

### NYC's First Bank and Available Wetland Mitigation Credits: Saw Mill Creek Pilot Wetland Mitigation Bank

#### New York City Economic Development Corporation (NYCEDC) Why us?

- NYCEDC is a quasi-governmental agency
- History:
  - 1966: New York City Public Development Corporation (PDC)
    - Sale and lease of City-owned property
    - Managed City's industrial parks and provided the City with urban planning services
  - 1979: Financial Services Corporation (FSC) Of New York City
    - Promote citywide business expansion by administering finance programs, such as direct loan programs
    - Assumed responsibility for the New York City Industrial Development Agency (NYCIDA), responsible was assisting industrial, commercial and not-for-profit firms in obtaining low-cost financing through the issuance of tax exempt bonds
  - 1991: New York City Economic Development Corporation (NYCEDC)
    - Formed by merging PDC and the FSC, and assumed the services previously undertaken by the merged corporations
    - Assumed economic development services previously performed by the <u>City's Department of Ports and Trade</u>



### **NYC'S CURRENT MITIGATION APPROACH** The Problem

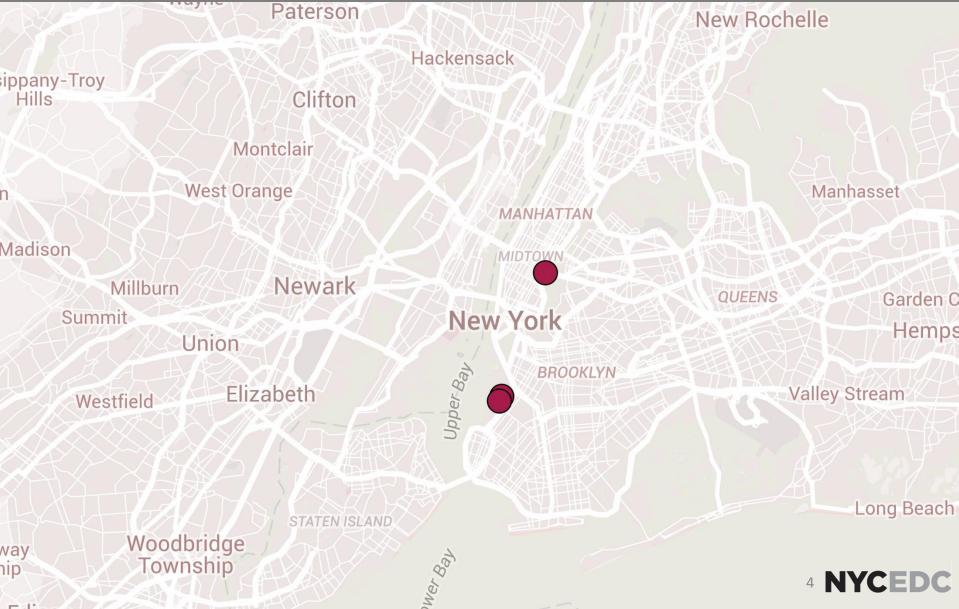
NYC's compensatory mitigation regulatory process creates acute economic and ecological inefficiencies:

- DEC and USACE permit offsets can cost up to \$4 million per-acre of mitigation
- On-site mitigation can require sacrificing useful assets (existing piers, bulkheads, etc.)
- Offset ratios are unpredictable ranging from 1:1 to 1:3
- Identifying mitigation opportunities is increasingly difficult in NYC

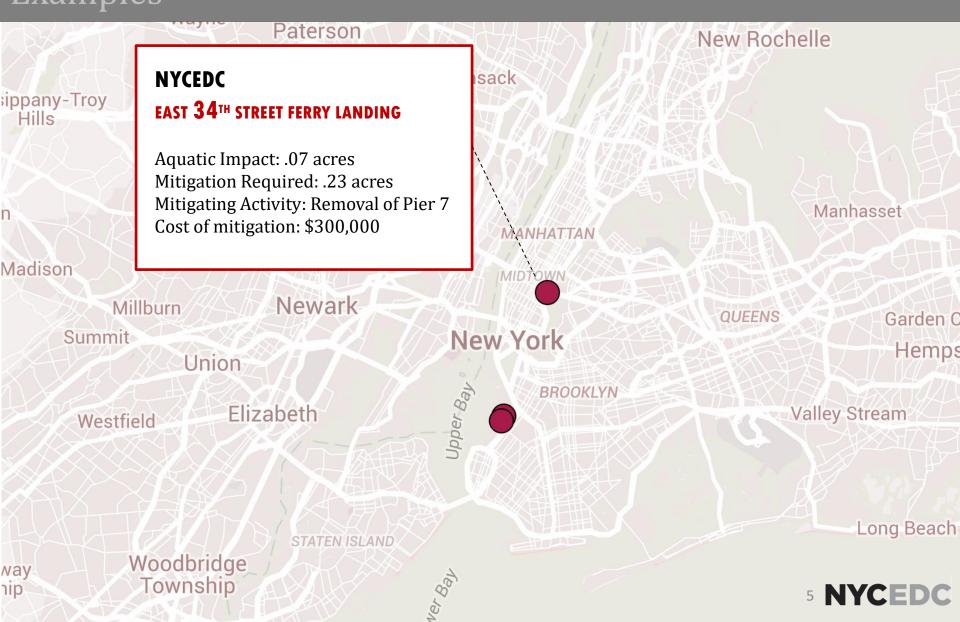


## NYC'S CURRENT MITIGATION APPROACH

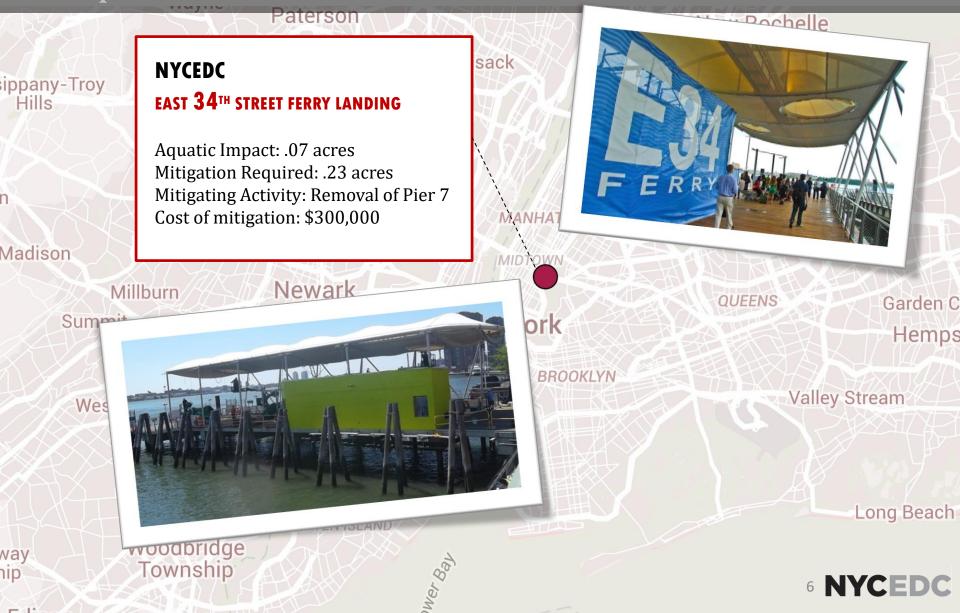
#### Examples



#### NYC'S CURRENT MITIGATION APPROACH Examples

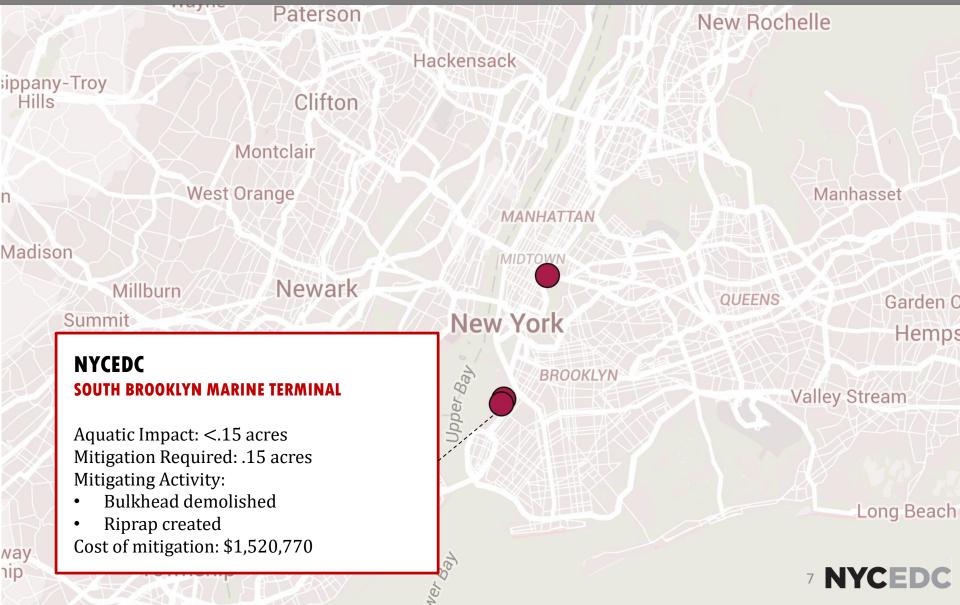


### NYC'S CURRENT MITIGATION APPROACH Examples



# NYC'S CURRENT MITIGATION APPROACH

### Examples



#### NYC'S CURRENT MITIGATION APPROACH Examples

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West Oral

sippany-Troy Hills

Madison

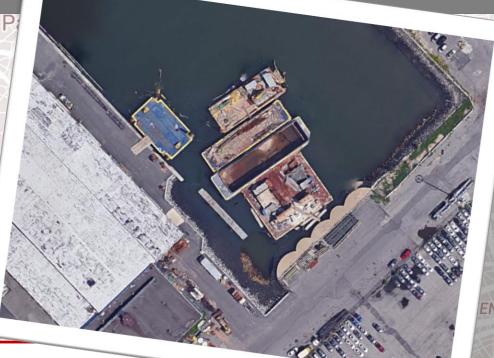
way hip Millburn Summit

#### NYCEDC SOUTH BROOKLYN MARINE TERMINAL

Aquatic Impact: <.15 acres Mitigation Required: .15 acres Mitigating Activity:

- Bulkhead demolished
- Riprap created

Cost of mitigation: \$1,520,770



BROOK

r Bay

Manhasset

helle

Garden C Hemps

Valley Stream

Long Beach



#### MITIGATION BANKING Pilot Solution

#### "Economies of Scale" and "Ecologies of Scale"

- Federal rule on mitigation banking prefers mitigation banks over permittee-responsible mitigation
- Third-party restoration in advance generates "credits" which are acquired for project permits requiring offsets for impacts to tidal wetland
- Mitigation banks can be developed by public agencies, private sector, or through P3s
- Advantage of credits is they allow for faster and cheaper permitting
- Verifiable, market-based mechanism for wetland and coastal resource replacement



#### MITIGATION BANKING Pilot Goals

- 1. Assess feasibility of mitigation banking in NYC; inform time, cost, and ecological impact of a pilot bank in the Nation's most urbanized counties
- 2. Inform normative baselines and provide technical standards for how banking compensatory mitigation in NYC can operate
- 3. Establish a mitigation credit market in NYC to compel private entrepreneurs to invest in restorations in the City



### **SAW MILL CREEK PILOT MITIGATION BANK** Process

Development, Design, & Regulatory Approvals Restoration Stewardship

- 1. Prospectus:
  - Overview of Project and Service Area
  - Public Comment
- 2. Mitigation Banking Instrument
  - Restoration Plan
  - Ecological Performance Measures
  - Monitoring and Maintenance Protocols
  - Long-term Stewardship Mechanism
  - Credit System and Schedule for Release
- 3. Permits
  - Environmental Review
  - Public Comment



#### **SAW MILL CREEK PILOT MITIGATION BANK** Project Permitting History

- December 2012 <u>RFP released</u> for design and permitting team in December 2012
- March 2013 After competitive procurement Louis Berger starts work on project with NYCEDC
- May 2013 First meeting of Interagency Review Team (IRT)
- August 2013 Sediment sampling occurs
- November 2013 Draft-Prospectus noticed
- February 2014 Prospectus finalized
- June 2014 Supplementary sediment sampling occurs
- January 2015 Public notice of NYS DEC and USACE permits
- April 2015 agencies noticed of start of NEPA-Environmental Assessment (EA)
- July 2015 City Environmental Quality Review Negative Declaration issued
- **September 2015** <u>NYS DEC issues permits</u>
- December 2015 USACE signs MBI
- November 2016 IRT reconvenes to discuss USACE permit
- February 2017 notice of NEPA EA-Finding of No Significant Impact (FONSI)
- March 2017 USACE issues permit with sampling permit conditions



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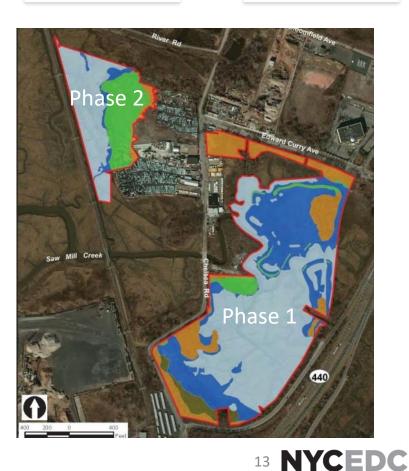
Development, Design, & Regulatory Approvals



Establishmen

Long-Term Stewardship

- Phase 1: 53.94-acre site on west shore of Staten Island, part of 100+ acre marsh complex
- Phase 2: 14 acres
- City-owned under DPR jurisdiction
- Site historic tidal wetland and portions severely degraded
  - Historic fill, dumping, and debris
  - Mosquito ditching
  - Invasive species



### SAW MILL CREEK PILOT MITIGATION BANK Phase 1: Capital Project Summary

#### Restore Wetland (Rehabilitation and Re-Establishment)

- Remove historic fill-material
- Re-plant native wetland flora

#### Enhance Tidal and Forest Habitat

Remove invasive species, garbage, and debris

#### **Creates Mitigation Credits**

- 12.92 credit acres of impact
  - Project expands to phase II West Side with availability of future funds

#### Step 1

Establish Fauna Baseline Tissue Test

Step 2

Excavate 39,449 CY of Material

#### Step 3

Test for clean sediment at final grade

#### Step 4

Plant 26.06 acres of new vegetation



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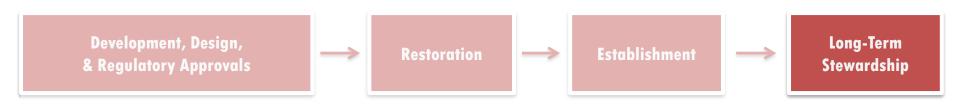


- Five year period in which Saw Mill Creek is continuously monitored to demonstrate that performance standards have been met
- Sediment and Biota Sampling
- After this five year period ends and all credits are sold bank closes





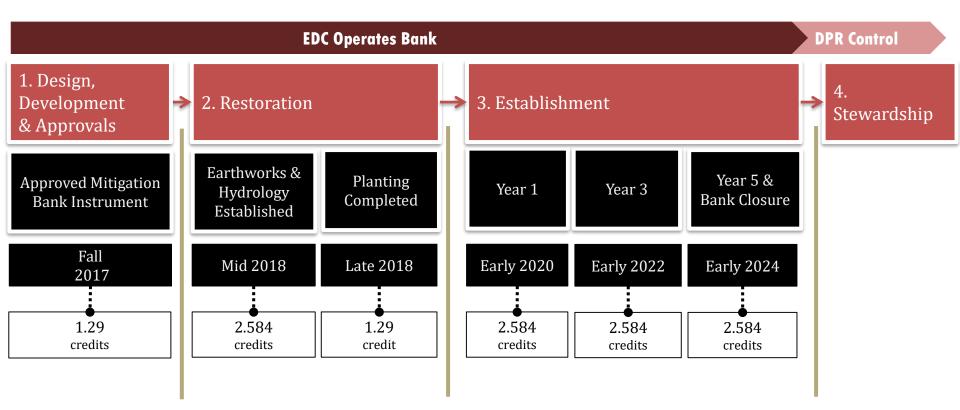
#### **SAW MILL CREEK PILOT MITIGATION BANK** Process



- NYC Parks will be the long term steward of the site; maintaining site function and keeping invasive species at bay.
- The site will be periodically inspected to ensure that it continues to function, tracking the wildlife, vegetation, and stream flow.
- Agreement with Parks for long-term steward with initial capital is required

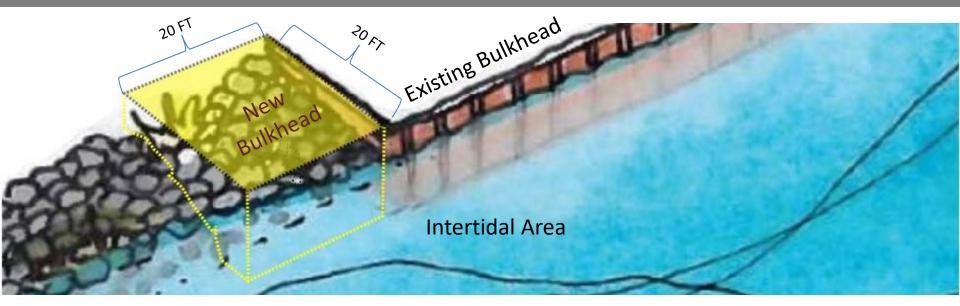


### SAW MILL CREEK PILOT MITIGATION BANK Project Schedule





### **SAW MILL CREEK BANK** What is a credit?



- 1 Credit equals 1 acre (43,560 SQFT) of impact
- Every in water construction project is different
- Mantra: Avoid, Minimize, Mitigate

Hypothetical Example:

- 20 FT of bulkhead extending 20 FT into water could be calculated as 400 SQ FT of impact
- 400 SQFT/43,560SQFT= .0092 credits

#### **SAW MILL CREEK BANK** City Cost Savings

PROJECT REQUIRING MITIGATION	AGENCY	IMPACT (ACRES)	MITIGATION (ACRES)	MITIGATION ACTIVITY	COST OF MITIGATION ACTIVITY	COST OF EQUIVALENT MITIGATION CREDITS*
East 34th Street Ferry Landing	NYCEDC	0.07	0.23	Removal of Pier 7	\$300,000	\$105,000
South Brooklyn Marine Terminal	NYCEDC	0.15	0.15	Bulkhead demolished, rip-rap created	\$1,520,770	\$225,000
Calvert Vaux Phase I and Dreier Offerman Habitat Restoration Project	Parks	1.4	1.4	Soil remediation, wetland planting, permeable pavement	\$2,539,760	\$2,100,000
Southwest Brooklyn Converted MTS	DSNY	0.91	0.91	Sunset Cove wetland and habitat creation	\$910,000	\$1,365,000
North Shore Converted MTS	DSNY	3.85	3.85	Pugsley Creek marsh creation, Hamilton Ave MTS demolition, Bush Terminal Piers shallow water habitat and debris removal, Fresh Kills Barge removal	\$16,295,036	\$5,775,000
East 91st Street Converted MTS	DSNY	2.15	2.15	South Bronx MTS demolition, Bush Terminal Pier 4 demolition, Fresh Kills Mooring Rack Walkway removal, Sunset Cover restoration	\$4,753,773	\$3,225,000

\*Assumes \$1.5M cost to create credit

#### **SAW MILL CREEK BANK** Open For Business

- A **Request for Proposal** (RFP) is now available for interested parties to acquire Credits from the Saw Mill Creek Pilot Wetland Mitigation Bank.
  - Credits are eligible only for tidal wetland impacts
  - Credits are available for usage in NYC only
  - Any Credit fraction may be acquired

**RFP Submission Deadlines:** 

-November 28, 2018 4:00pm

- Approximately every three months there after thru 2020

 Respondents should <u>confirm directly with federal and state regulators</u> that Credits and Credit quantities from the Saw Mill Creek Pilot Wetland Mitigation Bank address Respondents' specific project permit mitigation requirements.

> The RFEI is available for download at WWW.EDC.NYC/RFP

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