BRONX COMMUNITY BOARD 8

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Laura Spalter, Chairperson — Ciara Gannon, District Manager

AMENDED MEETING NOTICE
ENVIRONMENT & SANITATION COMMITTEE

Date: **Wednesday, October 19, 2022**
Time: **7 PM**
Location: **Board Office**
5676 Riverdale Avenue, Suite 100

Join Zoom Meeting: **https://us02web.zoom.us/j/2114033690**

Join Zoom Meeting by Phone: **+16465588656** Pin: **2114033690#**

AGENDA

I. Roll Call

II. Approval of Minutes Meeting September 21, 2022

III. Chairperson Report

IV. NYC Department of Environmental Protection
Topic: "Unified Stormwater Rule"
Melissa Enoch, Managing Director, Infrastructure Planning & Partnerships

V. Old Business

VI. New Business

VII. Adjournment

Dr. Camelia Tepelus
Chair, Environment & Sanitation Committee

Unified Stormwater Rule

Informational Briefing

October 19, 2022

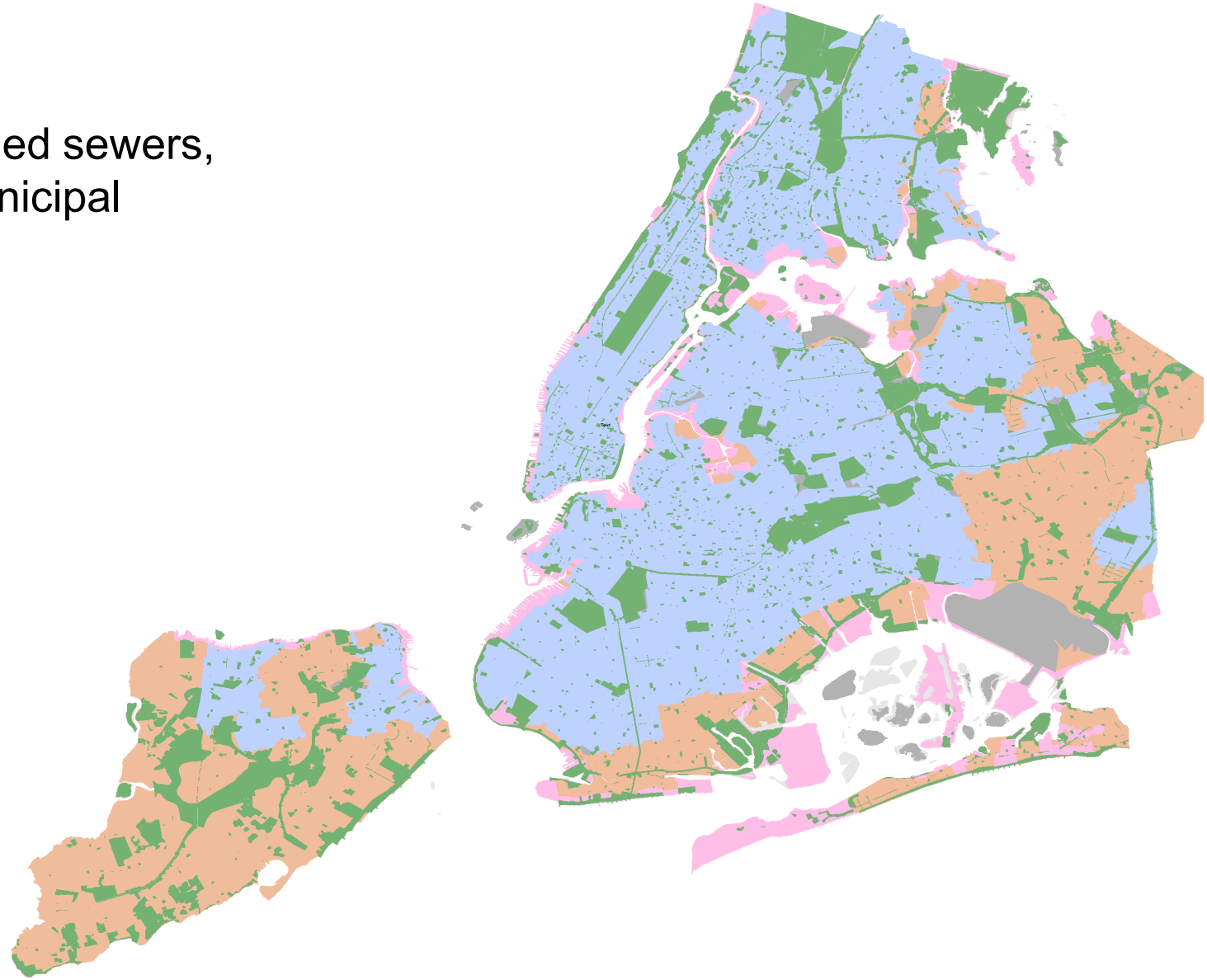
NYC Environmental Protection

USWR Regulatory Context

NYC Environmental Protection

NYC Sewer Drainage Areas

Approx. 60% of NYC is served by combined sewers, while 30 - 40% is served by the City's Municipal Separate Storm Sewer System (MS4)



Regulatory Context – Previous Rules

Ch. 19.1
Water Quality Requirements

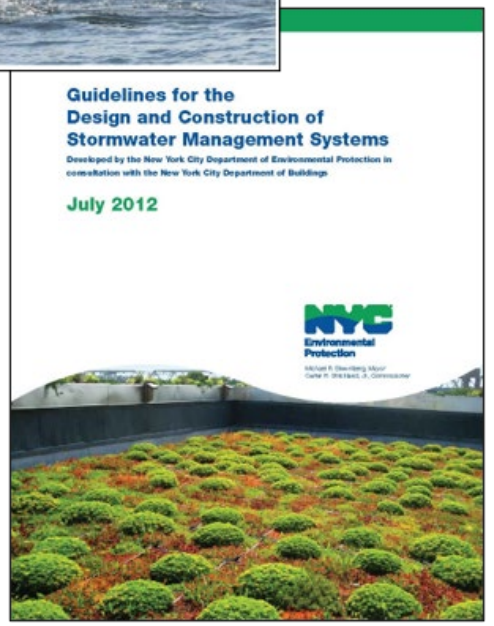
Ch. 31
Stormwater Quantity and Flow Rates

Stormwater Construction Permit

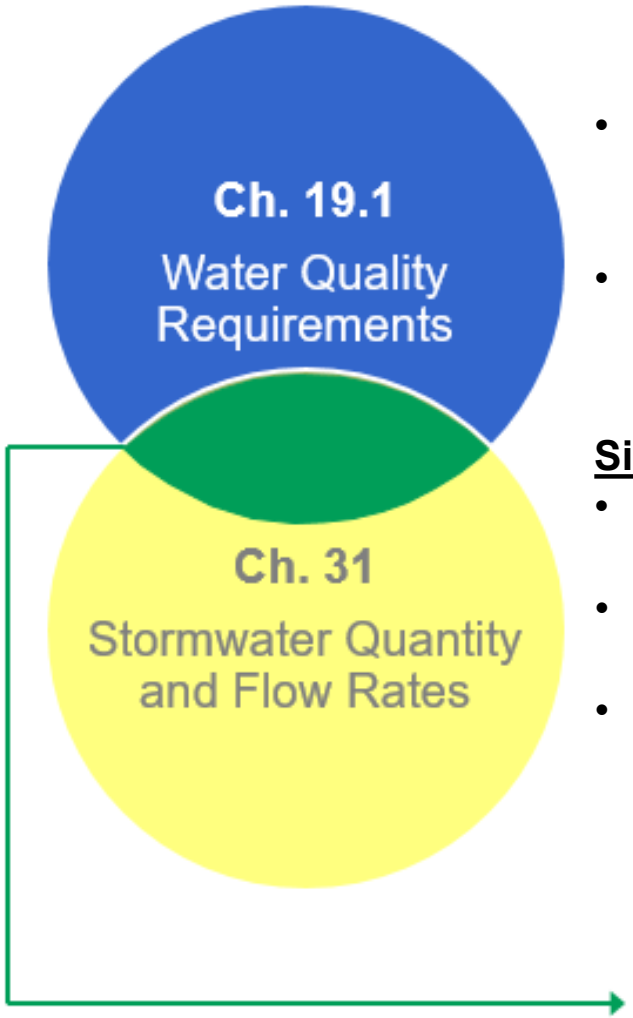
- Applied to **MS4 projects** that disturb 1 acre or more of soil
- Manage volume of 1.5-inch rainfall event

Site/House Connection Proposal

- Release rate and volume requirements based on allowable flow for site (varied based on location)
- Additional release rate requirements for **CSS projects,** per 2012 Stormwater Rule



USWR Overview

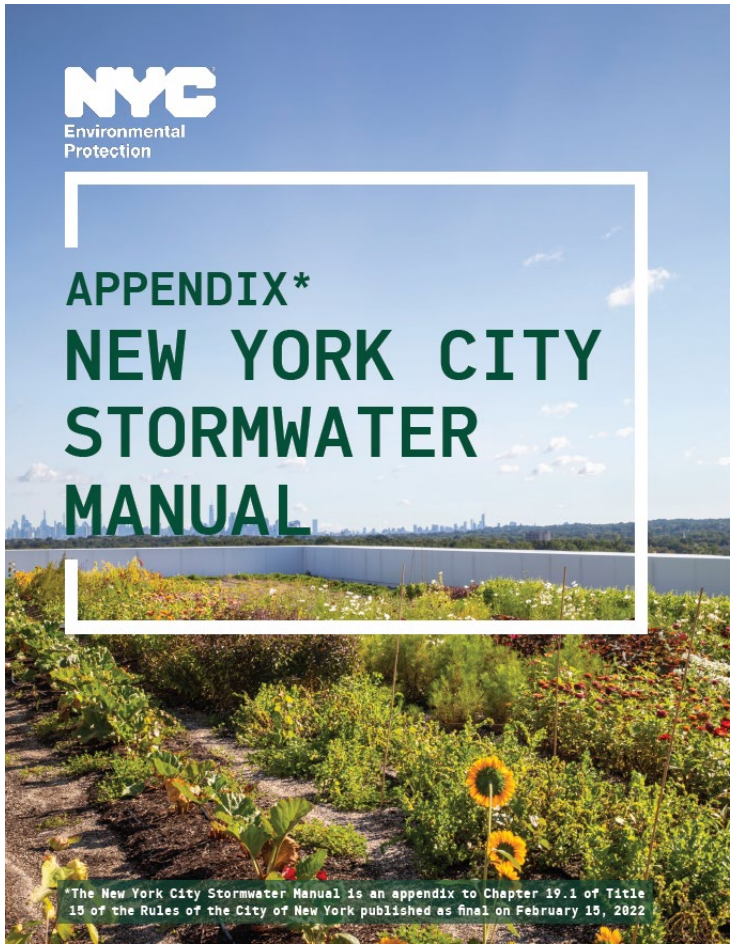


Stormwater Construction Permit

- Applies to **CSS/MS4 projects** that disturb 20,000 sf or more of soil, OR add 5,000 sf or more of new impervious area
- On-site projects must manage volume of 1.5-inch rainfall event using a new retention-first stormwater management practice hierarchy
- ROW projects also have construction and post-construction requirements

Site/House Connection Proposal

- Applies to **CSS/MS4 projects** that require a sewer connection proposal
- Projects must provide new detention volume and maximum-release rates
- Simplified formulas and change in minimum orifice size to streamline design



Clear guidance on how green infrastructure volume can be applied towards multiple goals

USWR Benefits

Aligns stormwater management regulations citywide and improves the way that new and redeveloped properties manage stormwater by requiring green infrastructure where feasible and updating detention volumes and controlled release rates for stormwater entering city sewers.

362 MGY CSO Volume Reduced
From new green infrastructure by 2030, contributing to CSO Order goals

10,515 Tons TSS* Removed
After 30 years of implementation, contributing to NYC MS4 Permit goals

Retention-First
Requires evaluation of stormwater retention/reuse to be the first option properties select

Design Flexibility
New stormwater management practice options and guidance to maximize design flexibility for development teams

Chapter 19.1 Applicability:

Requires compliance	Does not require compliance
≥ 20,000 sq ft of disturbance, submitted to DOB after 2/14/22	≥ 20,000 sq ft of disturbance, submitted to DOB before 2/15/22
≥ 1-acre of disturbance, submitted to DOB after 3/25/21 in CSS	≥ 1-acre of disturbance, submitted to DOB before 3/26/21 in CSS
≥ 1-acre of disturbance, in MS4	≥ 1-acre of disturbance, in MS4, that has coverage under State General Permit before June 1, 2019

Chapter 31 Applicability:

New § 31-09:
Does not apply to any site with a sewer availability certification issued prior to the effective date of USWR.

Except that
Does apply to any site located in a **rezoned area** and developing the site pursuant to the rezoning, even if applied for or received certification prior to effective date of USWR.

NYC Stormwater Manual

NYC Environmental Protection

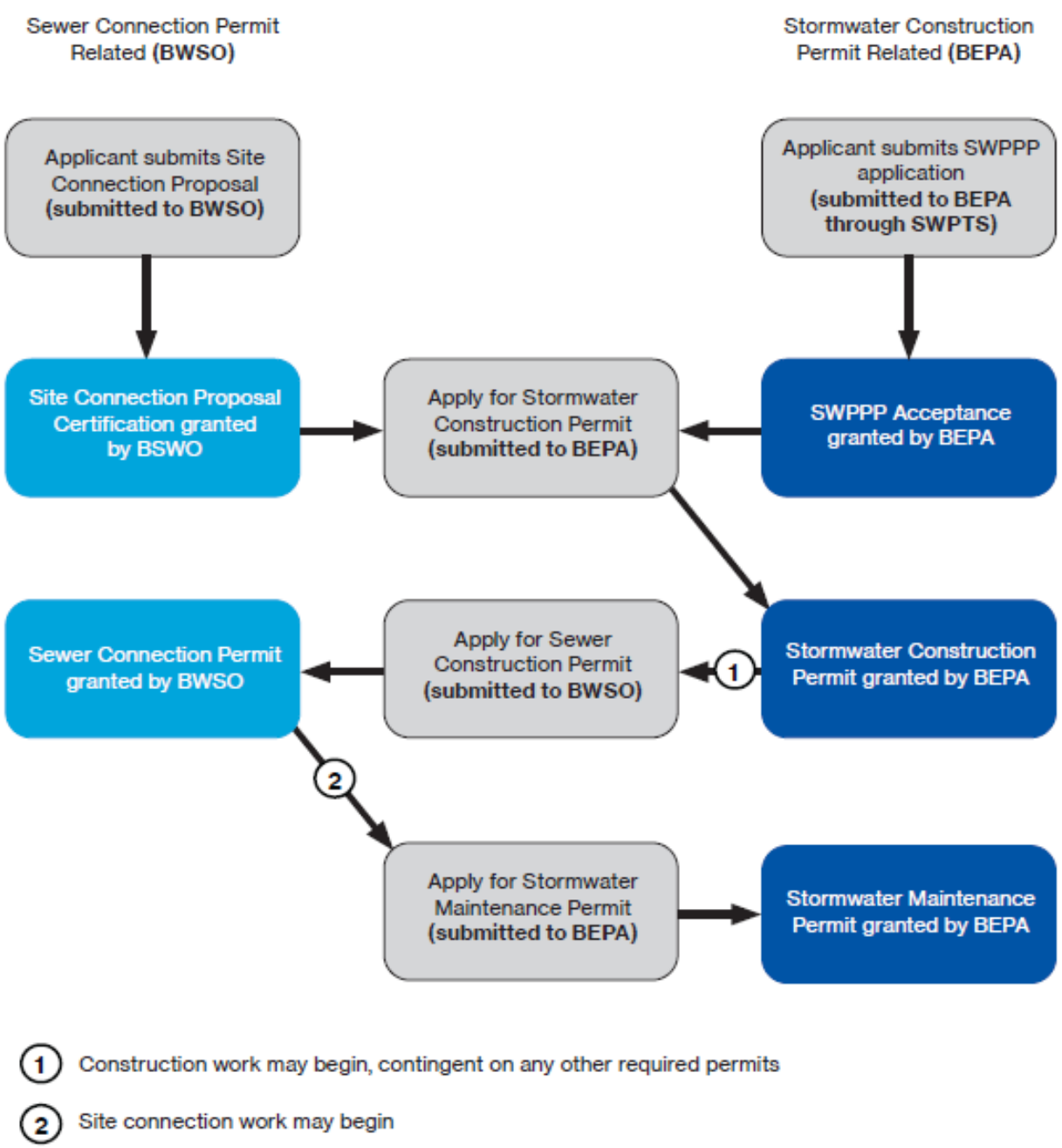
NYC Environmental Protection

APPENDIX*

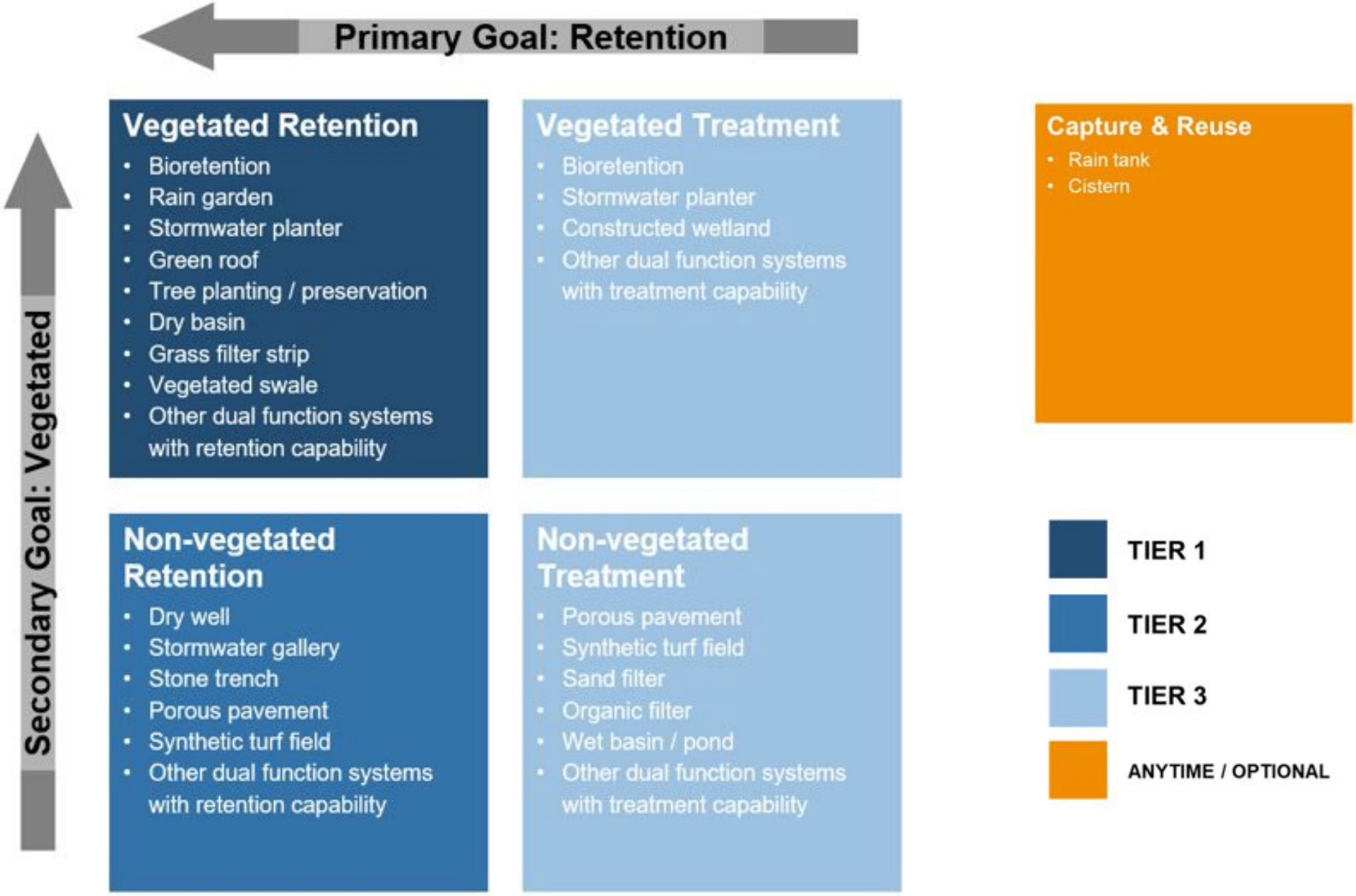
NEW YORK CITY STORMWATER MANUAL

USWR Permit Process

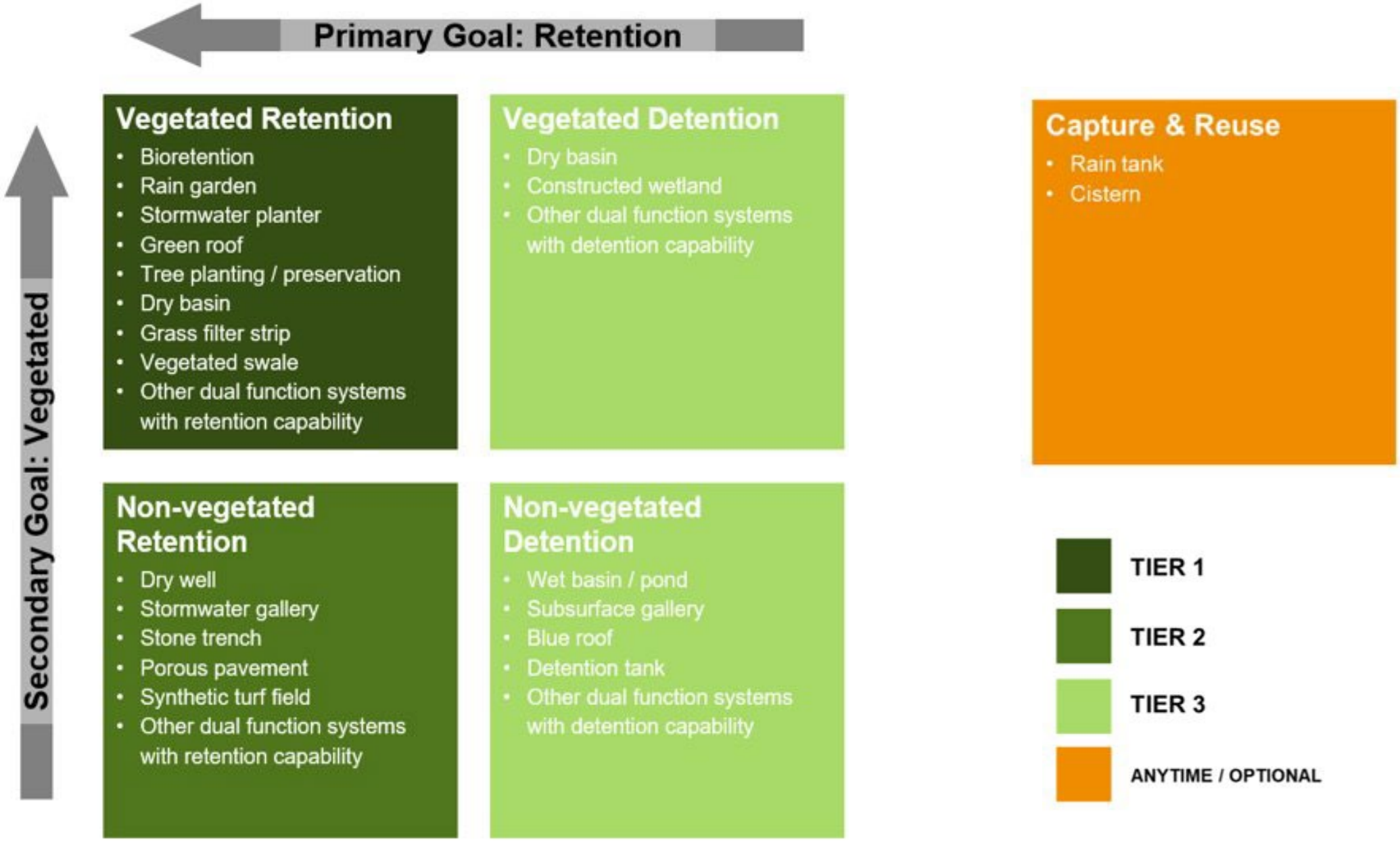
NYC Environmental Protection



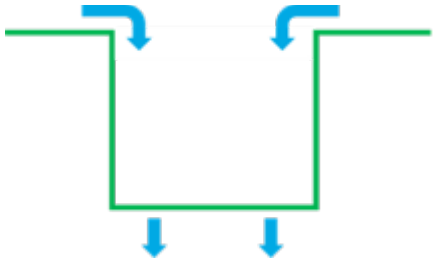
MS4 Area Hierarchy



CSS Area Hierarchy

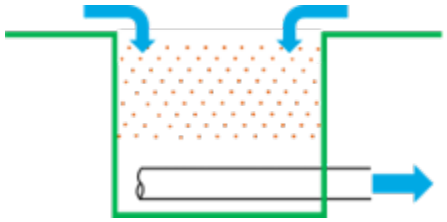


SMP Function Types



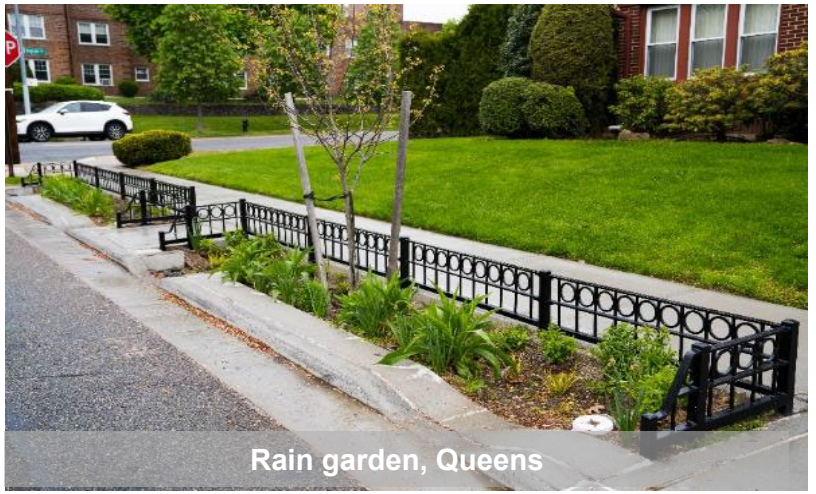
Infiltration

- Water is captured and infiltrated into the underlying soils, which is sometimes referred to as exfiltration.
- Relies on sufficient permeability rates of underlying soils. Practices do not use outlet pipes to drain water.
- Example: Bioretention, no outlet pipe

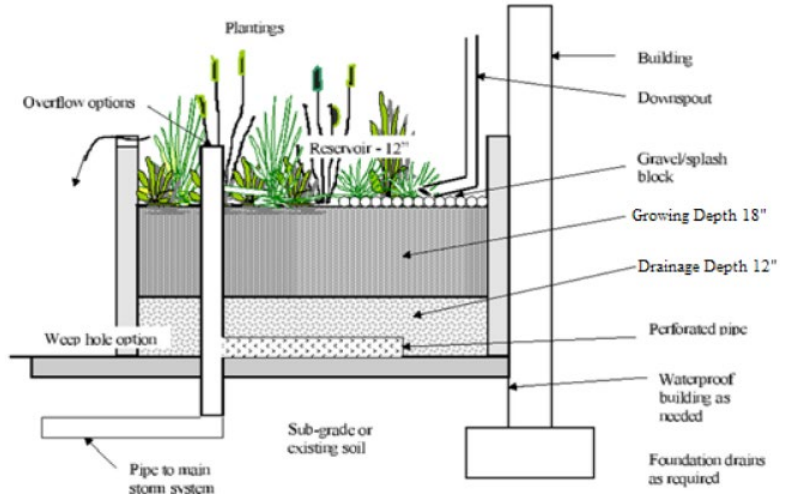


Filtration

- Water passes through a filtration media to remove various pollutants.
- Relies on steady flow of water through the filtration media. Practices have an outlet pipe to support filtration.
- Example: Sand filter



Rain garden, Queens

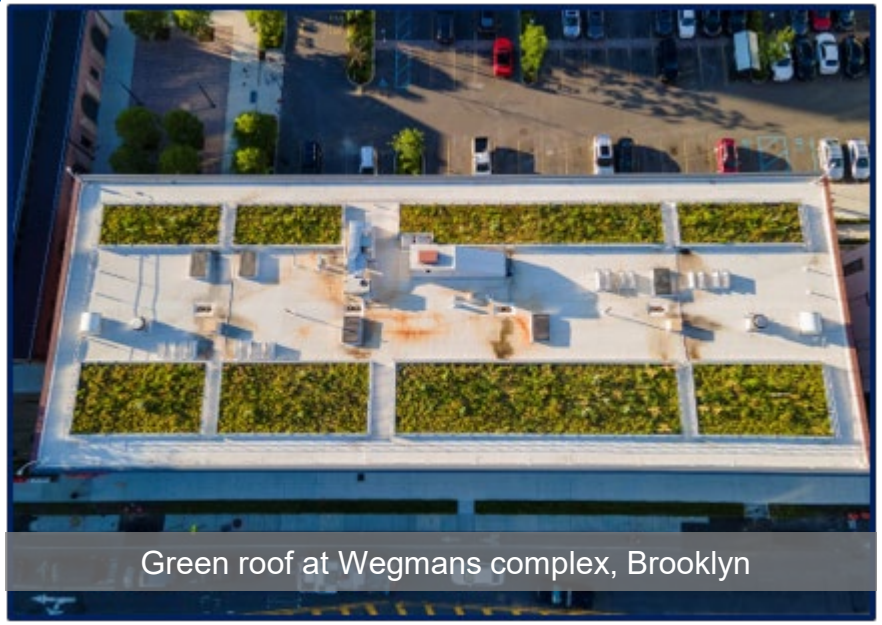


Filtration practice rendering

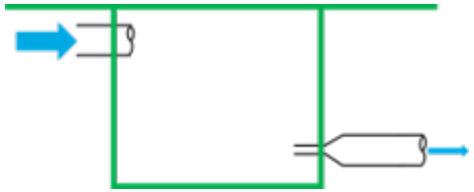
SMP Function Types

Evapotranspiration

- Water is captured and evaporated or transpired back into the atmosphere.
- Relies on ET occurring between rainfall events. Practices are usually shallow and have no or limited ability to infiltrate water.
- Example: Green roof



Green roof at Wegmans complex, Brooklyn

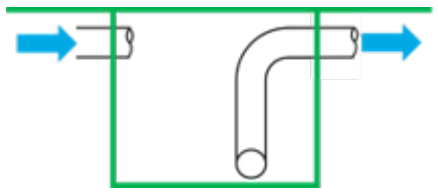


Detention

- Water is temporarily stored and released at a lower flow rate.
- Relies on ability to control release rate. Practices have a controlled-flow device, such as an orifice.
- Example: Detention tank

Subsurface detention system at Pink Playground, Brooklyn

SMP Function Types

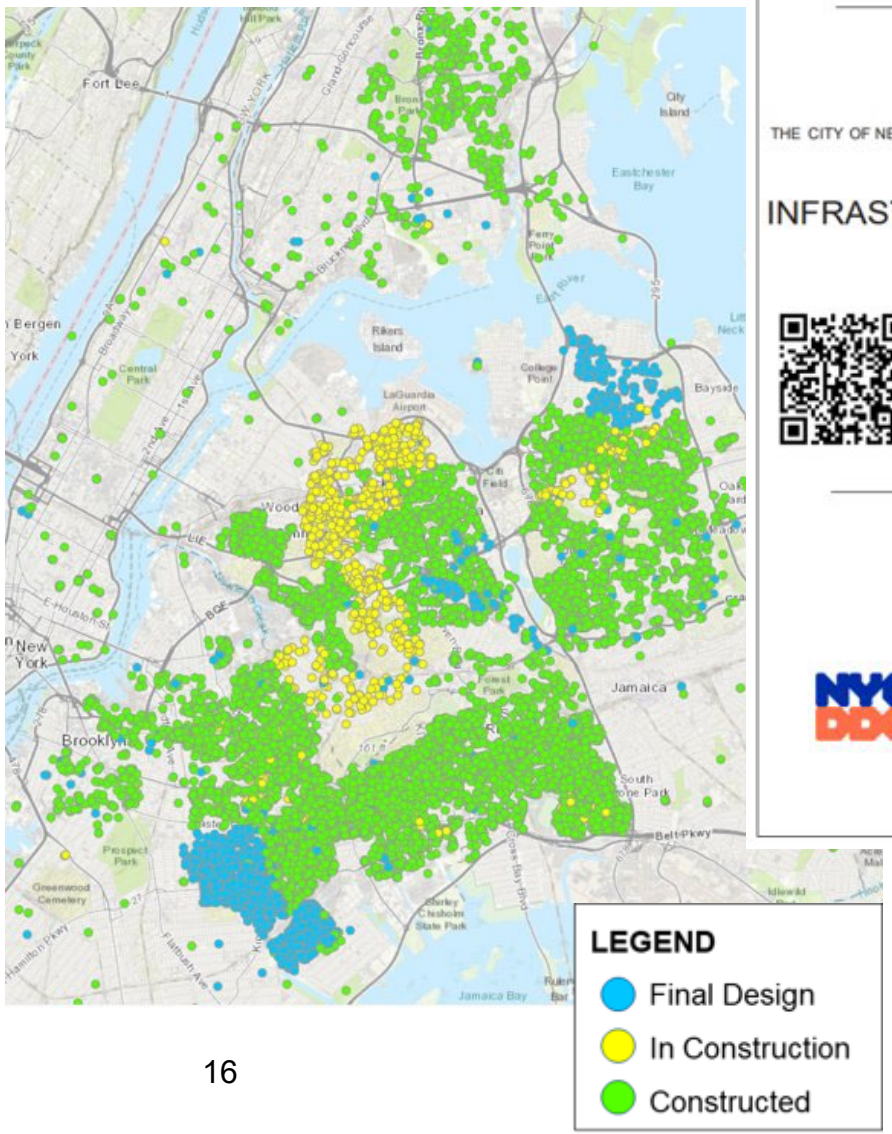


Reuse

•Water is captured and reused for non-irrigation purposes.
•Relies on continuous reuse of water. Practices can be integrated into existing non-potable and non-contact water uses.
•Example: Reuse in cooling tower

Stormwater reuse system at UA Local 1, Queens

NYC Green Infrastructure




INFRASTRUCTURE DESIGN STANDARDS

THE CITY OF NEW YORK DEPARTMENT OF ENVIRONMENTAL PROTE

STANDARD GREEN INFRASTRUCTURE SPECIFICATIC

September 1, 2021

Download this publication and all Specification Bulletin updates online:

https://www1.nyc.gov/site/ddc/resources/publications.page#

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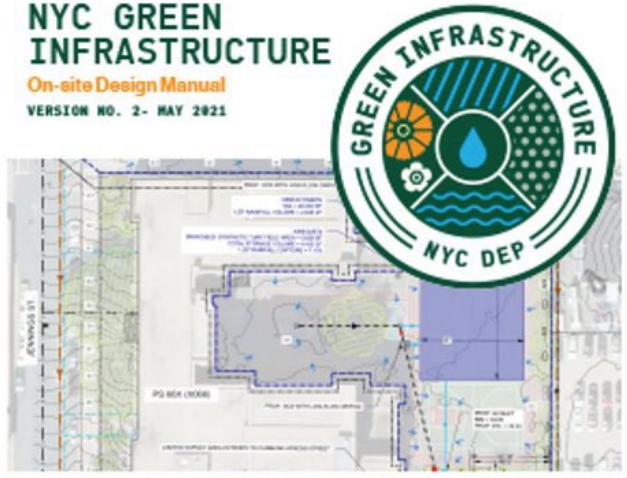
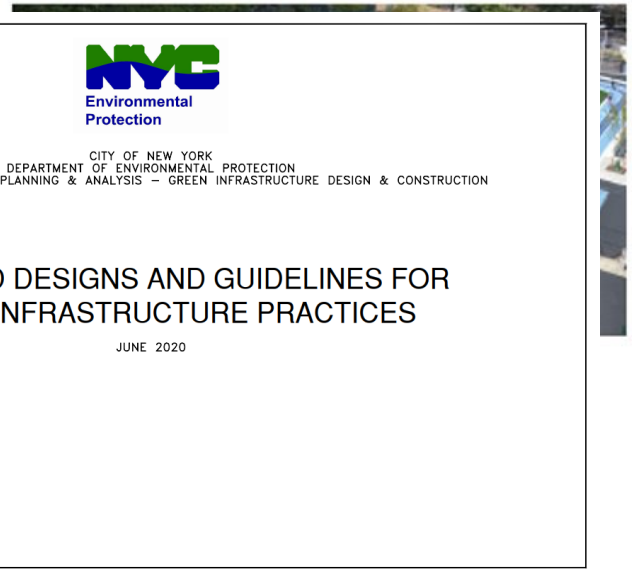


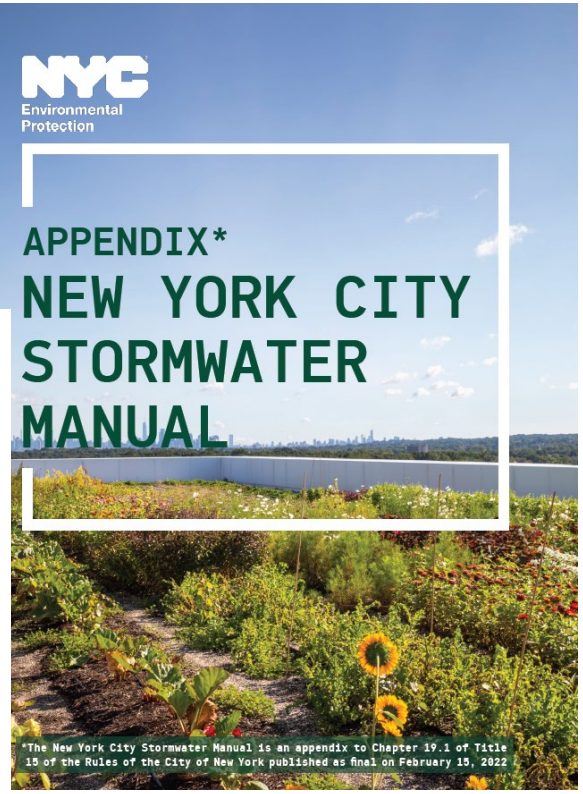

NYC Environmental Protection

CITY OF NEW YORK
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF ENVIRONMENTAL PLANNING & ANALYSIS – GREEN INFRASTRUCTURE DESIGN & CONSTRUCTION

STANDARD DESIGNS AND GUIDELINES FOR GREEN INFRASTRUCTURE PRACTICES

JUNE 2020

UPDATED: JUNE 17, 2020



NYC Environmental Protection

Resources

1. Unified Stormwater Rule Overview
2. Chapter 31
3. Chapter 19.1
4. NYC Stormwater Manual

Rain garden, Queens

Rooftop Farm at Corporate Commons Three, Staten Island

Questions?

Chapter 19.1 questions:

StormwaterPermits@dep.nyc.gov

Chapter 31 questions:
SewerInfo@dep.nyc.gov