewers and substances like oils dumped into catch basins. The City has longstanding, effective programs for detecting, identifying, and eliminating illicit discharges citywide. These include the Shoreline Survey, Sentinel Monitoring Program, Harbor Survey Program, and Emergency Response Units. City agencies also detect and abate illicit discharges discovered and confirmed to be originating from their properties.

The City has PEO programs for the public, businesses, and City employees on the hazards of improper disposal of materials and actions to take to reduce the risk of an illicit discharge. City employees working off-site, and the public are encouraged to call 311 if they see a potential illicit discharge.

Typically, once the City identifies a potential illicit discharge, it initiates a crackdown to find the source and then takes steps to abate the discharge, if confirmed to be illicit. The crackdown process may include a series of

complex steps both in the office and in the field. Each crackdown investigation is unique; some can take a few hours, while others can take days or months depending on the location, the number of sources, the logistics and the complexity of the drainage area.

2024 Program Assessment

During this reporting period, the City continued to implement its citywide IDDE Program: characterizing outfalls, sampling receiving waterbodies, source tracking, and eliminating illicit discharges. The City detected illicit discharges and eliminated them citywide through the DEP Response and Compliance Units; Sentinel Monitoring and Shoreline Survey programs; and agency actions at their municipal facilities in the MS4 area.

The City is working to investigate the illicit discharges that are within the City's jurisdiction that were detected in 2024 but not eliminated within the calendar year. Some illicit discharges reported as detected will not have an accompanying abatement record because of circumstances such as an investigation's resulting in the determination that the discharge was not illicit or that the matter should be turned over to NYSDEC. Most IDDE discharges are isolated incidents that are abated and cleaned up immediately or well before a Phase I letter to NYSDEC is required. Fewer than 10 during the 2024 reporting year were more persistent; each of those required a Phase I letter to NYSDEC, which DEP timely provided.

Under the Shoreline Survey Program, the City conducts an outfall reconnaissance inventory (ORI), surveying 100

percent of shoreline outfalls every 10 years. MS4 outfalls are not evenly distributed throughout the shoreline; therefore, the number of outfalls the City inventories each year depends on the area of shoreline inventoried. In 2024, the City surveyed 246 outfalls; an updated outfall list that includes all MS4 outfalls is included as Appendix 2 to this Annual Report.

Established as an enhancement to the Shoreline Survey, the DEP Sentinel Monitoring Program entails the regular monitoring and sampling of waterbodies throughout NYC. The purpose of the program is to detect continuous, intermittent, and/or transitory illicit discharges. Using a set list of Global Positioning System (GPS) coordinates, DEP goes to sentinel stations quarterly, collects water for samples, and analyzes the samples for pathogens. DEP may also use Harbor Survey data for this effort. The results of the mini-shoreline investigations and sampling are included in the Integrated Sentinel Monitoring Reports.

Table 4 lists measurable goals and measures with the status of the City's implementation of IDDE BMPs and represents citywide metrics.

Goals for 2025

The City will continue its IDDE program, including the Shoreline Survey, Harbor Survey, Sentinel Monitoring, Emergency Response Units, and responding to issues discovered on-site at municipally owned facilities.

Non-stormwater discharges (e.g., water line flushing potable water, AC unit condensate, water from crawl spaces, dechlorinated swimming pool discharges) into the MS4 are generally considered illicit. However, some non-stormwater discharges are allowed, including those from firefighting activities and discharges determined by DEP not to be significant contributors of pollutants. DEP makes the determination on a case-by-case basis. To obtain DEP approval to discharge non-stormwater into the MS4, email DEP at MS4@dep.nyc.gov with the subject line "Non-stormwater Discharge Inquiry."

DEP conducts dye test to track down illicit discharge.



Table 4: IDDE Program – 2024 Status of Implementation

BMP	Measurable Goals	Measures	Status
Detect and eliminate illicit discharges.	Detect and eliminate illicit discharges including illegal dumping.	Number of illicit discharges detected	238*
		Number of illicit discharges abated	229*
		Number of and type of enforcement actions	DEP issued 9 summonses and 59 Commissioner's Orders; DSNY issued 1,212 summonses†
	Conduct an outfall reconnaissance inventory with 100% completed every 10 years.	Updated outfall spreadsheet submitted to NYSDEC	Appendix 2 – SPDES Outfall Listing
		Number of MS4 outfalls for which an outfall reconnaissance inventory (ORI) was performed	246
Prepare reports.	Prepare a Special Report for waterbodies with fecal coliform above 200 colonies/100 ml and for unauthorized non-stormwater discharges within 3 years of August 1, 2015 and annually thereafter.	Status and location of Integrated Sentinel Monitoring Report submitted to NYSDEC	Available on the DEP website under the header Sentinel Monitoring Program: https://www.nyc.gov/site/dep/water/harbor-water-quality.page
Provide an ongoing public education and awareness program.	Implement a public education program on potential hazards of illicit discharges.	List of education activities for public employees	Pollution Prevention/Good Housekeeping agency staff training
		List of education and outreach programs/events for the general public and businesses, and relevant metric(s) for each (e.g., number of participants, event, or materials distributed)	- Community Clean-ups (296 events) - DEP Annual Art and Poetry Contest (3 events; 2,175 participants) - DEP Environmental Education (139 events; 22,738 participants; 35,125 materials distributed) - Forgot Your Bag? (231 canine waste dispensers in the MS4 area) - Harbor Protectors (1 event; 41 participants) - Operation P.O.O.P. (22 events; 2,000 participants) - Parks Environmental Education (17 events; 2,213 participants) - Park Stewardship (554 events; 6,859 participants) - SAFE Disposal Events (5 events; 17,433 participants; 2,278,115 materials distributed) "Trash It, Don't Flush It" Outreach (23 events; 5,950 households contacted) - Urban Park Rangers Natural Classroom (582 events; 13,091 participants) - Visitor Center at Newtown Creek (198 events; 5,549 participants) - Weekend, Pop-up, and Custom Adventures (672 events; 9,612 participants)
		List of planned educational and outreach programs to be undertaken in next reporting cycle	- Automotive Associations Outreach - Community Clean-ups - DEP Annual Art and Poetry Contest - DEP Environmental Education - Forgot Your Bag? - Operation P.O.O.P. - Parks Environmental Education - Park Stewardship - SAFE Disposal Events "Trash It, Don't Flush It" Outreach - Urban Park Rangers Natural Classroom - Visitor Center at Newtown Creek - Weekend, Pop-up and Custom Adventures
Provide training for staff.	Implement a staff training program on IDDE.	Number of staff training opportunities/ events	14 events (includes trainings for DEP, DPR, and DOC staff)
		Number of DEP staff trained on IDDE	99 participants total‡

* Number includes illicit discharges detected/abated by DEP within the MS4 area and illicit discharges detected/abated by City agencies on-site at municipal facilities in the PP/GH Inventory. The total number of illicit discharges detected may not be counted by the City as abated if the resolution action includes transferring a case to DEC. Discharges will not necessarily be detected and eliminated within the same calendar/reporting year depending on date of detection and/or complexity of required abatement procedures.

† Number includes enforcement actions taken by DEP within the MS4 area and excludes cases DEP referred to NYSDEC; DSNY summons are for vehicle spillage and the extrusion of noxious liquids.

‡ Participant total includes those who attended multiple training events.



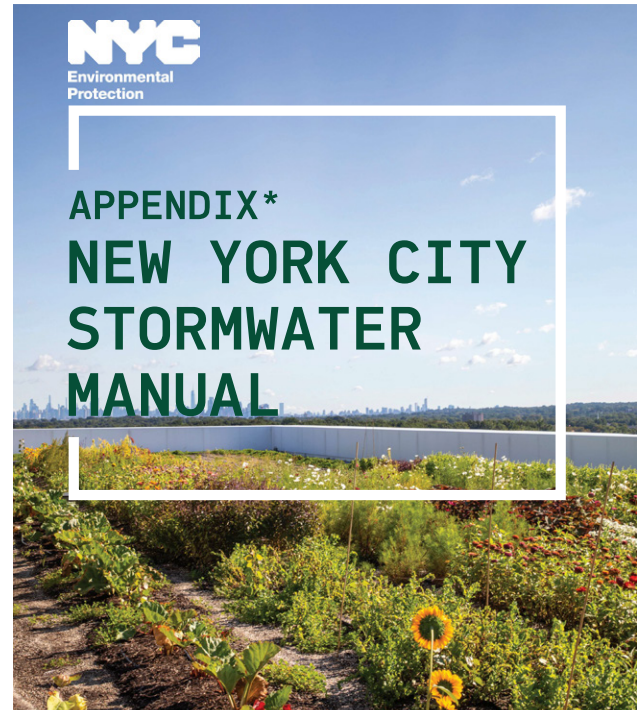
Installation of porous pavement and subsurface storage at T. Mina Supply, Inc. in Queens.

Construction and Post-Construction

The Construction and Post-Construction programs required by the MS4 Permit continue to be implemented through DEP's Stormwater Permitting program. NYSDEC requires development and redevelopment projects in the NYC MS4 areas that disturb one acre or more of soil to obtain coverage for stormwater discharges under the SPDES General Permit for Stormwater Discharges from Construction Activity (GP-0-020-001) (CGP).⁴ The Stormwater Permitting Program complements the NYSDEC CGP program in the NYC MS4 area⁵ through the review and approval of stormwater pollution prevention plans (SWPPPs) and inspection of construction sites both for stormwater impacts and for operation of post-construction stormwater management practices (SMPs).

As part of the Stormwater Permitting program, DEP issues two types of stormwater permits for covered development projects: the Stormwater Construction Permit and the Stormwater Maintenance Permit. Rules governing this permitting first went into effect on June 1, 2019, and were amended in February 2022 to meet the reduced threshold identified in the Lot Size Soil Disturbance Threshold Study required by the 2015 MS4 Permit. The 2022 Unified Stormwater Rule (USWR)⁶ aligned and streamlined stormwater-related requirements throughout NYC. It expanded the Stormwater Permitting Program to include combined sewer system areas, lowered the soil disturbance threshold that triggers the program from one acre to 20,000 square feet, and included as an additional trigger for construction permitting the creation of 5,000 square feet or more of new impervious surface.

While projects are under construction, Erosion and Sediment Controls (ECS) may be required. ESC are designed to minimize the discharge of pollutants during development. ESC activities include structural ESC practices, construction sequencing to minimize exposed soils, soil stabilization, dewatering control measures, and other pollution prevention and good housekeeping practices (PPGH) appropriate for construction sites. Many of the SMPs that will be built under the Stormwater Permitting Program are still under construction. More than half of the vegetated SMPs being constructed are



Updated New York City Stormwater Manual following adoption of Unified Stormwater Rule

in the MS4 area; the majority of these SMPs will provide retention capabilities because the USWR prioritizes vegetation and retention, as reflected in the SMP Hierarchy included in the NYC Stormwater Manual.

In MS4 areas, if a project disturbs 20,000 square feet or more, discharges to an impaired waterbody, and increases the impervious area on site, then it must also meet no net increase (NNI) requirements. An impaired waterbody is one that does not meet water quality standards for one or more POCs including pathogens, nutrients, and floatables. NNI requirements can be met by implementing both SMPs and BMPs, such as inspecting and cleaning onsite catch basins. In the MS4, about half of the area managed by SMPs will also require implementation of BMPs per NNI requirements. The waterbodies receiving the most benefit from NNI requirements include Jamaica Bay Eastern and its tributaries, Flushing Creek/Bay, and Bergen Basin.

Figure 1 illustrates the breakdown of active, permitted projects that are anticipated to have SMPs or GI in combined sewer and/or MS4 areas. Since the implementation of the DEP online Stormwater Permitting and Tracking system (SWPTS) in 2019, more than 590 project applications that do or likely will require SMPs in either combined sewer or MS4 areas have been submitted.

4 In August 2024, NYSDEC proposed changes to its Construction General Permit that reflect for NYC the permitting triggers included in the NYC Stormwater Construction permitting program, i.e., 20,000 square feet or more of soil disturbance and creation of 5,000 square feet or more of impervious surface. The final permit (GP-0-025-001) with these provisions became effective as of 1/29/25.

5 The City program was extended to the combined sewer area by Local Law 91 of 2020, effective March 26, 2021.

6 <https://www.nyc.gov/site/dep/water/unified-stormwater-rule.page>

DEP will continue to update information on the Stormwater Permits webpage⁷, which includes a high-level process flow diagram and templates for documents needed for the permitting process. DEP also hosts monthly workshop webinars to explain eligibility requirements and guide users through the stormwater permitting process. Registration opens a month in advance for each workshop. The previous presentations — *Guidance on Construction Close-out Process*, *Guidance on Geotechnical Investigations for SMP Selection and Design*, *Qualified Inspector Guidance*, and *Green Roof Design for NYC Stormwater Permitting* — can all be accessed on the Stormwater Permits webpage. DEP is also requesting input from developers and those going through the permitting process. Those interested in having DEP host a webinar on a specific topic should fill out the online survey at <https://dep.wufoo.com/forms/zr8ip61112p87z>.

2024 Program Assessment

The City reviewed 697 SWPPPs citywide (290 of which are in the MS4 and 36 are connected to both the MS4 and the CSS), and issued 184 Stormwater Construction Permits (with 93 within the MS4 and 91 in the CSS). The total number of active Stormwater Construction Permits citywide was 331 (with 195 within the MS4). A list of active Stormwater Construction Permits is available through SWPTS at <https://deppermits.microsoftcrmportal.com/>. SWPTS is also the site for applicants to submit and

then track the review and approval of their SWPPPs and issuance of their permits.

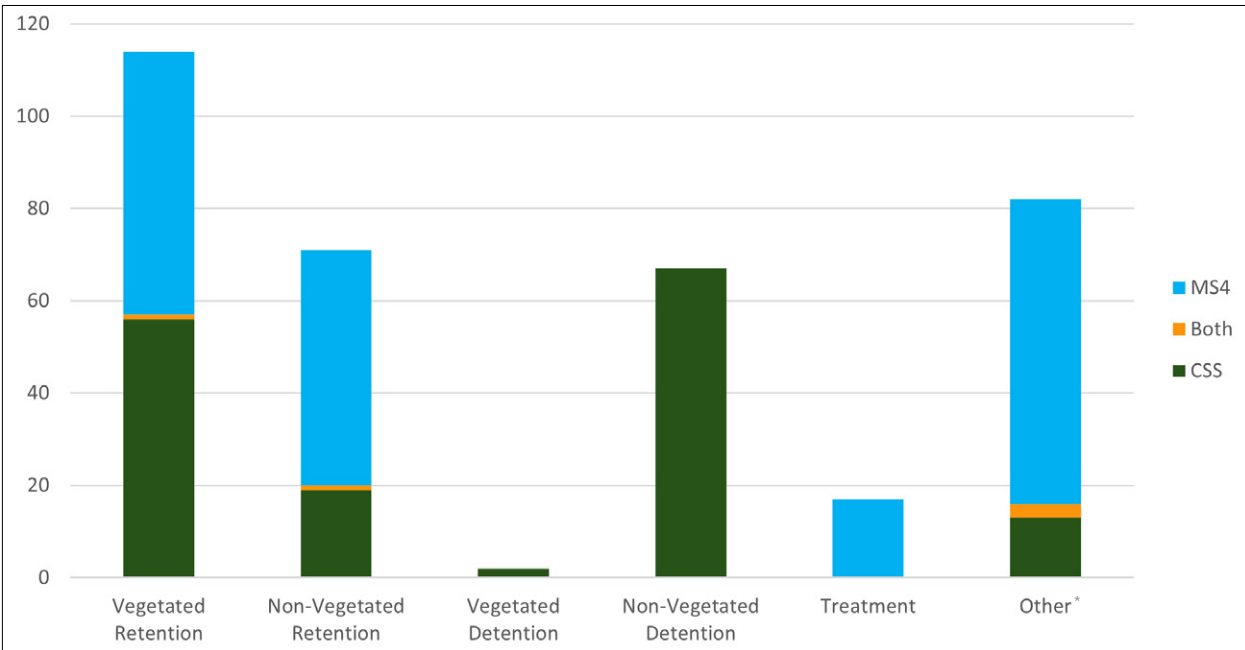
The City inspected 49% of active construction sites citywide at least once for a total of 161 inspections. The City issued 80 summonses citywide (34 in the MS4 and 46 in the CSS). The City also issued nine Commissioner's Orders citywide (four in the MS4 and five in the CSS). Of the 326 new projects received by the City, 120 met the criteria for the NNI requirement. NNI is a requirement in the Special Conditions section of the MS4 Permit (II.B.1), under which projects that discharge to waters that are impaired but do not have a TMDL allocation, must implement SMPs that preclude any potential increase in pollutant loading.

Table 5 lists measurable goals and measures with the status of the City's implementation of C/PC Program BMPs.

Goals for 2025

DEP's Stormwater Permitting Group plans to continue outreach efforts to the construction community, to review and approve SWPPPs, and to inspect sites that have construction permits. Additionally, City staff will continue to respond to inquiries and provide applicants with information and training, as needed or requested.

Figure 1. Summary of active stormwater construction permit post-construction SMPs in combined sewer and MS4 areas.



* Projects in the "other" category include dual systems (systems that share a drainage area but have multiple components, such as permeable pavers coupled with bioretention) and impervious area reductions.

⁷ <https://www.nyc.gov/site/dep/water/stormwater-permits.page>

Table 5: C/PC Program – 2024 Status of Implementation*

BMP	Measurable Goals	Measures	Status
Construction Site Stormwater Runoff Control	Review and approve SWPPPs.	Number of SWPPPs reviewed	697 citywide† (MS4 only: 290; both MS4/CSS: 36; CSS only: 371)
	Inspect construction sites and enforce Stormwater Construction Permits.	Number of active construction sites	331 citywide (195 in the MS4; 136 in the CSS)
		The percentage of active Stormwater Construction Permit sites inspected once	49% or 161/331 citywide (MS4: 46% or 89/195; CSS: 53% or 72/136)
		The percentage of active Stormwater Construction Permit sites inspected more than once	<1% or 11/331 citywide (MS4: <1% or 4/195; CSS: <1% or 7/136)
		Number and type of enforcement actions	- Commissioner's Orders: 9 citywide (4 in the MS4, 5 in the CSS) - Summonses: 80 citywide (34 in the MS4, 46 in the CSS)
		Number of construction site stormwater control trainings planned or completed	- Completed: 10 - Planned: 1
Post-Construction Stormwater Management	Inspect post-construction sites and enforce Stormwater Maintenance Permits.	Number and type of enforcement actions	0
		Number of post-construction stormwater management practices (P-C SMPs), including the type of practice and the contributing impervious area managed by each practice within the MS4 areas	1 Media Filter - 3.43 acres 1 Stormwater Gallery - 1.51 acres 1 Constructed Wetland - 3.14 acres 1 Other Area Reduction Type - 1.01 acres 5 Porous Pavement - .92 acres 3 Hydrodynamic - 1.07 acres 1 Drywell - 1.16 acres
		Number and type of P-C SMPs inspected	0
		Number and type of P-C SMPs properly maintained, as determined by inspections	0
		Number of individuals trained in inspection of long-term operation and maintenance of P-C SMPs	14

* This chart has been updated with finalized records for the final draft of this report.

† Sites are classified as being connected to the MS4 only, the CSS only, or both the MS4 and CSS.

Pollution Prevention/ Good Housekeeping (PP/GH) for Municipal Operations and Facilities

The City has an extensive network of municipal facilities and operations that serve New Yorkers and keep vital infrastructure functioning properly. To help reduce the potential for these facilities and operations to pollute stormwater, the City implements a comprehensive PP/GH Program, which:

- Maintains an inventory of municipal facilities and operations, prioritizes them for their potential to contribute pollution to stormwater runoff and assesses them on 2, 5 and 7-year cycles for high, medium and low priority, respectively;
- Provides guidance on stormwater control measures (SCMs) to reduce stormwater pollution from municipal facilities and operations;
- Evaluates runoff reduction techniques including GI in planned municipal upgrades (PMUs); and
- Trains City staff on PP/GH practices.

The City also updates the facility inventory and priority ratings, as they are not static and can change from year to year based on new information.

2024 Program Assessment

Inventory

The facility inventory is dynamic in nature: facilities can be consolidated or separated, newly occupied or vacated, or confirmed served by the MS4 or combined sewers. The City updates the inventory annually. At the end of 2024, there were 529 facilities in the inventory: 34 high priority, 262 medium priority, and 233 low priority.

Facility and Off-site Assessments

Facility assessments evaluate stormwater controls associated with a facility's operations and assess stormwater pollution potential. Based on pollution potential, a facility may be categorized as a high, medium,

or low priority site. The City assessed 108 facilities including sites owned or operated by DSNY, DOE, Parks, NYPD, FDNY, DOT, and DOC.

The City also assessed off-site operations. Off-site operations are municipal activities, many of which are performed in locations such as Bluebelts, parks, and playgrounds, and in the right of way (ROW); these operations include activities such as pavement cleaning, road repairs, and catch basin cleaning. The off-site operations are assessed against the potential risk of impacts to stormwater runoff due to activities associated specifically with the operations. Typically, this assessment includes evaluation of waste-generating activities and their management, as well as stormwater controls.

Stormwater Control Measures

City agencies continued to implement stormwater control measures (SCMs) such as cleaning catch basins, sweeping pavement, landscaping and practicing proper storage of materials. In 2024, DEP worked with DSNY to conduct demonstrations using multiple types of equipment from various vendors for a roadway porous pavement cleaning pilot. The agencies identified a modified street sweeper, which can be used to pick up large-scale debris, such as leaves and litter, and includes a deep-cleaning head attachment designed to deep clean the porous pavement by simultaneously applying high pressure water and vacuuming. DEP is currently considering utilizing this equipment to clean the ROW porous pavement as a short-term solution.

Pollution Prevention Training

The City continued to administer PP/GH training in both classroom (in-person and virtual), and computer-based environments. More than 9,900 municipal employees received PP/GH training through DEP virtual, classroom-based sessions and through their agencies.

Table 6 lists measurable goals and measures with the status of the City's implementation of PP/GH Program BMPs.

Goals for 2025

The City will continue to assess municipal facilities and off-site operations based on their priority status; refine the facility and off-site operation inventory; inspect and maintain municipally constructed GI; and administer staff trainings.

Table 6. PP/GH Program 2024 Implementation Status

BMP	Measurable Goals	Measures	Status
Provide program for PP/GH for municipal operations and facilities	Maintain an inventory of municipal operations and facilities.	Number of facilities, by priority	High – 34 Med – 262 Low – 233
		Number of off-site operations, by priority	Med - 16 Low - 3
	Implement the PP/GH Program.	Acres of parking lots swept	9,131.5*
		Miles of street swept	906,892.9*
		Number of catch basins inspected	25,626†
		Number of catch basins cleaned	8,387†
		Number of catch basins maintained	545‡
		Miles of storm sewers inspected	437‡
		Miles of storm sewers cleaned	437‡
		Number of self-assessments conducted – high priority	8
		Number of self-assessments conducted – medium priority	91
		Number of self-assessments conducted – low priority	9
Provide staff awareness training	Implement a PP/GH Training Program.	Number of staff trained in-person	9,327
		Number of staff trained computer-based	591
Consider runoff reduction and GI	Consider runoff reduction techniques and GI in PMUs.	Number of municipal upgrade projects where GI or runoff reduction techniques were incorporated	0
Provide training to responsible staff	Implement a GI inspection and maintenance training program.	Number of staff trained in inspection and maintenance of municipally constructed GI assets and post-construction SMPs	0
Inspect and maintain GI assets	Implement a GI inspection and maintenance program.	Number of municipally constructed GI assets and post-construction SMPs inspected	12
		Number of municipally constructed GI assets and post-construction SMPs maintained	12

* Based on citywide numbers for ROW, arterial highways, bridge roadways, tunnels, and underpasses, and work done by agencies at their facilities listed in the inventory.

† Data include the DEP ROW catch basin program based on the 2020 MS4 map and work done by agencies at their facilities listed in the inventory.

‡ Based on work done by DEP for all sewers citywide and work done by agencies at their facilities listed in the inventory.



DEP I/C inspectors at a site inspection.

Industrial and Commercial Stormwater Sources

NYSDEC requires certain industrial facilities to obtain coverage for stormwater discharges under the State Pollution Discharge Elimination System (SPDES) Multi-Sector General Permit for Stormwater Discharge from Industrial Activities (GP-0-23-001) (MSGP). While NYSDEC issues the MSGP, DEP is responsible for the associated inspections and enforcement of the MSGP at privately owned MSGP-covered facilities in the MS4 area. The DEP Industrial/Commercial (I/C) program group also assesses unpermitted industrial and commercial facilities in the City's MS4 area and sends its observations to NYSDEC to facilitate NYSDEC's determination of the facilities' potential need for SPDES permit coverage. DEP maintains a list of these permitted and unpermitted facilities, referred to as the I/C Facility Inventory.

2024 Program Assessment Unpermitted Facility Assessments

DEP continued assessing for SPDES applicability the remaining unpermitted facilities from its original inventory, while also supplementing its inventory with newly identified unpermitted facilities. During the 2024 reporting period, DEP assessed 17 unpermitted facilities for SPDES permit applicability. Of the 17 facilities assessed, DEP identified nine facilities for referral to NYSDEC for potential MSGP, MSGP no-exposure, or other SPDES permitting. The remaining eight facilities did not meet the criteria for referral and have been classified as requiring no further action.

Since the start of the I/C Program, DEP has assessed 1,451 unpermitted facilities; there are 21 unpermitted sites in the inventory (including new unpermitted facilities) that require assessment. All other facilities in the inventory have been identified as 1) referrals to NYSDEC for SPDES coverage, or 2) "no further action." Assessments of "no further action" are made for a variety of reasons: facilities do not meet the criteria for SPDES referral; facilities have been abandoned; buildings have been demolished, replaced, or occupied by a new

Table 7. Unpermitted Assessment Summary

Assessment Results	Number of Facilities in Reporting Period (2024)	Cumulative Number of Facilities to Date (2019-2024)
Unpermitted facilities with no further action needed*	8	1280
Unpermitted facilities identified for referral to NYSDEC for SPDES Permit Determination†	9	171
Total	17	1451

* Includes inventory listings deemed inactive or where no industrial activity was observed; and inventory listings that did not meet criteria for SPDES permitting referral.

† Includes facilities that may be eligible for MSGP coverage, may qualify for no exposure waiver, or may need an individual SPDES permit.

business unrelated to the previous enterprise or industrial sector; facilities have been determined to be outside the MS4 area and, therefore, not subject to the I/C program; or facilities had already obtained SPDES MSGP coverage or applied for permit coverage, making assessment to determine SPDES permit applicability unnecessary.

Table 7 summarizes the results of unpermitted assessments performed. Additionally, DEP finalized classification of 14 facilities as potential significant contributors of POCs, and these have been referred to NYSDEC for SPDES permit applicability.

Permitted Facility Inspections

The City inspected 30 MSGP-permitted facilities. **Table 8** summarizes the MSGP-permitted site inspections completed during this reporting period. These inspections and their findings are memorialized in inspection reports and associated enforcement (e.g., corrective action letters). Inspection frequencies dictated by the MS4 Permit were met during this reporting period.

Complaint-Driven Inspections

By calling 311, the public may make a variety of complaints related to industrial activity. DEP received and evaluated 32 complaints received via 311 tickets for potential applicability to the I/C Program. All 32 tickets were referred to other DEP response programs with the requisite enforcement authority for appropriate action.

Enforcement

DEP issued seven Commissioner's Orders (COs) to facilities in the I/C inventory. A CO, under this program, is an order issued by DEP to enforce its rules for the use

of and discharges to the MS4; the Order explains the nature of the violation and provides a deadline for taking corrective action. Three of the seven COs were issued to unpermitted facilities and the remaining four COs to permitted facilities. There were several categories of COs issued: most, considered "precautionary" COs, prohibited non-stormwater discharge to the street and sidewalk; one required a recipient to submit photographic proof of its corrective action; and several were related to MSGP compliance deficiencies. DEP also issued summonses to two facilities for failure to adhere to previously issued Commissioner's Orders regarding prohibited non-stormwater discharges.

DEP sent 22 formal corrective action letters to MSGP-permitted facilities. These letters directed facilities to make improvements to SWPPPs and/or housekeeping practices. An additional eight corrective action letters stemming from inspections conducted in 2024 will be completed in 2025.

Table 8 lists measurable goals and measures with the status of the City's implementation of the I/C Program BMPs.

Goals for 2025

DEP plans to continue the assessment of unpermitted facilities, update the I/C inventory with newly identified unpermitted facilities and perform inspection of permitted facilities. In addition, DEP plans to finalize SPDES assessment report referrals from the prior year and take any necessary enforcement actions stemming from assessments and inspections done in 2024.

Table 8: I/C Program – 2024 Implementation Status

BMP	Measurable	Measures	Status
Provide an industrial and commercial pollution control program.	Implement an inspection and assessment program for unpermitted industrial and commercial sources.	Status of the inspection program and stormwater controls for unpermitted industrial and commercial facilities	DEP performed 17 assessments of unpermitted facilities in 2024. DEP identified 9 of these facilities for referral to NYSDEC for potential SPDES coverage. DEP issued 3 Commissioner's Orders to unpermitted facilities.
	Implement an inspection program for MSGP Permit holders based on priority and evaluate stormwater controls.	Number of SPDES MSGP facilities inspected – high priority	7
		Number of SPDES MSGP facilities inspected – medium priority	21
		Number of SPDES MSGP facilities inspected, low priority	2
		Number of non-compliant SPDES MSGP facilities	17
		Number of repeat non-compliant SPDES MSGP facilities	13
		Number and type of enforcement actions completed and penalties issued	DEP issued 31 letters to permittees identifying deficiencies and associated corrective actions. A portion of these were tied to inspections completed during the prior reporting period. DEP issued 4 Commissioner's Orders and 1 summons to permitted facilities.
	Track significant contributors of POCs.	Number of facilities identified as significant contributors of POCs	14

Completed sub-surface storage and porous paving project at T. Mina Supply, Inc. in Queens.



Control of Floatable and Settleable Trash and Debris

Stormwater runoff can transport trash and debris from streets and sidewalks into local waterbodies. Once waterborne, these materials are referred to as floatables. The SWMP relies on many existing programs to control trash and debris stemming from the MS4 area. The key programs to control trash and debris and to intercept materials that could potentially discharge via storm sewer through outfalls include street sweeping and catch basin inspection and maintenance. The City also implements end-of-pipe/in-water floatable containment controls such as booming, netting, and skimming to collect floatables in waterbodies. Public education, outreach, involvement, and participation are also important parts of the City's holistic efforts to control floatables. A variety of programs encourage the public to help manage trash and debris, including a suite of stewardship programs (e.g., Parks Stewardship events, Community Cleanups) and calls to 311, which enables New Yorkers to report to the City dirty conditions they observe.

2024 Program Assessment

During this reporting period, the City implemented the floatables control programs described in the SWMP Plan. These programs included sweeping 906,892.9 miles of streets citywide, inspecting 25,626 catch basins and cleaning 8,387 catch basins. DEP maintained 18 active booms and nets and operated three specialized skimmer vessels. DEP is working closely with DSNY to share and review street sweeping information, as an important floatables control measure.

Loading Rate Study

The City developed and conducted a Floatables Loading Rate (FLR) Study to determine the loading rate of trash and debris from the MS4 to floatable-impaired waterbodies. The primary goal of this study was to use data collection and analysis to quantify a loading rate at monitored catch basins and to use statistical modeling to predict the floatables loads at MS4 catch basins and



Debris on a storm drain.

outfalls discharging to floatables-impaired waterbodies throughout the City.

DEP began conducting data analysis in December 2021. The monitoring data will be analyzed to compute loading rates at the monitored catch basins and investigate the relationships among the loading rates, factors affecting loads (street litter level, street sweeping frequency, catch basin hood status, drainage area and curb length), and additional predictors or variables such as demographics and land use. These relationships will be used in a statistical analysis to predict the corresponding floatables loads at unmonitored catch basin locations within the MS4.

Table 9 lists measurable goals and measures with the status of the City's implementation of the Control of Floatable and Settleable Trash and Debris program BMPs.

Goals for 2025

The City plans to continue its key floatables control programs, including public education and outreach, street sweeping, catch basin inspections and cleaning, and DEP's boom and netting program.

The FLR Study will be completed by August 1, 2025, as required by the MS4 Permit. The information will be applied to the Urban Stormwater Quality (USWQ) modeling effort currently being piloted to assess the effectiveness of different stormwater BMPs including floatables controls (see the Monitoring section for more information on USWQ modeling).⁸ DEP will initiate the study on the methodology for selecting, sizing, and siting BMPs and controls to reduce floatable and settleable trash and debris, following the completion of the FLR Study.

⁸ DEP will use information from the FLR Study and USWQ models to propose, before the end of the MS4 permit term in 2027, a methodology for selecting, sizing, and siting floatables controls to reduce trash and debris that discharges to the City's waterbodies.

Table 9: Control of Floatable and Settleable Trash and Debris – 2024 Status of Implementation

BMP	Measurable Goals	Measures	Status
Provide a floatable and settleable trash and debris management program.	Determine loading rate of floatable trash and debris discharged from MS4 to waterbodies impaired for floatables.	Status of Loading Rate Study	Floatables Loading Rate (FLR) Study analysis in progress (on target for timely completion)
	Continue DEP's catch basin inspection, cleaning, and hood replacement program.	Number of catch basins inspected and cleaned.	25,626 catch basins inspected; 8,387 catch basins cleaned
		Number of catch basin hoods repaired, installed, or replaced	0 catch basin hoods repaired; 761 catch basin hoods installed
	Continue DEP's boom and netting program.	Status and location of Combined Sewer Overflows Best Management Practices Annual Report with Floatables Control Program results	The most recent CSO BMP Annual Report is online and available to the public at https://www.nyc.gov/site/dep/water/combined-sewer-overflows.page
	Implement a public education program on floatables.	List of education & outreach programs/events and relevant metric(s) for each (e.g., number of participants, events, or materials distributed)	• Adopt-a-Highway (81 materials distributed) • Community Clean-ups (296 events) • Forgot Your Bag? (231 canine waste dispensers in the MS4 area) • Harbor Protectors (1 event; 41 participants) • Parks Environmental Education (10 events; 1863 participants) • Park Stewardship (554 events; 6,859 participants) • SAFE Disposal Events (5 events; 17,433 participants; 2,278,115 materials distributed) • "Trash it, Don't Flush It" Outreach (23 events; 5950 households contacted)

Conducting the Harbor Quality survey.



Monitoring

The MS4 Monitoring Program includes the implementation of an outfall monitoring program,¹⁰ analysis of Harbor Survey data to establish baseline conditions prior to SWMP implementation in order to facilitate analyzing long-term water quality trends, and the development of urban stormwater quality (USWQ) models.

2024 Program Assessment

Harbor Survey Trend Analysis

The City implemented the Harbor Survey Trends Analysis toward its goal of evaluating long-term water quality trends, using data from the Harbor Survey, which measures a variety of water quality parameters that generally describe the overall condition of water quality in NYC's receiving waterbodies. Per MS4 Permit requirements, the City timely provided on August 1, 2024, an initial data analysis for the five-year period prior to the implementation of the SWMP (i.e., 2014 through 2018) to establish baseline water quality conditions.

USWQ Model Development

The City will build USWQ models to demonstrate how water quality is being impacted by the City's structural and non-structural BMPs, and to evaluate alternative BMP

implementation strategies. Models will be developed for MS4 areas in seven NYC sewersheds: Tallman Island, Hunts Point, Port Richmond, Jamaica, 26th Ward, Coney Island and Rockaway. A report titled "Urban Stormwater Quality Model Development Interim Report" was timely submitted to DEC in accordance with the MS4 permit requirements. The report describes in detail how USWQ models will further the City's goal of reducing the discharge of pollutants. It is also noted that the first USWQ model is being developed for MS4 drainage areas in NYC's Tallman Island (TI) sewershed as a pilot study. The hydraulic and hydrologic components of the TI model are nearing completion. Also, literature reviews have begun that will facilitate parameterizing water quality models for each pollutant of concern.

Table 10 lists measurable goals and measures with the status of the City's implementation of the Monitoring Program BMPs.

Goals for 2025

DEP intends to finalize calibration and validation of the hydraulic and hydrologic components of the TI USWQ model. Also, DEP expects to make inroads on parameterizing the water quality models for pollutants of concern. Finally, the second interim report will be submitted by August 2025, as required by the MS4 Permit.

Table 10: MS4 Monitoring Program 2024 Implementation Status

BMP	Measurable Goals	Measures	Status
Monitoring Program	Conduct wet weather sampling from outfalls/manholes.	Analyze monitoring data collected.	Complete
	Evaluate long-term trends in receiving water quality.	Analyze 5 years of Harbor Survey data to establish baseline conditions prior to SWMP implementation (2014-2018).	Five years of Harbor Survey data was analyzed, and a Harbor Survey Baseline Report was timely submitted to NYSDEC.
	Develop urban stormwater quality models.	Report on progress.	First interim report submitted to NYSDEC; second interim report due August 1, 2025

⁹ To assess the quality of stormwater runoff from the MS4, the City developed and implemented an MS4 Outfall Monitoring Program that combined data collected from existing monitoring programs with additional water quality and flow data collected between 2019 and 2022, in manholes upstream of select outfalls. The NYC MS4 Outfall Monitoring Program Report, outlining the study, was completed and timely submitted to NYSDEC in June 2023. There were limited statistically significant concentration differences across the monitored outfall locations representing major land uses in NYC's MS4.

Special Conditions for Impaired Waters

In addition to the City-administered programs and practices to reduce or remove pollutants in stormwater runoff throughout the MS4 area, there are special conditions for certain impaired waterbodies:

- Impaired waters without TMDLs
- Impaired waters with NYSDEC-approved CSO LTCPs that have identified stormwater as a significant contributor to the impairment.

Information on impaired waters without TMDLs is included in the Construction and Post-Construction section of this report. For impaired waters with approved CSO LTCPs that do not predict compliance with applicable water quality standards, and where stormwater contributions from the MS4 are expected to be a significant contributor to the impairment, the MS4 permit requires the City to implement enhanced BMPs. Coney Island Creek was the only waterbody to meet these criteria until January 2023, when DEC approved the Jamaica Bay and Tributaries LTCP.

Two Jamaica Bay tributaries, Thurston Basin and Bergen Basin, now meet the criteria, requiring the City to determine, for those waterbodies, the priority source categories for the POCs causing the impairments; what additional or customized non-structural BMPs should be implemented and on what schedule; and any opportunities for implementing cost effective and feasible GI projects and other structural retrofits. Future annual reports will include information on the City's progress in implementing the program in these additional waterbodies.

Table 11: POC Source categories and control measures for Coney Island Creek (CIC)

Pollutant of Concern	Targeted MS4 Source Categories	Control Measures and Projects for CIC
Floatables	Highly impervious area (littering)	• Catch basin marking • Public education and outreach • Source control
Pathogens	• Illicit discharges • Pet waste	• Catch basin marking • Public education and outreach • Sentinel Monitoring • Source tracking and control

For Coney Island Creek, the MS4 Permit lists pathogens (fecal coliform) and floatables (garbage and refuse) as the POCs causing impairments. **Table 11** shows a summary of the source categories of the POCs and the City's control measures for Coney Island Creek.

2024 Program Assessment

The City continued to implement enhanced BMPs in the Coney Island Creek watershed. **Table 12** provides status updates on the enhanced BMPs the City included in the SWMP Plan.

Goals for 2025

The City will develop a plan and schedule for implementing customized, enhanced BMPs in the Thurston Basin and Bergen Basin areas.

Professional learning opportunity for educators in Coney Island Creek community.



Table 12: Special Conditions Program Status Updates

Program	Description	Update
Pet waste management	Maintain pet waste bag dispensers and signage as part of Parks' "Forgot Your Bag?" program, to minimize the presence of exposed pet waste.	Parks continued to maintain the pet waste bag dispensers and signage in Calvert, Vaux and Kaiser Parks.
Catch basin marking	Include a "no dumping" message on the iron curb piece on new and replaced catch basins in the MS4 area. Provide catch basin stenciling opportunities for local organizations.	The City continued to include a "no dumping" message on newly installed catch basin curb pieces throughout the city.
Source Tracking/ IDDE	Source tracking efforts in Coney Island Creek	DEP Compliance Monitoring Section (CMS) performed multiple investigations near Coney Island Creek and resolved several cases, including broken sanitary sewer line and illicit discharge via overland flow from NYCHA Gravesend property to catch basins connected to the storm sewer.
Public education and outreach	Conduct education and outreach in the Coney Island Creek Community on pollution source controls.	In February 2024, DEP's Education Office partnered with the New York Aquarium in Coney Island to host a special tour and professional learning opportunity for 29 educators. Participants learned about the New York Harbor and citywide efforts to improve water quality, including stormwater management, GI, ecological restoration, and stewardship.
Green infrastructure	Identify potential GI opportunities in Coney Island Creek MS4 areas by prioritizing City-owned sites based on their potential to capture runoff.	DEP continued or completed GI at identified four schools suitable for SMP projects: • K095: Gravesend – subsurface retention practice – currently under construction • K238: Anne Sullivan – bioretention practice and subsurface retention practice – construction complete • K234: W. A. Cunningham – subsurface stormwater chamber – construction complete • K212 Lady Deborah Moody – synthetic turf practice with subsurface stone storage has been included in a separate construction contract with other synthetic turf projects, and is set to start construction Summer/Fall 2025

Completed bioretention practice at K238: Anne Sullivan.





Stormwater during a heavy rain event.

Recordkeeping and Reporting

Each year, the City prepares an MS4 Annual Report documenting the status of compliance activities related to the MS4 Permit. The City submits the MS4 Annual Report to NYSDEC by September 30 following each reporting year. The public can also request information related to the SWMP by emailing MS4@dep.nyc.gov.

This report documents activities related to MS4 Permit compliance for the 2024 reporting period. The City

assesses effectiveness of its SWMP programs through its achievement of the measurable goals included in the BMP tables. In addition, the annual report includes a narrative highlighting and explaining important activities conducted during the reporting year. The City also periodically refines its measurable goals with information gained from program planning and implementation, interagency working groups, and public input. Continuing to refine and update the measurable goals allows the City to better assess its programs.

Table 13 shows the 2024 recordkeeping and reporting implementation status.

Table 13. Recordkeeping and Reporting 2024 Implementation Status

BMP	Measurable Goals	Measures	Status
Provide annual reports to document compliance with the MS4 permit.	Develop an annual report due September 30 following each reporting year.	Summary of annual effectiveness assessment	See effectiveness assessment of each program under pertinent sub-sections of this report.
		Municipal Compliance Certification submission	Appendix 3 – Municipal Compliance Certification

Related Initiatives

Southeast Queens

Southeast Queens has already seen flooding events caused by extreme rain, and we anticipate that flooding may worsen with climate change. Flooding has been a chronic issue for more than 70 years and has been exacerbated by increasing rainfall, loss of permeable surfaces, and reduced groundwater. DEP's 10-Year Capital Budget allocates \$2.6 billion to plan and initiate sewer build-out and to provide short-term relief wherever possible. Together with our partners at DDC and DOT, DEP has started design or construction of several projects and has completed projects including adding storm sewers to the area and repaving streets with permeable pavement. DEP has targeted opportunities to install GI, such as rain gardens, subsurface detention facilities, and green roofs. GI can naturally divert stormwater from the sewer system. Much of the MS4 GI constructed to date is in Southeast Queens.

NYC Green Infrastructure Program

DEP has been strategically constructing GI in MS4 areas, as required per permit and local law obligations, as well as through DEP's financial incentives and partnerships,

and median projects. Going forward, as part of the NYC GI Program's regulatory goal under the 2023 Modification to the CSO Order, DEP can consider the multiple benefits of GI for neighborhoods, such as flood management and water quality improvements in addition to CSO volume reduction. For more information on the NYC Green Infrastructure Program, visit the DEP website at nyc.gov/site/dep/water/green-infrastructure.page.

Impaired Waterbodies

Under the NYC MS4 permit, DEP and other agencies must conduct GI opportunity analyses for waterbodies that will not meet water quality standards through LTCP projects alone and where MS4 stormwater is determined to be a significant pollutant contributor. The requirements under this NYC MS4 Permit apply to three waterbodies:

- Coney Island Creek (CIC): impaired for fecal coliform and floatables
- Thurston Basin: impaired for fecal coliform and floatables
- Bergen Basin: impaired for fecal coliform, floatables, and nitrogen

In Coney Island, as detailed in the Special Conditions for Impaired Waters section of this report, DEP has constructed and is constructing GI practices at several schools in the CIC MS4 drainage area. DEP had identified these locations by conducting a desktop analysis at agency partner sites, including schools,

Green infrastructure parking lot work at Greenwood Cemetery, Brooklyn.





Corporate Commons Three a green roof retrofit in Staten Island.



Completed green streets median project in Queens Village on Hillside Avenue.

parcs, and New York City Housing Authority (NYCHA) developments. Typical GI desktop opportunity analyses include assessing sites for conflicts like mature trees or equipment, reviewing site topography and historical soil and groundwater data, evaluating imperviousness within tributary drainage areas, and coordinating with agencies on recent or upcoming capital work, and then conducting follow-up site visits and soil testing.

With the approval of the Jamaica Bay CSO LTCP, Bergen and Thurston Basin, like Coney Island Creek, are now considered to be waterbodies where the stormwater pollution contributions from the City-owned MS4 require the city to do more to manage the quality of the stormwater, including conducting an opportunity analysis for GI. In Bergen Basin, DEP identified at a desktop level potential opportunities for parkland GI. In Thurston Basin, DEP identified a potential cloudburst management opportunity in Montbellier.

Right of Way and Public Onsite

DEP constructed ROW GI practices in partnership with the Governor's Office of Storm Recovery (GOSR) New York Rising (NYR) initiative, including in MS4 areas.

DEP has been working with key public agency partners, like Parks and DOE, since 2011 through its public onsite program to implement GI retrofits on publicly owned properties. To date, DEP has constructed over 50 GI assets in MS4 areas, including rain gardens, green roofs, permeable pavers, subsurface storage, and synthetic turf fields. These assets have been constructed under various initiatives, including investing in Southeast Queens under Local Law 56 (2017) and piloting projects to manage stormwater quality draining to Jamaica Bay and Newtown Creek.

In-house Design and Medians

DEP's in-house GI design team focuses on siting and designing large-volume stormwater capture opportunities, typically within public medians. To date, DEP has constructed two green streets median projects in the MS4 area: the Beach 67 median in the Rockaways and the Hillside Avenue median in Queens Village. DEP has an upcoming median project located in the MS4 area of Queens on Springfield Blvd between Lucas Street and Merrick Blvd that is expected to begin construction in 2025.

The Gateway to Greenpoint project is in Brooklyn, in an area served by the MS4, just outside the Newtown Creek WRRF between Kingsland and Greenpoint Avenues. The purpose of this project to replace the existing open space with a new landscape design that complements the built environment, softens the appearance of hard surfaces, enhances aesthetic qualities, and provides a neighborhood amenity. DEP's in-house design team incorporated GI into the project to capture almost 1 million gallons of stormwater a year with the installation of underground storage chambers, curbside inlets, large planting beds of native species, and tree plantings. DEP anticipates that this project will begin construction in 2025.

Private Property Incentives

The NYC Green Infrastructure Program currently offers two financial incentive programs for private property owners in combined and separately sewered areas of NYC. The Green Infrastructure Grant Program¹¹ funds the design and construction of green roof retrofits on private property, and Resilient NYC Partners¹² funds the design and construction of site-level GI practices on private properties with large areas of impervious surface. The rooftop farm installed at Corporate Commons Three in

¹⁰ <https://www.nyc.gov/site/dep/water/green-infrastructure-grant-program.page>

¹¹ <https://www.nyc.gov/site/dep/whats-new/resilient-nyc-partners.page>

Staten Island covers 23,375 square feet of rooftop and manages over 3 million gallons of stormwater annually in the MS4. In 2024, DEP made several updates to Green Infrastructure Grant Program requirements to help increase program participation, including properties in the MS4. The first update included increasing reimbursement rates to reflect rising construction costs and removing the program stipulation that reduced the reimbursement rate to 50 percent of rate shown after a project exceeded 20,000 square feet of vegetated area. Additionally, DEP decreased the minimum required green roof vegetated area from 5,000 square feet to 3,500 square feet to allow smaller properties to take advantage of the incentive program. The updated reimbursement schedule can be found on the Green Infrastructure Grant Program website.

To date, three projects at two properties in the MS4 have been completed under the Resilient NYC Partners program. These projects include two subsurface storage systems and porous pavement installed at T. Mina Supply in Queens, and a subsurface storage system retrofit at Holy Rosary School in Staten Island. In total, these projects will manage 2.14 million gallons of stormwater annually. As the Resilient NYC Partners program continues to expand, additional properties in MS4 priority areas are being evaluated for eligibility.

Stormwater Regulations

Stormwater regulations are a core part of DEP's work

to improve water quality citywide. As mentioned in the Construction and Post-Construction section of this report, the Unified Stormwater Rule¹³, through the NYC Stormwater Manual¹⁴ as technical guidance, emphasizes a retention-first, green infrastructure approach to stormwater management practice selection and design, applying lessons learned from more than ten years of implementing the NYC Green Infrastructure Program. Green infrastructure practices, also known as and referred to as stormwater management practices (SMPs), are designed to protect, restore, or mimic the natural water cycle within built environments by retaining, detaining, and/or treating stormwater runoff. SMPs generally include practices such as rain gardens, green or blue roofs, porous pavement, subsurface stormwater storage systems, and stormwater reuse systems. These practices are important and demonstrably effective tools for stormwater management in NYC, allowing stormwater to be managed where it falls and reducing, filtering and/or slowing the amount of stormwater entering the City's sewer system.

Cloudburst Management

A cloudburst, as seen in 2021 during Hurricane Ida, is a sudden, heavy downpour that occurs in a short amount of time and may lead to flooding, property damage, disruptions to critical infrastructure, and pollution of NYC's waterways. Cloudburst management¹⁵ implements a combination of methods that absorb, store, and transfer

DEP staff providing Cloudburst information during a community outreach event.



12 In 2022, DEP promulgated the Unified Stormwater Rule, which included amendments to Chapters 31 and 19.1 of Title 15 of the Rules of the City of New York to update DEP's site and house connection requirements and the Stormwater Construction and Maintenance Permitting Program (i.e., Stormwater Permitting). Under the Unified Stormwater Rule, stormwater regulations for citywide sewer operations and water quality objectives have been integrated and enhanced. Some projects are covered by both requirements.

13 <https://www.nyc.gov/site/dep/water/unified-stormwater-rule.page>

14 <https://www.nyc.gov/site/dep/environment/cloudburst.page>

stormwater to reduce flooding. Using gray infrastructure (e.g., drainage pipes and underground storage tanks) and GI (e.g., rain gardens and porous pavement), cloudburst management can minimize damage by reducing the strain on the municipal sewer system. DEP is designing cloudburst projects capable of capturing greater quantities of stormwater than traditional GI projects capture. In addition to managing localized flooding, these cloudburst projects will also help DEP meet its stormwater management water quality goals to reduce CSOs in CSS areas and to reduce the risk of polluted stormwater discharging to local waterways in MS4 areas.

In MS4 areas, DEP and NYCHA have collaborated on a pilot project to manage cloudburst events onsite at the NYCHA South Jamaica Houses development in Southeast Queens. The South Jamaica Houses project broke ground in 2024. Additionally, DEP is working with Parks on two cloudburst projects for Southeast Queens that are currently in procurement for construction: Archie Spigner Park, in the St. Albans neighborhood, and Rufus King Park. These projects are designed to improve drainage conditions in the park and on select adjacent streets, where possible. DEP expects construction at these parks will begin in late 2025. Additionally, in the St. Albans neighborhood, DDC and DOT have partnered with DEP on a roadway improvement project to address frequent flooding issues near the intersection of 177th Street and 112th Ave. The proposed cloudburst design for this project involves a combination of GI in the ROW and roadway changes that will also improve roadway safety for pedestrians and vehicles.

Cloudburst hubs are identified at the sub-catchment scale, which are hydraulically connected areas based on the sewer network. Cloudburst hubs feature a network of stormwater management tools that work together to alleviate flooding and help to make neighborhoods more resilient during intense rainstorms. The four initial Cloudburst Hubs are in areas served by the combined sewer: Corona and Kissena Park, Queens; Parkchester/Morris Park, Bronx; and East New York, Brooklyn. DEP has identified a potential cloudburst hub in an MS4 area in Montbellier that drains to Thurston Basin.

Adaptive Management

The NYC Green Infrastructure Program includes a research and development effort, which reviews GI performance over time, ensures performance-based maintenance and operations, and conducts cost-benefit analyses of various GI designs. The data analysis supports the City's water quality-related compliance programs and

fills data gaps that DEP has identified through previous monitoring activities. This work is critical to the success of GI implementation in both combined and separate sewer areas of NYC.

Coney Island Resiliency Study

The Department of City Planning is leading a Coney Island resiliency study with a Community Development Block Grant for Disaster Recovery funded by the U.S. Department of Housing and Urban Development. DCP will catalog current conditions in Coney Island, past/present/future climate change initiatives, and the remaining climate change risks. The purpose of the study is to help city agencies understand the possibilities for and the limits of resiliency efforts in Coney Island and to guide strategies for addressing flooding, stormwater runoff, urban heat, as well as public realm and mobility strategies. In summary, this study seeks to achieve the following goals:

- Snapshot of existing conditions: Research and analyze socioeconomic conditions, zoning and land use conditions, urban design and public realm conditions, transportation and mobility conditions, and climate risk conditions.
- Catalog of past, current, and future initiatives and identification of remaining gaps: Investigate area-specific precedent and projected public research and planning, investments, and regulations and identify remaining resiliency gaps.
- Proposal of near-term recommendations. Identify built and social environment alterations, and quality of life and hazard mitigation improvements to reduce negative impacts from future flooding and urban heat.
- Early development of a potential long-term land-use, zoning, and planning outlook. Guide new development and public realm upgrades to maximize community resilience and reduce climate change risks.

As part of the study, DCP will develop an existing conditions analysis as well as near-term recommendations and potential long-term planning outlooks based on public agency input, outreach, and engagement with local stakeholders (including residents, business owners, community organizations, and area workers, local elected officials), and stormwater management best practices.



Definitions

Annual Report: The City publishes, by September 30 of each calendar year, a report on SWMP implementation. The report summarizes activities performed throughout the reporting period (January 1 to December 31) by all agencies with obligations under the MS4 Permit; and reports on BMPs, measurable goals and their measures, as detailed in each chapter of the Plan and in Part IV.M of the MS4 Permit.

Applicant: The term “applicant” means the person filing the online application for Stormwater Permitting. This person may be the owner, developer, qualified professional, or other registered user in the online application system.

Best Management Practice (BMP): Schedules, activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the State. BMPs also include treatment requirements (if determined necessary by DEP), operating procedures, and practices to control runoff, spillage, and leaks; sludge or waste disposal; or drainage from areas that could contribute pollutants to stormwater discharges. BMPs are referred to in EPA fact sheets and other materials. BMPs are also referred to as “activities” or “management practices” throughout the MS4 Permit.

Combined Sewer Overflow (CSO): Sometimes, during heavy rain and snowstorms, a combined sewer system receives higher than normal flows. WRRFs are unable to handle flows that are greater than twice their design capacity, and, when such a flow occurs, a mix of excess stormwater and untreated wastewater discharges directly into the City’s waterway at certain outfalls to prevent upstream flooding. This discharge is called a combined sewer overflow (CSO).

Combined Sewer System: A sewer system used to convey both wastewater and stormwater in a single pipe to the WRRF. During times of heavy precipitation, the combined sewer system may discharge into surface waters. See also Combined Sewer Overflow.

Covered development project: The term “covered development project” means development activity, private or public, that involves or results in an amount of soil disturbance greater than or equal to 20,000 square feet; or creation of 5,000 square feet or more of impervious surface; or is a covered maintenance activity (roadway maintenance that involves 20,000 square feet or more). Such term includes development activity that is part of a

larger common plan of development or sale involving or resulting in soil disturbance area greater than or equal to 20,000 square feet; or creation of 5,000 square feet or more of impervious surface. Such term includes all development activity that requires a SWPPP pursuant to the New York State Department of Environmental Conservation (NYSDEC) construction general permit.

CSO Outfall: The physical point where a municipally owned or operated combined sewer discharges to surface waters of the state.

CSO Regulator: A flow control structure in a combined sewer system that diverts a controlled portion of flow from the collection system to an intercepting sewer and allows the remaining flow to discharge to nearby waters as a combined sewer overflow.

Floatables: Manmade materials, such as plastics, papers, or other products which, when disposed of onto streets or into catch basins, can ultimately find their way to waterbodies and may create nuisance conditions affecting aesthetics, recreation, navigation, and waterbody ecology.

Green Infrastructure (GI): Green infrastructure infiltrates, evapotranspires, or reuses stormwater, with significant use of soils and vegetation rather than traditional hardscape collection, conveyance, and storage structures. Common green infrastructure approaches include green roofs, trees and tree boxes, rain gardens, vegetated swales, pocket wetlands, infiltration planters, vegetated median strips, reforestation, and protection and enhancement of riparian buffers and floodplains.

Historical MS4 Map: Created prior to issuance of the first NYC MS4 Permit in 2015, the Historical MS4 Map was unrefined and contained some inaccuracies but represented the City’s best understanding of the MS4 area at that time. In developing the SWMP, the City relied upon the Historical MS4 Map to define the MS4 area. The Historical MS4 Map also served as a starting point for the process of mapping the City’s MS4 drainage areas and MS4 outfalls, as required by the MS4 Permit. The Historical MS4 Map is no longer in use.

Illicit Discharge: Illicit discharge is any discharge to an MS4 that is not composed entirely of stormwater, except allowable discharges pursuant to a SPDES permit and/or to DEP rules. Examples of illicit discharges are unauthorized sanitary sewage, garage drain effluent, and waste motor oil. However, an illicit discharge could be any other unauthorized discharge, which the City or NYSDEC has determined to be a significant contributor of pollutants to the MS4.

Impaired Waters: A water is impaired if it does not meet its designated use(s), as defined by NYSDEC, generally determined by violations of state water quality standards. For purposes of this permit, “impaired” refers to waters for which Total Maximum Daily Loads (TMDLs) have been established, for which existing controls such as permits are expected to resolve the impairment, or for which a TMDL is needed. Impaired water compilations are also sometimes referred to as 303(d) lists; 303(d) lists generally include only waters for which TMDLs have not yet been developed.

Long-Term Control Plan (LTCP): An LTCP identifies appropriate CSO controls to achieve applicable water quality standards consistent with the Federal CSO Policy and Clean Water Act.

Measurable Goals: One or more statements characterizing the goals of the SWMP that reflect the needs and characteristics of NYC and the areas served by its MS4. The City identified its goals, both qualitative and quantitative, using an integrated approach that addresses the requirements and intent of the provisions of the MS4 Permit.

Multi-Sector General Permit (MSGP): The Clean Water Act provides that stormwater discharges associated with industrial activity to waters of the United States (including discharges through a municipal separate storm sewer system) are unlawful, unless authorized by a National Pollutant Discharge Elimination System (NPDES) permit. In New York, the EPA-approved State Pollutant Discharge Elimination System (SPDES) program provides that industrial facilities engaged in activities defined in 40 CFR 122.26(b) (14)(i-ix) and (xi) must obtain permit coverage for stormwater discharges to waters of the United States through the SPDES Multi-Sector General Permit for Stormwater Discharges Associated with Industrial Activity (MSGP), unless the facilities are individually SPDES-permitted or subject to No Exposure Exclusion (that industrial activities are not exposed to stormwater).

Municipal Operations and Facilities: Any operation or facility serving a New York City governmental purpose and over which New York City has operational control.

Municipal Separate Storm Sewer System (MS4): A conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains):

- Owned or operated by a state, city, town, village, 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 a sewer district, floatables control district or drainage district, or similar entity, 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 surface waters of the state;

- Designed or used for collecting or conveying stormwater;
- Which is not a combined sewer; and
- Which is not part of a Publicly Owned Treatment Works as defined at 40 CFR 122.2

MS4 Area: The term “MS4 area” means those portions of the City of New York served by separate storm sewers and separate stormwater outfalls owned or operated by the City of New York or areas served by separate storm sewers owned or operated by the City of New York that connect to combined sewer overflow pipes downstream of the regulator owned or operated by the City of New York, and areas in which municipal operations and facilities drain by overland flow to waters of the state, as determined by DEP and described on maps of the MS4 area set forth in DEP’s rules and available on DEP’s website.

MS4 Outfall: Defined as any point where a municipally owned or operated separate storm sewer system discharges to either surface waters of the state or to another MS4 (an MS4 owned or operated by another regulated entity). Outfalls include discharges from pipes, ditches, swales, and other points of concentrated flow. However, areas of non- concentrated (sheet) flow which drain to surface waters of the state or to another MS4 (owned or operated by another regulated entity) are not considered outfalls.

MS4 Permit: The New York State Pollutant Discharge Elimination System (SPDES) permit, issued to the City of New York, effective date August 1, 2022, that defined the requirements to discharge stormwater from the City’s MS4.

Pollutants: Dredged spoil, filter backwash, solid waste, incinerator residue, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand and industrial, municipal, and agricultural waste discharged into water which may cause or might reasonably be expected to cause pollution of the waters of the state in contravention of the standards or guidance values adopted as provided in 6 New York Code of Rules and Regulations (NYCRR) Part 750-1.2a.



Pollutant of Concern (POC): A pollutant causing the impairment of an impaired water segment listed in Appendix 2 of MS4 Permit, including nitrogen, phosphorus, pathogens, and floatables.

Settleables: Manmade materials that may sink depending on the ambient conditions to which they are subject. Floatables include settleable materials.

Standard Operating Procedure (SOP): A set of instructions for carrying out routine operations to achieve a specific outcome.

Stormwater Construction Permit: The term “stormwater construction permit” means a permit issued by DEP which authorizes development activity on land on which there is a covered development project with an approved SWPPP.

Stormwater Controls Working Group: An interagency group, aka Interagency Team, formed in 2013 in accordance with the Mayor’s Executive Order Number 429. This group meets quarterly or as needed to discuss all updates involving the MS4 Permit and SWMP implementation.

Stormwater Management Practices or SMPs: Measures to prevent flood damage or to prevent or reduce point source or nonpoint source pollution inputs to stormwater runoff and water bodies; includes erosion and sediment controls, post-construction stormwater management facilities, and practices to manage stormwater runoff from industrial activities.

Total Maximum Daily Load (TMDL): A TMDL is the sum of the allowable loads of a single pollutant from all contributing point and nonpoint sources. It is a calculation of the maximum amount of a pollutant that a waterbody can receive and still meet water quality standards, and an allocation of that amount to the pollutant’s sources. A TMDL stipulates waste load allocations for point source discharges, load allocations for nonpoint sources, and a margin of safety.

Acronyms

BMP Best Management Practice

CGP Construction General Permit

C/PC Construction and Post-Construction

CSO Combined Sewer Overflow

CSS Combined Sewer System

CWA Clean Water Act

GI Green Infrastructure

GIS Geographic Information System

I/C Industrial/Commercial

IDDE Illicit Discharge Detection and Elimination

LTCP Long-Term Control Plan

MS4 Municipal Separate Storm Sewer System

MSGP Multi-Sector General Permit

NNI No Net Increase

NOI Notice of Intent

NYC New York City

NYS New York State

NYSDEC New York State Department of Environmental Conservation

PMU Planned Municipal Upgrade

POC Pollutants of Concern

PP/GH Pollution Prevention/Good Housekeeping

ROW Right-of-Way

SAFE Solvents, Automotive, Flammables, and Electronics

SCM Stormwater Control Measure

SMP Stormwater Management Practice

SPDES State Pollutant Discharge Elimination System

SWMP Stormwater Management Program

SWPPP Stormwater Pollution Prevention Plan

SWPTS Stormwater Permitting and Tracking System

TMDL Total Maximum Daily Load

USWR Unified Stormwater Rule

WRRF Wastewater Resource Recovery Facility

NYC Departments and Agencies

DCAS Department of Citywide Administrative Services

DCP Department of City Planning

DDC Department of Design and Construction

DEP Department of Environmental Protection

DOB Department of Buildings

DOC Department of Correction

DOE Department of Education

DOHMH Department of Health and Mental Hygiene

DOITT Department of Information Technology and Telecommunications

DOT Department of Transportation

DPR Department of Parks and Recreation

DSNY Department of Sanitation

EDC Economic Development Corporation

FDNY Fire Department

LAW NYC Law Department

MOCEJ Mayor's Office of Climate and Environmental Justice (formerly Mayor's Office of Recovery and Resiliency or ORR)

MOO Mayor's Office of Operations

NYPD Police Department

OMB Mayor's Office of Management and Budget

SBS Department of Small Business Services

Public Comments on the 2024 MS4 Annual Report

General

Comment: Can you tell us a little bit about how the other city agencies are contributing to this program?

Response: Year-round, City agencies are engaged in the numerous program tasks for which they have permit obligations. For example, ten agencies collaborating on a mapping sub-team, organize data contributions to the published citywide MS4 map. When the City received its first MS4 permit in 2015, DEP, as coordinator, took the lead on a lot of the initiatives the Permit required. For example, a lead agency was required for the Stormwater Construction Permitting Program, and DEP took on that role. However, many other programs are taken on by each agency in accordance with Executive Order 429 of 2013. The PPGH Program is an example. Each agency with PPGH obligations now implements its own PPGH program, assessing its facilities and operations and training its personnel.

Comment: Is the EPA audit available to the public?

Response: The City acknowledges this question. However, it is outside the scope of this Annual Report.

Comment: Do you still need more staff to support implementation of the Unified Stormwater Rule?

Response: The stormwater construction permitting program has been hugely successful in increasing green space in NYC. When the program began, it was limited to separately sewered areas. As it was expanded to combined sewer areas, additional staff was needed. We will continue to advocate to build that team.

Comment: Is NYC DEP open to new technology that can work along with the MS4 systems to control water pollution?

Response: DEP is open to exploring the use of new technology to advance its MS4 goals. For example, the DEP green infrastructure team and stormwater permitting team have worked together on technical guidance for the NYC Stormwater Manual, which contains a section that includes innovative technologies. Such technologies will require extensive supporting information and documentation that verify how practices will meet minimum design criteria and will continue to perform over the long term.

Public Education and Outreach (PEO)

Comment: Harbor Protectors are not listed as a planned activity in 2025. What is the reasoning behind this removal of a stewardship program? Is this kind of stewardship being taken up by other programs? Is there a role that can be played by local water quality and stewardship organizations in supporting the continuation of such programs?

Response: The City remains committed to stewardship programs to advance MS4 priorities. While the Harbor Protectors program is not planned for 2025, other stewardship programs are being pursued. For example, we launched the Adopt-a-Catch Basin pilot program in Greenpoint, Brooklyn in 2025. We are seeking funding and looking to expand that pilot to other areas of the city. In 2023, we also launched Operation P.O.O.P. – Pet Owners Outreach Program, targeting pet events to educate owners about the importance of picking up pet waste and its relation to the harmful effects of stormwater runoff on harbor water quality. To date, we've participated in 36 events, many located in MS4 areas like Coney Island, Bergen Basin, and Thurston Basin.

Additionally, Community Clean-ups and the Park Stewardship program, organized by DSNY and NYC Parks, respectively, are conducted within MS4 areas.

Lastly, DEP's Rain Garden Stewardship program offers community members the opportunity to volunteer to help care for their neighborhood rain gardens. By the end of 2024, over 280 rain gardens were stewarded by local residents and community groups through the program.

The City always welcomes assistance from local organizations in furthering such programs.

Comment: The NYC Water Virtual Tour is a great idea and seems to be a particularly successful outreach and public education resource, per DEP's responses to our 2023 MS4 Report comments. We would appreciate a brief description of how this and other resources are being disseminated to the public in this and future reports.

Response: The NYC Water Virtual Tour is a collection of widely accessible, comprehensive online resources. DEP's Education Office developed these resources for 3rd-12th grade educators and their students. The resources are available on DEP's website and disseminated through the Education Office's monthly e-newsletters for educators and through ongoing professional learning opportunities for teachers and non-formal educators. Staff across DEP often reference the Tours when they meet with partner organizations and community members. DEP also shares the Tour with all new staff and interns so they can become acquainted with DEP's work.

Public Involvement and Participation (PIP)

Comment: We are impressed by the development of the stormwater permitting (SWPP) workshops over the course of this reporting year. This is a valuable forum that could galvanize more collaboration and consensus building with Architecture-Engineering-Construction professionals and property owners and managers in New York City. What role can water quality advocates have in supporting and expanding this initiative?

Response: We have received very positive feedback on these workshops. Assistance in cross-posting/sharing the events is appreciated. We also think there would be a benefit to water quality advocates' helping us highlight local success stories and communicating how important the projects are to our shared water quality and resiliency goals. DEP is also appreciative of feedback on the webinars, including any specific topics the development and advocacy communities would identify to help increase awareness and improve understanding of the permit requirements.

As mentioned in this Annual Report, an online survey requesting suggestions for future workshop topics is available at <https://dep.wufoo.com/forms/zr8ip61112p87z>. Any sharing/distribution of the survey is appreciated.

Mapping

Comment: The report indicates that 764 outfalls have been mapped, as of the 2020 SPDES map update. We understand that SPDES outfall lists complement the map, but the map itself is a key public resource, and should be kept up to date. Are there plans to map these additional outfalls at a regular interval to inform the public, ahead of the next 2027 required map update? What are the impediments to updating the map annually, rather than on a cyclical basis? This could follow each required annual update to the SPDES outfall list submitted to NYS DEC.

Response: The City updates the map per MS4 permit requirements: as noted in the comment, the next update is due in August 2027. The City provides to DEC an annual update on any changes or additions to its outfall list. Additionally, DEP provides a map of citywide outfalls on NYC OpenData at <https://data.cityofnewyork.us/Environment/Citywide-Outfalls/b9ze-z4u4>.

Construction and Post-Construction (C/PC)

Comment: We are encouraged to see the relative number of vegetated retention projects as a share of SMPs pursued through Stormwater Construction Permits across the city, and that over half of vegetated retention projects are in the MS4 areas, hinting at the relative success of the Unified Stormwater Rule. Could DEP provide more information on projects listed under the "other" category, and the potential for these projects to be vegetated green infrastructure? What are the main observed challenges to increasing and maximizing vegetated retention solutions and their co-benefits within the SWPPP program?

Response: Projects in the "other" category include dual systems (systems that share a drainage area but have multiple components like permeable pavers coupled with bioretention) and impervious area reductions. Lack of available space at either the site level or on roofs is the main challenge to implementation of vegetated stormwater management practices (SMPs). There is generally a lot of competition for the space that is available for placement of SMPs; for example, developers generally prefer solar installations, which have financial incentives, to green roofs.

Much of the newer design guidance we've been offering through workshops aims to demonstrate how vegetated practices or reductions in impervious areas can be integrated into projects at constrained sites. We are also working on clarifications to the required constraints analysis that must be completed as an applicant moves through the stormwater management practice hierarchy, which prioritizes vegetated retention practices.

Comment: The percentage of active Stormwater Construction Permit sites inspected once (49%) and percentage of sites inspected more than once (<1%), as well as the negligible number of post-construction SMP inspections and enforcement actions, are troubling. Is the reason for this low inspection rate related to a lack of capacity, staffing, and resources at the DEP to successfully implement this program area, or have these sites been deemed to only need one inspection? Stormwater management advocates appreciate DEP initiatives to improve policy, funding, and other mechanisms that bridge gaps in program implementation, and would gladly help advocate for additional resources to enable full implementation of initiatives that improve effectiveness of implementation.

Response: Staffing constraints limit inspections and enforcement actions. That said, we do review photos from inspection reports submitted by project teams and use those to determine how to prioritize inspections. We also prioritize inspections based on factors such as citizen complaints and for construction projects in areas adjacent to waterways or where risk of uncontrolled stormwater runoff might be high during construction.

Control of Floatable and Settleable Trash and Debris (Floatables)

Comment: Most of the activities listed, while worthwhile, are retroactive, meaning collecting litter right before it enters the sewer system or the waterway. Notable exceptions are the new plastic straws law and plastic bag ban. These policy level changes will actually lead to reductions in plastic litter. Has the DEP noticed any changes to the types of plastic floatables as the result of the policy changes? Are there any updates stemming from DEP's interagency collaboration to prevent floatables and state-level policy changes intended to reduce waste prior to entering the system?

Response: Because we do not have detailed information from a period prior to the passage of the new laws to use as a baseline to which to compare, it would be difficult to parse out differences in the types of floatables or the volume of any reduction in plastic litter since the policy changes went into effect. DEP has advocated for other statewide policy or legislative changes that could lead to reductions in litter such as an increase in the amount of the deposit on bottles and cans to encourage their return.

Comment: What is the status of the "in progress" Floatables Loading Rate Study, in more detail (i.e., which actions remain)? It is good to know that data analysis and reporting has been completed. Could the remainder of the study be completed prior to its 2025 MS4 permit designated deadline, thereby expediting the revision and implementation of improved methodologies for selecting, sizing, and siting floatables controls?

Response: The Floatables Loading Rate Study was timely completed by August 1, 2025. The City has begun its research into methodologies for selecting, sizing and siting the additional best management practices (BMPs) and controls it will implement to reduce floatables. The City continues to implement its key programs to manage trash and debris including street sweeping, catch basin inspections and maintenance, and booms and nets that catch materials discharged from outfalls.

Monitoring

Comment: We see from the annual report, two of the measurable goals under Monitoring have been completed. Will the DEP release the results of the wet weather sampling from outfalls/.manholes and the evaluation of data from 5-years of Harbor Survey? We would also like to know more details on the urban stormwater quality models.

Response: Because of the highly technical nature of the data analyses in the Outfall Monitoring and Harbor Survey Baseline reporting, the City will not be providing the reports to the public. However, the Outfall Monitoring effort provided data that will be used to calibrate stormwater flows and loads in sewershed models, which will better account for potential influencing factors within a drainage area when the City calculates loads at unmonitored locations.

The purpose of the Harbor Survey analysis was to establish the baseline conditions for future assessment of long-term trends in receiving water quality, and the City will provide updates to the public as that assessment yields information.

The City's Monitoring program will continue to focus on development of urban stormwater quality (USWQ) models. The City is implementing an analytical modeling approach to developing SWMP strategies for reducing pollutant discharges over the long term. That approach employs computer modeling 1) to demonstrate that a combination of specified structural and non-structural BMPs will likely reduce pollutant loads and 2) to facilitate evaluation of alternative BMP implementation strategies.

Special Conditions for Impaired Waters

Comment: We applaud the DEP for adding Thurston Basin and Bergen Basin to the impaired waters list. Will there be an opportunity for the public to comment on the DEP's plans for these waterbodies? As you know, Jamaica Bay has highly engaged community-based organizations who can provide useful feedback and on-the-ground knowledge of the watershed as you move forward with these new Special Conditions Waters.

Response: DEP is in the early stages of developing a plan and schedule for implementing customized, enhanced BMPs in the Thurston Basin and Bergen Basin areas. We look forward to working with the surrounding communities to learn from their knowledge and experience, and we plan to offer multiple opportunities for public review as part of this planning process. We anticipate that community engagement events and other opportunities for public comment will begin in 2026.

Recordkeeping and Reporting

Comment: We appreciate the DEP's continued efforts to comply with the MS4, provide the public with annual updates on progress towards its targets, and provide opportunity for public comment. However, recent reports and presentations generally lack the level of detail to clearly inform the public and allow for informed engagement, shifting the burden and responsibility onto advocates and the general public. While we acknowledge the amount of resources and labor that must be applied to the work of reporting on the MS4 SWMP, we request that future reports include more details and references to specific MS4 SWMP measurable goals, targets, and programs' progress towards those targets. Opportunities for more detailed reporting include:

1. PEO: View and download counts for the public outreach and education materials.
2. PIP: Total number of people engaged by DEP estimate regarding its MS4 plans, permits, projects, and performance through public comments, 311 complaints, public meetings, etc? Complementary metrics from PIP events, such as number of items removed, volume removed, length of shoreline cleaned.
3. Monitoring: MS4 monitoring parameters, any targets, and progress towards those targets.

Response:

We appreciate the feedback on the MS4 Annual Reports and will continue to work to improve the accessibility and clarity of the information. In response to specific opportunities suggested:

1. We appreciate the suggestion to add view and download counts for DEP public education and outreach materials and will do so where possible going forward. Since DEP published its NYC Water Virtual Tour in February 2021, the Tour has recorded 57,851 views. In addition, the public has accessed other educational resources during 2024:

- Jamaica Bay Education Resource Directory – 9 downloads
- Understanding NYC's Water Story: A Curriculum Guide for the Classroom – 143 downloads
- Drippy's Water Adventure coloring book – 87 downloads
- Operation P.O.O.P. Brochure – 7 downloads
- Trash It Don't Flush It (webpage) – 7,221 views

2. It is difficult to calculate a total number of people with whom DEP engages on MS4-related matters as many of the outreach activities and other avenues of communicating with or hearing from the public may have repeat participants. The Annual Report does provide additional information on numbers of participants in individual activities. Furthermore, in addition to DEP, other agencies with obligations under the MS4 permit conduct public outreach (and participation) programs. The City does hold an annual public meeting at which we present the MS4 Annual Report, and DEP keeps its MS4 website updated as to all opportunities for public input.

With respect to some specific numbers, the City received more than 95,568 calls/complaints related to stormwater issues in 2024 and responded to them, as appropriate. The 2024 Annual Report public presentation reached 77 participants. Overall, the 2024 assessment of the City's Public Education and Outreach program estimated that its programming engaged more than 82,000 individuals. The NYC Parks Stewardship program removed a total of 117.33 cubic yards or 9,866.8 pounds of debris from street tree care and coastal cleanups in 2024.

3. As noted above under Monitoring, the City's Monitoring program will continue to focus on development of urban stormwater quality models (USWQ).

Comment: The MS4 SWMP Annual Reports provide a valuable snapshot into progress towards clean waters in our separate sewer system but do so in a manner that is not often easily digestible or understood by NYC residents and constituents, especially those seeking to better understand how this work impacts their communities and waterways. In the spirit of the reporting requirement of the SWMP, we request that future reports communicate program-level progress towards SWMP goals via more diagrams, maps, charts, and other figures that summarize and locate in space the impact of DEP's continued efforts in MS4 areas. Opportunities for spatial and visual representation enhancements include:

1. PIP: Geospatial information on location of PIP events, and area covered as a percentage of total NYC MS4 area.
2. Mapping: Enlarged MS4 SPDES map, with legend.
3. Special Conditions for Impaired Waters: Summary maps or tables depicting relevant water bodies and keyed to a legend showing which criteria are met by each, and which water bodies are then eligible for Special Conditions Programs.

Response: We appreciate the feedback on the presentation of the MS4 Annual Reports and will continue to work to improve the accessibility and clarity of the information. In response to specific opportunities suggested:

1. The City holds numerous events citywide and strives to provide public education (PEO) and public participation (PIP) programming that addresses the particular needs and interests of the targeted community. We will evaluate the possibility of creating a “PIP” map.
2. The MS4 Map is available to the public in an interactive format at nyc.gov/dep/ms4map. Because of the complexity of the map, we do recommend that the public utilize the online map; the interactive format allows the map to be easily adjusted for scale in a manner we cannot feasibly replicate in a static or print copy.
3. Since there are currently three waterbodies that meet the criteria for inclusion as waterbodies in the Special Conditions program (Coney Island Creek, Bergen Basin and Thurston Basin), the City does not believe that a summary maps or tables are necessary.

Comment: To the extent that it is feasible, it would be helpful to the public if this report included or referred to accessible visual documentation of how various MS4 program areas and related initiatives intersect and complement each other programmatically and spatially, and how DEP and other agencies with MS4 permit obligations measure and report on the cumulative impact of these programs, including the potential contribution of cloudburst pilots and large scale GI towards the goals of the MS4 SWMP.

Response: The goal of our implementation of the MS4 SWMP is to reduce to the maximum extent practicable (MEP) the discharge of pollutants to the MS4. It is not possible to factor out the contribution of any one initiative to the achievement of that goal. Accordingly, any measurement of that achievement is cumulative.

However, the permit requires the City to annually show SWMP effectiveness by identifying measurable goals and assessment methods for each major program included in the SWMP. The City then annually assesses the program by reviewing its activities and/or control measures to identify modifications and improvements to maximize SWMP effectiveness along with a plan to implement those modifications and improvements to the MEP.

In addition, the goal of the City’s effort to develop the USWQ models is to enable the City to evaluate how all its MS4 SWMP programs have contributed to reductions in pollutant loadings and improvements in the water quality of NYC’s waterbodies.

In terms of accessible visual documentation, the City provides several online maps documenting MS4 program areas and related initiatives, including the MS4 Map (<https://nyc.gov/dep/ms4map>), an Interactive Map of Green Infrastructure Projects (<https://www.nyc.gov/dep/gimap>), a DEP-developed Geographic Information System (GIS) land cover map layer displaying citywide pervious and impervious areas at the parcel level (https://data.cityofnewyork.us/City-Government/DEP-s-Citywide-Parcel-Based-Impervious-Area-GIS-St/uex9-rfq8/about_data), and an Interactive Map of Projects in Southeast Queens (available at <https://nycdep.maps.arcgis.com>).

Related Initiatives

Comment: The GI Grant program, Resilient NYC Partners program, and Cloudburst Management program are a good start for addressing green infrastructure in private properties, however, are there any plans to prioritize certain MS4 community districts similar to the GRTA program to encourage infrastructure in parts that will result in the most impact? If so, what criteria will be used to prioritize these districts and interventions? Is there public engagement in reviewing and finalizing these criteria? Perhaps this is merely a matter of clarity and transparency within this report. For example, it is unclear in the report what criteria were considered in designating Southeast Queens as a priority intervention area for integrated stormwater management.

Response: The MS4 Permit requires additional or customized stormwater control measures, including green infrastructure opportunity analyses, in the drainage areas of waterbodies that meet the Special Conditions for Impaired Waters (Part II.B.2) criteria. The waterbodies that meet the criteria are Coney Island Creek, Bergen Basin, and Thurston Basin. As detailed in the Special Conditions for Impaired Waters section of the 2024 MS4 Annual Report, DEP has constructed and is constructing green infrastructure practices at several schools in the Coney Island Creek drainage area. DEP has identified a cloudburst hub location within the Thurston Basin drainage area and several potential green infrastructure opportunities at parks within the Bergen Basin drainage area.

Additionally, as part of the NYC Green Infrastructure Program’s regulatory goal under the 2023 Modification to the CSO Order, DEP can consider the multiple benefits of green infrastructure for neighborhoods, such as flood management and water quality improvements. This regulatory flexibility does allow us to consider multi-purpose projects that may include constructing green infrastructure in MS4 areas beyond the drainage areas included in the Special Conditions criteria.

Current green infrastructure work in Southeast Queens relates to planned sewer buildout work in that area. Green infrastructure is considered an early intervention initiative in DEP's stormwater management toolkit that complements long-term sewer work projects.

Comment: Given the inclusion of federal funds into the financing of many of these special projects and complementary or integrated stormwater management initiatives, how does DEP predict this will impact continued implementation and expansion of its MS4 SWMP, to ensure compliance with DEC requirements and the compounding impacts of climate change? What advocacy support might be needed from local communities, advocacy groups, and elected officials?

Response: The City must secure the resources necessary to meet permit requirements, per Part III.D. We will work to continue to meet this obligation.

Comment: Is there a plan for if the BRIC funding isn't replenished by the federal government?

Response: The City acknowledges this question; however, it is beyond the scope of this Annual Report.

SPDES Outfall Listing

26TH WARD

OUTFALL ID	OUTFALL LOCATION	LATITUDE			LONGITUDE			OUTFALL SIZE	RECEIVING WATER	CONTRIBUTORS	BOOM	NET	TELEMETRY
		DEG	MIN	SEC	DEG	MIN	SEC						
26W-001	26TH WARD WRRF OUTFALL	40	39	2	73	52	36	10' X 6'	HENDRIX CREEK				
26W-003	WILLIAMS AVE (REG #2)	40	38	57	73	53	25	180'' X 120''	FRESH CREEK BASIN	REG #2		YES	YES
26W-004	HENDRIX CREEK & HENDRIX ST	40	39	15	73	52	46	4BL 11' X 7'6"	HENDRIX CREEK	REG #1	YES		YES
26W-005	SPRING CREEK AUXILIARY W.P.C.P	40	39	28	73	51	44	72BL 7'6" X 2'5"	OLD MILL CREEK	REG #3, JAM REG #2			YES (ON 3 & JAM REG #2)

OUTFALL ID	OUTFALL LOCATION	LATITUDE			LONGITUDE			OUTFALL SIZE	RECEIVING WATER
		DEG	MIN	SEC	DEG	MIN	SEC		
26W-601	HENDRIX CREEK & 575' S/O FOUNTAIN ST	40	38	57	73	52	31	42” DIA	HENDRIX CREEK
26W-602	375' S/O FOUNTAIN ST	40	39	5	73	52	36	66" DIA	HENDRIX CREEK
26W-603	FOUNTAIN ST	40	39	26	73	51	46	78" DIA	OLD MILL CREEK
26W-604	BORDER AVE	40	38	27	73	52	48	8' X 4'	FRESH CREEK BASIN
26W-605	800' E/O SITE DRIVE (GATEWAY MALL)	40	38	59	73	52	12	42" DIA	Belt Parkway/Shore Parkway
26W-606	E/O SITE DRIVE (GATEWAY MALL)	40	39	2	73	52	7	36" DIA	Belt Parkway/Shore Parkway
26W-607	W/O SITE DRIVE (GATEWAY MALL)	40	39	5	73	52	3	30" DIA	BELT PARKWAY / SHORE PARKWAY
26W-608	320' S/O FLATLANDS AVE AND WILLIAMS AVENUE	40	38	58	73	53	25	11' X 4' 6"	FRESH CREEK BASIN

BOWERY BAY

OUTFALL ID	OUTFALL LOCATION	LATITUDE			LONGITUDE			OUTFALL SIZE	RECEIVING WATER	CONTRIBUTORS	BOOM	NET	TELEMETRY
		DEG	MIN	SEC	DEG	MIN	SEC						
BB-001	BOWERY BAY WRRF OUTFALL	40	46	51	73	53	30	90" DIA	EAST RIVER				
BB-002	45TH ST (REG # 2)	40	46	46	73	53	32	9' X 9' FT	BOWERY BAY	REG #2			
BB-003	HAZEN ST (REG # 13)	40	46	34	73	53	29	10' 6" X 5' 9" FT	BOWERY BAY	REG #3			YES
BB-004	BORDEN AVE	40	44	20	73	56	31	6' 6" X 3' 3"	DUTCH KILLS	REG #L-3, L-41			
BB-005	E/O 81ST ST (REG # 14)	40	46	24	73	53	21	14' 7" X 8' FT	BOWERY BAY	REG #4	YES		
BB-006	114TH ST (REG # 10, 12 & 13)	40	45	36	73	51	16	4BL 10' 6" X 9' 2"	EAST RIVER	REG #10, 12, 13	YES		
BB-007	E/O 27TH AVE (REG # 5)	40	45	59	73	51	44	11' X 7'	EAST RIVER	REG #5			
BB-008	31ST DRIVE (REG # 6, 7, 8, 9)	40	45	44	73	51	32	DBL 13' 9" X 8'	EAST RIVER	REG #6, 7, 8, 9	YES		YES (ON 6 & 9)
BB-009	HUNTERS POINT AVE (REG # L-3B, L-37, L-38, L-41, L-3A)	40	44	26	73	56	25	11' X 4' 6"	DUTCH KILLS	REG #L-3B, L-37, L-38, L-41, L-3A			
BB-010	QUEENS-MIDTOWN EXPRESSWAY (REG # L-3C)	40	44	22	73	56	29	30" DIA	DUTCH KILLS	REG #L-3C			
BB-011	GREENPOINT AVE BRIDGE (REG # L-1)	40	44	1	73	56	24	24" DIA	NEWTOWN CREEK	REG #L-1			
BB-012	35TH ST (REG # L-2)	40	44	3	73	56	25	24" DIA	NEWTOWN CREEK	REG #L-2			
BB-013	11TH ST (REG # L-8)	40	44	22	73	57	9	72" DIA	NEWTOWN CREEK	REG #L-8			
BB-014	VERNON BOULEVARD (REG # L-9)	40	44	23	73	57	17	22" DIA	NEWTOWN CREEK	REG #L-9			
BB-015	5TH ST (REG # L-10)	40	44	21	73	57	27	15" DIA	NEWTOWN CREEK	REG #L-10			
BB-017	50TH AVE (REG # L-12)	40	44	37	73	57	34	15" DIA	EAST RIVER	REG #L-12			
BB-018	49TH AVE (REG # L-12A)	40	44	39	73	57	32	16" DIA	EAST RIVER	REG #L-12A			
BB-021	47TH AVE (REG # L-15)	40	44	47	73	57	31	48" DIA	EAST RIVER	REG #L-15			
BB-022	5TH ST (REG # L-16)	40	44	52	73	57	17	18" DIA	EAST CHANNEL	REG #L-16			
BB-023	44TH DRIVE (REG # L-17)	40	44	58	73	57	20	66" DIA	EAST CHANNEL	REG #L-17			
BB-024	43RD AVE (REG # L-18)	40	45	13	73	57	7	7' 8" X 7' 7" ARCH	EAST CHANNEL	REG #L-18			
BB-025	41ST AVE (REG # L-19)	40	45	26	73	56	57	57" DIA	EAST CHANNEL	REG #L-19			
BB-026	BETWEEN 28TH & 29TH ST. (REG # L- (4, 39, 40 & 42)	40	44	35	73	56	21	9' X 4' 6"	DUTCH KILLS	REG #L-4, L-39, L-40, L-42			YES (ON L-4)
BB-027	38TH AVE (REG # L-20)	40	45	32	73	56	51	72" DIA	EAST CHANNEL	REG #L-20			
BB-028	37TH AVE (REG # L-21)	40	45	41	73	56	44	DBL 12' X 8' 2"	EAST CHANNEL	REG #L-21			YES
BB-029	BROADWAY(REG # L-22)	40	46	6	73	56	16	14' 6" X 8' 10" FT	EAST CHANNEL	REG #L-22			YES
BB-030	30TH ROAD (REG # L-23)	40	46	16	73	56	5	DBL 9' 6" X 6'	EAST CHANNEL	REG #L-23			YES
BB-032	MAIN AVE (REG # L-29 A, # MH-15)	40	46	27	73	56	16	48" DIA	EAST RIVER	REG #L-29, L-29A, MH-15			
BB-033	27TH AVE (REG # L-27)	40	46	33	73	56	13	15" DIA	EAST RIVER	REG #L-27			

BB-034	HOYT AVE (REG # L-30)	40	46	36	73	55	41	10' 8" X 7' 4" ARCH	EAST RIVER	REG #L-30			YES
BB-035	DITMARS BLVD (REG # L-31)	40	46	57	73	55	11	18" DIA	EAST RIVER	REG #L-31			
BB-036	21ST AVE (REG # L-32)	40	47	3	73	55	2	24" DIA	EAST RIVER	REG #L-32			
BB-037	20TH AVE	40	47	10	73	54	55	48" DIA	EAST RIVER	REG #L-33			
BB-040	49TH AVE (REG # L-5)	40	44	27	73	56	26	24" DIA	DUTCH KILLS	REG #L-5			
BB-041	19TH AVE (REG # 1)	40	46	48	73	54	8	66" DIA	LUYSTER CREEK	REG #1			
BB-042	W/O 27TH ST (REG # L-6)	40	44	20	73	56	35	12" DIA	DUTCH KILLS	REG #L-6			
BB-043	11TH ST (REG # L-7)	40	44	22	73	57	8	54" DIA	NEWTOWN CREEK	REG #L-7			
BB-045	9TH ST (REG # L-25)	40	46	34	73	55	47	18" DIA	EAST RIVER	REG #L-25			
BB-053	SHORE BLVD AND 20 AVE	40	47	10	73	54	55	48"	EAST RIVER	N/A			
BB-054	ROOSEVELT ISLAND NORTH PUMPING STATION	40	46	7	73	56	32	18" DIA	EAST CHANNEL	ROOSEVELT ISL. P.S.			
BB-055	ROOSEVELT ISLAND MIDDLE PUMPING STATION	40	45	56	73	56	41	30" DIA	EAST CHANNEL	ROOSEVELT ISL. P.S.			
BB-056	ROOSEVELT ISLAND SOUTH PUMPING STATION	40	45	10	73	57	25	24" DIA	EAST CHANNEL	ROOSEVELT ISL. P.S.			
BB-057	BORDEN AVE (REG #L-11)	40	44	33	73	57	40	48" DIA	EAST RIVER	REG #L-11			

OUTFALL ID	OUTFALL LOCATION	LATITUDE			LONGITUDE			OUTFALL SIZE	RECEIVING WATER
		DEG	MIN	SEC	DEG	MIN	SEC		
BB-601	127TH ST	40	45	45	73	50	40	60" DIA	EAST RIVER
BB-602	126TH ST	40	45	40	73	50	48	60" DIA	EAST RIVER
BB-603	STEINWAY ST	40	46	53	73	53	43	7' X 6' 6" FT	EAST RIVER
BB-606	49TH AVE	40	44	39	73	57	32	60" DIA	EAST RIVER
BB-607	47TH ROAD	40	44	44	73	57	30	36" DIA	EAST RIVER
BB-608	70TH ROAD	40	43	29	73	50	7	60" X 24"	MEADOW LAKE
BB-609	S/O 28TH STS	40	44	35	73	56	22	48" DIA	DUTCH KILLS
BB-610	BETWEEN 28TH & 29TH STS	40	44	35	73	56	22	48" DIA	DUTCH KILLS
BB-611	CENTER BLVD & BORDERN AVE	40	44	33	73	57	40	42" DIA	EAST RIVER
BB-612	CENTER BLVD & 54 AVE	40	44	28	73	57	40	42" DIA	EAST RIVER
BB-613	26TH AVE	40	46	38	73	56	9	48" DIA	EAST RIVER
BB-408	South West portion of the island. Near Rikers Island Bridge.	40	47	12	73	53	10	36" DIA	EAST RIVER
BB-409	Far South East portion of the island. Near Rikers Island Bridge.	40	47	8	73	52	47	42" DIA	EAST RIVER
BB-2201	Far North East portion of the island. Perpendicular to Mandanici Road	40	47	31	73	52	29	48" DIA	EAST RIVER
BB-2202	North East portion of the isalnd. Perpendicular to Mandanici Road.	40	47	41	73	52	47	30" DIA	EAST RIVER
BB-2203	South East portion of the island. Near Rikers Island Bridge.	40	47	11	73	53	0	24" DIA	EAST RIVER
BB-2204	South East portion of the island. Near Rikers Island Bridge.	40	47	9	73	52	54	30" DIA	EAST RIVER
BB-2205	Far South West portion of the island. Near Rikers Island Bridge.	40	47	13	73	53	14	24" DIA	EAST RIVER
BB-2206	South West portion of the island. Behind EMTC.	40	47	24	73	53	25	16" DIA	EAST RIVER
BB-237	s/o 19th Avenue	40	46	49	73	54	9	8" DIA	LUYSTER CREEK
BB-268	25' S/O 43RD AVENUE	40	45	13	73	57	8	4" DIA	EAST RIVER, LOWER
BB-568	500' e/o Harper Street	40	45	55	73	50	27	6" DIA	FLUSHING CREEK/BAY
BB-280	75' e/o Harper Street	40	45	53	73	50	32	18" DIA	FLUSHING CREEK/BAY
BB-505	250' e/o Harper Street	40	45	54	73	50	30	6" DIA	FLUSHING CREEK/BAY

CONEY ISLAND

OUTFALL ID	OUTFALL LOCATION	LATITUDE			LONGITUDE			OUTFALL SIZE	RECEIVING WATER	CONTRIBUTORS	BOOM	NET	TELEMETRY
		DEG	MIN	SEC	DEG	MIN	SEC						
CI-001	CONEY ISLAND WRRF OUTFALL	40	33	58	73	55	50	96" DIA	ROCKAWAY INLET				
CI-002	CONEY ISLAND WRRF OUTFALL	40	33	57	73	55	50	72" DIA	ROCKAWAY INLET				
CI-004	FLATLANDS AVE (REG # 5, TG # 5)	40	37	53	73	55	2	DBL 10' X 9'	PAERDEGAT BASIN	TG #5	YES		YES (ON TG-5)
CI-005	FLATLANDS AVE (REG # 1-4)	40	37	54	73	55	1	5BL 12' 0" X 9' 0"	PAERDEGAT BASIN	REG #1, 2, 3, 4	YES		YES (ON 4)
CI-006	RALPH AVE (REG # 6)	40	37	51	73	55	1	DBL 84" DIA	PAERDEGAT BASIN	REG #6	YES		YES
CI-008A	RALPH AVE (PAERDEGAT BASIN CSORF OVERFLOW)	40	37	49	73	54	58	3 BL 6' x 10'	PAERDEGAT BASIN	PAERDEGAT BASIN CSORF OVERFLOW			

CI-008B	RALPH AVE (PAERDEGAT BASIN CSORF OVERFLOW)	40	37	49	73	54	58	3 BL 6' x 10'	PAERDEGAT BASIN	PAERDEGAT BASIN CSORF OVERFLOW			
CI-008C	RALPH AVE (PAERDEGAT BASIN CSORF OVERFLOW)	40	37	49	73	54	58	3 BL 6' x 10'	PAERDEGAT BASIN	PAERDEGAT BASIN CSORF OVERFLOW			
CI-008D	RALPH AVE (PAERDEGAT BASIN CSORF OVERFLOW)	40	37	49	73	54	58	3 BL 6' x 10'	PAERDEGAT BASIN	PAERDEGAT BASIN CSORF OVERFLOW			

OUTFALL ID	OUTFALL LOCATION	LATITUDE			LONGITUDE			OUTFALL SIZE	RECEIVING WATER
		DEG	MIN	SEC	DEG	MIN	SEC		
CI-601	W 28TH ST	40	34	48	73	59	43	5' X 4'	CONEY ISLAND CREEK
CI-602	W 33RD ST	40	34	52	74	0	2	6' 6" X 4'	CONEY ISLAND CREEK
CI-603	DOVER ST	40	34	56	73	57	0	72" DIA	SHEEPSHEAD BAY
CI-605	SHORE BLVD (140' N/O WEST END AVE PIER)	40	34	56	73	57	11	14' X 7'	SHEEPSHEAD BAY
CI-607	E 21ST ST (UNDER PIER 1)	40	35	0	73	56	50	12" DIA	SHEEPSHEAD BAY
CI-608	E 22ND ST (10' W/O PIER 3)	40	35	0	73	56	47	12" DIA	SHEEPSHEAD BAY
CI-610	E 27TH ST	40	35	0	73	56	28	DBL 13' X 7' 6"	SHEEPSHEAD BAY
CI-611	DEVON AVE	40	35	29	73	55	49	36" DIA	SHELL BANK CREEK
CI-612	EVERETT AVE	40	35	24	73	55	48	36" DIA	SHELL BANK CREEK
CI-613	FLATBUSH AVE	40	36	12	73	54	54	DBL 10' 6 "X 8'	MILL BASIN
CI-614	E/O E 58TH ST	40	36	48	73	54	58	60" DIA	MILL BASIN
CI-615	E 61ST ST	40	36	52	73	54	52	8' X 8' FT	MILL BASIN
CI-616	STRICKLAND AVE	40	36	25	73	54	59	4' X 4' FT	MILL BASIN
CI-617	E 64TH ST	40	36	18	73	54	53	48" DIA	MILL BASIN
CI-618	DAKOTA PLACE	40	36	23	73	54	29	42" DIA	MILL BASIN
CI-619	INDIANA PLACE	40	36	18	73	54	16	30" DIA	MILL BASIN
CI-620	BASSET AVE	40	36	30	73	54	7	4' X 4' FT	EAST MILL BASIN
CI-621	UTAH WALK	40	36	40	73	54	12	3' X 3' FT	EAST MILL BASIN
CI-622	OHIO WALK	40	36	50	73	54	24	4' X 4'	EAST MILL BASIN
CI-623	STRICKLAND AVE	40	36	56	73	54	32	4' X 4' FT	EAST MILL BASIN
CI-624	E 68TH ST	40	37	2	73	54	30	7' X 7'	EAST MILL BASIN
CI-625	AVE V	40	37	0	73	54	27	5' X 5' FT	EAST MILL BASIN
CI-626	AVE W	40	36	54	73	54	21	4' X 4' FT	EAST MILL BASIN
CI-627	AVE X	40	36	48	73	54	15	4' X 4' FT	EAST MILL BASIN
CI-628	AVE L	40	37	43	73	54	45	66" DIA	PAERDEGAT BASIN
CI-629	PAERDEGAT 4TH ST	40	37	46	73	54	41	6' 6" X 6' 6"	PAERDEGAT BASIN
CI-630	PAERDEGAT 7TH ST	40	37	42	73	54	32	6' 6" X 6' 6"	PAERDEGAT BASIN
CI-631	PAERDEGAT 10TH ST	40	37	38	73	54	23	5' X 5' FT	PAERDEGAT BASIN
CI-632	PAERDEGAT 13TH ST	40	37	34	73	54	14	6' 6" X 6' 6"	PAERDEGAT BASIN
CI-633	CANARSIE ROAD	40	37	42	73	53	8	9' 6" X 7'	JAMAICA BAY
CI-634	AVE N	40	38	28	73	52	57	6' 6" X 6' 6"	FRESH CREEK BASIN
CI-636	AVE L	40	38	39	73	53	11	6' 6" X 6' 6"	FRESH CREEK BASIN
CI-637	AVE K	40	38	45	73	53	17	6' X 6'	FRESH CREEK BASIN
CI-639	W 12TH ST	40	34	47	73	58	46	108"	CONEY ISLAND CREEK
CI-641	25' S/O SHORE PARKWAY (HEAD OF CREEK)	40	34	57	73	58	29	12' X 5' 6"	CONEY ISLAND CREEK
CI-653	W 8TH ST	40	34	52	73	58	34	7' 6" X 6'	CONEY ISLAND CREEK
CI-654	BRAGG COURT	40	34	58	73	55	57	84" DIA	SHEEPSHEAD BAY
CI-655	AVE Y	40	35	33	73	55	53	10' X 8'	SHELL BANK CREEK
CI-656	GERRITSEN AVE (HEAD OF SHELL BANK CANAL)	40	35	28	73	55	26	15" DIA	SHELL BANK CREEK
CI-657	GARLAND COURT	40	35	40	73	55	55	18" DIA	SHELL BANK CREEK
CI-659	SHORE BLVD	40	34	56	73	57	11	9' 6" X 7'	SHEEPSHEAD BAY
CI-660	E 66TH ST	40	36	15	73	54	49	2' 6" X 2' 6" FT	MILL BASIN
CI-661	SEAVIEW AVE	40	38	22	73	52	50	66" DIA	FRESH CREEK BASIN
CI-662	W 32ND ST	40	34	17	73	59	52	42" DIA	ATLANTIC OCEAN
CI-663	W 23RD ST	40	34	18	73	59	21	42" DIA	ATLANTIC OCEAN
CI-664	W 15TH ST	40	34	57	73	59	3	5' X 4'	CONEY ISLAND CREEK

CI-665	W. 21ST ST	40	34	43	73	59	18	13' 3" X 7' 6"	CONEY ISLAND CREEK
CI-666	N/O WEST END AVE PIER	40	34	55	73	57	11	72" DIA	SHEEPSHEAD BAY
CI-668	CHANNEL AVE	40	35	36	73	55	47	3' 6" X 3' 6" FT	SHELL BANK CREEK
CI-669	FLORENCE AVE	40	35	21	73	55	44	36" DIA	SHELL BANK CREEK
CI-670	BARTLETT PLACE	40	35	18	73	55	38	3' X 3' FT	SHELL BANK CREEK
CI-671	CYRUS AVE	40	35	14	73	55	36	3' X 3' FT	SHELL BANK CREEK
CI-672	SEBA AVE	40	35	10	73	55	31	3' X 3' FT	SHELL BANK CREEK
CI-673	LOIS AVE	40	35	9	73	55	22	2' 6" X 2' 6" FT	PLUM BEACH CHANNEL
CI-674	GERRITSEN AVE	40	35	11	73	55	5	3' 6" X 3' 6" FT	PLUM BEACH CHANNEL
CI-676	56TH DRIVE	40	36	14	73	54	32	24" DIA	MILL BASIN
CI-677	OCEAN AVE	40	35	0	73	56	53	DBL 8' 7" X 8'	SHEEPSHEAD BAY
CI-678	W 35TH ST	40	34	52	74	0	6	60" DIA	GRAVESEND BAY
CI-679	OXFORD ST	40	34	51	73	56	17	36" DIA	SHEEPSHEAD BAY
CI-680	MACKENZIE ST	40	34	51	73	56	24	48" DIA	SHEEPSHEAD BAY
CI-681	KENSINGTON ST	40	34	51	73	56	31	24" DIA	SHEEPSHEAD BAY
CI-682	BIJOU AVE	40	35	40	73	55	51	3' X 3'	SHELL BANK CREEK
CI-683	HASTINGS STREET	40	34	53	73	56	41	60" DIA	SHEEPSHEAD BAY
CI-684	FALMOUTH STREET	40	34	54	73	56	48	24" DIA	SHEEPSHEAD BAY
CI-685	SHEEPSHEAD BAY SHORELINE	40	34	55	73	57	6	24" DIA	SHEEPSHEAD BAY
CI-686	Dooley Street	40	35	0	73	56	41	12" DIA	SHEEPSHEAD BAY
CI-688	CYRUS AVENUE	40	35	0	73	56	38	10" DIA	SHELL BANK CREEK
CI-687	E 23RD STREET	40	35	14	73	55	36	12" DIA	SHEEPSHEAD BAY
CI-689	LANDIS PLACE	40	35	16	73	55	38	18" DIA	SHELL BANK CREEK
CI-690	MERIT COURT	40	35	15	73	55	37	18" DIA	SHELL BANK CREEK
CI-691	KEEN COURT	40	35	13	73	55	35	18" DIA	SHELL BANK CREEK
CI-692	LESTER COURT	40	35	12	73	55	34	18" DIA	SHELL BANK CREEK
CI-693	MELBA COURT	40	35	11	73	55	33	18" DIA	SHELL BANK CREEK
CI-694	Nova Court	40	35	11	73	55	32	18" DIA	SHELL BANK CREEK
CI-695	Seba Avenue	40	35	10	73	55	32	18" DIA	SHELL BANK CREEK
CI-696	s/o Post Court	40	35	8	73	55	29	18" DIA	PLUM BEACH CHANNEL
CI-697	MADOC AVENUE	40	35	9	73	55	27	18" DIA	PLUM BEACH CHANNEL
CI-698	Frank Court	40	35	9	73	55	14	18" DIA	PLUM BEACH CHANNEL
CI-699	Canton Court	40	35	9	73	55	13	18" DIA	PLUM BEACH CHANNEL
CI-700	BEACON COURT	40	35	10	73	55	8	18" DIA	PLUM BEACH CHANNEL
CI-701	ABBAY COURT	40	35	10	73	55	6	18" DIA	PLUM BEACH CHANNEL
CI-482	50' N/O SOUTH COAST GUARD BOAT RAMP	40	35	22	73	52	46	12" DIA	JAMAICA BAY, WESTERN, AND TRIBS (BRKLYNB

HUNTS POINT

OUTFALL ID	OUTFALL LOCATION	LATITUDE			LONGITUDE			OUTFALL SIZE	RECEIVING WATER	CONTRIBUTORS	BOOM	NET	TELEMETRY
		DEG	MIN	SEC	DEG	MIN	SEC						
HP-001	HUNTS POINT WRRF OUTFALL	40	48	8	73	52	56	84" DIA	EAST RIVER				
HP-002	TIFFANY ST (REG # 9, 9A)	40	48	18	73	53	23	DBL 5' 6" X 9'	EAST RIVER	REG #9, 9A			YES (ON 9)
HP-003	FARRAGUT ST (REG # 10)	40	48	4	73	52	29	DBL 12' X 9' 5-3/4"	EAST RIVER	REG #10	YES		YES
HP-004	WEST FARM ROAD	40	50	17	73	52	45	8' X 8'	BRONX RIVER	CSO-28, 28A	YES		
HP-005	HOLLARS AVE (PUMP STATION)	40	53	12	73	49	13	12" DIA	EASTCHESTER BAY	HOLLERS AVE P.S.			
HP-006	BARTOW AVE (CO-OP CITY SOUTH PS)	40	52	7	73	49	18	15' 0" X 8' 6"	EASTCHESTER BAY	CO-OP CITY SOUTH P.S., ELY AVE PS			
HP-007	E 177TH ST (CSO-27,27A)	40	52	20	73	52	43	DBL 11' 6" X 6' 6"	BRONX RIVER	CSO-27, 27A	YES		
HP-008	LAFAYETTE AVE & COLGATE AVE	40	52	8	73	52	53	54" DIA	BRONX RIVER	CSO-26			
HP-009	RANDALL AVE & METCALF AVE (REG #13)	40	52	52	73	52	14	14' X 8'	BRONX RIVER	REG #13			YES
HP-010	LACOMBE AVE	40	52	48	73	52	11	9' X 6'	BRONX RIVER	CSO-25			
HP-011	WHITE PLAINS ROAD (REG #5)	40	52	16	73	51	15	DBL 13' X 9'	EAST RIVER	REG #5, 6, 7	YES		YES (ON 5 & 6)

HP-012	LAFAYETTE AVE (CSO-23A)	40	52	26	73	50	27	12' X 8'	WESTCHESTER CREEK	CSO-23A			
HP-013	NEWMAN AVE (CSO-24)	40	52	49	73	51	10	12' X 8'	PUGSLEY'S CREEK	CSO-24			
HP-014	E.TREMONT AVE (CSO-29, 29A)	40	52	22	73	50	24	DBL 14' X 8' 6"	WESTCHESTER CREEK	CSO-29, 29A			
HP-015	LATTING ST (CSO-22)	40	52	14	73	50	21	4' 9" X 4'	WESTCHESTER CREEK	CSO-22			
HP-016	BRUCKNER EXPRESSWAY (REG #4)	40	52	42	73	50	31	10' X 8'6"	WESTCHESTER CREEK	REG #4			YES
HP-017	EMERSON AVE (REG #11)	40	52	40	73	49	34	14' X 8'	EAST RIVER	REG #11			YES
HP-018	ROBINSON AVE (REG #12)	40	52	42	73	49	28	6' 4" X 4'	EAST RIVER	REG #12			YES
HP-019	CALHOUN AVE (REG #3)	40	52	49	73	49	1	7' X 5' 6"	EAST RIVER	REG #3			YES
HP-020	THROGS NECK BOULEVARD (REG #2A)	40	52	46	73	48	39	8' X 6' 6"	EAST RIVER	REG #2A			
HP-021	PENNYFIELD AVE (REG #2)	40	52	30	73	48	13	6' 3" X 6' 6"	EAST RIVER	REG #2			YES
HP-022	E 177TH ST (REG #1)	40	52	56	73	47	51	8' X 8'	LONG ISLAND SOUND	REG #1			YES
HP-023	CONNOR ST (REG #15)	40	52	49	73	49	17	12'0" X 6'6"	EASTCHESTER BAY	REG #15, CONNOR ST.PS			
HP-024	E. 233RD ST (REG #15A)	40	52	16	73	49	27	12' 6" X 10'	EASTCHESTER BAY	REG #15A			
HP-025	TRUXTON ST (REG # 8)	40	52	22	73	53	32	11' 6" X 7' 3"	EAST RIVER	REG #8			YES
HP-026	ELLESWORTH AVE (REG #14)	40	52	27	73	48	50	9' X 8'	LONG ISLAND SOUND	REG #14			YES
HP-028	OUTLOOK AVE (CSO #20)	40	52	38	73	48	59	12" DIA	EASTCHESTER BAY	CSO-20			
HP-029	WATT AVE (CSO #21)	40	52	54	73	48	55	15" DIA	EASTCHESTER BAY	CSO-21			
HP-031	BELLAMY LOOP (NORTH)	40	52	25	73	49	24	72" DIA	EASTCHESTER BAY	CSO-32, CO-OP CITY N. P.S.			
HP-032	RIKERS ISLAND NORTH PUMPING STATION	40	52	51	73	53	10	14" DIA	EAST RIVER	RIKER'S ISLAND N. P.S.			
HP-033	S/O BRUCKNER BLVD & E/O ZEREGA AVE (CSO-23)	40	52	40	73	50	33	DBL 16' X 5'	WESTCHESTER CREEK	CSO-23			
HP-034	NEWBOLD AVE (COMMERCE ST PS)	40	52	5	73	50	22	60" DIA	WESTCHESTER CREEK	COMMERCE AVE P.S.			
HP-037	ORCHARD BEACH PUMPING STATION	40	52	0	73	48	5	15" DIA	LAGOON	ORCHARD BEACH P.S.			
HP-039	N/O HUNTS POINT	40	52	14	73	52	11	72" DIA	EAST RIVER	HUNT'S PONT MARKET P.S.			

OUTFALL ID	OUTFALL LOCATION	LATITUDE			LONGITUDE			OUTFALL SIZE	RECEIVING WATER
		DEG	MIN	SEC	DEG	MIN	SEC		
HP-602	LAFAYETTE AVE	40	50	0	73	48	58	36" DIA	LONG ISLAND SOUND
HP-608	S/O E. FORDHAM RD (BOTANICAL GDNS)	40	51	16	73	52	38	18" DIA	BRONX RIVER (W)
HP-626	242ND ST	40	54	26	73	51	18	36" DIA	BRONX RIVER
HP-627	S/O 233RD ST	40	53	39	73	51	45	36" DIA	BRONX RIVER
HP-631	RANDALL AVE	40	49	47	73	48	50	48" DIA	LONG ISLAND SOUND
HP-632	BEACH ST (CITY ISLAND)	40	51	6	73	47	24	15" DIA	LONG ISLAND SOUND
HP-634	E. TREMONT AVE	40	50	22	73	50	23	3' X 7' 4"	WESTCHESTER CREEK
HP-635	RANDALL AVE	40	49	11	73	50	19	30" DIA	WESTCHESTER CREEK
HP-636	UNDER BOSTON ROAD BRIDGE	40	53	16	73	49	25	48" DIA	EASTCHESTER BAY
HP-637	PEARTREE AVE	40	52	46	73	49	18	72" DIA	EASTCHESTER BAY
HP-638	BELLAMY LOOP (SOUTH)	40	52	19	73	49	25	36" DIA	EASTCHESTER BAY
HP-639	N/O BARTOW AVE	40	52	12	73	49	24	66" DIA	EASTCHESTER BAY
HP-640	EINSTEIN LOOP NORTH	40	51	53	73	49	11	48" DIA	EASTCHESTER BAY
HP-641	ERSKINE PLACE	40	51	46	73	49	10	42" DIA	EASTCHESTER BAY
HP-648	LAYTON AVE	40	50	9	73	48	57	16' X 6'	LONG ISLAND SOUND
HP-650	ABBOTT ST (BRADELEY ST)	40	54	23	73	51	20	30" DIA	BRONX RIVER
HP-651	50' E/O CASTLE HILL AVE	40	48	41	73	50	45	24" DIA	WESTCHESTER CREEK
HP-652	ERSKINE PLACE	40	51	45	73	49	9	30" DIA	EASTCHESTER BAY
HP-653	SUTHERLAND ST (CITY ISLAND)	40	51	22	73	47	19	2' 6" X 1' 7"	LONG ISLAND SOUND
HP-655	WILCOX AVE	40	49	36	73	48	49	30" DIA	LONG ISLAND SOUND
HP-656	SE/O HUTCHINSON RIVER PARKWAY (E)	40	52	3	73	49	13	30" DIA	EASTCHESTER BAY
HP-657	KILROE ST	40	51	18	73	47	18	18" DIA	LONG ISLAND SOUND
HP-658	AGAR PLACE	40	50	19	73	48	55	42" DIA	LONG ISLAND SOUND
HP-659	CITY ISLAND AVE	40	50	14	73	46	58	18" DIA	LONG ISLAND SOUND
HP-660	SCHOFIELD ST AND LANDING WAY	40	50	44	73	46	57	60"	LONG ISLAND SOUND
HP-661	BUTLER PL & FERRIS PL	40	50	18	73	50	24	24" DIA	WESTCHESTER CREEK
HP-662	BEACH ST & KING AVE	40	51	9	73	47	12	30" DIA	LONG ISLAND SOUND
HP-663	ZEREGA AVE & LACOMBE AVE	40	49	3	73	50	32	5' X 3' 2"	WESTCHESTER CREEK
HP-664	CORNELL AVE	40	48	29	73	50	59	24" DIA	EAST RIVER
HP-665	SCHLEY AVE	40	48	59	73	50	24	36" DIA	WESTCHESTER CREEK
HP-119	TURNBULL AVENUE	40	49	30	73	50	28	10" DIA	WESTCHESTER CREEK

HP-223	North West portion of the island. Near Cogen.	40	51	11	73	47	24	15" DIA	LONG ISLAND SOUND
HP-392	S/O SEWARD AVENUE	40	49	18	73	50	23	16" DIA	WESTCHESTER CREEK
HP-458	North West portion of the island. Perpendicular to West Facility.	40	47	38	73	53	32	36" DIA	EAST RIVER, UPPER
HP-523	100' SW/O FARRAGUT STREET	40	48	5	73	52	30	36" DIA	EAST RIVER, UPPER
HP-527	100' S/O NYC - PD SHOOTIN RANGE FENCE	40	51	9	73	47	53	36" DIA	LONG ISLAND SOUND, BRONX
HP-2200	North West portion of the island. Behind Transportation Divison.	40	47	48	73	53	7	20" DIA	EAST RIVER, UPPER
HP-2203	North East portion of the island. Perpendicular to Mandanici Road	40	47	43	73	52	58	36" DIA	EAST RIVER, UPPER
HP-2204	North West portion of the island. Near old Loading dock area.	40	47	50	73	53	28	36" DIA	EAST RIVER, UPPER
HP-2900	VAN CORTLANDT LAKE	40	53	31	73	53	18	36" DIA	VAN CORTLANDT LAKE
HP-2901	VAN CORTLANDT PARK	40	53	27	73	53	0	15" DIA	WETLAND
HP-2902	VAN CORTLANDT PARK NEAR MOSHOLU PKWY S	40	53	29	73	53	14	12" DIA	VAN CORTLANDT PARK
HP-2904	VAN CORTLANDT PARK	40	53	24	73	53	44	12" DIA	VAN CORTLANDT PARK
HP-2907	VAN CORTLANDT LAKE	40	53	25	73	53	19	10" DIA	VAN CORTLANDT LAKE
HP-2909	VAN CORTLANDT PARK NEAR MOSHOLU PKWY N	40	53	13	73	53	19	15" DIA	POND
HP-2911	VAN CORTLANDT PARK NEAR MOSHOLU PKWY N	40	54	7	73	53	15	15" DIA	TIBBETTS BROOK AND TRIBS

JAMAICA

OUTFALL ID	OUTFALL LOCATION	LATITUDE			LONGITUDE			OUTFALL SIZE	RECEIVING WATER	CONTRIBUTORS	BOOM	NET	TELEMETRY
		DEG	MIN	SEC	DEG	MIN	SEC						
JAM-001	JAMAICA WRRF OUTFALL	40	37	52	73	47	53	84" DIA	GRASSY BAY				
JAM-003	123RD ST (REG # 3)	40	39	43	73	49	7	DBL 8' X 9'	BERGEN BASIN	REG #3	YES		YES
JAM-003A	123RD ST (REG # 14)	40	39	43	73	49	6	DBL 13' 6" X 9'	BERGEN BASIN	REG #14	YES		YES
JAM-005	230TH ST (REG # 6, 7, 8 & 9)	40	38	51	73	45	17	4BL 16' X 8'	THURSTON BASIN	REG #6, 7, 8, 9	YES		YES (ON 9)
JAM-006	155TH AVE (JAMAICA WRRF SECONDARY OUTFALL & REG # 1)	40	39	37	73	48	40	3BL 19' X 9'	BERGEN BASIN	REG #1, 4, 10, SECONDARY PLANT EFFLUENT	YES		YES (ON 1 & 10)
JAM-007	HEAD OF THURSTON BASIN (REG # 6, 7, 8 & 9)	40	38	52	73	45	16	4BL 17' X 6'	THURSTON BASIN	REG #6, 7, 8, 9	YES		YES (ON 9)

OUTFALL ID	OUTFALL LOCATION	LATITUDE			LONGITUDE			OUTFALL SIZE	RECEIVING WATER
		DEG	MIN	SEC	DEG	MIN	SEC		
JAM-601	165TH AVE	40	38	56	73	50	12	36" DIA	SHELLBANK BASIN
JAM-602	164TH AVE	40	39	3	73	50	14	30" DIA	SHELLBANK BASIN
JAM-603	163RD AVE	40	39	8	73	50	15	84" DIA	SHELLBANK BASIN
JAM-604	162ND AVE	40	39	15	73	50	17	33" DIA	SHELLBANK BASIN
JAM-605	161ST AVE	40	39	21	73	50	18	36" DIA	SHELLBANK BASIN
JAM-606	160TH AVE	40	39	27	73	50	20	8' X 5' 6"	SHELLBANK BASIN
JAM-607	158TH AVE	40	39	39	73	50	23	10' X 5' 6"	SHELLBANK BASIN
JAM-609	158TH AVE	40	39	39	73	50	19	6' 6" X 6' FT	SHELLBANK BASIN
JAM-629	164TH AVE	40	39	6	73	49	54	12" DIA	HAWTREE BASIN
JAM-630	159TH AVE (REG # TG-12)	40	39	33	73	50	21	42" DIA	SHELLBANK BASIN
JAM-631	160TH AVE	40	39	27	73	50	16	12" DIA	SHELLBANK BASIN
JAM-632	162ND AVE	40	39	15	73	50	13	12" DIA	SHELLBANK BASIN
JAM-633	163RD AVE	40	39	9	73	50	12	12" DIA	SHELLBANK BASIN
JAM-634	164TH AVE	40	39	3	73	50	10	12" DIA	SHELLBANK BASIN
JAM-635	100TH ST	40	39	29	73	49	58	18" DIA	HAWTREE BASIN
JAM-636	161ST AVE	40	39	24	73	49	59	12" DIA	HAWTREE BASIN
JAM-637	162ND AVE	40	39	18	73	49	57	12" DIA	HAWTREE BASIN
JAM-638	164TH DRIVE	40	39	3	73	49	48	18" DIA	HAWTREE BASIN
JAM-640	147TH AVE & 184TH ST	40	39	34	73	45	47	24" DIA	SPRINGFIELD PARK
JAM-648	S/O 137TH AVE	40	40	14	73	44	13	15" DIA	LAURELTON
JAM-649	HUXLEY ST	40	38	57	73	44	12	13' 6" X 7' 0"	HOOK CREEK
JAM-652	WELLER LANE	40	38	59	73	44	2	30" DIA	HOOK CREEK
JAM-653	256TH ST	40	39	0	73	43	59	36" DIA	HOOK CREEK
JAM-654	257TH ST	40	39	0	73	43	55	12" DIA	HOOK CREEK
JAM-655	HOOK CREEK BLVD	40	39	5	73	43	36	54" DIA	HOOK CREEK

JAM-656	101ST ST	40	39	29	73	49	54	18" DIA	HAWTREE BASIN
JAM-657	163RD AVE & PEDESTRIAN BRIDGE	40	39	12	73	49	55	24" DIA	HAWTREE BASIN
JAM-659	OPPOSITE OF 65TH AVE	40	45	8	73	44	33	36" DIA	ALLEY CREEK
JAM-660	125' N/O LONG ISLAND WB EXIT 31S RAMP NEAR CROSS ISLAND PARKWAY	40	45	18	73	44	43	30" DIA	ALLEY CREEK
JAM-661	259TH ST	40	39	1	73	43	49	54" DIA	HOOK CREEK
JAM-662	119TH AVE	40	40	48	73	47	12	24" DIA	BAISLEY POND
JAM-663	ARTHUR ST	40	39	49	73	45	38	54" DIA	BAY/OCEAN
JAM-664	ROCKAWAY BLVD AND 183RD ST	40	39	16	73	45	49	16'6" x 5'0"	Stream wider than 8 feet
JAM-665	119 DR & LAKEVIEW BLVD E	40	40	48	73	47	5.8	42" DIA	BAISLEY POND
JAM-666	BROOKEVILLE BLVD & 140' S/O 133RD AVE	40	40	30	73	43	57	4'6" X 2'10"	LAURELTON
JAM-667	BROOKEVILLE BLVD & 200' S/O 128TH RD	40	40	50	73	43	41	24" DIA	LAURELTON
JAM-668	BROOKEVILLE BLVD & 129TH AVE	40	40	47	73	43	43	24" DIA	LAURELTON
JAM-669	BROOKVILLE PARK	40	39	27	73	44	49	10 FT DIA	Hook Creek

NEWTOWN CREEK

OUTFALL ID	OUTFALL LOCATION	LATITUDE			LONGITUDE			OUTFALL SIZE	RECEIVING WATER	CONTRIBUTORS	BOOM	NET	TELEMETRY
		DEG	MIN	SEC	DEG	MIN	SEC						
NCB-001	NEWTOWN CREEK WRRF OUTFALL	40	43	54	73	57	55	144" DIA	EAST RIVER				
NCB-002	NEWTOWN CREEK WRRF SECONDARY OUTFALL	40	44	3	73	56	48	3BL 7' X 8'	WHALE CREEK	WRRF OVERFLOW			
NCB-003	GREENPOINT AVE (REG # B-11)	40	43	46	73	57	40	24" DIA	EAST RIVER	REG #B-11			
NCB-004	QUAY ST (REG # B-10)	40	43	33	73	57	42	66" DIA	EAST RIVER	REG #B-10			
NCB-006	NORTH 12TH ST (REG # B-9)	40	43	30	73	57	43	13' X 13'	EAST RIVER	REG #B-9		YES	YES
NCB-007	NORTH 5TH ST (REG # B-8)	40	43	12	73	57	51	36" DIA	EAST RIVER	REG #B-8			
NCB-008	METROPOLITAN AVE (REG # B-7)	40	43	6	73	57	57	60" DIA	EAST RIVER	REG #B-7			
NCB-010	GRAND ST (REG # B-6A)	40	42	59	73	58	2	12" DIA	EAST RIVER	REG #B-6A			
NCB-012	SOUTH 5TH ST (REG # B-6)	40	42	46	73	58	6	144" DIA	EAST RIVER	REG #B-6			YES
NCB-013	DIVISION AVE (REG # B-5)	40	42	24	73	58	9	10' X 8'	WALLABOUT CHANNEL	REG #B-5	YES		YES
NCB-014	KENT AVE (REG # B-4)	40	42	21	73	58	9	DBL 13' 6" X 11' 6"	WALLABOUT CHANNEL	REG #B-3, B-4	YES		YES (ON B-4)
NCB-015	JOHNSON AVE (REG # B-1)	40	42	31	73	55	49	16' X 10'	ENGLISH KILLS	REG #B-1	YES		YES
NCB-019	METROPOLITAN AVE (REG B-2)	40	42	50	73	55	26	36" DIA	NEWTOWN CREEK	REG #B-2	YES		
NCB-021	MCGUINESS BOULEVARD	40	44	19	73	57	9	36" DIA	NEWTOWN CREEK	CSO NEXT TO B-17			
NCB-022	MCGUINESS BOULEVARD (REG # B-17)	40	44	20	73	57	10	6' 3" X 4' 6"	NEWTOWN CREEK	REG #B-17			
NCB-024	DUPONT ST (REG # B-15)	40	44	8	73	57	40	18" DIA	EAST RIVER	REG #B-15			
NCB-025	FREEMAN ST (REG # B-14)	40	44	1	73	57	44	24" DIA	EAST RIVER	REG #B-14			
NCB-026	GREEN ST (REG # B-13)	40	43	58	73	57	44	2' X 2' 6"	EAST RIVER	REG #B-13			
NCB-082	SOUTH 8TH ST (REG # B-6)	40	42	36	73	58	10	36" DIA	WALLABOUT CHANNEL	REG #B-5A			
NCB-083	METROPOLITAN AVE / SCOTT AVE	40	42	50	73	55	27	11' X 10'	NEWTOWN CREEK	DB OC			
NCB-084	COMMERCIAL ST (REG # B-16)	40	44	13	73	57	35	24" DIA	NEWTOWN CREEK	REG#B-16			
NCB-088	HURON STREET (REG # B-12)	40	43	56	73	57	43	5' x 4'	EAST RIVER	REG#B-12			
NCM-005	N/O E 63RD ST (REG # M-51)	40	45	39	73	57	20	24" DIA	EAST RIVER	REG #M-51			
NCM-011	E 48TH ST (REG # M-47A)	40	45	6	73	57	53	4' X 2' 8" EGG	EAST RIVER	REG #M-47A			
NCM-016	E 46TH ST (REG # M-46)	40	45	1	73	57	57	4' X 4' FT	EAST RIVER	REG #M-46			
NCM-017	E 42ND ST (REG # M-45A)	40	44	52	73	58	4	4' X 2' 8"	EAST RIVER	REG #M-45A			
NCM-018	E 41ST ST (REG # M-45)	40	44	50	73	58	5	4' X 2' 8" FT	EAST RIVER	REG #M-45			
NCM-020	E HOUSTON ST (REG # M-31)	40	43	6	73	58	25	6' X 4' 6" FT	EAST RIVER	REG #M-31			
NCM-028	DELANCY ST (REG # M-28)	40	42	53	73	58	30	4' X 4' FT	EAST RIVER	REG #M-28			
NCM-030	E 71ST ST (REG # M-51C)	40	45	54	73	57	6	3' X 2' EGG	EAST RIVER	REG #M-51C			
NCM-031	E 70TH ST (REG # M-51B)	40	45	52	73	57	8	3' X 2' EGG	EAST RIVER	REG #M-51A, M-15B			
NCM-032	E 61ST ST (REG # M-50)	40	45	34	73	57	26	DBL 6' 6" X 5'	EAST RIVER	REG #M-50			YES
NCM-033	E 57TH ST (REG # M-49)	40	45	25	73	57	35	4' X 2' 4" FT	EAST RIVER	REG #M-49			
NCM-034	E 54TH ST (REG # M-48)	40	45	18	73	57	41	5' X 4' FT	EAST RIVER	REG #M-48			
NCM-035	E 53RD ST (REG # M-48A)	40	45	16	73	57	43	4' X 2' 4" FT	EAST RIVER	REG #M-48A			
NCM-036	E 49TH ST (REG # M-47)	40	45	7	73	57	51	54" DIA	EAST RIVER	REG #M-47			YES
NCM-037	E 41ST ST (REG # M-44)	40	44	50	73	58	6	9' X 7' FT	EAST RIVER	REG #M-44			YES
NCM-038	E 38TH ST (REG # M-43B)	40	44	43	73	58	11	5' X 4' FT	EAST RIVER	REG #M-43B			

NCM-038A	E 38TH ST (REG # M-43B)	40	44	43	73	58	12	5' X 4' FT	EAST RIVER	REG #M-43B			
NCM-039	E 37TH ST (REG # M-43A)	40	44	41	73	58	13	5' 6" X 2' 8" FT	EAST RIVER	REG #M-43A			
NCM-040	E 36TH ST (REG # M-43)	40	44	40	73	58	15	5' 6" X 2' 8" FT	EAST RIVER	REG #M-43			
NCM-041	E 33RD ST (REG # M-42)	40	44	33	73	58	18	DBL 8' X 6'	EAST RIVER	REG #M-42			YES
NCM-042	BROOME ST (REG # M-27)	40	42	49	73	58	32	4' X 4' FT	EAST RIVER	REG #M-27			
NCM-043	E 30TH ST (REG # M-41)	40	44	24	73	58	20	4' X 2' 4" FT	EAST RIVER	REG #M-41			
NCM-044	E 29TH ST (REG # M-41A)	40	44	21	73	58	21	5' 6" X 4' FT	EAST RIVER	REG #M-41A			
NCM-045	E 26TH ST (REG # M-40)	40	44	13	73	58	21	DBL 6' 6" X 6'	EAST RIVER	REG #M-40			YES
NCM-046	E 24TH ST (REG # M-39)	40	44	7	73	58	21	48" DIA	EAST RIVER	REG #M-39, M-39A			
NCM-047	E 23RD ST (REG # M-38B)	40	44	6	73	58	27	5' X 4' FT	EAST RIVER	REG #M-38B			
NCM-048	E 21ST ST (REG # M-38)	40	43	59	73	58	25	54" DIA	EAST RIVER	REG #M-38			
NCM-049	E 18TH ST (REG # M-37)	40	43	53	73	58	24	6' X 8' FT	EAST RIVER	REG #M-37			YES
NCM-051	OLD SLIP (REG # M-12)	40	42	10	74	0	27	48" DIA	EAST RIVER	REG #M-12			
NCM-052	E 14TH ST (REG # M-36)	40	43	36	73	58	17	DBL 6' X 7'	EAST RIVER	REG #M-36			YES
NCM-053	E 11TH ST (REG # M-35)	40	43	27	73	58	19	5' X 8' 9" FT	EAST RIVER	REG #M-35			
NCM-054	E 8TH ST (REG # M-34)	40	43	21	73	58	21	6' 6" X 5' FT	EAST RIVER	REG #M-34			
NCM-055	E 6TH ST (REG # M-33)	40	43	16	73	58	22	5' 6" X 4' FT	EAST RIVER	REG #M-33			
NCM-056	E 3RD ST (REG # M-32)	40	43	7	73	58	24	6' 6" X 6' FT	EAST RIVER	REG #M-32			
NCM-057	STANTON ST (REG # M-30)	40	43	2	73	58	26	5' 6" X 5' FT	EAST RIVER	REG #M-30			
NCM-058	IRVINGTON ST (REG # M-29)	40	42	57	73	58	28	5' 6" X 5' FT	EAST RIVER	REG #M-29			
NCM-059	50' S/O GRAND ST (REG # M-26)	40	42	45	73	58	34	6' X 3' FT	EAST RIVER	REG #M-26			
NCM-060	S/O CORLEARS HOOK PARK (REG # M-25)	40	42	37	73	58	41	5' X 4' FT	EAST RIVER	REG #M-25			
NCM-061	JACKSON ST (REG # M-23)	40	42	37	73	58	49	4' X 3' EGG	EAST RIVER	REG #M-23			
NCM-062	GOVERNEUR SLIP E (REG # M-22)	40	42	34	73	58	58	48" DIA	EAST RIVER	REG #M-22			
NCM-063	JEFFERSON ST (NORTH SIDE) (REG # M-21)	40	42	32	73	59	17	48" DIA	EAST RIVER	REG #M-21			YES
NCM-064	MARKET SLIP (REG # M -20)	40	42	33	73	59	37	54" DIA	EAST RIVER	REG #M-20			
NCM-065	S/O CATHERINE ST (REG # M-18)	40	42	32	73	59	46	4' 6" X 4' FT	EAST RIVER	REG #M-18			
NCM-066	ROBERT F WAGNER PLACE (REG # M -17)	40	42	29	73	59	55	48" DIA	EAST RIVER	REG #M-17			
NCM-067	MAIDEN LANE (REG # M -13A)	40	42	17	74	0	15	6' X 6' FT	EAST RIVER	REG #M-13			
NCM-068	COENTIES SLIP (REG # M -11)	40	42	6	74	0	33	4' 6" X 3' 8"	EAST RIVER	REG #M-11			
NCM-069	BROAD ST (REG # M-10)	40	42	5	74	0	39	5' X 4' FT	EAST RIVER	REG #M-10			YES
NCM-070	BATTERY PLACE (S/O PIER - A) (REG # M-9)	40	42	15	74	1	3	84" DIA	HUDSON RIVER	REG #M-9			
NCM-071	RECTOR ST (REG # M-6, M-7)	40	42	34	74	1	6	96" DIA	HUDSON RIVER	REG #M-6, M-7			
NCM-072	VESEY ST (REG # M-5)	40	42	54	74	1	2	96" DIA	HUDSON RIVER	REG #M-5			
NCM-073	DUANE ST (REG # M-4)	40	43	6	74	1	0	54" DIA	HUDSON RIVER	REG #M-4			
NCM-074	VESTRY ST (REG # M-3)	40	43	22	74	0	44	5' X 3' 8"	HUDSON RIVER	REG #M-3			
NCM-075	N/O WATTS ST (REG # M-2)	40	43	29	74	0	42	66" DIA	HUDSON RIVER	REG #M-2			YES
NCM-076	CLARKSON ST (REG # 1)	40	43	48	74	0	50	12' X 6' 3" FT	HUDSON RIVER	REG #M-1			YES
NCM-078	N/O DOVER ST (REG # M -16)	40	42	27	73	59	58	12' X 6'	EAST RIVER	REG #M-16			YES
NCM-080	N/O VANDAM ST (REG # TG-2)	40	43	37	74	0	41	48" DIA	HUDSON RIVER	REG #TG-2			
NCM-081	S/O CHARLES ST (REG # TG-1)	40	44	0	74	0	38	5' X 4'	HUDSON RIVER	REG #TG-1			
NCM-087	E 22ND ST (REG # M-38A)	40	44	3	73	58	27	5' X 3' 6" FT	EAST RIVER	REG #M-38A			
NCQ-029	43RD ST (REG # Q-2)	40	43	35	73	55	38	66" DIA	NEWTOWN CREEK	REG #Q-2			
NCQ-077	49TH ST (REG # Q-1)	40	43	25	73	55	13	DBL 11' X 7'	MASPETH CREEK	REG #Q-1	YES		

OUTFALL ID	OUTFALL LOCATION	LATITUDE			LONGITUDE			OUTFALL SIZE	RECEIVING WATER
		DEG	MIN	SEC	DEG	MIN	SEC		
NCB-629	SCHOLES ST	40	42	38	73	55	51	60" DIA	ENGLISH KILLS
NCB-630	MEEKER ST & GARDNER AVE	40	43	41	73	55	56	DBL 16" DIA	NEWTOWN CREEK
NCB-631	N/O HENRY ST	40	44	10	73	56	39	90" DIA	NEWTOWN CREEK
NCB-635	10' S/O GRAND ST BRIDGE	40	42	51	73	55	51	42" DIA	ENGLISH KILLS
NCB-636	5' N/O GRAND ST BRIDGE	40	42	51	73	55	53	60" DIA	ENGLISH KILLS
NCB-638	GARDENER AVE	40	43	3	73	55	40	54" DIA	ENGLISH KILLS
NCB-639	MASPETH AVE & NEWTOWN CREEK	40	43	11	73	55	28	22" DIA	NEWTOWN CREEK
NCB-322	McGUINNESS BOULEVARD	40	44	20	73	57	10	6" DIA	NEWTOWN CREEK AND TIDAL TRIBS
NCB-434	N HENRY STREET	40	44	8	73	56	43	12" DIA	NEWTOWN CREEK AND TIDAL TRIBS

NCB-468	50' N/O WILLIAMSBURG BRIDGE	40	42	46	73	58	7	12" DIA	EAST RIVER, LOWER
NCB-469	WILLIAMSBURG BRIDGE	40	42	45	73	58	8	12" DIA	EAST RIVER, LOWER
NCB-470	100' N/O SOUTH 6TH STREET	40	42	44	73	58	8	12" DIA	EAST RIVER, LOWER
NCB-520	SCHOLES STREET	40	42	38	73	55	52	24" DIA	NEWTOWN CREEK AND TIDAL TRIBS
NCM-628	RECTOR PLACE	40	42	34	74	1	6	54" DIA	HUDSON RIVER
NCM-634	FIRST PLACE	40	42	24	74	1	9	54" DIA	HUDSON RIVER
NCM-640	E 15TH STREET (CO ED-NORTH)	40	43	39	73	58	17	42" DIA	EAST RIVER
NCM-641	E 16TH STREET	40	43	42	73	58	17	5' 6" X 4'	EAST RIVER
NCB-642	HURON STREET, DEAD END	40	43	56	73	57	43	5' X 4' FT	EAST RIVER
NCQ-632	GRAND AVE	40	43	35	73	55	38	54" DIA	NEWTOWN CREEK
NCQ-633	300' N/O GRAND AVE BRIDGE	40	43	25	73	55	13	60" DIA	NEWTOWN CREEK
NCQ-637	LAUREL HILL BLVD & REVIEW AVE	40	42	59	73	55	20	72" DIA	NEWTOWN CREEK

NORTH RIVER

OUTFALL ID	OUTFALL LOCATION	LATITUDE			LONGITUDE			OUTFALL SIZE	RECEIVING WATER	CONTRIBUTORS	BOOM	NET	TELEMETRY
		DEG	MIN	SEC	DEG	MIN	SEC						
NR-001	NORTH RIVER WRRF OUTFALL	40	49	31	73	57	30	96" DIA	HUDSON RIVER				
NR-002	W 152ND ST (REG # N-20, 21, 21A, 21B)	40	49	57	73	57	4	60" DIA	HUDSON RIVER	REG #N-20, N-21, N-21A, N-21B			
NR-003	W 158TH ST (REG # N-19)	40	50	12	73	56	57	48" DIA	HUDSON RIVER	REG #N-19			
NR-004	W 171ST ST (REG # N-18)	40	50	45	73	56	47	6' X 10' 6" FT	HUDSON RIVER	REG #N-18			YES
NR-005	W 190TH ST (REG # N-17)	40	51	27	73	56	21	18" DIA	HUDSON RIVER	REG #N-17			
NR-006	DYCKMAN ST (REG # N-16)	40	52	9	73	55	56	DBL 7' 0" X 5' 0"	HUDSON RIVER	REG #N-16			YES
NR-007	W 218TH ST (REG # N-15)	40	52	29	73	55	8	4' 0" X 2' 4" FT	SPUYTEN DUYVIL CREEK	REG #N-15			
NR-008	W 216TH ST (REG # N-14)	40	52	7	73	54	40	5' X 4' EGG	HARLEM RIVER	REG #N-14			
NR-009	W 215TH ST (REG # N-13)	40	52	5	73	54	42	3' 6" X 2' 4" EGG	HARLEM RIVER	REG #N-13			
NR-010	W 211TH ST (REG # N-10, N-11, N-12)	40	51	55	73	54	47	54" DIA	HARLEM RIVER	REG #N-10, N-11, N-12			
NR-011	W 209TH ST (REG # N-9)	40	51	52	73	54	53	24" DIA	HARLEM RIVER	REG #N-9			
NR-012	W 207TH ST (SOUTH SIDE) (REG # N-7)	40	51	46	73	54	56	36" DIA	HARLEM RIVER	REG #N-7			
NR-013	W 206TH ST (REG # N-6)	40	51	44	73	54	58	3' 6" X 2' 4" EGG	HARLEM RIVER	REG #N-6			
NR-014	W 205TH ST (REG # N-5)	40	51	42	73	55	1	48" DIA	HARLEM RIVER	REG #N-5			
NR-016	W 203RD ST (REG # N-4)	40	51	38	73	55	4	3' 6" X 2' 4" EGG	HARLEM RIVER	REG #N-4			
NR-017	W 201ST ST (REG # N-3)	40	51	34	73	55	7	6' X 4' FT	HARLEM RIVER	REG #N-3			YES
NR-018	HIGHBRIDGE PARK (REG # N-1)	40	51	25	73	55	17	48" DIA	HARLEM RIVER	REG #N-1			
NR-019	BANK ST (REG # N-56)	40	44	10	74	0	38	48" DIA	HUDSON RIVER	REG #N-56			
NR-020	JANE ST (REG # N-55)	40	44	17	74	0	39	48" DIA	HUDSON RIVER	REG #N-55			
NR-021	GANSEVOORT ST (REG # N-54)	40	44	21	74	0	40	48" DIA	HUDSON RIVER	REG #N-54			
NR-022	S/O W 17TH ST (REG # N-51)	40	44	40	74	0	31	54" DIA	HUDSON RIVER	REG #N-51			
NR-023	W 18TH ST (REG # 50)	40	44	45	74	0	41	5' 0" X 4' 6"	HUDSON RIVER	REG #N-50			YES
NR-024	W 21ST ST (REG # N-48, N-49)	40	44	52	74	0	40	48" DIA	HUDSON RIVER	REG #N-48, N-49			
NR-025	W 24TH ST (REG # N-47)	40	45	2	74	0	39	42" DIA	HUDSON RIVER	REG #N-47			
NR-026	W 26TH ST (REG# N-46)	40	45	8	74	0	33	DBL 4' X 3'	HUDSON RIVER	REG #N-46			
NR-027	W 30TH ST (REG # N-45)	40	45	17	74	0	26	11' X 6'	HUDSON RIVER	REG #N-45			YES
NR-028	W 36TH ST (REG # N-43)	40	45	34	74	0	24	48" DIA	HUDSON RIVER	REG #N-43			
NR-029	W 40TH ST (REG # N-42)	40	45	39	74	0	9	30" DIA	HUDSON RIVER	REG #N-42			
NR-030	W 43RD ST (REG # N-39 & N-40)	40	45	49	74	0	13	54" DIA	HUDSON RIVER	REG #N-39, N-40			
NR-031	W 44TH ST (REG # N-38)	40	45	49	74	0	3	54" DIA	HUDSON RIVER	REG #N-38			
NR-032	W 46TH ST (REG # N-36)	40	45	56	74	0	7	48" DIA	HUDSON RIVER	REG #N-36, N-37			
NR-033	N/O W 48TH ST (REG # N-34, N-33)	40	45	57	73	59	52	4' X 2' 8" FT	HUDSON RIVER	REG #N-33, N-34			YES (ON N-33)
NR-034	W 50TH ST (REG # N-32)	40	46	6	74	0	4	4' X 4' FT	HUDSON RIVER	REG #N-32			
NR-035	W 56TH ST (REG # N-31)	40	46	16	73	59	43	6' X 4' 6" FT	HUDSON RIVER	REG #N-31			
NR-036	W 59TH ST (REG # N-30)	40	46	26	73	59	45	48" DIA	HUDSON RIVER	REG #N-30			
NR-037	N/O W 72ND ST (REG # N-29)	40	46	53	73	59	16	60" DIA	HUDSON RIVER	REG #N-29			
NR-038	W 80TH ST (REG # N-28)	40	47	11	73	59	4	10' 6" X 6' 0" FT	HUDSON RIVER	REG #N-28			YES
NR-039	W 91ST ST (REG # N-27)	40	47	37	73	58	46	48" DIA	HUDSON RIVER	REG #N-27			

NR-040	W 96TH ST (REG # N-26, 26A)	40	47	49	73	58	38	10' X 6' FT	HUDSON RIVER	REG #N-26, N-26A			YES (ON N-26)
NR-041	W 108TH ST (REG # N-25)	40	48	16	73	58	18	4' 0" X 4' 0"	HUDSON RIVER	REG #N-25			
NR-042	W 115TH ST (REG # N-24)	40	48	32	73	58	6	4' 6" X 4' 0"	HUDSON RIVER	REG #N-24			
NR-043	SAINT CLAIRS PLACE (REG # N-23)	40	49	5	73	57	43	DBL 8' 8" X 7'	HUDSON RIVER	REG #N-23			YES
NR-044	W 138TH ST (REG # N-22)	40	49	25	73	57	34	42" DIA	HUDSON RIVER	REG #N-22			
NR-045	ACADEMY ST (REG # N-2)	40	51	36	73	55	16	DBL 6' X 7'	HARLEM RIVER	REG #N-2			
NR-046	W 66TH ST (REG # N-29A)	40	46	39	73	59	27	10' 8" X 6' 10"	HUDSON RIVER	REG #N-29A			YES
NR-047	W 47TH ST	40	45	54	73	59	54	4' X 2' 8" FT	HUDSON RIVER	REG #N-35			
NR-048	W 42ND ST (REG # N-40 & N-41)	40	45	43	74	0	6	DBL 8' 0" X 2' 0"	HUDSON RIVER	REG #N-40, N-41			
NR-049	W 14TH ST (REG # N-52)	40	44	33	74	0	32	6' X 4' FT	HUDSON RIVER	REG #N-52			
NR-050	BLOOMFIELD ST (REG # N-53)	40	44	26	74	0	40	3' 6" X 2' 4" EGG	HUDSON RIVER	REG #N-53			
NR-051	W 49TH ST (CSO)	40	45	59	73	59	51	DBL 12' 0" X 6' 0"	HUDSON RIVER	N/A			
NR-052	N/O W 33RD ST (REG # N-44)	40	45	24	74	0	21	4' 9" X 4' 6" FT	HUDSON RIVER	REG #N-44			
NR-055	W 207TH ST (NORTH SIDE) (REG # N-8)	40	51	47	73	54	55	36" DIA	HARLEM RIVER	REG #N-7, N-8			
NR-056	W 142ND ST (REG # N-22A)	40	49	32	73	57	18	5' X 4'	HUDSON RIVER	REG #N-22A			

OAKWOOD BEACH

OUTFALL ID	OUTFALL LOCATION	LATITUDE			LONGITUDE			OUTFALL SIZE	RECEIVING WATER	CONTRIBUTORS	BOOM	NET	TELEMETRY
		DEG	MIN	SEC	DEG	MIN	SEC						
OB-001	OAKWOOD BEACH WRRF OUTFALL	40	32	51	74	6	45	96" DIA	LOWER NEW YORK BAY				
OB-001A	OAKWOOD BEACH WRRF PLANT BYPASS	40	32	57	74	6	52	60" DIA	LOWER NEW YORK BAY	PLANT BYPASS			

OUTFALL ID	OUTFALL LOCATION	LATITUDE			LONGITUDE			OUTFALL SIZE	RECEIVING WATER
		DEG	MIN	SEC	DEG	MIN	SEC		
OB-605	450' N/O RICHMOND ROAD BRIDGE	40	34	19	74	8	51	5' X 3' 2"	RICHMOND CREEK
OB-607	SEAVIEW AVE	40	34	40	74	4	30	DBL 15' X 6'	LOWER NEW YORK BAY
OB-609	EBBITTS ST	40	33	32	74	5	57	10' X 5'	LOWER NEW YORK BAY
OB-610	TYSENS LANE	40	33	20	74	6	5	11' X 8'	LOWER NEW YORK BAY
OB-612	200' S/O FAIRLAWN AVE	40	32	45	74	8	16	42" DIA	GREAT KILLS HARBOR
OB-613	S/O WIMAN AVE	40	32	13	74	8	37	60" DIA	RARITAN BAY
OB-614	ARMSTRONG AVE	40	32	7	74	8	45	9' X 4' 6"	RARITAN BAY
OB-615	WOODS OF ARDEN ROAD	40	31	44	74	9	24	48" DIA	RARITAN BAY
OB-618	S/O ELMTREE AVE	40	33	59	74	5	28	3' X 2'7"	LOWER NEW YORK BAY
OB-619	N/O NEW DORP LANE	40	33	45	74	5	38	13' X 5' 6"	LOWER NEW YORK BAY
OB-622	HOLDRIDGE PLACE	40	31	35	74	9	49	48" DIA	RARITAN BAY
OB-623	150' N/O ARBUTUS AVE	40	31	34	74	10	44	6' 6" X 6'	RARITAN BAY
OB-625	HUGUENOT AVE	40	31	11	74	10	59	42" DIA	RARITAN BAY
OB-627	BEDELL AVE	40	30	6	74	13	52	36" DIA	RARITAN BAY
OB-628	S. GOFF & STATEN ISLAND RAILROAD	40	31	21	74	12	42	18" DIA	LEMON CREEK
OB-629	STATEN ISLAND RAILROAD & W/O SHARROTT AVE	40	31	21	74	12	48	5' 8" X 3' 7"	LEMON CREEK
OB-630	STATEN ISLAND RAILROAD & W/O WOODVALE AVE	40	31	27	74	12	35	4' X 2' FT	LEMON CREEK
OB-631	15 HASTINGS COURT	40	31	26	74	12	24	48" DIA	AR-10 DEC WETLAND
OB-633	EAST DRUMGOOLE ROAD & ADDISON AVE	40	31	58	74	11	56	66" DIA	LEMON CREEK
OB-635	MAGUIRE AVE & FONDA PLACE	40	31	42	74	12	38	50" DIA	LEMON CREEK
OB-636	PAGE AVE & STATEN ISLAND RAILROAD	40	31	7	74	14	4	42" DIA	MILL CREEK
OB-638	BOSCOMBE AVE & E/O WEST SHORE EXPRESSWAY	40	31	28	74	13	35	42" DIA	MILL CREEK
OB-639	BOSCOMBE AVE & E/O WEST SHORE EXPRESSWAY	40	31	27	74	13	35	18" DIA	MILL CREEK
OB-641	ARTHUR KILL ROAD & PARK DRIVE SOUTH	40	33	50	74	10	38	48" DIA	RICHMOND CREEK
OB-642	RICHMOND AVE & N/O ARTHUR KILL ROAD	40	33	42	74	10	10	72" DIA	RICHMOND CREEK
OB-643	RICHMOND AVE & N/O ARTHUR KILL ROAD	40	33	42	74	10	10	8' X 7'	RICHMOND CREEK
OB-644	ARTHUR KILL ROAD & E/O RIDGEWOOD AVE	40	33	37	74	9	58	3'9" X 2'5"	RICHMOND CREEK
OB-645	ABINGDON AVE & N/O ARTHUR KILL ROAD	40	33	55	74	9	50	3BL 16' X 6'6"	RICHMOND CREEK

OB-645A	GREAVES AVE & ISLINGTON ST	40	33	42	74	9	1	24" DIA	AR-38 DEC WETLAND
OB-646	ARTHUR KILL ROAD & S/O TANGLEWOOD DRIVE	40	34	3	74	9	7	6' 6" X 3'	RICHMOND CREEK
OB-647	RICHMOND AVE & RICHMOND HILL ROAD	40	35	24	74	10	6	16' X 6'	SPRINGVILLE CREEK
OB-648	RICHMOND AVE & RICHMOND HILL ROAD	40	35	21	74	10	3	42" DIA	SPRINGVILLE CREEK
OB-649	RICHMOND AVE & RICHMOND HILL ROAD	40	35	21	74	10	3	5' X 3'2"	SPRINGVILLE CREEK
OB-650	RICHMOND AVE & W/O RICHMOND HILL ROAD	40	35	22	74	10	5	30" DIA	SPRINGVILLE CREEK
OB-652	RICHMOND AVE & NOME AVE	40	35	26	74	9	57	6'11" X 4'5"	SPRINGVILLE CREEK
OB-653	TRAVIS AVE & DRAPER AVE	40	35	35	74	9	50	8'10" X 5'8"	SPRINGVILLE CREEK
OB-654	TRAVIS AVE & FREEDOM AVE	40	35	36	74	9	53	36" DIA	SPRINGVILLE CREEK
OB-655	TRAVIS AVE & W/O MULBERRY AVE	40	35	38	74	10	9	42" DIA	MARSH
OB-656	CLEVELAND AVE	40	32	32	74	8	32	9' X 5' 6"	GREAT KILLS HARBOR
OB-657	POILLON AVE	40	31	21	74	10	24	36" DIA	RARITAN BAY
OB-660	ROSSVILLE AVE	40	33	21	74	12	47	4' 8" X 2'	ARTHUR KILL
OB-661	ARTHUR KILL ROAD & HERVEY ST	40	33	12	74	13	4	9' 6" X 6'	ARTHUR KILL
OB-662	HUGUENOT AVE	40	33	22	74	12	11	DBL 8'10" X 6'	ARTHUR KILL
OB-663	SHARON LANE & W/O HELENE COURT	40	32	9	74	12	55	36" DIA	LEMON CREEK
OB-664	INDEPENDENCE AVE & N/O FOREST HILL ROAD	40	34	16	74	10	6	78" DIA	RICHMOND CREEK
OB-666	LUTEN AVE & EYLANDT ST & JANSEN ST	40	31	32	74	11	26	48" DIA	LEMON CREEK
OB-668	CINDRA AVE	40	32	23	74	8	33	4' X 1' 6"	GREAT KILLS HARBOR
OB-669	RICHMOND AVE	40	31	57	74	9	4	4' X 3'	RARITAN BAY
OB-670	ARDEN AVE	40	31	38	74	9	35	48" DIA	RARITAN BAY
OB-671	ARBUTUS AVE	40	31	35	74	10	49	60" DIA	RARITAN BAY
OB-672	W/O SHARROTT AVE	40	30	38	74	12	42	4' X 3' 6" EGG	MARSH
OB-673	JOLINE AVE	40	30	4	74	13	59	5' X 3'	RARITAN BAY
OB-674	SPRAGUE AVE	40	30	0	74	14	10	36" DIA	RARITAN BAY
OB-675	LORETTO AVE	40	29	57	74	14	16	13' 6" X 5'	RARITAN BAY
OB-676	TRACY AVE	40	30	56	74	14	43	4' X 3'	ARTHUR KILL
OB-677	NASSAU PLACE	40	31	9	74	14	25	36" DIA	ARTHUR KILL
OB-678	SAND LANE	40	35	17	74	3	51	10' X 6'	LOWER NEW YORK BAY
OB-679	ATLANTIC AVE	40	34	53	74	4	14	DBL 10' X 6' 6"	LOWER NEW YORK BAY
OB-680	GREELEY AVE	40	34	1	74	5	21	DBL 15' X 6' 3"	LOWER NEW YORK BAY
OB-682	SEGUINE AVE	40	30	46	74	11	48	36" DIA	LEMON CREEK
OB-685	850' E/O ARTHUR KILL ROAD & PAGE AVE	40	31	47	74	13	35	48" DIA	MILL CREEK
OB-686	MAIN ST	40	30	50	74	15	6	30" DIA	ARTHUR KILL
OB-687	QUINTARD ST	40	35	17	74	4	29	10' X 6'	MARSH
OB-688	NAUGHTON AVE	40	34	30	74	4	43	DBL 10' X 6' 6"	LOWER NEW YORK BAY
OB-688A	NAUGHTON AVE	40	35	8	74	5	51	42" DIA	LAST CHANCE POND PARK MARSH
OB-689	MIDLAND AVE	40	34	6	74	5	10	8' 6" X 5'	LOWER NEW YORK BAY
OB-690	ARTHUR KILL & PAGE AVE	40	31	36	74	14	10	24" DIA	ARTHUR KILL
OB-691	MILL POND	40	34	20	74	8	36	3' X 2'6"	RICHMOND CREEK
OB-691A	RICHMOND HILL RD & MACE ST	40	34	21	74	8	40	6'0" x 2'6"	RICHMOND CREEK
OB-692	ST. ANDREWS ROAD	40	34	24	74	8	32	4' X 2'	RICHMOND CREEK
OB-693	LIGHTHOUSE AVE	40	34	25	74	8	29	18" DIA	RICHMOND CREEK
OB-694	MACE ST & LIGHTHOUSE AVE	40	34	24	74	8	23	24" DIA	RICHMOND CREEK
OB-695	ST. GEORGES ROAD	40	34	32	74	8	0	4' X 2'	RICHMOND CREEK
OB-696	BOYLE PLACE / NUGENT ST	40	34	35	74	7	59	5' X 3'	RICHMOND CREEK
OB-697	MEISNER AVE & LIGHTHOUSE AVE	40	34	57	74	7	50	36" DIA	RICHMOND CREEK
OB-698	BOOTH AVE	40	32	10	74	10	33	5' X 3'2"	BLUE HERON
OB-699	EYLANDT ST	40	31	58	74	10	23	5'8" X 3'7"	BLUE HERON
OB-700	KOCH POND	40	32	1	74	10	4	3'9" X 2'5"	BLUE HERON
OB-701	SHIRLEY AVE	40	31	47	74	10	15	4'5" X 2'10"	BLUE HERON
OB-702	NEWTON ST	40	31	41	74	10	20	3'9" X 2'5"	BLUE HERON

OB-703	DOLE ST	40	31	39	74	10	17	18" DIA	BLUE HERON
OB-704	POILLON AVE	40	31	45	74	10	33	30" DIA	BLUE HERON
OB-705	BENNETT POND	40	32	7	74	11	14	3'9" X 2'6"	ARBUTUS CREEK
OB-706	PHILIP AVE	40	32	1	74	10	50	3'9" X 2'5"	ARBUTUS CREEK
OB-707	HUGUENOT POND	40	31	50	74	11	24	3'9" X 2'5"	ARBUTUS CREEK
OB-708	ANDROVETTE POND	40	31	34	74	11	22	4' X 2'8"	ARBUTUS CREEK
OB-709	LUTEN POND	40	31	29	74	11	19	6'4" X 4"	MARSH
OB-710	SALA COURT	40	31	55	74	11	10	3'2" X 2'	ARBUTUS CREEK
OB-711	RUGGLES ST	40	32	0	74	10	58	18" DIA	MARSH
OB-712	CONVENT AVE	40	32	24	74	12	47	6'11" X 4'5"	LEMON CREEK
OB-713	EDGEGROVE AVE	40	32	0	74	12	27	4' X 2'	LEMON CREEK
OB-714	DARLINGTON AVE	40	31	58	74	12	26	3' 2" X 2'	LEMON CREEK
OB-715	MAGUIRE AVE	40	31	55	74	12	39	4' X 2'	LEMON CREEK
OB-716	FOSTER ROAD	40	31	38	74	12	6	5' X 3' 2"	LEMON CREEK
OB-717	AMBOY ROAD	40	31	30	74	12	33	4'5" X 2'10"	LEMON CREEK
OB-718	BAYVIEW AVE	40	31	11	74	12	15	5' X 2'6"	LEMON CREEK
OB-719	BAYVIEW AVE	40	31	17	74	12	16	4' X 4'	LEMON CREEK
OB-720	KOREAN WAR VETERANS MEMORIAL PARKWAY	40	32	1	74	11	57	60" DIA	WOLFE'S POND
OB-721	CHISHOLM AVE	40	31	33	74	11	35	8'10" X 5'8" EGG	WOLFE'S POND
OB-722	CLERMONT AVE / FINLAY ST	40	30	2	74	14	52	DBL 7'3" X 3'6"	RARITAN BAY
OB-723	HOPKINS AVE	40	33	20	74	7	43	36" DIA	GREAT KILLS HARBOR
OB-724	BAY TERRACE	40	33	7	74	7	58	66" DIA	GREAT KILLS HARBOR
OB-725	CLARK AVE & ARUTHUR KILL RD	40	34	15	74	8	52	7' 3" X 3' 6"	MARSH
OB-726	REDGRAVE AVE	40	33	3	74	8	3	24" DIA	GREAT KILLS
OB-727	NE/O AINSWORTH AVE	40	33	1	74	8	8	36" DIA	GREAT KILLS
OB-728	VETERANS RD W AND TYRELLAN AVE	40	31	39	74	13	33	15"	MARSH
OB-729	BILLIOU ST AND STECHER ST	40	31	55	74	11	13	90" X 42"	POND
OB-730	ITHACA ST AND HYLAN BLVD	40	33	33	74	7	16	42"	STREAM WIDER THAN 8 FEET
OB-731	HYLAN BLVD AND BUFFALO ST	40	33	23	74	7	38	42"	MARSH
OB-732	STOBE AVE AND ZOE ST	40	35	3	74	6	0	72" X 48"	RIVER
OB-733	MASON AV & BEDFORD AVE	40	34	34	74	5	46	10' X 3'	Stream wider than 8 feet
OB-734	N/O Patten Street	40	30	36	74	15	11	12"" DIA	ARTHUR KILL
OB-735	SOUTH BRIDGE STREET	40	31	27	74	14	21	36"" DIA	ARTHUR KILL
OB-736	HYLAN BOULEVARD & BERMUDA PLACE	40	34	56	74	5	48	24"" DIA	River Stream
OB-737	HYLAN BOULEVARD & BERMUDA PLACE	40	34	56	74	5	49	24"" DIA	Pond
OB-738	PURDY PLACE	40	30	45	74	11	38	5' X 3'	LEMON CREEK
OB-739	AMBOY ROAD	40	31	10	74	13	42	12"" DIA	MARSH
OB-740	HYLAN BLVD & BUFFALO STREET	40	33	23	74	7	38	20" DIA	GREAT KILLS HARBOR
OB-741	AULTMAN AVE & ST GEORGE RD	40	34	30	74	8	12	18" DIA	LIGHTHOUSE HILL STREAM
OB-742	SIGNS ROAD	40	36	9	74	10	17	36""DIA	MARSH
OB-743	NUGENT STREET	40	34	37	74	7	54	3.5' X 3'	Stream wider than 8 feet
OB-744	LINCOLN AVENUE	40	34	32	74	6	4	60""DIA	Stream wider than 8 feet
OB-745	AMBOY ROAD	40	31	16	74	13	3	24""DIA	MARSH
OB-746	OCEANIC AVENUE	40	31	58	74	9	2	20""DIA	RARITAN BAY
OB-747	GRANTWOOD AVENUE	40	33	17	74	10	58	48""DIA	MARSH
OB-748	HUGUENOT AVENUE	40	31	30	74	11	12	15""DIA	MARSH
OB-749	IONIA AVENUE	40	32	30	74	10	59	4.5' X 11'	Stream wider than 8 feet
OB-750	KINGDOM AVENUE	40	31	35	74	11	8	24""DIA	MARSH
OB-751	COLON STREET	40	31	50	74	11	10	20""DIA	Stream wider than 8 feet
OB-752	SHOTWELL AVE	40	33	17	74	10	55	42" DIA	ARDEN HEIGHTS WOODS MARSH
OB-753	LIPSETT AVENUE	40	32	4	74	10	26	30""DIA	MARSH
OB-754	EDGEGROVE AVENUE	40	32	29	74	10	56	4.5' X 11'	Stream wider than 8 feet

OB-755	CARLTON BOULEVARD & JEFFERSON BOULEVARD	40	32	34	74	10	46	20""DIA	Stream wider than 8 feet
OB-756	WOODROW ROAD & SHOTWELL AVENUE	40	33	20	74	10	55	20""DIA	MARSH
OB-757	SHELDON AVENUE	40	32	36	74	11	16	7.6' X 5.8'	MARSH
OB-758	FINGAL STREET	40	32	11	74	10	20	20""DIA	MARSH
OB-759	ARDEN AVENUE & SNEDEN AVE	40	32	29	74	10	15	20""DIA	Pond
OB-760	ARDEN AVENUE & SNEDEN AVE	40	32	29	74	10	15	2.5' X 1.6'	Pond
OB-761	LACONIA AVENUE	40	34	52	74	5	39	12"" DIA	River Stream
OB-762	MASON AVENUE	40	34	47	74	5	34	42"" DIA	River Stream
OB-764	GRAHAM BOULEVARD	40	34	31	74	5	9	45"" DIA	River Stream
OB-765	MILL CREEK	40	31	15	74	13	19	5' x 3'	MILL CREEK
OB-766	ARDEN AVE	40	32	46	74	10	47	48" DIA	ANNADALE STREAM
OB-767	ARDEN AVE	40	32	46	74	10	47	48" DIA	ANNADALE STREAM
OB-768	ARDEN AVE	40	32	48	74	10	42	12" DIA	ANNADALE STREAM
OB-769	GRANTWOOD AVE	40	32	53	74	10	33	36" DIA	ANNADALE STREAM
OB-770	GRANTWOOD AVE	40	32	53	74	10	32	24" DIA	ANNADALE STREAM
OB-771	ARTHUR KILL ROAD	40	34	20	74	8	48	18" DIA	LATOURETTE PARK RIVER
OB-772	SHADYSIDE AVE & WOODVALE AVE	40	31	17	74	12	29	10" DIA	LEMON CREEK MARSH
OB-773	BAYVIEW AVENUE	40	31	18	74	12	17	4' X 4'	LEMON CREEK
OB-774	GOFF AVE	40	31	40	74	12	46	38" x 24"	MARSH
OB-775	BALSAM PL & GERVIL ST	40	32	54	74	12	45	48" DIA	WOODBROOKE ESTATES COMMUNITY PARK STREAM
OB-776	MAGUIRE AVE & MC BAINE AVE	40	32	35	74	12	42	6.3' x 2'	ROSSVILLE POND
OB-777	HUGUENOT AVE & ARTHUR KILL RD	40	33	20	74	12	10	6.3' x 4'	ARTHUR KILL STREAM
OB-778	LEMON CREEK PARK	40	31	6	74	11	57	4'2" x 2'	LEMON CREEK MARSH
OB-779	BMP LC-15 (Lemon Creek)	40	31	22	74	12	4	30" DIA	LEMON CREEK MARSH
OB-780	BMP LC-17 (Lemon Creek)	40	31	22	74	12	0	4' X 3'	LEMON CREEK MARSH
OB-781	BMP LC-18 (Lemon Creek)	40	31	12	74	12	0	4'2" x 2'	LEMON CREEK MARSH
OB-782	FOREST HILL RD & YUKON AVE	40	34	26	74	9	49	18" DIA	LATOURETTE PARK STREAM
OB-783	ROBERTS DRIVE	40	33	32	74	6	41	30" DIA	GREAT KILLS PARK MARSH
OB-784	HYLAN BLVD	40	31	25	74	11	15	15" DIA	WOLFE'S POND PARK MARSH
OB-785	LUTEN AVE	40	31	26	74	11	21	3.75' x 2.4'	WOLFE'S POND PARK MARSH
OB-786	BARCLAY AVE & SANDBORN ST	40	31	59	74	10	17	12" DIA	BLUE HERON PARK POND
OB-787	KRAMER AVE AND MAGUIRE AVE	40	32	33	74	12	44	24" DIA	POND
OB-788	RICHMOND RD & INDEPENDENCE AVE	40	34	25	74	10	13	24" DIA	MARSH
OB-789	RICHMOND RD & FOREST HILL RD	40	34	17	74	10	13	24" DIA	MARSH
OB-790	ROSSVILLE AVE	40	32	35	74	12	31	8" DIA	AR105 DEC WETLAND
OB-791	MERRICK AVE DEAD END	40	36	6	74	6	29	24" DIA	Reed's Basket Willow Swamp Park
OB-792	OLYMPIA BLVD & BUEL AVE	40	34	52	74	5	8	36" DIA	NA-9 DEC WETLAND
OB-793	ITHACA ST & HYLAN BLVD	40	33	33	74	7	17	42" DIA	NA-10 DEC WETLAND
OB-794	LOUISE ST	40	31	41	74	10	56	45" x 29"	AR-12 DEC WETLAND
OB-795	PLATINUM AVE & RICHMOND AVE	40	34	47	74	10	11	34" x 53"	FRESH KILLS MARSH
OB-796	160' NW/O ARTHUR KILL RD AND ERIKA LOOP	40	33	53	74	11	9	48" DIA	FRESH KILLS MARSH
OB-797	KYLE CT & ARDEN AVE	40	33	29	74	11	48	12" DIA	AR-5 DEC WETLAND
OB-798	ARDEN AV (200' NW/O HALPIN AV)	40	33	4	74	11	21	36"DIA	AR-5 DEC WETLAND
OB-799	FAIRLAWN AVE	40	32	49	74	8	13	24" DIA	GREAT KILLS HARBOR
OB-1600	BROOK AVE (120' NE/O FARIBANKS AVE)	40	33	23	74	7	19	36" DIA	NA-10 DEC WETLAND
OB-1601	WOODROW RD (300' SW/O ERIKA LOOP)	40	33	21	74	10	58	24" DIA	AR-5 DEC WETLAND
OB-1602	PEMBROOK LOOP	40	32	6	74	13	12	36" DIA	AR-10 DEC WETLAND
OB-1603	ALVERSON AVE & POND ST	40	33	9	74	12	35	24" x 38"	POND
OB-1604	SHARON LANE	40	32	9	74	12	53	36" DIA	AR-10 DEC WETLAND
OB-1605	IONIA AVE	40	32	43	74	10	50	120" x 30"	AR-28 DEC WETLAND
OB-1606	ALVERSON AVE & AARON LANE	40	33	18	74	12	39	12" DIA	Arthur Kill and minor tribs
OB-1607	GRASMERE LAKE	40	36	15	74	4	42	18" DIA	NA-4 DEC WETLAND

OB-1608	263 MACE ST	40	34	26	74	8	17	15" DIA	AR-3 DEC WETLAND
OB-1609	CODY PLACE (175' S/O ARTHUR KILL RD)	40	33	20	74	12	8	128" x 82"	Arthur Kill and minor tribs
OB-1610	COMMODORE DR	40	30	47	74	12	4	36" DIA	RARITAN BAY
OB-1611	CODY PLACE	40	33	18	74	12	2	90" DIA	Arthur Kill and minor tribs
OB-1612	MADSEN AVE & RICHMOND VALLEY RD	40	31	14	74	14	2	5' X 3' 6"	MILL CREEK
OB-1613	115’ N/O ALEXANDER AVE AND WOODROW RD	40	33	30	74	10	50	2' x 4'	AR-5 DEC WETLAND
OB-1614	HYLAN BLVD	40	30	32	74	13	16	6' X 3'	AR-15 DEC WETLAND
OB-1615	HYLAN BLVD	40	30	31	74	13	23	30" DIA	AR-15 DEC WETLAND
OB-1616	HYLAN BLVD	40	30	35	74	13	3	24" DIA	MARSH
OB-1617	Parkwood Avenue	40	31	37	74	12	12	5' x 3'	Pond
OB-1618	Bloomingtondale Rd	40	32	1	74	13	5	4' x 3'	LEMON CREEK
OB-1619	SHARROTTS RD	40	32	15	74	13	14	18"" DIA	AR-10 WETLAND
OB-1620	ALLENTOWN LA AND WINDWARD CT	40	31	42	74	14	32	54"" DIA	ARTHUR KILL
OB-1621	160' W OF WARDS POINT AVE AND AMBOY RD	40	30	27	74	15	20	36"" DIA	ARTHUR KILL
OB-1622	RADIGAN AVE	40	32	36	74	13	8	38" x 24"	BMP CP-3
OB-809	200' W/O LANDFILL OVERPASS	40	34	41	74	11	6	24" DIA	RICHMOND/MAIN CREEKS AND TRIBS
OB-2900	Wolfe's Pond Park Trail	40	31	1	74	11	29	18" DIA	Wolfe's Pond

OWLS HEAD

OUTFALL ID	OUTFALL LOCATION	LATITUDE			LONGITUDE			OUTFALL SIZE	RECEIVING WATER	CONTRIBUTORS	BOOM	NET	TELEMETRY
		DEG	MIN	SEC	DEG	MIN	SEC						
OH-001	OWLS HEAD WRRF OUTFALL	40	38	30	74	2	13	96" DIA	UPPER NEW YORK BAY				
OH-002	64TH ST (REG #6A,B,C)	40	38	41	74	1	51	3BL 7' 6" X 8' 10"	UPPER NEW YORK BAY	REG #6A, 6B, 6C			YES (ON 6C)
OH-003	49TH ST (REG #7A,B,C)	40	39	9	74	1	16	11' X 8' FT	UPPER NEW YORK BAY	REG #7A, 7B, 7C			YES (ON 7A)
OH-004	43RD ST (REG #7D)	40	39	19	74	1	1	6' X 4'	UPPER NEW YORK BAY	REG #7D, 19TH ST. PS			YES
OH-006	19TH ST (NORTH SIDE)	40	40	3	74	0	1	36" DIA	GOWANUS CANAL	3RD AVE SEWER RELIEF			
OH-007	2ND AVE	40	40	31	73	59	27	78" DIA	GOWANUS CANAL	2ND AVE P.S.			
OH-015	17TH AVE (REG #9A, B, C)	40	36	5	74	0	44	4BL 14' 6" X 10'	GRAVESEND BAY	REG #9A, 9B, 9C			YES (ON 9A & 9B)
OH-017	92ND ST (REG #1)	40	37	14	74	2	29	3BL 7' 4" X 7' 4"	UPPER NEW YORK BAY	REG #1			YES
OH-018	79TH ST (REG #3)	40	37	53	74	2	25	12' X 7'	UPPER NEW YORK BAY	REG #2, 3			YES (ON 3)
OH-019	71ST ST (REG #4)	40	38	12	74	2	16	48" DIA	UPPER NEW YORK BAY	REG #4			YES
OH-020	BAY RIDGE AVE (REG #5)	40	38	20	74	2	12	3' X 3' FT	UPPER NEW YORK BAY	REG #5			
OH-021	W 15TH ST	40	34	59	73	59	1	3BL 15' X 9' 9"	CONEY ISLAND CREEK	REG #10, 11, AVE.V P.S.	YES		YES (ON 10 & 11)
OH-022	32ND ST (BUSH TERMINAL COMPLEX)	40	39	36	74	0	28	11' X 6' FT	GOWANUS BAY	2ND AVE SEWER RELIEF			
OH-024	23RD ST	40	39	48	74	0	0	3' 6" X 2' 3"	GOWANUS BAY	3RD AVE SEWER RELIEF			
OH-025	29TH ST (BUSH TERMINAL COMPLEX)	40	39	42	74	0	22	66" DIA	GOWANUS BAY	BUSH TERMINAL PS			
OH-026	22ND ST	40	39	51	73	59	58	36" DIA	GOWANUS BAY	3RD AVE SEWER RELIEF			

OUTFALL ID	OUTFALL LOCATION	LATITUDE			LONGITUDE			OUTFALL SIZE	RECEIVING WATER
		DEG	MIN	SEC	DEG	MIN	SEC		
OH-606	W 15TH ST	40	35	0	73	59	1	5' X 5'	CONEY ISLAND CREEK
OH-610	20TH AVE	40	35	51	74	0	19	3' 6" X 3' 6" FT	GRAVESEND BAY
OH-611	BAY PARKWAY	40	35	38	74	0	6	60" DIA	GRAVESEND BAY
OH-612	25TH AVE	40	35	23	73	59	54	8' X 8'	GRAVESEND BAY
OH-613	15TH AVE	40	36	8	74	1	6	24" DIA	GRAVESEND BAY
OH-614	27TH AVE (S/O BELT PARKWAY)	40	35	14	73	59	33	54" DIA	GRAVESEND BAY
OH-615	BAY 43RD ST (S/O BELT PARKWAY)	40	35	19	73	59	35	5' 6" X 5' 6"	GRAVESEND BAY
OH-616	21ST ST	40	39	54	74	0	3	24" DIA	GOWANUS BAY
OH-619	39TH ST	40	39	27	74	0	52	48" DIA	UPPER NEW YORK BAY
OH-620	E/O 9TH STREET	40	40	27	73	59	47	42" DIA	GOWANUS CANAL

OH-514	100' E/O 5TH STREET	40	40	33	73	59	33	6" DIA	GOWANUS CANAL
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PORT RICHMOND

OUTFALL ID	OUTFALL LOCATION	LATITUDE			LONGITUDE			OUTFALL SIZE	RECEIVING WATER	CONTRIBUTORS	BOOM	NET	TELEMETRY
		DEG	MIN	SEC	DEG	MIN	SEC						
PR-001	PORT RICHMOND WPCP OUTFALL	40	38	28	74	7	29	96" DIA	KILL VAN KULL				
PR-002	E/O TAYLOR ST	40	38	24	74	7	26	20" DIA	KILL VAN KULL	REG #R-34			
PR-003	BROADWAY	40	38	29	74	7	6	15" DIA	KILL VAN KULL	REG #R-33			
PR-004	BARD AVE	40	38	44	74	6	31	18" DIA	KILL VAN KULL	REG #R-29			
PR-005	30' N/O KISSEL AVE	40	38	43	74	6	24	20" DIA	KILL VAN KULL	REG #R-28			
PR-006	CLINTON AVE	40	38	43	74	5	54	36" DIA	KILL VAN KULL	REG #R-23			
PR-007	SAILOR SNUG HARBOR (BRENTWOOD AVE)	40	38	43	74	6	7	15" DIA	KILL VAN KULL	REG #R-27			
PR-008	FRANKLIN AVE	40	38	45	74	5	35	15" DIA	KILL VAN KULL	REG #R-21			
PR-009	JERSEY ST	40	38	50	74	5	21	6' X 4'6"	KILL VAN KULL	REG #R-20			
PR-010	ST. PETERS PLACE	40	38	55	74	5	3	30" DIA	UPPER NEW YORK BAY	REG #R-19			
PR-011	HAMILTON AVE	40	38	48	74	4	35	30" DIA	UPPER NEW YORK BAY	REG #R-18			
PR-013	VICTORY BOULEVARD	40	38	16	74	4	21	7' 1" X 4' 1"	UPPER NEW YORK BAY	REG #R-17			
PR-014	BALTIC ST	40	37	50	74	4	23	DBL 6'2" X 3'6"	UPPER NEW YORK BAY	REG #R-15			
PR-015	S/O DOCK ST	40	37	32	74	4	20	3' 6" X 2' 4"	UPPER NEW YORK BAY	REG #R-11			
PR-016	MARINE HOSPITAL	40	37	28	74	4	19	20" DIA	UPPER NEW YORK BAY	REG #R-10			
PR-017	NORWOOD AVE	40	37	20	74	4	14	48" DIA	UPPER NEW YORK BAY	REG #R-9			
PR-018	N/O CAMDEN ST	40	37	14	74	4	8	36" DIA	UPPER NEW YORK BAY	REG #R-8			
PR-019	LYNHURST AVE	40	37	9	74	4	1	13' X 6' FT	UPPER NEW YORK BAY	REG #R-7			YES
PR-020	N/O SYLVA LANE	40	37	2	74	3	53	15" DIA	UPPER NEW YORK BAY	REG #R-5			
PR-021	HYLAN BOULEVARD	40	36	56	74	3	46	10" DIA	UPPER NEW YORK BAY	REG #R-4			
PR-023	NAUTILUS ST	40	36	43	74	3	35	6'6" X 5'11"	UPPER NEW YORK BAY	REG #R-3			
PR-023A	NAUTILUS ST	40	36	42	74	3	36	20" DIA	UPPER NEW YORK BAY	REG #R-2			
PR-023B	NAUTILUS ST	40	36	42	74	3	36	20" DIA	UPPER NEW YORK BAY	REG #R-1			
PR-024	W/O HOLLAND AVE	40	38	40	74	10	18	16" DIA	KILL VAN KULL	REG #R-1W			
PR-025	SOUTH AVE	40	38	28	74	9	56	10" DIA	KILL VAN KULL	REG #R-2W			
PR-026	HARBOR ROAD	40	38	18	74	9	36	52" DIA	KILL VAN KULL	REG #R-3W			
PR-027	UNION AVE	40	38	16	74	9	28	12" DIA	KILL VAN KULL	REG #R-4W			
PR-028	HOUSEMAN AVE	40	38	14	74	8	54	DBL 5' 11-1/2" X 2'9"	KILL VAN KULL	REG #R-5W			
PR-029	NICHOLAS ST	40	38	26	74	8	21	DBL 8' 6" X 6'	KILL VAN KULL	REG #R-6W			YES
PR-030	SYLVATON TERRANCE	40	37	4	74	3	55	16" DIA	UPPER NEW YORK BAY	REG #R-6			
PR-031	CANAL ST	40	37	37	74	4	22	DBL 3'1" X 3'6"	UPPER NEW YORK BAY	REG #13			YES
PR-032	VICTORY BOULEVARD	40	38	14	74	4	13	24" DIA	UPPER NEW YORK BAY	REG #16			
PR-033	ELIZABETH AVE	40	38	37	74	6	47	12" DIA	KILL VAN KULL	REG #R-31			
PR-034	BEMENT AVE	40	38	36	74	6	50	12" DIA	KILL VAN KULL	REG #R-32			
PR-035	BODINE ST	40	38	24	74	7	33	18" DIA	KILL VAN KULL	REG #R-35			YES
PR-036	RECTOR ST	40	38	14	74	7	40	9' X 4'	KILL VAN KULL	REG #R-36			
PR-037	PORT RICHMOND AVE	40	38	27	74	7	51	5' X 3'	KILL VAN KULL	REG #R-37			

OUTFALL ID	OUTFALL LOCATION	LATITUDE			LONGITUDE			OUTFALL SIZE	RECEIVING WATER
		DEG	MIN	SEC	DEG	MIN	SEC		
PR-603	DAVIS AVE	40	38	42	74	6	39	84" DIA	KILL VAN KULL
PR-612	SIGNS ROAD (100' W/O DINSMORE ST)	40	36	8	74	10	18	DBL 12' X 5' 6"	MAIN CREEK
PR-613	RECTOR ST	40	38	14	74	7	40	DBL13' 10" X 5' 4"	KILL VAN KULL
PR-614	CLOVE ROAD	40	37	5	74	6	28	7' X 4' 8"	CLOVE LAKE
PR-615	LOGAN AVE	40	36	55	74	6	22	8' 10" X 5' 8"	CLOVE LAKE

PR-616	MANOR ROAD	40	36	53	74	7	25	36" DIA	CLOVE LAKE
PR-617	CLOVE ROAD	40	37	22	74	7	4	42" DIA	MARTLING LAKE
PR-618	FOREST AVE	40	37	38	74	7	21	36" DIA	BROOKS LAKE
PR-619	FOREST AVE	40	37	38	74	7	21	12' X 5'6"	BROOKS LAKE
PR-621	GARRICK ST	40	37	21	74	10	15	DBL 16' X 6'6"	OLD PLACE CREEK
PR-622	END OF SWAN ST AND MURRAY HULBERT AV	40	38	5	74	4	22	21" DIA	KILL VAN KULL
PR-623	RICHMOND TER AND TOMPKINS CT	40	38	26	74	7	21	96" X 60"	KILL VAN KULL
PR-624	BEMENT AVE AND RICHMOND TER	40	38	36	74	6	50	48"	KILL VAN KULL
PR-625	RICHMOND TERRACE & BROADWAY	40	38	26	74	7	5	10' X 4.5'	KILL VAN KULL
PR-626	KILL VAN KULL SHORELINE	40	38	43	74	5	54	12" DIA	KILL VAN KULL
PR-627	LAFAYETTE AVENUE	40	38	43	74	5	46	54" DIA	Stream wider than 8 feet
PR-628	FOREST HILL ROAD	40	35	58	74	8	24	18" DIA	Pond
PR-629	HIRSCH LANE	40	36	53	74	10	6	12" DIA	MARSH
PR-630	GRAHAM AVENUE	40	36	49	74	10	9	12" DIA	MARSH
PR-631	MEREDITH AVENUE	40	35	55	74	11	32	18" DIA	MARSH
PR-632	FOREST HILL RD & FIELD ST	40	35	38	74	8	36	3.75' x 2.4'	WILLOWBROK WETLAND
PR-633	WESTBURY AVE & HENDERSON AVE	40	38	21	74	6	14	96" X 84"	SNUG HARBOR
PR-634	AVON LN & WILLARD PL	40	36	54	74	8	7	53" x 34"	POND
PR-635	5 CHESHIRE PLACE	40	37	16	74	6	8	18" DIA	VALLEY LAKE
PR-636	LOGAN AVE	40	36	56	74	6	23	84" x 74"	NA-1 DEC WETLAND
PR-637	GOETHALS RD N	40	37	25	74	10	25	15" DIA	E-3 DEC WETLAND
PR-638	MARTLING LAKE	40	37	22	74	7	7	30" DIA	NA-1 DEC WETLAND
PR-639	WATCHOGUE ROAD & VOGEL LOOP	40	36	54	74	7	57	18" DIA	WATCHOGUE ROAD
PR-640	2800 VICTORY BOULEVARD	40	36	24	74	9	8	4 pipes of 10"	STREAM
PR-641	MEREDITH AVE & NECK CREEK	40	35	47	74	11	26	96" x 72"	NECK CREEK
PR-642	136 LIVINGSTON AVE	40	36	8	74	7	43	76" x 48"	STREAM
PR-643	WEST SHORE PLAZA (230' NE/O MEREDITH AVE)	40	35	59	74	11	31	53" x 34"	AR-52 DEC WETLAND
PR-644	66 SIDEVIEW AVE	40	36	23	74	10	3	24" DIA	STREAM
PR-645	WESTWOOD AVE & HAWTHORNE AVE	40	36	24	74	8	59	30" DIA	STREAM
PR-646	MEREDITH AVE AND SOUTH AVE	40	36	2	74	11	41	45" X 29"	AR-52 WETLAND
PR-131	75' N/O BOROUGH PLACE	40	38	34	74	4	20	18" DIA	UPPER NEW YORK BAY

RED HOOK

OUTFALL ID	OUTFALL LOCATION	LATITUDE			LONGITUDE			OUTFALL SIZE	RECEIVING WATER	CONTRIBUTORS	BOOM	NET	TELEMETRY
		DEG	MIN	SEC	DEG	MIN	SEC						
RH-001	RED HOOK W.P.C.P. OUTFALL	40	42	15	73	58	38	96" DIA	NAVY YARD BASIN				
RH-002	HUDSON AVE (REG # R-21A)	40	42	21	73	58	51	15" DIA	EAST RIVER	REG #R-21A			YES
RH-003	HUDSON AVE (REG # R-21)	40	42	20	73	58	52	4' 6" X 7' 3"	EAST RIVER	REG #R-21			
RH-005	GOLD ST (REG # R-20A)	40	42	20	73	58	56	168" DIA	EAST RIVER	REG #R-20A			YES
RH-006	PEARL ST (REG # R-19A)	40	42	18	73	59	14	36" DIA	EAST RIVER	REG #R-19A			
RH-007	ADAMS ST (REG # R-19)	40	42	16	73	59	18	15" DIA	EAST RIVER	REG #R-19			
RH-008	WASHINGTON ST (REG # R-18A)	40	42	17	73	59	22	60" DIA	EAST RIVER	REG #R-18A			
RH-009	MAIN ST (REG # R-18)	40	42	15	73	59	26	2' X 2'	EAST RIVER	REG #R-18			
RH-010	ORANGE ST (REG # R-16)	40	42	0	73	59	50	18" DIA	EAST RIVER	REG #R-16			
RH-011	MONTAGUE ST (REG # R-15)	40	41	45	73	59	58	4' 0" X 4' 0"	EAST RIVER	REG #R-15			
RH-012	CADMAN PLAZA (REG # R-17)	40	42	11	73	59	42	6' X 6' FT	EAST RIVER	REG #R-17			
RH-013	JORALEMON ST (REG # R-14)	40	41	38	74	0	3	18" DIA	EAST RIVER	REG #R-14			
RH-014	ATLANTIC AVE (REG # R-13)	40	41	28	74	0	3	24" DIA	BUTTERMILK CHANNEL	REG #R-13			
RH-016	AMITY ST (REG # R-12)	40	41	25	74	0	2	8' 6" X 8' 6"	BUTTERMILK CHANNEL	REG #R-12			
RH-018	KANE ST (REG # R-11)	40	41	20	74	0	14	5' 7" X 3' 9"	BUTTERMILK CHANNEL	REG #R-11			
RH-019	HAMILTON AVE (REG # R-9)	40	41	10	74	0	29	72" DIA	BUTTERMILK CHANNEL	REG #R-9			
RH-020	DEGRAW ST (REG # R-10)	40	41	11	74	0	20	18" DIA	BUTTERMILK CHANNEL	REG #R-10			

RH-021	SACKETT ST (REG # R-9A)	40	41	13	74	0	27	48" DIA	BUTTERMILK CHANNEL	REG #R-9A			
RH-022	S/O BOWNE ST (REG # R-8)	40	40	59	74	0	35	24" DIA	BUTTERMILK CHANNEL	REG #R-8			
RH-023	COMMERCE ST (REG # R-7)	40	40	57	74	0	38	24" DIA	BUTTERMILK CHANNEL	REG #R-7			
RH-024	VERONA ST (REG # R-6)	40	40	52	74	0	43	24" DIA	BUTTERMILK CHANNEL	REG #R-6			
RH-025	PIONEER ST (REG # R-5)	40	40	49	74	0	46	30" DIA	BUTTERMILK CHANNEL	REG #R-5			
RH-028	WOLCOTT ST (REG # R-2)	40	40	50	74	1	3	72" DIA	BUTTERMILK CHANNEL	REG #R-2			YES
RH-029	VAN BRUNT ST (REG # R-1)	40	40	24	74	1	2	24" DIA	UPPER NEW YORK BAY	REG #R-1, VAN BLANT ST. PS			
RH-030	HICKS ST	40	40	6	74	0	25	54" DIA	GOWANUS BAY	CSO-2			
RH-030A	W/O HENRY ST	40	40	6	74	0	25	54" DIA	GOWANUS BAY	CSO-2			
RH-031	CREAMER ST	40	40	17	73	59	56	72" DIA	GOWANUS CANAL	BOND-LORRAINE SWR RELIEF			
RH-033	DOUGLASS ST (REG # R-25)	40	40	52	73	59	12	42" DIA	GOWANUS CANAL	REG #R-25	YES		
RH-034	HEAD OF GOWNAUS CANAL (GOWANUS PUMPING STATION)	40	40	54	73	59	12	4BL 10' X 10'	GOWANUS CANAL	GOWANUS PS	YES		
RH-035	BOND ST	40	40	33	73	59	33	DBL 24" DIA	GOWANUS CANAL	CSO-3, BOND-LORRAINE SWR RELIEF			
RH-036	PRESIDENT ST (REG # R-23)	40	40	43	73	59	19	18" DIA	GOWANUS CANAL	REG #R-22			
RH-037	SACKETT ST (REG # R-23)	40	40	48	73	59	16	18" DIA	GOWANUS CANAL	REG #R-23			
RH-038	DEGRAW ST (REG # R-24)	40	40	50	73	59	14	12' 0" X 5' 2-1/2"	GOWANUS CANAL	REG #R-24			
RH-040	EAST RIVER & NAVY YARD	40	42	12	73	58	38	72" DIA	NAVY YARD BASIN	3RD AVENUE SEWER RELIEF			
RH-041	S/O CARROLL ST BRIDGE. 212' W/O NEVINS ST	40	40	41	73	59	20	42" DIA	GOWANUS CANAL				

OUTFALL ID	OUTFALL LOCATION	LATITUDE			LONGITUDE			OUTFALL SIZE	RECEIVING WATER
		DEG	MIN	SEC	DEG	MIN	SEC		
RH-602	SULLIVAN ST	40	40	51	74	1	1	15" DIA	BUTTERMILK CHANNEL
RH-603	BEACH 5TH ST	40	40	28	73	59	47	18" DIA	GOWANUS CANAL
RH-604	1 ST AND DEAD END BY GOWANUS CANAL	40	40	39	73	59	22	30" DIA	GOWANUS CANAL
RH-605	S/O CARROLL ST BRIDGE. 212' W/O NEVINS ST	40	40	41	73	59	20	42" DIA	GOWANUS CANAL
RH-311	150' W/O COLUMBIA STREET	40	39	53	74	0	51	12" DIA	UPPER NEW YORK BAY
RH-354A	200' s/o Railroad Ave (BROOKLYN NAVY YARD)	40	42	21	73	58	23	10" DIA	EAST RIVER, LOWER
RH-449	WEST END OF PIER S/O WALLABOUT CHANNEL	40	42	32	73	58	22	10" DIA	EAST RIVER, LOWER

ROCKAWAY

OUTFALL ID	OUTFALL LOCATION	LATITUDE			LONGITUDE			OUTFALL SIZE	RECEIVING WATER	CONTRIBUTORS	BOOM	NET	TELEMETRY
		DEG	MIN	SEC	DEG	MIN	SEC						
ROC-001	ROCKAWAY WRRF OUTFALL	40	35	4	73	49	47	72" DIA	GRASS HASOCK CHANNEL				
ROC-001A	ROCKAWAY WRRF DISINFECTION SYSTEM BYPASS	40	35	5	73	49	44	72" DIA	GRASS HASOCK CHANNEL	PLANT DISINFECTION SYSTEM BYPASS			
ROC-001B	BEACH 106TH ST	40	35	5	73	49	43	72" DIA	GRASS HASOCK CHANNEL	REG #1, 2, EMERGENCY BYPASS			YES (ON 1 & 2)

OUTFALL ID	OUTFALL LOCATION	LATITUDE			LONGITUDE			OUTFALL SIZE	RECEIVING WATER
		DEG	MIN	SEC	DEG	MIN	SEC		
ROC-601	BEACH 5TH ST	40	35	45	73	44	25	42" DIA	HEMPSTEAD BAY
ROC-611	BEACH 147TH ST	40	34	29	73	51	54	48" DIA	ROCKAWAY INLET
ROC-614	BEACH 145TH ST	40	34	32	73	51	48	48" DIA	ROCKAWAY INLET
ROC-617	BEACH 141ST ST	40	34	38	73	51	37	48" DIA	ROCKAWAY INLET
ROC-618	BEACH 140TH ST	40	34	39	73	51	35	20" DIA	ROCKAWAY INLET
ROC-619	BEACH 139TH ST	40	34	41	73	51	32	48" DIA	ROCKAWAY INLET
ROC-624	BEACH 136TH ST	40	34	45	73	51	24	60" DIA	ROCKAWAY INLET
ROC-625	BEACH 130TH ST	40	34	53	73	51	7	7' 7" X 4' 10"	ROCKAWAY INLET
ROC-627	BEACH 126TH ST	40	34	55	73	50	54	54" DIA	ROCKAWAY INLET
ROC-629	BEACH 121ST ST	40	34	54	73	50	35	5' X 3' 2"	ROCKAWAY INLET
ROC-630	BEACH 118TH ST	40	34	54	73	50	25	8' X 6' 6"	ROCKAWAY INLET
ROC-631	BEACH 106TH ST	40	35	5	73	49	42	60" DIA	GRASS HASOCK CHANNEL

ROC-633	BEACH 74TH ST	40	35	33	73	48	9	12' 6" X 4' FT	VERNAM BASIN
ROC-634	ELIZABETH AVE	40	35	42	73	48	13	24" DIA	VERNAM BASIN
ROC-635	ELIZABETH AVE	40	35	45	73	47	20	42" DIA	SOMMERVILLE BASIN
ROC-636	THURSBY AVE	40	35	42	73	47	21	DBL 7' X 4'	SOMMERVILLE BASIN
ROC-637	BEACH 40TH ST	40	35	55	73	46	26	7' X 5'	GRASS HASOCK CHANNEL
ROC-638	BEACH 38TH ST	40	35	53	73	46	15	54" DIA	GRASS HASOCK CHANNEL
ROC-641	EGMONT PLACE	40	36	44	73	45	54	54" DIA	NEGRO BAR CHANNEL
ROC-648	BEACH 49TH ST	40	35	48	73	46	48	8' 6" X 5' FT	CONCH BASIN
ROC-649	ALAMEDA AVE	40	35	52	73	46	52	66" DIA	CONCH BASIN
ROC-651	FAR ROCKAWAY BOULEVARED	40	35	52	73	46	4	DBL 12' 9" X 6'	GRASS HASOCK CHANNEL
ROC-652	DICKENS ST	40	36	36	73	45	34	24" DIA	NEGRO BAR CHANNEL
ROC-653	BEACH 77TH ST	40	35	28	73	48	15	7' 6" X 4' 6"	BARBADOES BASIN
ROC-656	BEACH 87TH ST	40	35	28	73	48	45	18" DIA	GRASS HASOCK CHANNEL
ROC-657	BEACH 84TH ST	40	35	32	73	48	35	11' X 4' 6"	GRASS HASOCK CHANNEL
ROC-658	BEACH 72ND ST	40	35	56	73	48	4	12" DIA	GRASS HASOCK CHANNEL
ROC-659	BEACH 68TH ST	40	35	57	73	47	52	16" DIA	GRASS HASOCK CHANNEL
ROC-666	CHURCH ROAD	40	36	15	73	49	5	18" DIA	BROAD CHANNEL
ROC-667	CHURCH ROAD	40	36	18	73	49	5	24" DIA	BROAD CHANNEL
ROC-670	FALCON AVE	40	35	54	73	46	8	9' X 4' FT	GRASS HASOCK CHANNEL
ROC-671	BEACH 127TH ST	40	34	55	73	50	57	5' 8" X 3' 7"	ROCKAWAY INLET
ROC-672	BEACH 125TH ST	40	34	54	73	50	49	5' X 3' 2"	ROCKAWAY INLET
ROC-674	BEACH 136TH ST	40	34	46	73	51	21	5' X 3' 2"	ROCKAWAY INLET
ROC-675	BEACH 134TH ST	40	34	48	73	51	19	5' X 3' 2"	ROCKAWAY INLET
ROC-676	BEACH 132ND ST	40	34	51	73	51	13	54" DIA	ROCKAWAY INLET
ROC-677	BEACH 128TH ST (REG # D-20)	40	34	55	73	51	1	18" DIA	ROCKAWAY INLET
ROC-678	BEACH 124TH ST	40	34	54	73	50	45	5' X 3' 2"	ROCKAWAY INLET
ROC-679	BEACH 122ND ST (REG # D-18)	40	34	53	73	50	38	5' X 3' 2"	ROCKAWAY INLET
ROC-680	BEACH 108TH ST (REG # D-14)	40	35	3	73	49	51	6' X 4' FT	GRASS HASOCK CHANNEL
ROC-684	BEACH 137 ST AND BEACH CHANNEL DR	40	34	43	73	51	27	60" X 38"	ROCKAWAY INLET
ROC-685	BURCHELL AVE AND BARBADOES DR	40	35	45	73	48	15	12"	VERNAM BASIN
ROC-686	CHANNEL RD AND E 14 RD	40	36	10	73	49	6	18"	BROAD CHANNEL
ROC-688	THURSBY AVE	40	35	42	73	47	27	13' X 5' FTRC	SOMMERVILLE BASIN
ROC-689	BEACH CHANNEL DR AND BEACH 138 ST	40	34	42	73	51	30	53" X 34"	ROCKAWAY INLET
ROC-690	E 9 RD AND LANARK RD	40	36	24	73	48	56	30" X 19"	BROAD CHANNEL
ROC-691	BEACH CHANNEL SHORELINE	40	35	15	73	49	10	12" DIA	GRASS HASOCK CHANNEL
ROC-692	BEACH CHANNEL SHORELINE	40	35	14	73	49	13	12" DIA	GRASS HASOCK CHANNEL
ROC-693	BEACH 88th STREET	40	35	26	73	48	52	8' 2" x 5' 3"	GRASS HASOCK CHANNEL
ROC-694	Dwight Ave - Norton Basin Shoreline	40	36	0	73	46	16	24" DIA	GRASS HASOCK CHANNEL
ROC-695	Mott Basin Shoreline - North of Battery Rd and Chandler Street intersection	40	36	37	73	45	20	9.5' x 4.5'	NEGRO BAR CHANNEL
ROC-696	BEACH 106TH STREET	40	35	5	73	49	42	36" DIA	GRASS HASOCK CHANNEL
ROC-697	BEACH 98TH ST (REG # D-7,D-8,D-9,D-10,D-11)	40	35	12	73	49	16	36" DIA	GRASS HASOCK CHANNEL
ROC-698	BEACH 98TH ST (REG # D-6)	40	35	13	73	49	16	24" DIA	GRASS HASOCK CHANNEL
ROC-699	MOTT AVE	40	36	46	73	46	17	4" DIA	GRASS HASOCK CHANNEL WETLAND
ROC-700	MOTT AVE	40	36	27	73	45	45	12" DIA	NEGRO BAR CHANNEL WETLAND
ROC-701	BEACH CHANNEL DR & ROCKAWAY FREEWAY	40	34	59	73	50	5	18" DIA	GRASS HASOCK CHANNEL
ROC-702	512 CROSS BAY BLVD	40	36	40	73	49	7	18" DIA	MARSH
ROC-703	ARDEN AVE	40	36	39	73	49	10	15" DIA	BROAD CHANNEL
ROC-704	525 CROSS BAY BLVD	40	36	39	73	49	10	15" DIA	BROAD CHANNEL
ROC-705	526 CROSS BAY BLVD	40	36	39	73	49	6	15" DIA	MARSH
ROC-706	BAYSWATER AVE (BAYSWATER PS EMERGENCY BYPASS)	40	36	26	73	46	12	60" DIA	GRASS HASOCK CHANNEL
ROC-707	BEACH 3RD STREET (SEAGIRT PS EMERGENCY BYPASS)	40	35	51	73	44	19	DBL 13' 6" X 5'	HEMPSTEAD BAY
ROC-708	9 WEST 16TH ROAD	40	36	7	73	49	15	15" DIA	JAMAICA BAY, EASTERN, AND TRIBS (QUEENS)

ROC-709	205 AVENUE	40	36	2	73	49	16	15" DIA	JAMAICA BAY, EASTERN, AND TRIBS (QUEENS)
ROC-710	9 19TH ROAD	40	35	59	73	49	16	15" DIA	JAMAICA BAY, EASTERN, AND TRIBS (QUEENS)
ROC-711	SEAGIRT AV & BEACH 5TH STREET	40	35	46	73	44	26	42" DIA	MARSH
ROC-712	W 10 RD & SHAD CREEK RD	40	36	22	73	49	21	30" X 19"	JAMAICA BAY, EASTERN, AND TRIBS (QUEENS)
ROC-713	322 CROSS BAY BOULEVARD	40	36	48	73	49	11	15" DIA	MARSH

TALLMAN ISLAND

OUTFALL ID	OUTFALL LOCATION	LATITUDE			LONGITUDE			OUTFALL SIZE	RECEIVING WATER	CONTRIBUTORS	BOOM	NET	TELEMETRY
		DEG	MIN	SEC	DEG	MIN	SEC						
TI-001	TALLMAN ISLAND WRRF OUTFALL	40	47	51	73	50	25	60" DIA	EAST RIVER				
TI-003	N/O 7TH AVE (REG # 10A)	40	47	34	73	49	45	11' X 7'	EAST RIVER	REG #10A, 10B			YES (ON 10B)
TI-004	151ST ST (REG # 11)	40	47	49	73	48	46	42" DIA EGG	EAST RIVER	REG #11			
TI-005	154TH ST (REG # 12)	40	47	47	73	48	23	24" DIA	EAST RIVER	REG #12			
TI-006	24TH AVE	40	46	56	73	46	15	10' X 7' 6"	LITTLE NECK BAY	24 AVE P.S.			
TI-007	NORTHERN BLVD	40	45	46	73	45	6	18" DIA	ALLEY CREEK	OLD DOUG P.S.			
TI-008	46TH AVE (REG # 46, 47, 48, 49)	40	45	42	73	45	3	10' X 7' 6"	ALLEY CREEK	REG #46, 47, 48, 49			YES (ON 46, 47, & 49)
TI-010	ROOSEVELT AVE (REG # 30, 31, 40, 44)	40	45	19	73	50	19	3BL 18' 6" X 10'	FLUSHING CREEK	REG #30, 31, 40, 44	YES		YES (ON 30 & 40)
TI-011	32ND AVE (REG # 51 - 54)	40	45	57	73	50	20	DB 96" DIA	FLUSHING CREEK	REG #9, 51, 52, 53, 54		YES	YES (ON 9)
TI-012	29TH AVE (REG # 9)	40	46	19	73	50	59	10" DIA	EAST RIVER	122ND ST P.S.			
TI-014	23RD AVE (REG # 7)	40	46	42	73	50	58	12" DIA	EAST RIVER	REG #7			
TI-015	22ND AVE (REG # 6)	40	46	48	73	51	1	12" DIA	EAST RIVER	REG #6			
TI-016	20TH AVE (REG # 5)	40	46	54	73	50	57	60" DIA	EAST RIVER	REG #5			
TI-017	15TH AVE (REG # 4)	40	47	1	73	51	29	12" DIA	EAST RIVER	REG #4			
TI-018	14TH AVE (REG # 3)	40	47	7	73	51	32	7' 7" X 4' 10" EGG	EAST RIVER	REG #3			
TI-022	40TH ROAD (REG # 55 - 58)	40	45	21	73	50	18	8' 6" X 6'	FLUSHING CREEK	REG #55, 56, 57, 58	YES		
TI-023	CRYDERS LANE (REG # 13)	40	47	20	73	47	36	13' 6" X 8'	EAST RIVER	REG #13, CLEARVIEW P.S.			YES (ON 13)
TI-025	400' SOUTH OF LIRR BRIDGE	40	45	50	73	45	10	52' 6" X 9' 0"	ALLEY CREEK	ALLEY CREEK CSO STORAGE FACILITY			
TI-026	W/O 154TH STREET	40	47	47	73	48	23	48" DIA	EAST RIVER	REG #			

OUTFALL ID	OUTFALL LOCATION	LATITUDE			LONGITUDE			OUTFALL SIZE	RECEIVING WATER
		DEG	MIN	SEC	DEG	MIN	SEC		
TI-601	NORTHERN BOULEVARD (SOUTH SIDE)	40	45	45	73	50	11	30" DIA	FLUSHING CREEK
TI-603	NORTHERN BOULEVARD (NORTH SIDE)	40	45	46	73	50	11	30" DIA	FLUSHING CREEK
TI-605	300' W/O WHITESTONE EXPRESSWAY	40	45	59	73	50	24	DB 6' 9" X 4' 11"	FLUSHING CREEK
TI-609	121ST ST	40	47	46	73	50	46	36" DIA	EAST RIVER
TI-610	147TH ST	40	47	51	73	49	25	48" DIA	EAST RIVER
TI-615	9TH AVE	40	47	33	73	47	41	54" DIA	EAST RIVER
TI-616	12TH AVE	40	47	30	73	47	41	24" DIA	EAST RIVER
TI-617	12TH ROAD	40	47	25	73	47	40	18" DIA	EAST RIVER
TI-618	14TH AVE	40	47	23	73	47	38	18" DIA	EAST RIVER
TI-619	CRYDERS LANE	40	47	20	73	47	37	18" DIA	EAST RIVER
TI-623	28TH AVE	40	46	45	73	46	5	24" DIA	LITTLE NECK BAY
TI-624	35TH AVE	40	46	19	73	45	48	10' X 4'	LITTLE NECK BAY
TI-631	31ST ROAD	40	46	1	73	50	22	48" DIA	FLUSHING CREEK
TI-633	250' S/O 17TH AVE	40	47	8	73	46	26	54" DIA	LITTLE NECK BAY
TI-634	FORT TOTTEN SOUTH JETTY	40	47	28	73	46	53	24" DIA	EAST RIVER
TI-653	SANDHILL ROAD	40	46	19	73	44	38	48" DIA	UDALL'S COVE
TI-654	20' N/O NORTHERN BOULEVARD	40	45	49	73	45	6	54" DIA	ALLEY CREEK
TI-655	223RD ST & NORTHERN BOULEVARD	40	45	48	73	45	7	18" DIA	ALLEY CREEK
TI-656	39TH AVE	40	46	7	73	45	15	60" DIA	LITTLE NECK BAY
TI-658	233RD PLACE	40	46	19	73	45	14	39" DIA	LITTLE NECK BAY
TI-660	39TH AVE & 248TH ST	40	46	22	73	44	39	12" DIA	AURORA POND (E)
TI-661	208TH ST	40	47	26	73	47	2	30" DIA	EAST RIVER
TI-666	9TH AVE	40	47	21	73	49	53	48" DIA	EAST RIVER
TI-670	100' N/O NORTH SHORE M.T.S.	40	46	15	73	50	56	83" X 53" EGG	EAST RIVER

TI-671	W/O 8TH AVE	40	47	23	73	51	16	36" DIA	EAST RIVER
TI-673	FLUSHING BAY & 25TH AVE	40	46	37	73	50	56	48" DIA	EAST RIVER
TI-674	9TH AVE	40	47	20	73	50	14	18" DIA	EAST RIVER
TI-675	131ST ST	40	47	20	73	50	14	72" DIA	EAST RIVER
TI-676	POWELLS COVE BLVD	40	47	32	73	50	12	4' 5" X 2' 10" EGG	EAST RIVER
TI-677	SANDHILL RD	40	46	21	73	44	40	72" DIA	UDALLS COVE PARK POND
TI-678	40 AVE & 247 ST	40	46	20	73	44	37	30" DIA	UDALLS COVE PARK POND
TI-679	BROOKSIDE ST & 34 AVE	40	46	35	73	44	40	5.5' x 2'	UDALLS COVE PARK POND
TI-680	POPPENHUSEN AV AND 115TH ST	40	47	28	73	51	10	5'6" x 3'0"	EAST RIVER
TI-681	POPPENHUSEN AV AND COLLEGE PL	40	47	36	73	50	55	4'6" x 3'6"	EAST RIVER
TI-682	20TH AVE	40	46	53	73	49	52	48" DIA	MARSH
TI-683	20TH AVE	40	46	53	73	50	8	24" DIA	MARSH
TI-684	61ST AVE	40	45	24	73	44	40	DBL 6' X 6'	ALLEY CREEK
TI-685	SEAGIRT AV & BEACH 5TH STREET	40	46	53	73	49	58	54" DIA	FL-2 DEC WETLAND
TI-686	SHORE RD AND MANOR RD	40	46	33	73	45	16	36" DIA	LITTLE NECK BAY
TI-687	SHORE RD, 35' N/O WESTMORELAND PI	40	46	36	73	45	18	36" DIA	LITTLE NECK BAY
TI-688	SHORE RD AND KNOLLWOOD AVE	40	46	49	73	45	12	24" DIA	LITTLE NECK BAY
TI-689	SHORE RD, 110' S/O BAYVIEW AVE	40	46	52	73	45	11	18" DIA	LITTLE NECK BAY
TI-690	SHORE RD AND WEST DR	40	46	57	73	45	4	16" DIA	LITTLE NECK BAY
TI-472	450' N/O FORT TOTTEN SOUTH JETTY	40	47	32	73	46	51	6" DIA	LONG ISLAND SOUND, BRONX
TI-514	75' S/O FORT TOTTEN SOUTH JETTY (FORT TOTTEN)	40	47	41	73	46	53	4" DIA	LONG ISLAND SOUND, BRONX
TI-515	30' N/O FORT TOTTEN SOUTH JETTY (FORT TOTTEN)	40	47	42	73	46	54	8" DIA	LONG ISLAND SOUND, BRONX
TI-522	WALTER REED ROAD (FORT TOTTEN)	40	47	40	73	46	28	8" DIA	LITTLE NECK BAY
TI-524	300' S/O WALTER REED ROAD (FORT TOTTEN)	40	47	38	73	46	27	8" DIA	LITTLE NECK BAY
TI-572	325' n/o 31st Avenue	40	46	14	73	50	55	24" DIA	FLUSHING CREEK/BAY

WARDS ISLAND

OUTFALL ID	OUTFALL LOCATION	LATITUDE			LONGITUDE			OUTFALL SIZE	RECEIVING WATER	CONTRIBUTORS	BOOM	NET	TELEMETRY
		DEG	MIN	SEC	DEG	MIN	SEC						
WIB-053	W 255TH ST (REG # R-3)	40	54	18	73	54	49	7' X 4'	HUDSON RIVER	REG #R-3			
WIB-054	W 248TH ST (REG # R-2)	40	53	50	73	55	0	8' X 6'	HUDSON RIVER	REG #R-2			
WIB-055	W 236TH ST (REG # R-1)	40	53	18	73	55	12	6' X 4' 6"	HUDSON RIVER	REG #R-1			
WIB-056	W 192ND ST (REG # 67)	40	52	12	73	54	33	DBL 15' X 9' 2"	HARLEM RIVER	REG #67			YES
WIB-057	LANDING ROAD (REG # 66)	40	51	47	73	54	45	66" DIA	HARLEM RIVER	REG #66			YES
WIB-058	W 178TH ST (REG # 65)	40	51	20	73	55	13	57" DIA	HARLEM RIVER	REG #65			
WIB-059	W 176TH ST (REG # 64)	40	51	2	73	55	27	72" DIA	HARLEM RIVER	REG #64			
WIB-060	200' N/O HIGH BRIDGE (REG # 62)	40	50	34	73	55	45	DB 12' X 7' 4"	HARLEM RIVER	REG #62			
WIB-061	WEST 167TH ST (REG # 61)	40	50	25	73	55	49	42" DIA	HARLEM RIVER	REG #61			
WIB-062	JEROME AVE (REG # 60)	40	49	42	73	55	59	10' X 7'	HARLEM RIVER	REG #60, 60A			YES
WIB-063	S/O MCCOMBS DAM BRIDGE (REG # 72)	40	49	40	73	55	58	48" DIA	HARLEM RIVER	REG #72			
WIB-064	E 149TH ST (REG # 59)	40	49	10	73	55	56	7' X 7'	HARLEM RIVER	REG #59			
WIB-065	PARK AVE (REG # 57)	40	48	38	73	55	57	36" DIA	HARLEM RIVER	REG #57			
WIB-066	THIRD AVE BRIDGE (NORTH SIDE) (REG # 56)	40	48	28	73	55	54	4' X 2' 8" EGG	HARLEM RIVER	REG #56			
WIB-067	LINCOLN AVE (REG # 55)	40	48	23	73	55	49	60" DIA	HARLEM RIVER	REG #55			
WIB-068	BROOK AVE (REG # 53, 54)	40	48	8	73	55	22	12' X 9' 10"	BRONX KILL	REG #53, 54			YES (ON 53)
WIB-069	CYPRESS AVE (REG # 71)	40	47	56	73	55	9	2' 2" X 3'	BRONX KILL	REG #71			
WIB-070	E 134TH ST (REG # 70)	40	47	56	73	54	29	4' 2" X 3' 2" EGG	EAST RIVER	REG #70			
WIB-071	E 138TH ST (REG # 69)	40	48	5	73	54	22	60" DIA	EAST RIVER	REG #69			
WIB-072	E 149TH ST (REG # 68)	40	48	17	73	54	8	9' X 6' 6"	EAST RIVER	REG #68			YES
WIB-073	SAINT ANN'S AVE (REG # 73)	40	48	5	73	55	18	DBL 144" DIA	BRONX KILL	REG #73			
WIB-075	E 138TH ST (REG # 58)	40	48	50	73	55	56	12' X 6' 3"	HARLEM RIVER	REG #58			YES
WIB-076	W/O BRADLEY TERRACE (REG # MH-1)	40	52	43	73	55	20	54" DIA	SPUYTEN DUYVIL CREEK	REG #MH-1			
WIB-077	TEUNISSEN PLACE (REG # MH-2)	40	52	32	73	54	58	8' 6" X 7'	SPUYTEN DUYVIL CREEK	REG #MH-2			
WIB-078	BROADWAY BRIDGE (NORTH SIDE) (REG # MH-3)	40	52	26	73	54	39	5' X 4' 6"	SPUYTEN DUYVIL CREEK	REG #MH-3			
WIB-079	750' N/O W 261ST ST (REG # R-4)	40	54	53	73	54	38	18" DIA	HUDSON RIVER	REG #R-4			

WIM-001	WARDS ISLAND WRRF OUTFALL	40	47	11	73	55	14	144" DIA	EAST RIVER				
WIM-002	E 73RD ST (REG # 1)	40	45	59	73	57	2	3' 6" X 2' 0" EGG	EAST RIVER	REG #1			
WIM-003	E 74TH ST (REG # 2A, 2B)	40	46	1	73	57	0	72" DIA	EAST RIVER	REG #2A, 2B			YES (ON 2A)
WIM-004	E 75TH ST (REG # 3)	40	46	3	73	56	58	3' 6" X 2' 0" EGG	EAST RIVER	REG #3			
WIM-005	E 76TH ST (REG # 4)	40	46	5	73	56	56	3' 6" X 2' 0" EGG	EAST RIVER	REG #4			
WIM-006	E 77TH ST (REG # 5)	40	46	8	73	56	55	3' 6" X 3' 0" EGG	EAST RIVER	REG #5			
WIM-007	E 78TH ST (REG # 6)	40	46	10	73	56	53	3' X 2' EGG	EAST RIVER	REG #6			
WIM-008	E 79TH ST (REG # 7)	40	46	12	73	56	50	60" DIA	EAST RIVER	REG #7			YES
WIM-009	E 83RD ST (REG # 8)	40	46	20	73	56	42	16" DIA	EAST RIVER	REG #8			
WIM-010	E 84TH ST (REG # 9)	40	46	22	73	56	39	16" DIA	EAST RIVER	REG #9			
WIM-011	E 86TH ST (REG # 10)	40	46	27	73	56	35	5' X 5'	EAST RIVER	REG #10			
WIM-012	E 89TH ST (REG # 11)	40	46	34	73	56	31	60" DIA	EAST RIVER	REG #11			
WIM-013	E 90TH ST (REG # 12)	40	46	39	73	56	33	4' X 2' 4" EGG	EAST RIVER	REG #12			
WIM-014	E 91ST ST (REG # 13)	40	46	42	73	56	34	15" DIA	EAST RIVER	REG #13			
WIM-015	E 92ND ST (REG # 14)	40	46	47	73	56	36	48" DIA	EAST RIVER	REG #14			
WIM-016	E 95TH ST (REG # 15)	40	46	55	73	56	37	48" DIA	EAST RIVER	REG #15			
WIM-017	E 96TH ST (REG # 16)	40	46	57	73	56	37	42" DIA	EAST RIVER	REG #16			
WIM-018	E 100TH ST (REG # 17)	40	47	5	73	56	25	3' 6" X 2' 4" EGG	EAST RIVER	REG #17			
WIM-019	E 101ST ST (REG # 18)	40	47	7	73	56	23	4' X 2' 4" EGG	EAST RIVER	REG #18			
WIM-020	E 103RD ST (REG # 20)	40	47	11	73	56	19	4' X 2' 4" EGG	EAST RIVER	REG #20			
WIM-021	E 104TH ST (REG # 21)	40	47	13	73	56	17	3' 6" X 2' 4" EGG	EAST RIVER	REG #21			
WIM-022	E 105TH ST (REG # 22)	40	47	16	73	56	16	4' X 2' 4" EGG	EAST RIVER	REG #22			
WIM-023	E 106TH ST (REG # 23)	40	47	18	73	56	14	DBL 6' X 7' 6"	EAST RIVER	REG #23			YES
WIM-024	E 110TH ST (REG # 24)	40	47	27	73	56	8	DBL 8' 6" X 7' 6"	EAST RIVER	REG #24			YES
WIM-025	E 114TH ST (REG # 25)	40	47	35	73	55	58	5' 3" X 8'	EAST RIVER	REG #25			
WIM-026	E 115TH ST (REG # 26)	40	47	37	73	55	54	15" DIA	EAST RIVER	REG #26			
WIM-027	E 116TH ST (REG # 27)	40	47	38	73	55	51	15" DIA	EAST RIVER	REG #27			
WIM-030	E 119TH ST (REG # 30)	40	47	45	73	55	45	4' 6" X 2' 4" FT	EAST RIVER	REG #30			
WIM-031	E 120TH ST (REG # 31)	40	47	48	73	55	44	5' X 4' 6" FT	EAST RIVER	REG #31			
WIM-032	E 121ST ST (REG # 32)	40	47	51	73	55	44	4' X 2' 4" FT	EAST RIVER	REG #32			
WIM-033	E 122ND ST (REG # 33)	40	47	53	73	55	44	4' 9" X 4' FT	BRONX KILL	REG #33			
WIM-034	E 124TH ST (REG # 34)	40	47	59	73	55	44	3' 6" X 2' 4"	BRONX KILL	REG #34			
WIM-035	E 125TH ST (REG # 35)	40	48	3	73	55	44	4' X 2' 8" EGG	BRONX KILL	REG #35			
WIM-036	E 129TH ST (REG # 36)	40	48	19	73	55	53	42" DIA	HARLEM RIVER	REG #36			
WIM-037	E 130TH ST (REG # 37)	40	48	24	73	55	58	4' X 2' 8"	HARLEM RIVER	REG #37			
WIM-038	E 135TH ST (REG # 38)	40	48	40	73	56	3	6' X 8' 6" FT	HARLEM RIVER	REG #38			YES
WIM-039	W 140TH ST (REG # 39)	40	48	56	73	56	1	4' X 2' 8" EGG	HARLEM RIVER	REG #39			
WIM-040	W 141ST ST (REG # 40)	40	48	58	73	56	1	5' X 2' 4" FT	HARLEM RIVER	REG #40			
WIM-041	W 142ND ST (REG # 41)	40	49	1	73	56	1	6' X 4' FT	HARLEM RIVER	REG #41			
WIM-042	W 143RD ST (REG # 42)	40	49	4	73	56	1	3' 6" X 2' EGG	HARLEM RIVER	REG #42			
WIM-043	E 102ND ST (REG # 19)	40	47	9	73	56	21	42" DIA	EAST RIVER	REG #19			
WIM-044	W. 145TH ST (REG # 44)	40	49	10	73	56	1	6' X 2' 8" FT	HARLEM RIVER	REG #44			
WIM-045	W 149TH ST (REG # 45)	40	49	21	73	56	2	6' X 5' 6"	HARLEM RIVER	REG #45			YES
WIM-046	W 151ST ST (REG # 46)	40	49	29	73	56	3	8' 6" X 8'	HARLEM RIVER	REG #46			YES
WIM-047	W 154TH ST (REG # 47)	40	49	39	73	56	4	6' X 4' FT	HARLEM RIVER	REG #47			
WIM-048	W 155TH ST (REG # 48)	40	49	41	73	56	4	4' X 2' 4" FT	HARLEM RIVER	REG #48			
WIM-050	W 156TH ST (REG # 50)	40	49	44	73	56	4	15" DIA	HARLEM RIVER	REG #50			
WIM-051	W 167TH ST (REG # 51)	40	50	13	73	56	1	48" DIA	HARLEM RIVER	REG #51			YES
WIM-052	W 176TH ST (REG # 52)	40	50	35	73	55	50	5' X 5'	HARLEM RIVER	REG #52			YES

OUTFALL ID	OUTFALL LOCATION	LATITUDE			LONGITUDE			OUTFALL SIZE	RECEIVING WATER
		DEG	MIN	SEC	DEG	MIN	SEC		
WIM-334	25' W/O SAINT ANN'S AVENUE (RANDALLS IS - N)	40	48	6	73	55	20	12" DIA	Bronx Kill/Harlem River/East River
WIM-335	40' W/O SAINT ANN'S AVENUE (RANDALLS IS - N)	40	48	6	73	55	20	12" DIA	Bronx Kill/Harlem River/East River
WIM-336	E/O BROOK AVENUE (RANDALLS IS - N)	40	48	7	73	55	22	24" DIA	Bronx Kill/Harlem River/East River
WIM-559	OPPOSITE 120TH MANHATTAN (RANDALLS IS - W)	40	47	49	73	55	37	6" DIA	HARLEM RIVER

WIM-904	50' S/O FIRE TRAINING CENTER DOCK (RANDALLS IS)	40	47	25	73	55	3	6" DIA	EAST RIVER, UPPER
WIM-956	900' S/O TRIBOROUGH BRIDGE (RANDALLS IS - W)	40	47	55	73	55	39	24" DIA	HARLEM RIVER
WIM-977	150' S/O FIRE TRAINING CENTER DOCK	40	47	25	73	55	4	6" DIA	EAST RIVER, UPPER
WIM-2600	McCarron Dr	40	47	28	73	54	59	6" DIA	EAST RIVER, UPPER
WIM-2601	Outfall to East River, Upper	40	47	26	73	55	1	6" DIA	EAST RIVER, UPPER
WIM-2900	RANDALLS ISLAND PATHWAY	40	47	31	73	55	36	24" DIA	HARLEM RIVER
WIM-2902	NEAR ROBERT F. KENNEDY BRIDGE	40	48	0	73	55	36	8" DIA	Harlem River/Bronx Kill
WIM-2903	RANDALLS ISLAND PATHWAY	40	47	31	73	55	32	24" DIA	HARLEM RIVER

Municipal Compliance Certification

MCC form for period ending December 31,	2	0	2	4
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MS4 Annual Report Cover PageMCC form for period ending December 31,

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Provide SPDES ID of each permitted MS4 included in this report.

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MS4 Municipal Compliance Certification(MCC) Form

MCC form for period ending December 31, 2024

Name of MS4 CITY OF NEW YORK

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Section 2 - Contact Information

Important Instructions - Please Read

Contact information must be provided for each of the following positions as indicated below:

1. Principal Executive Officer, Chief Elected Official or other qualified individual (per GP-0-08-002 Part VI.J).
2. Duly Authorized Representative (Information for this contact must only be submitted if a Duly Authorized Representative is signing this form)
3. The Local Stormwater Public Contact (required per GP-0-08-002 Part VII.A.2.c & Part VIII.A.2.c).
4. The Stormwater Management Program (SWMP) Coordinator (Individual responsible for coordination/implementation of SWMP).
5. Report Preparer (Consultants may provide company name in the space provided).

A separate sheet must be submitted for each position listed above unless more than one position is filled by the same individual. If one individual fills multiple roles, provide the contact information once and check all positions that apply to that individual.

If a new Duly Authorized Representative is signing this report, their contact information must be provided and a signature authorization form, signed by the Principal Executive Officer or Chief Elected Official must be attached.

For each contact, select all that apply:

- ☒ Principal Executive Officer/Chief Elected Official
- ☐ Duly Authorized Representative
- ☐ Local Stormwater Public Contact
- ☐ Stormwater Management Program (SWMP) Coordinator
- ☐ Report Preparer

First Name

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MS4 Municipal Compliance Certification(MCC) Form

MCC form for period ending December 31, 2024

Name of MS4 CITY OF NEW YORK

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☐ Duly Authorized Representative
☐ Local Stormwater Public Contact
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☒ Report Preparer

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☐ Yes ☒ No

Submit a separate sheet for each partner. Information provided in other formats will not be accepted. If your MS4 cooperated with a coalition, submit one sheet with the name of the coalition. It is not necessary to include a separate sheet for each MS4 in the coalition.

[illegible][illegible]

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[illegible][illegible]

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[illegible]
$$(\begin{array}{|c|} \hline \\ \hline\end{array}) - \begin{array}{|c|} \hline \\ \hline\end{array}$$

with GP-0-08-002 Part IV.G.? ☐ Yes ☐ No

[illegible][illegible][illegible][illegible][illegible][illegible]

- *Watershed Improvement Strategy Best Management Practices* required for MS4s in impaired watersheds included in GP-0-08-002 Part IX.

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MS4 Municipal Compliance Certification(MCC) FormMCC form for period ending December 31,

2	0	2	4
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Name of MS4

CITY OF NEW YORK

SPDES ID

N	Y	0	2	8	7	8	9	0
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Section 4 - Certification Statement

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

This form must be signed by either a principal executive officer or ranking elected official, or duly authorized representative of that person as described in GP-0-08-002 Part VI.J.

First Name

M	e	l	i	s	s	a													
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MI

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Last Name

E	n	o	c	h															
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Title (Clearly print title of individual signing report)

A	S	S	I	S	T	A	N	T		C	O	M	M	I	S	S	I	O	N	E	R																		
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Signature

<i>MEnoch</i>

Date

0	9	/	3	0	/	2	0	2	5
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Send completed form and any attachments to the DEC Central Office at:

MS4 Permit Coordinator
Division of Water
4th Floor
625 Broadway
Albany, New York 12233-3505

nyc.gov/dep/ms4