



BRONX COMMUNITY BOARD 8

5676 Riverdale Avenue, Suite 100 • Bronx, New York 10471-2194

Phone: (718) 884-3959 • Fax: (718) 796-2763

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Ciara Gannon, District Manager

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Economic Development
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Traffic & Transportation
Kelli Buford

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Julia Gomez

AMENDED MEETING NOTICE **ENVIRONMENT & SANITATION COMMITTEE**

Date: **Tuesday, January 3, 2023**
Time: **7 PM**

Location: **Bronx Community Board 8 Office**
5676 Riverdale Avenue, Suite 100

(BXCB8 E&S appointed members expected to attend in person)

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

Join Zoom Meeting by Phone: **+16465588656**

Pin: **2114033690#**

AGENDA

- I. Roll Call
- II. Approval of Committee Meeting Minutes – November 16, 2022
- III. Chairperson Report
 - **BXCB8 E&S Submission to New York / New Jersey Harbor and Tributaries Feasibility Study (NYNJ HATS)**
- IV. NYC Department of Environmental Protection
 - **Presentation on the Jerome Reservoir and Aqueduct (JRAQ) Rehabilitation Project**
- V. Old Business
- VI. New Business
- VII. Adjournment

Dr. Camelia Tepelus
Chair, Environment & Sanitation Committee

January 4, 2023

Mr. Bryce W. Wisemiller, Project Manager
U.S. Army Corps of Engineers New York District
Jacob K. Javits Federal Building, Room 17-401

Ms. Cheryl R. Alkemeyer, NEPA Lead
U.S. Army Corps of Engineers
New York District
Jacob K. Javits Federal Building, Room 17-420

c/o PSC Mail Center
26 Federal Plaza
New York, New York 10278

via email to: nynjharbor.tribstudy@usace.army.mil

Please find attached the submission of the Bronx Community Board 8 Environment and Sanitation Committee to the New York / New Jersey Harbor and Tributaries Feasibility Study (NYNJHATS) project of the US Army Corps of Engineers.

We appreciate US ACE consideration to our feedback for this important project.

Sincerely,

Laura Spalter
Chairperson
Bronx Community Board 8

Dr. Camelia Tepelus
Chairperson
Environment & Sanitation Committee

Bronx Community Board 8 Comments on the NYNJHATS Tier 1 Feasibility Study, for Submission to the NYNJHATS Project of the USACE

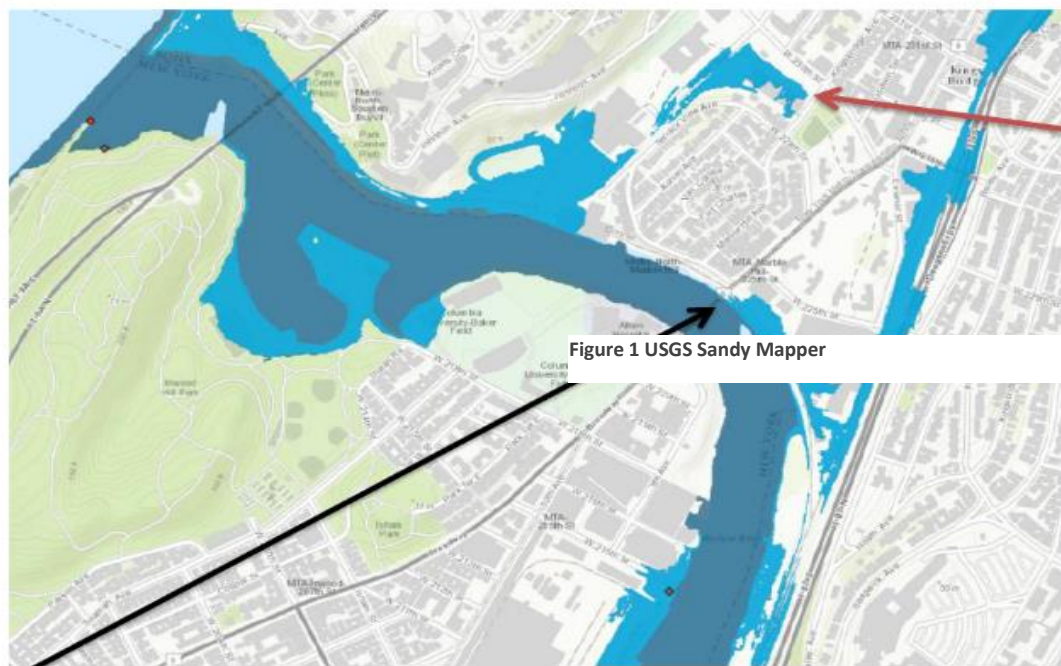
This report was drafted by the Water Working Group of the Environment and Sanitation Committee of Bronx Community Board 8 (CB8), and approved by the CB8 Environment and Sanitation Committee on January 3, 2023, to be provided as input to the NYNJHATS project of the US Army Corps of Engineers (ACE).

Summary

This submission is in response to the United States Army Corps of Engineers (ACE) New York New Jersey Harbor and Tributaries Study Tier 1 Feasibility Study (HATS), and its impacts on the community within the Bronx Community Board 8 district, Bronx County, NY.

The Tentatively Selected Plan (TSP) chosen, or “Alternative 3B, is a Multi-basin Storm Surge Barriers with Shore-Based Measures.” The TSP includes a combination of coastal storm risk management (CSRM) measures that function as a system to manage the risk of coastal storm damage in the New York Metropolitan Area, including a combination of shore-based and in-water measures.

USGS SANDY MAPPER: Spuyten Duyvil, Harlem River, Kennedy HS, Putnam Rail



These measures, located within the Hackensack/Passaic, Upper Bay/Arthur Kill, Lower Hudson/East River, Long Island Sound and Jamaica Bay Planning Regions, **appear to potentially neglect important low-lying areas of the Bronx** – a major part of which is home to many low-income and historically disadvantaged communities.

Despite the assertion that the TSP measures include complementary “Induced Flooding-Mitigation Features and Risk Reduction Features as well as nonstructural measures and natural and nature-based features”, the Bronx CB8 finds these to possibly be insufficient in alleviating flooding risk and damage.

Moreover, the study insufficiently taking of a watershed approach to the feasibility study, misses important unintended implications, such as additional pressure and water volume management to and from the north.

1. Bronx CB 8 during Superstorm Sandy

During the 2012 Super Storm Sandy event, the surge along the Harlem River extended north to 238th Street on the land — specifically along the old Putnam Railroad bed, and into a spot along the picnic area at the lower edge of the Van Cortlandt Park — near the lower wetlands. One could imagine that there was a reason that the surge did not turn left to the Hudson. The Spuyten Duyvil Metro North station was under water, indicating the surge from the lower Hudson (significantly deeper than the Harlem River), was stronger. Most likely, both rivers and the wind contributed to what happened. Thankfully the surge did not come at high tide. We cannot count on the low tide from the next storm surge.

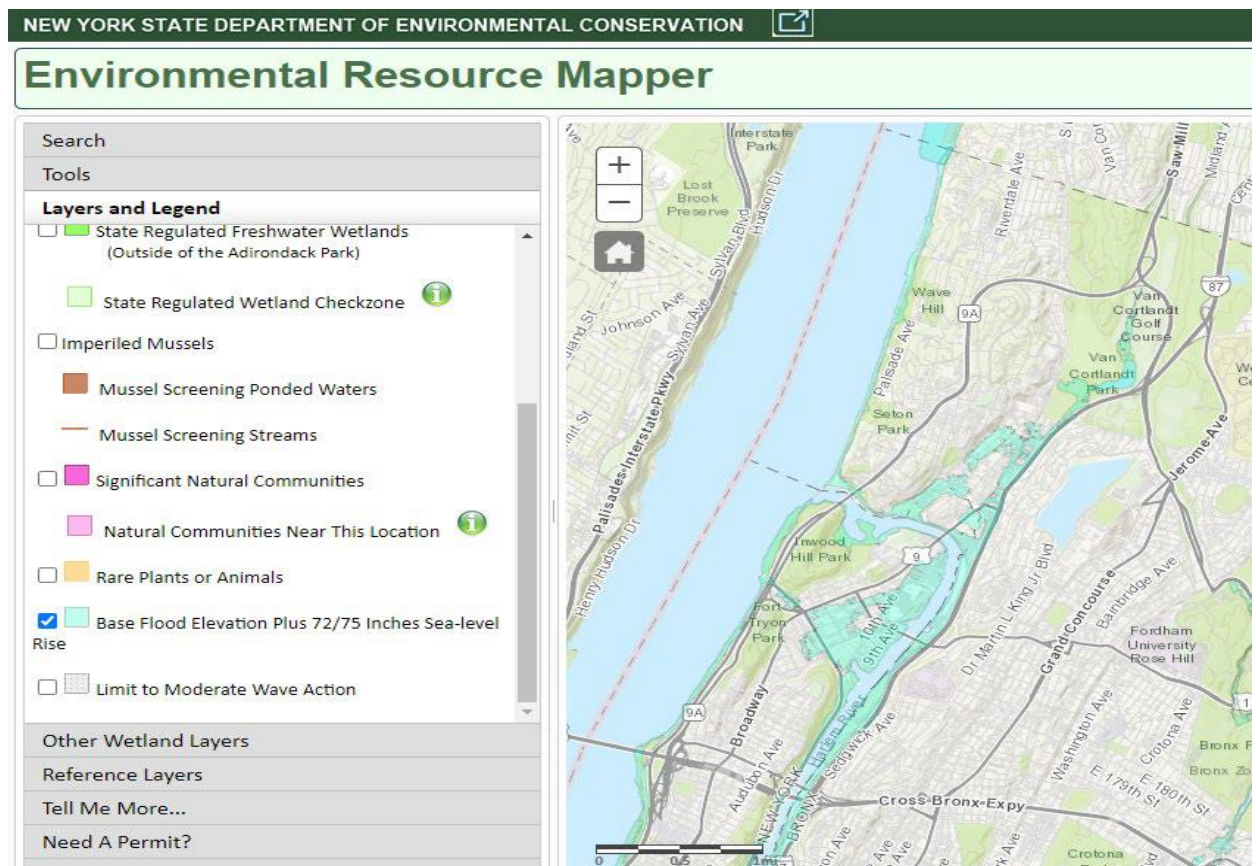
2. Bronx CB8 Current Conditions

The 56 acres of freshwater wetlands in Van Cortlandt Lake/Pond, wetlands and buffers are protected by NYS Department of Environmental Conservation. The Army Corps of Engineers is required under section 404 of the Clean Water Act to protect wetlands and our waterways.

In 2012, there was more parkland and undeveloped space south of CB8 along the Bronx side of the Harlem River than there is now. The entire South Bronx waterfront from Lincoln Avenue to 152nd Street is currently completely developed. During Super Storm Sandy, this area was under 8 inches of water.

In CB8, there has also been a large increase of housing development adjacent to the area of the 2012 surge. The increased development with little or no additional infrastructure, may explain the severe flooding during 2021 Ida Remnant — with tens of cars blocked under water on the Major Deegan Highway.

3. Tibbetts Brook



Watershed Project, Largest Green Infrastructure Project in NYC

Figure 2 NYS DEC Environmental Resource Mapper

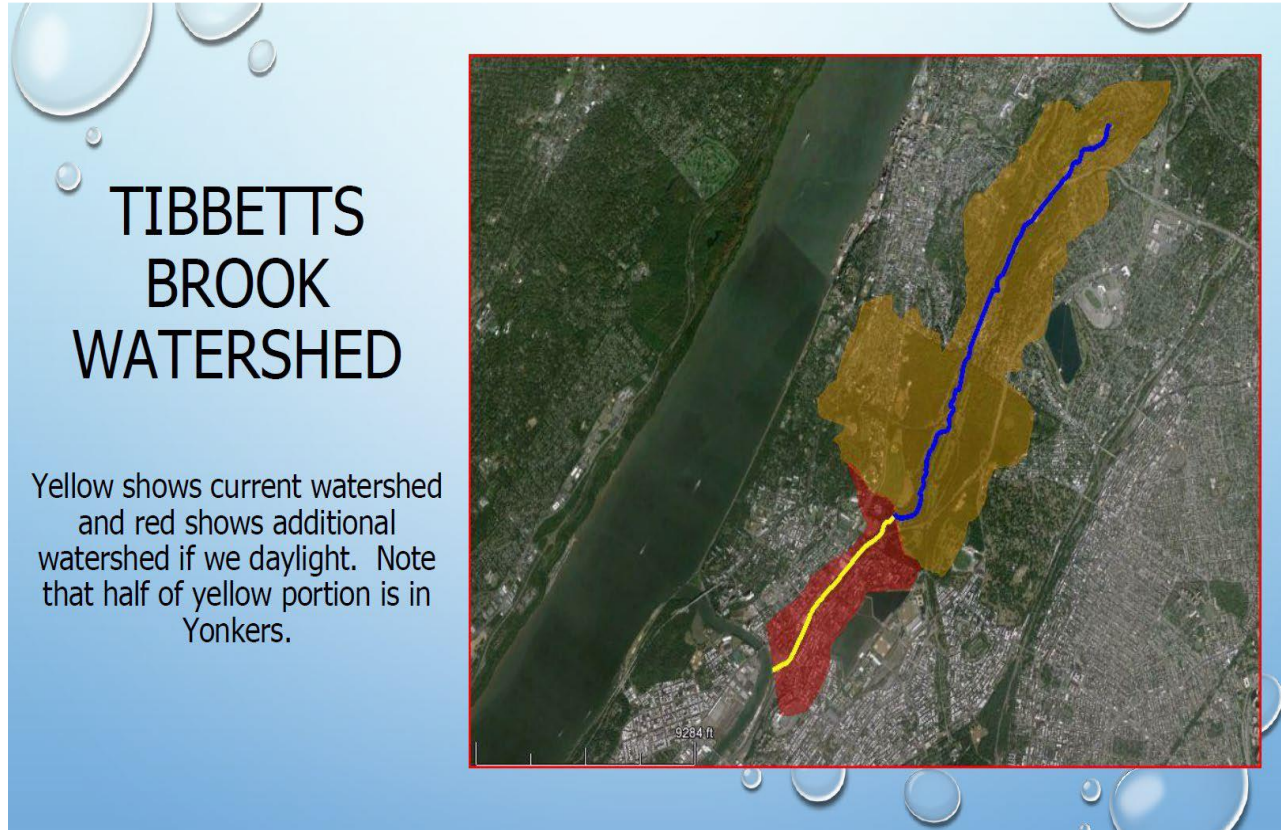
The Daylighting of Tibbetts Brook is a NYC DEP-led project aiming to daylight Tibbetts Brook currently diverted into the NYC sewer system. The project is anticipated to be completed in 2025, at a time when the Tier 2 of the NYNJHATS study may also be available. The main need for the Tibbetts Brook Daylighting is to partially alleviate chronic flooding that already exists along both the west side of the Broadway commercial corridor, and on the east side toward the Major Deegan Highway.

One hundred years ago the area was all wetlands. As the City grew, those wetlands were filled in. Even then, the water was so high, that excess water had to be drained from the Van Cortlandt Park Lake into the sewer system. Since that time, four major highways were developed to cross the park, including the Saw Mill River Parkway extending from Yonkers, NY.

Development did not only come from the south. The built-up areas of the Tibbetts Brook watershed in Westchester County added to the extremely high-water table within Van Cortlandt Park. From work of the NY City Department of Environmental Protection, 65% of the water entering Van Cortlandt Park wetlands comes from Yonkers.

We are concerned that the mitigations discussed in the current version of the study will have a direct impact on Van Cortlandt Lake once the daylighting project is completed due to blocking outfalls and increasing storm surge by directing more water north.

Figure 3 Friends of Van Cortlandt Park power point



4. Bronx CB8 Combined Sewer Overflows (CSO) Concerns

We are concerned the changes you propose will direct more water north, directly at the area of Bronx CB8 district, and increase pressure against the outbound water from CSO outfall, WI-056.

This is the largest discharge in the city (and is half the discharge of the other 72+ Harlem River outfalls). Each day, there are new pipes connected to discharge into the Harlem River with the new buildings going up.

It seems like a modicum of softening of the shore through additional plant matter and recreating the wetland natural edge would be highly impactful, creating a natural absorption and drainage buffer to the water line.

5. Engineering with Nature / Nature Based Natural Features / Green Infrastructure (GI)

We acknowledge that the risk of flooding is not manageable by Green Infrastructure alone. We understand that one tree alone cannot help, but a forest might. We are not talking about a simple bioswale or bioretention garden. Just like the power of a tree can be expanded to a forest, a continuous linear rain garden living shoreline can be envisioned and built.

Furthermore, the Bronx lost shoreline over the years. It's also worth noting that the best way to get a walking/bike connection between the Harlem River Greenway and the Hudson River Greenway would be a walkway extension over the water with green infrastructure and plant matter underneath.

A project similar to this tide deck in Manhattan could be considered: <https://hudsonriverpark.org/locations/pier-26/>



Figure 4 Tide Deck in Hudson River Park

RECOMMENDATIONS

The main recommendation of the Bronx CB8 is for US ACE to consider studying the impact of the additional water volume on the northern bank of the Harlem River to mitigate against stormwater backups in the Northwest Bronx.

This study should compare the impacts and costs of different options into softening the role of the hard edge, with a natural shoreline along our most southern waterfront along the Metro North tracks. The study should also review the hydraulic pressure of a surge in the Hudson River, to ascertain if it forces more water through the Spuyten Duyvil "Creek" and over to the Harlem River.

In addition, along the Hudson are outfall pipes at the western edge of CB8. We anticipate that by the time the Tier 2 study would take place, there will be additional large construction including building Continuing Care Residential Centers close to the Hudson River shoreline both upland and inland. It is also worth noting that, during Hurricane Sandy the Westchester County Sewer Treatment Plant in Yonkers discharged contents into the Hudson.

The potential confluence of the increased volume and pressure to the northeast may result in greater flooding than would ever occur, absent these forces. The concern here is that every action has an equal and opposite reaction, and communities such as the Bronx CB8 neighborhoods abutting both Hudson and Harlem Rivers will be impacted negatively.

Finally, we urge USACE to consider further reviewing the existing plan and incorporate an approach that is more watershed-based, to complement existing risk management plans for NYC. We also USACE to consider configurations of the shore lines using 'engineering with nature' techniques, rather than an excessive reliance on concrete-barriers, impacting greenhouse gases.

We appreciate US ACE consideration to this submission of the Bronx CB8 Environment and Sanitation Committee.

Bronx Community Board 8

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DOT Truck Route

-  Limited Local
-  Local
-  Through

Best Usage Classification

-  Bathing, Boating, Fishing, Shellfishing (SA)
-  Bathing, Boating, Fishing (SB)
-  Limited Bathing, Boating, Fishing (SC)
-  Boating, Fishing (I)
-  Fishing Only (SD)

Community District

Pending CB8 E&S Committee vote at January 3, 2023 meeting on submission procedure:

A. CB8 Resolution to be approved by the Board on January 10, 2022

OR

B. CB8 correspondence from E&S Committee and Board Chair (no CB8 resolution)

If A. is approved by CB8 E&S:

BRONX COMMUNITY BOARD NO. 8 RESOLUTION

Submitted by the Environment and Sanitation Committee

WHEREAS, the CB8 Environment and Sanitation Committee (E&S) reviewed the United States Army Corps of Engineers (USACE) New York New Jersey Harbor and Tributaries Study Tier 1 Feasibility Study (NYNJHATS) available at <https://www.nan.usace.army.mil/Missions/Civil-Works/Projects-in-New-York/New-York-New-Jersey-Harbor-Tributaries-Focus-Area-Feasibility-Study/>, and its impacts on the Bronx Community Board 8 district;

WHEREAS, the CB8 E&S Committee “Water Working Group” drafted input for submission, which was publicly circulated to the community and unanimously approved by the CB8 E&S on January 3, 2023 for further submission to the full Board at the January 10, 2023 meeting;

WHEREAS, the main concerns of the CB8 E&S Committee relate to the concerns on the possibility for the proposed changes in the Manhattan harbor area to potentially direct more water north, directly at the area of the Bronx CB8 district, potentially increasing pressure against the outbound water from combined sewer overflow (CSO) outfalls;

WHEREAS, the main recommendation from the Bronx CB8 E&S Committee is for US ACE to study the impact of the additional water volume on the northern bank of the Harlem River to mitigate against stormwater backups in the Northwest Bronx;

THEREFORE BE IT RESOLVED, that the CB8 approves for submission the attached “*Bronx Community Board 8 Comments on the NYNJHATS Tier 1 Feasibility Study*”, via email to nynjharbor.tribstudy@usace.army.mil before March 7, 2023 (current deadline, extended from previous deadline of January 6, 2023).

Mr. Bryce W. Wisemiller, Project Manager
U.S. Army Corps of Engineers New York District
Jacob K. Javits Federal Building, Room 17-401

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We appreciate US ACE consideration of the information included.

Sincerely,

Dr. Camelia Tepelus
CB8 Environment & Sanitation Committee

Laura Spalter
Bronx CB8 Board Chair

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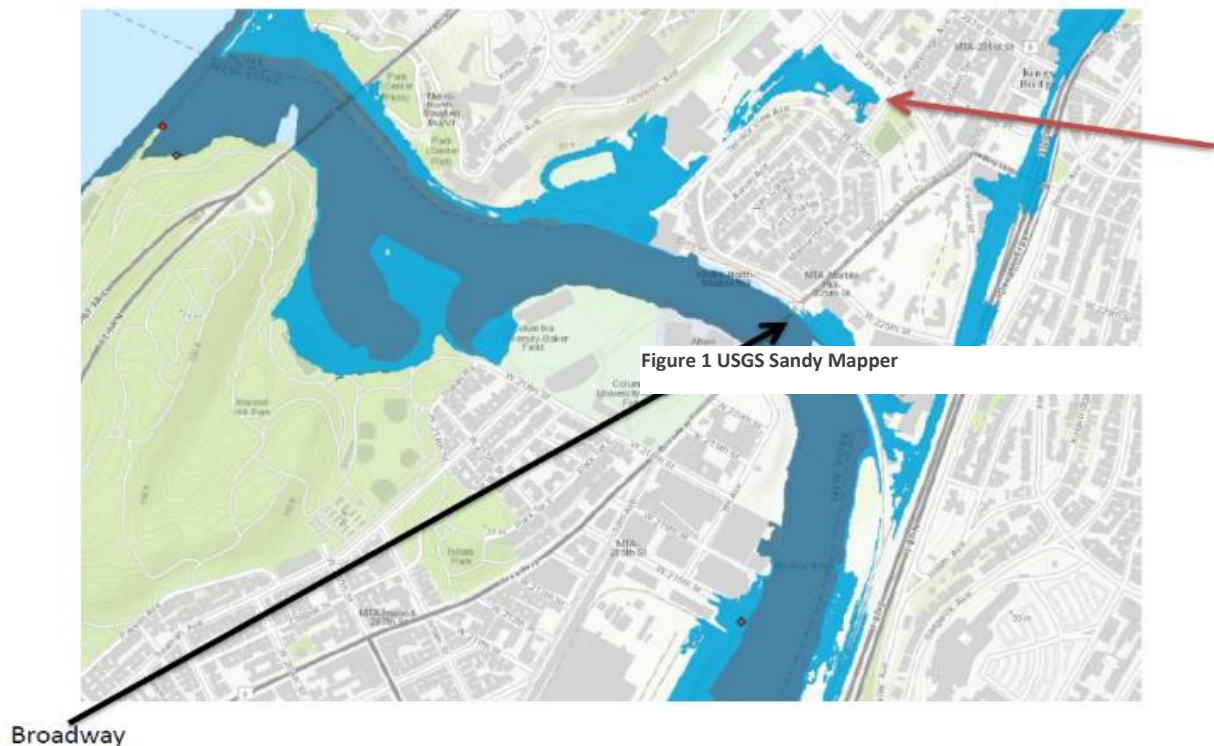
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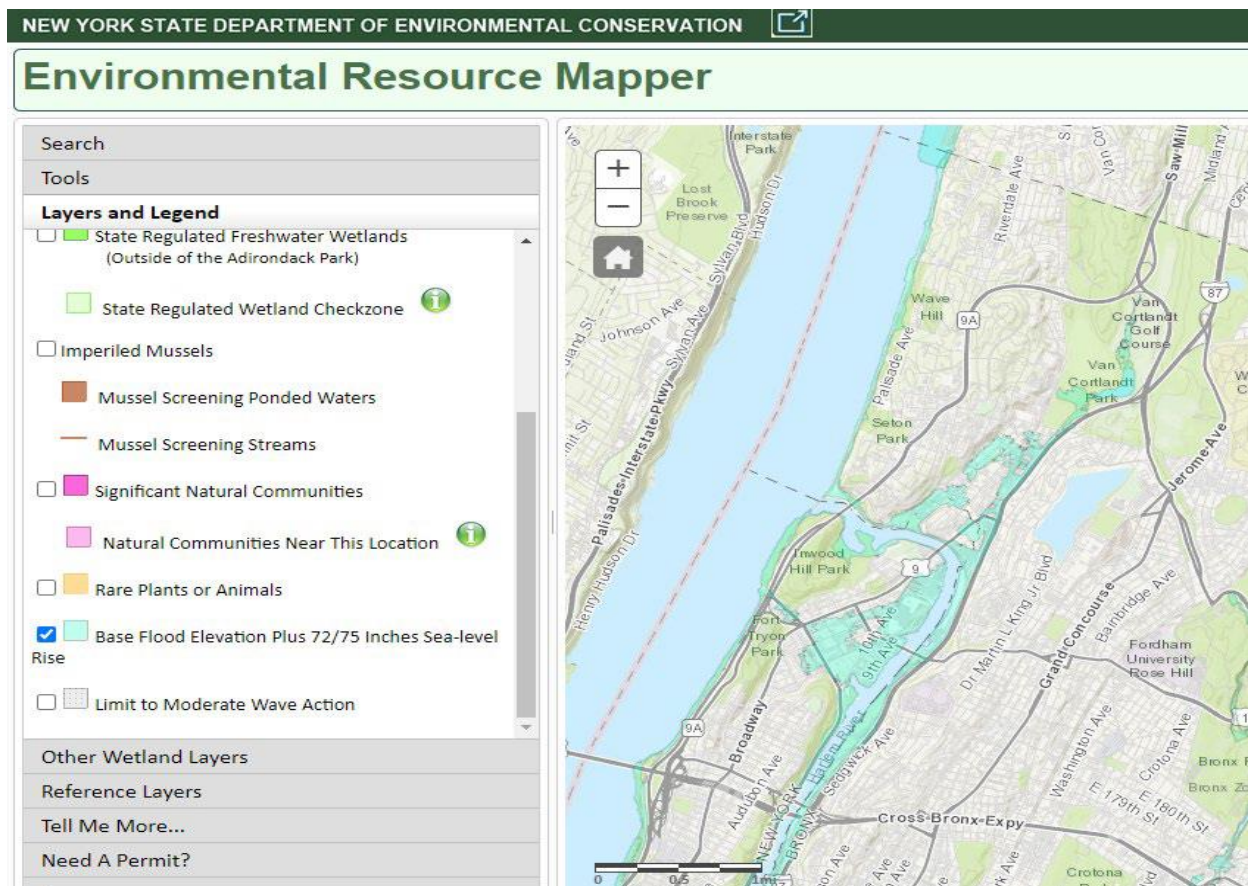


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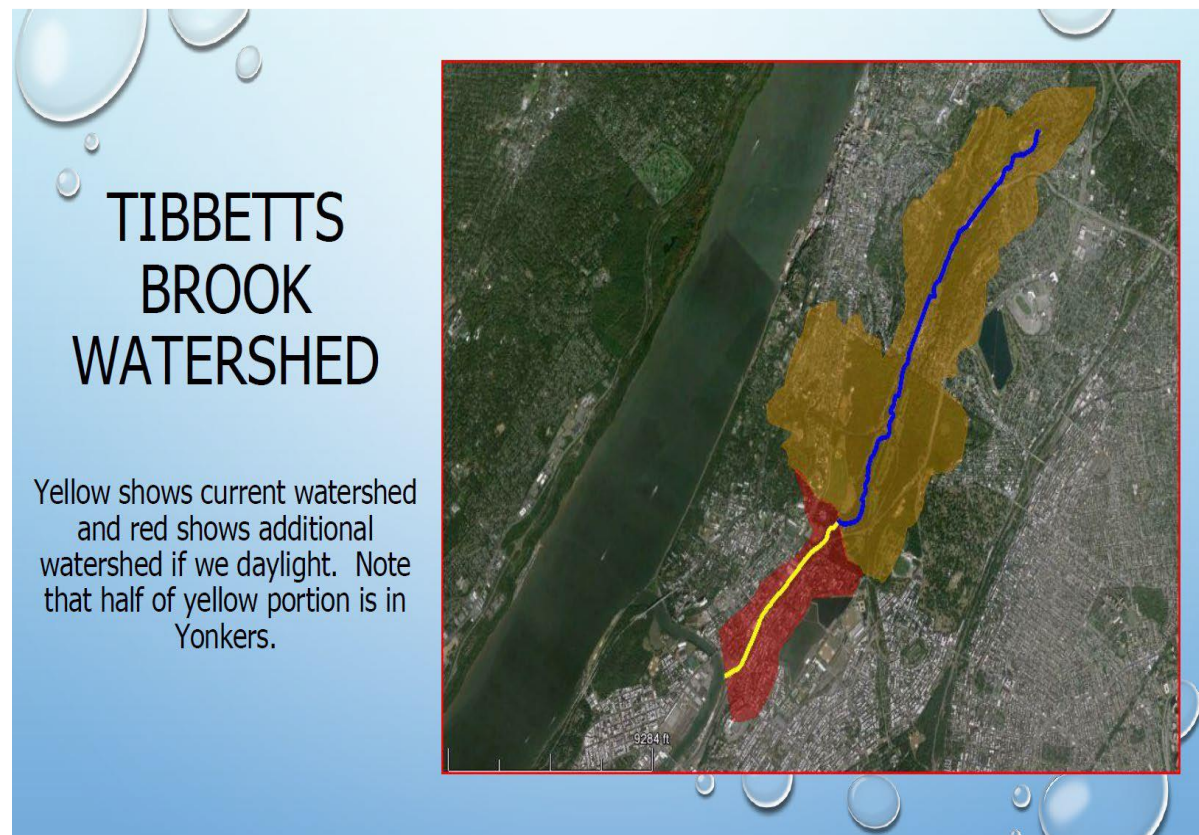
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We appreciate US ACE consideration to this submission of the Bronx CB8 Environment and Sanitation Committee.

Bronx Community Board 8



DOT Truck Route

- Limited Local
- Local
- Through

Best Usage Classification

- Bathing, Boating, Fishing, Shellfishing (SA)
- Bathing, Boating, Fishing (SB)
- Limited Bathing, Boating, Fishing (SC)
- Boating, Fishing (I)
- Fishing Only (SD)

Community District



Environmental Protection

JEROME PARK RESERVOIR CONSTRUCTION PROJECTS CRO-521 and JRAQ-REH

January 03, 2023



CRO-521 Jerome Park Reservoir Architectural Restoration of Gatehouses 2, 3, 5, 6 & 7

- Client Bureau: DEP Bureau of Water Supply
- Design Engineer: DEP In-house Design
- Contractor: Silverite Construction Company Corp.
- Bid Price: \$14,963,000
- Construction Manager: Arcadis of NY, Inc.
- Order to Commence Date: October 10, 2018
- **Substantial Completion Date: November 29, 2021**

CRO-521 Jerome Park Reservoir Gatehouse Architectural Restoration

- Superstructure deconstruction - Gatehouses 2, 3, and 6
- Construction of Canopy Walls - Gatehouses 2 and 3
- Removal of existing 10-foot high chain link fence
- Clearing and grubbing along reservoir wall perimeter
- Installation of new concrete fence footing and 4-foot high fall protection fence and vehicular guide rail
- Architectural restoration - Gatehouses 5 and 7
- New Roof - Gatehouse 7
- Permanent security upgrades - Gatehouses 2, 3, 5, and 7

CRO-521



Previous



Current

Demolition of Gate House No. 6

CRO-521



Previous



Current

Gatehouse 2 Superstructure Demolition
and new Canopy Wall

CRO-521



Previous



Current

Gatehouse 3 Superstructure Demolition
and new Canopy Wall

CRO-521



Previous



Current

Demolition of Existing Fence and New Fall Protection Fence, Guiderail and Grass Embankment

JRAQ-REH Jerome Reservoir and Aqueduct Rehabilitation

- Client Bureau: DEP Bureau of Water Supply
- Design Engineer: DEP In-house Design
- Contractor: Triumph Construction Company Corp.
- Bid Price: \$37,594,000
- Construction Manager: Arcadis of NY, Inc.
- Order to Commence Date: May 17, 2021
- **Substantial Completion Date: December 29, 2026**

JRAQ-REH Jerome Reservoir and Aqueduct Rehabilitation

- Repair of the North Basin Ramp and vehicular guard rail installation.
- North and South Basin East Wall repointing and refurbishment.
- Abandonment and securing part of the Old Croton Aqueduct by filling it with flowable fill between Gatehouses 6 and 7.
- Removal of existing 10-foot high fence / construction of 4-foot high fall protection fence and guide rail between Gatehouses 6 and 7.
- Rehabilitation of North Basin Inlet archway and wing walls.
- Construction of Shotcrete Armor Wall over lower, rubble portion of East Wall (North and South Basins)

JRAQ-REH Jerome Reservoir and Aqueduct Rehabilitation / CRO-590

- Repair of Lehman College retaining wall.
- Paving of Reservoir perimeter roadways.

Contract CRO-590:

- Rehabilitation of sluice gates in Gatehouse 5 (new gate controls)
- Installation of new Mechanical Screens in Gatehouse 5
- Installation of Bridge Crane in Gatehouse 5
- Installation of new sluice gates and gate controls in Gatehouse 7

JRAQ-REH Jerome Reservoir and Aqueduct Rehabilitation

Project Constraints:

- One basin at a time needs to be empty in order to implement aspects of the project.
- One basin needs to fully remain in service to provide city water supply during construction.
- Project needs to be coordinated with By-pass Tunnel connection under Water for Future (WFF) program ensuring continued city water supply.

JRAQ-REH

Current Construction Activities



RUBBLE WALL RECONSTRUCTION

JRAQ-REH

Current Construction Activities



Previous



Current

NORTH BASIN RAMP REHABILITATION

JRAQ-REH

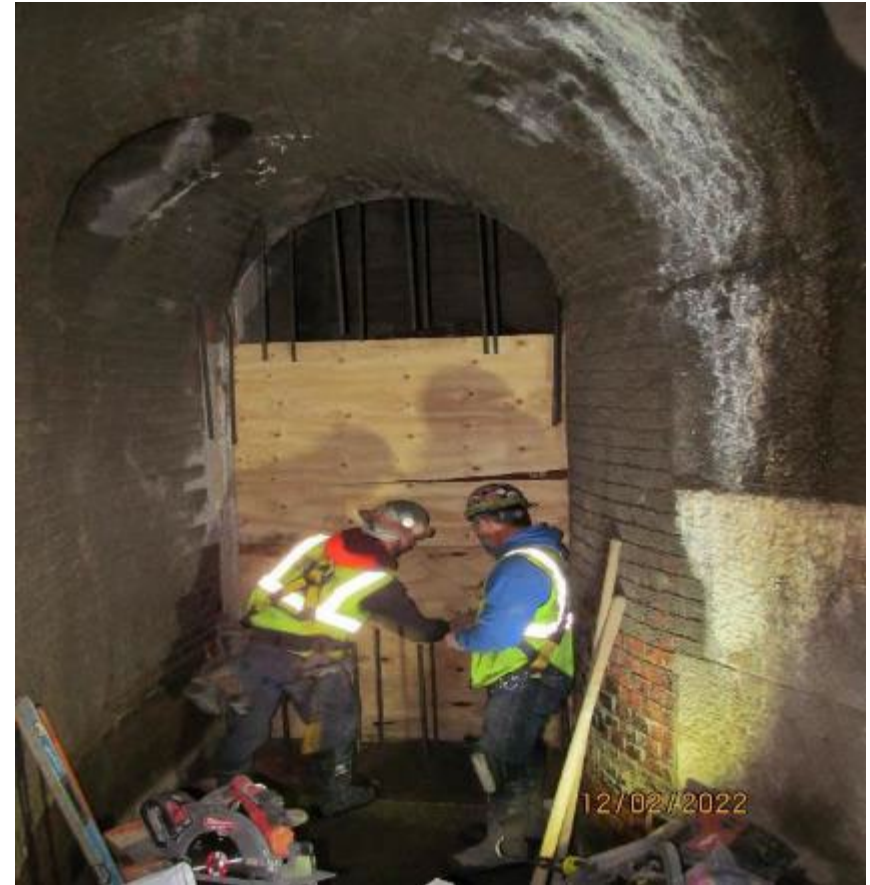
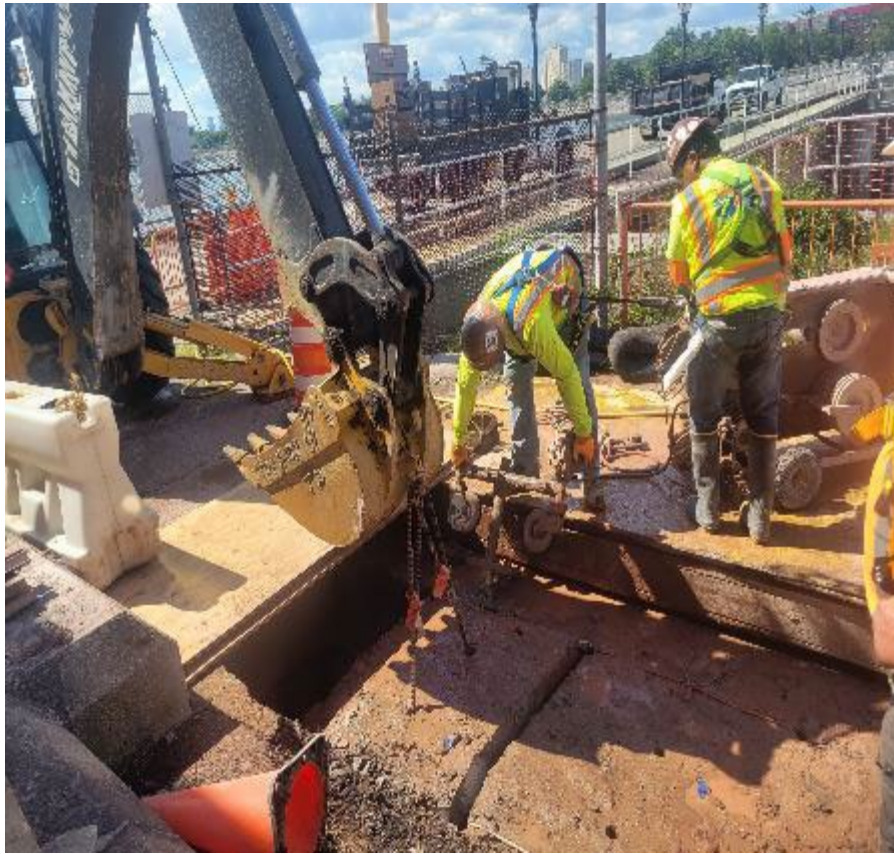
Current Construction Activities



NORTH BASIN EAST WALL REFURBISHING

JRAQ-REH

Current Construction Activities



CUTTING ACCESS OPENINGS IN ROOF OF OLD CROTON AQUEDUCT AND
CONSTRUCTION OF BULKHEADS

Program to monitor and maintain the dry basins during construction



JEROME PARK RESERVOIR CONSTRUCTION PROJECTS



CONTACT E-MAIL:

ROBERT.VARGO@ARCADIS.COM