



# Gowanus Canal Combined Sewer Overflow Tank Siting

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Commissioner Emily Lloyd  
Commissioner Mitchell Silver

June 30, 2015

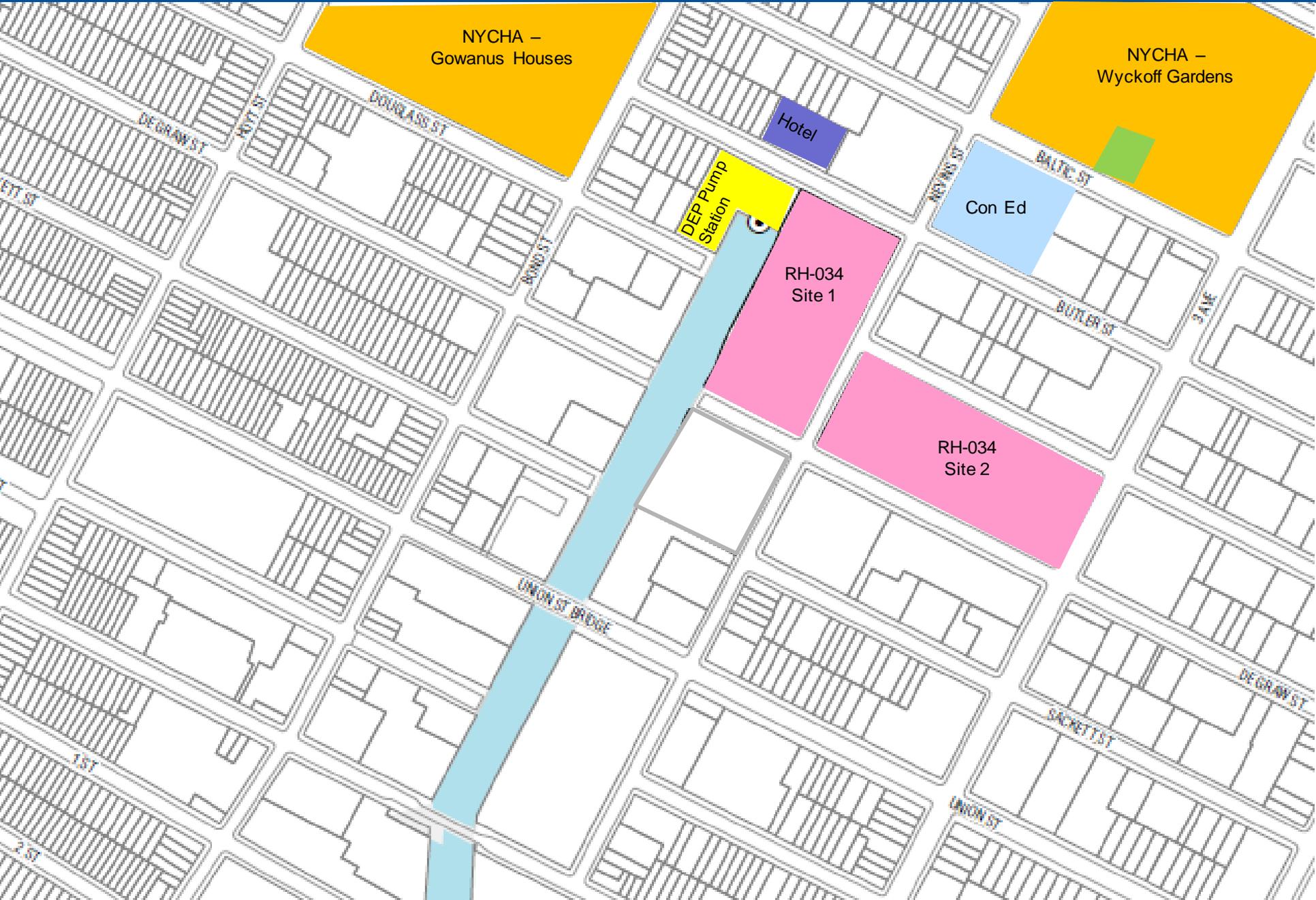
# Siting Recommendation Report

- EPA site recommendation and DEC Long Term Control Plan submitted on June 30, 2015\*
- Criteria:
  - Community impact
  - Engineering considerations
  - Facility performance
  - Cost



\* Siting report does not address tank size

# RH-034



NYCHA –  
Gowanus Houses

NYCHA –  
Wyckoff Gardens

Hotel

DEP Pump  
Station

Con Ed

RH-034  
Site 1

RH-034  
Site 2

UNION ST BRIDGE

SACKETT ST

UNION ST

DE GRAY ST

1ST

2 ST

## Neighborhood Context:

- Almost 40,000 residents within a 10-minute walk
- Open space ratio in area 0.61 acres per 1,000 residents
  - National standard: 2.5-10.5 acres per 1,000 residents
- 17.5% obesity in Northwest Brooklyn

## Park and Pool Usage:

- Most popular intermediate size pool in Brooklyn
- Pool attendance ranges from 22,000-38,000 users
- Varied active use amenities: handball, swimming, basketball, free play space, climbing and play equipment
- Programming includes: learn to swim, swim team use, summer camp use, meal service, special events (including very popular basketball tournaments)

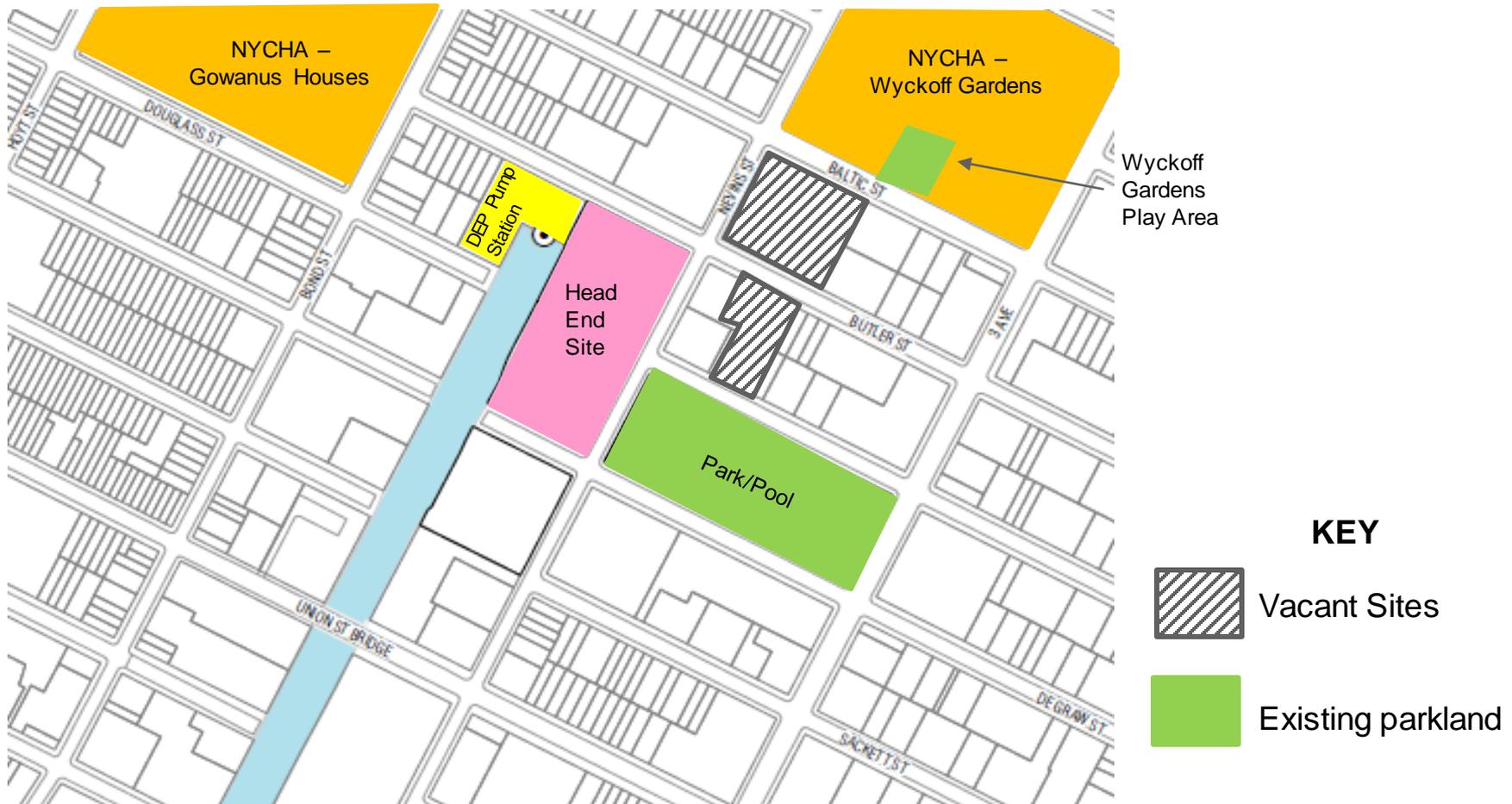


# Walk To A Park Analysis



# Plans for the Park Site

- EPA considers the Thomas Greene Park one of the most contaminated sites
- Park and pool may be closed for ~4 years for excavation, clean up, and park reconstruction
- The City will look for opportunities for temporary open space in the area
- Focus on protecting and retaining full park site

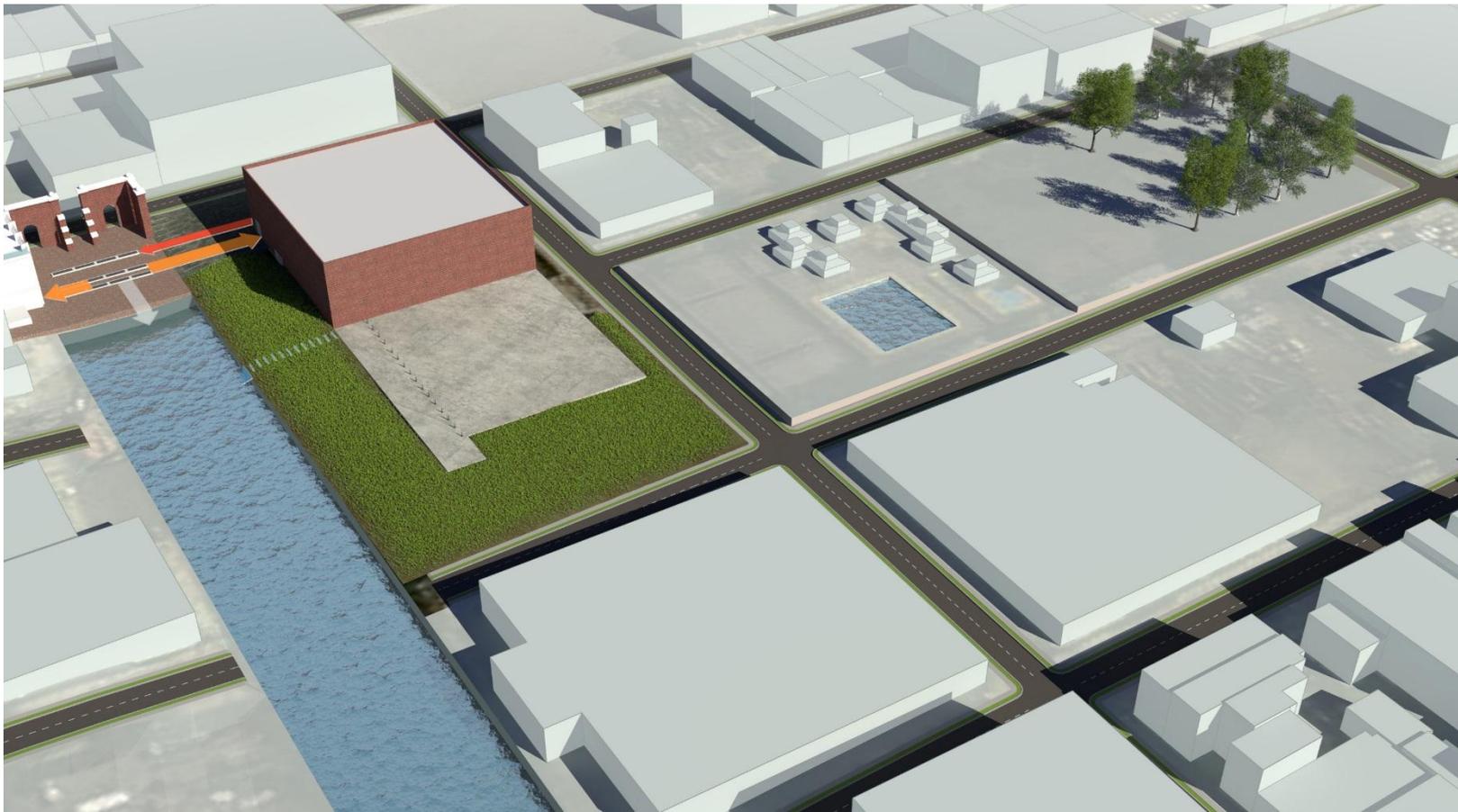


## Key Features:

- Tank underground and adjacent to existing pumping station and outfall
- Head house atop tank with odor control
- Estimated \$490 M to construct

## Park Impacts:

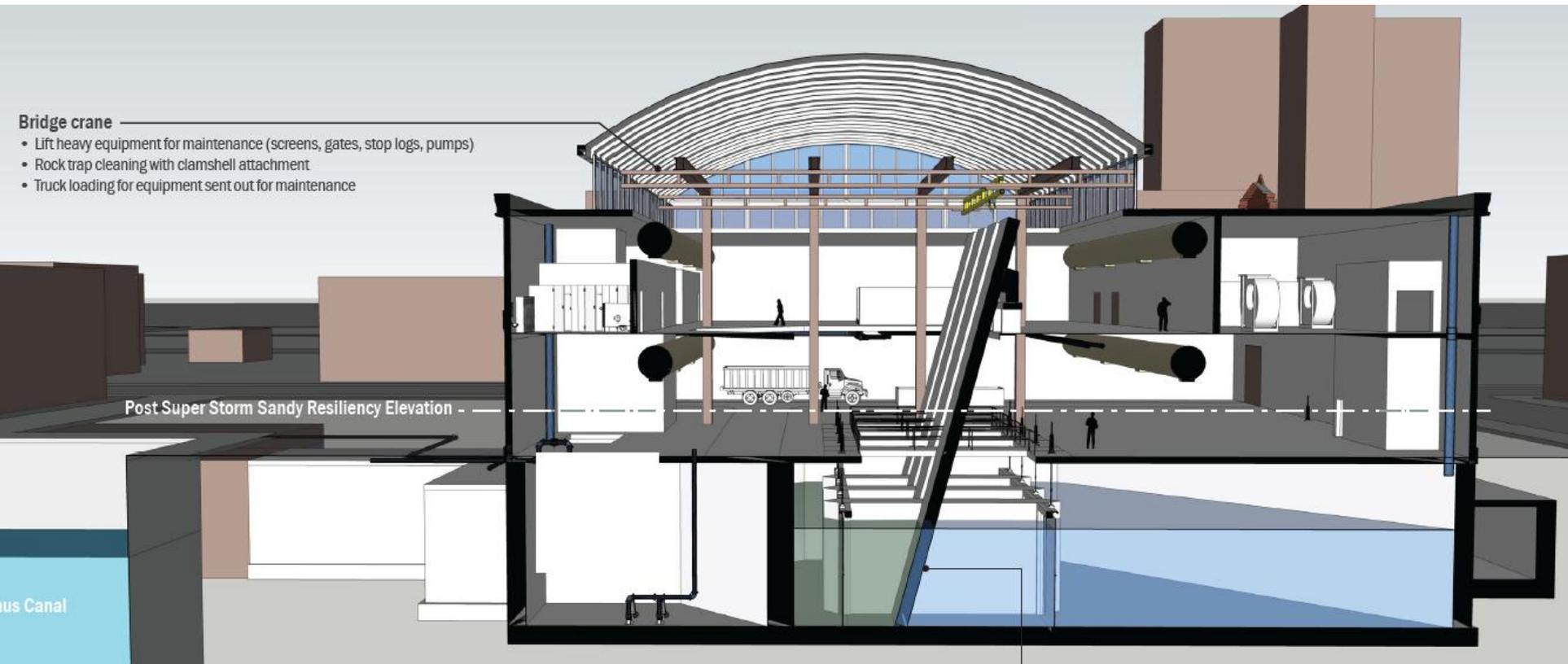
- No park impacts from tank construction
- Park and pool may be closed for ~4 years for excavation, clean up, and park reconstruction



# What is a head house?

Within the head house are:

- Screens to remove floatables from incoming wastewater
- Machines to remove and dewater grit that accumulates in the tank
- Carbon filtration odor control
- Truck access points for solids disposal and deliveries

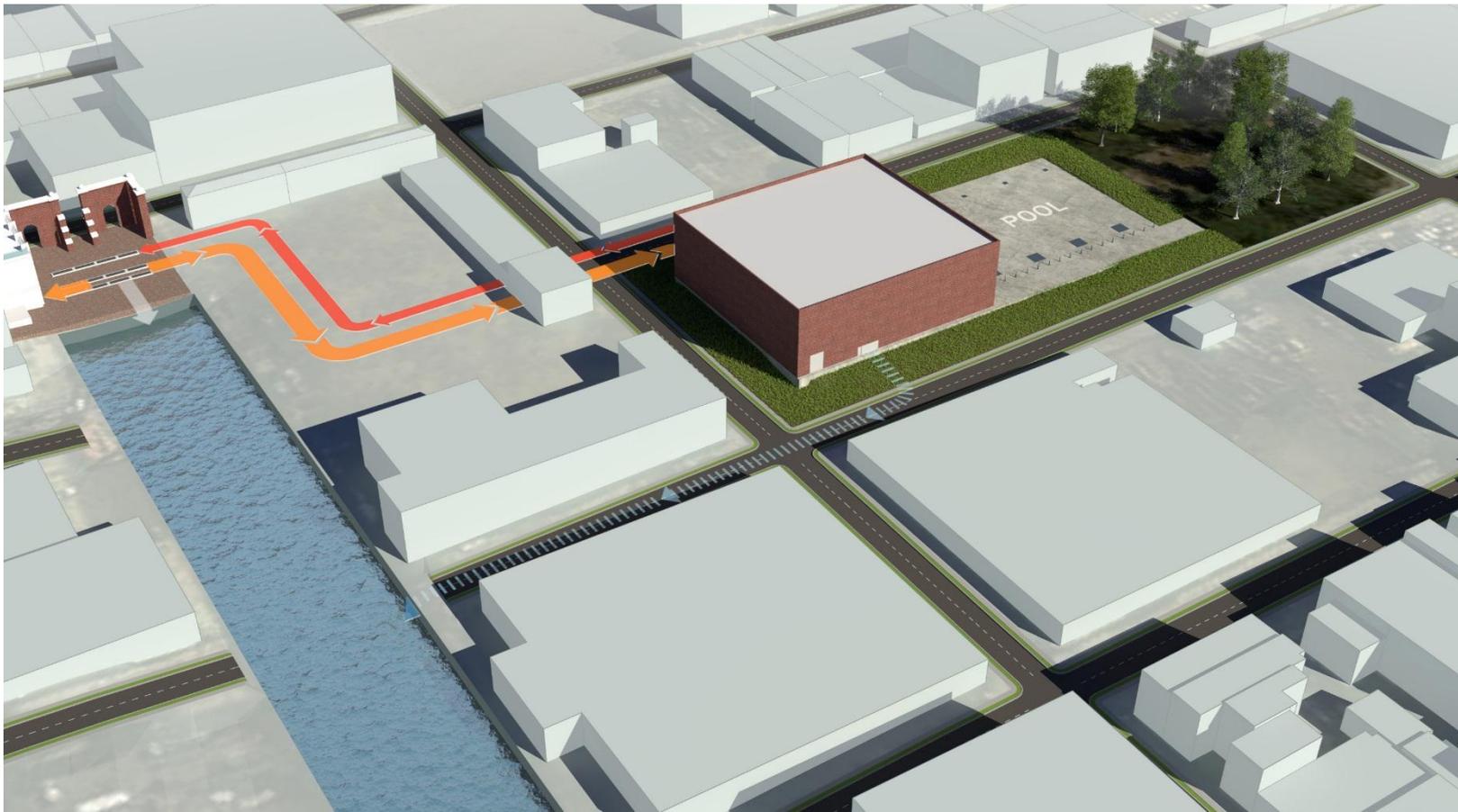


## Key Features:

- Tank located below Thomas Greene Park
- Head house located above tank at western portion of park with odor control
- Estimated \$580 M to construct

## Park Impacts:

- Park and pool closed for ~8-9 years for clean up and tank construction
- Permanent loss of 20% of the park for the head house
- Occasional park closures or odors from non-routine maintenance



# Park Variation 1: Adjacent Head House

## Key Features:

- Tank located below Thomas Greene Park
- Head house at site north of park with odor control
- Estimated \$650 M to construct

## Park Impacts:

- Park and pool closed for ~8-9 years for clean up and tank construction
- Six access hatches above tank
- Occasional park closures or odors from non-routine maintenance



# Park Variation 2: No Head House

## Key Features:

- Tank located below Thomas Greene Park
- Small electrical and control building at site north of park; no odor control
- \$534 M to construct

## Park Impacts:

- Park and pool closed for ~8-9 years for clean up and tank construction
- Six access hatches above tank
- Park closures for routine maintenance; extensive odors during this period
- Persistent, faint odors year-round



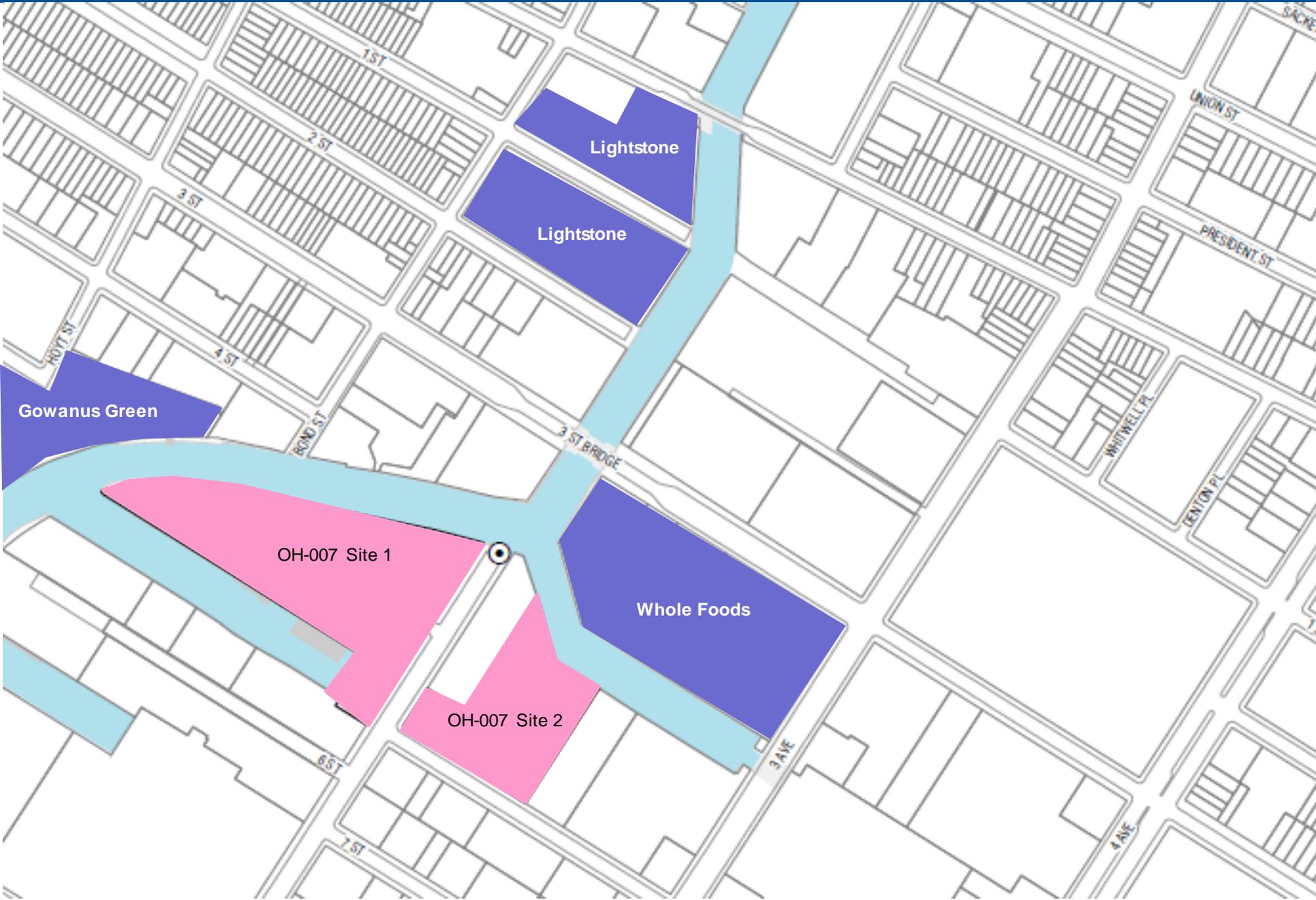
# RH-034 Decision Matrix

Option	Park/Pool Closure Duration	Permanent Loss of Parkland	Disruption of Park Operations	Estimated Capital Costs <sup>1</sup>	Estimated Construction Commencement
Recommendation: Head End Site	~4 years	No	None	\$490 M	2018
Alternative: Park Site with Head House	~8-9 years	Yes	Occasionally	\$580 M	2018
Park Variation 1: Adjacent Head House	~8-9 years	No	Occasionally	\$650 M	2018
Park Variation 2: No Head House <sup>2</sup>	~8-9 years	No	4-6 times a year; 7-10 days each time	\$534 M	2018

<sup>1</sup> Cost includes construction and, if necessary, temporary staging, site acquisition, temporary park/relocation, etc.

<sup>2</sup> Small building would still be required for electrical equipment (small building off site)

# OH-007



Lightstone

Lightstone

Gowanus Green

OH-007 Site 1

Whole Foods

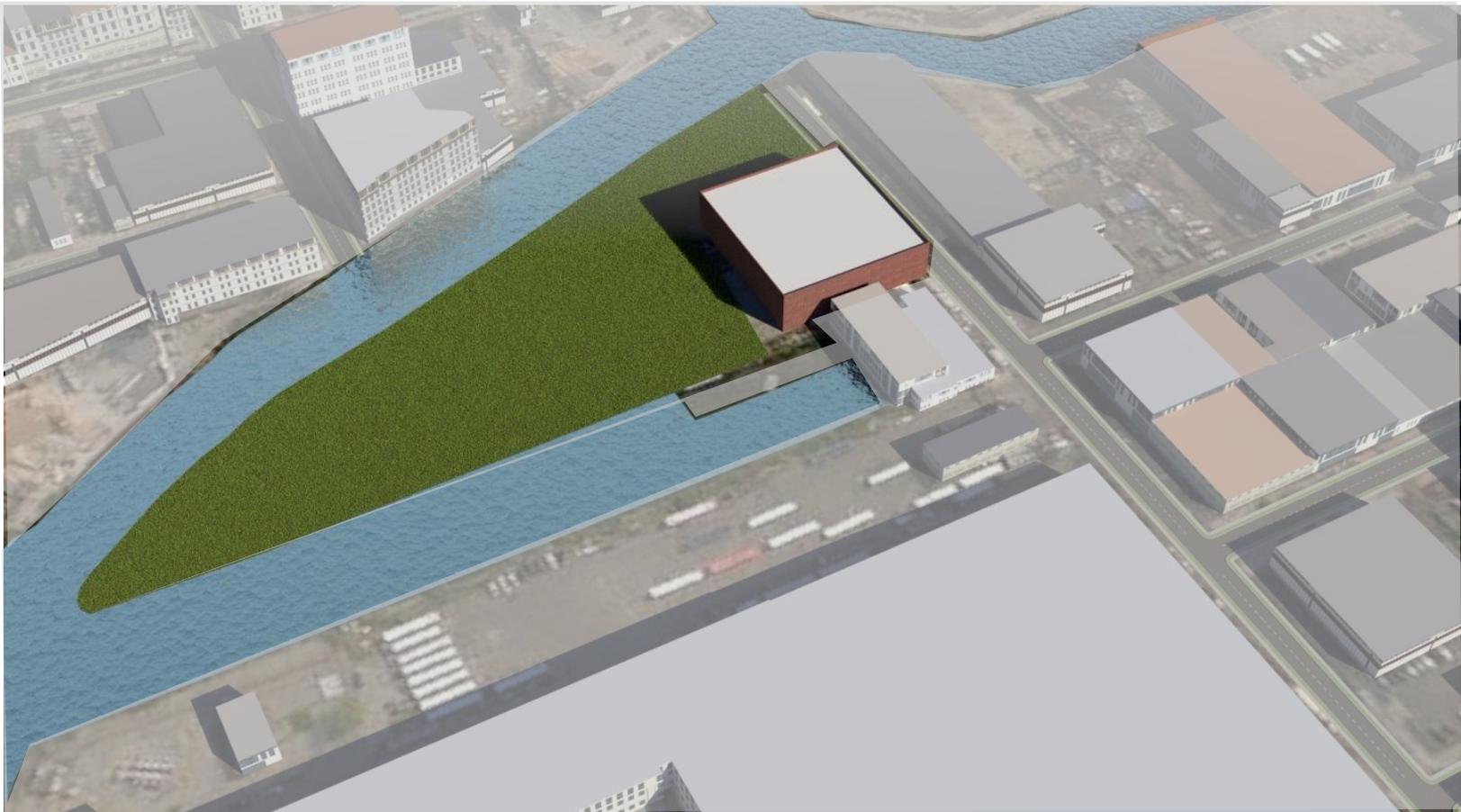
OH-007 Site 2

## Key Features:

- Underutilized land adjacent to outfall; partially City owned
- Head house atop underground tank with odor control
- \$311 M to construct

## Community Impacts:

- Existing DSNY and Gowanus Canal Conservancy uses could likely be restored after construction is complete (~5-6 years)

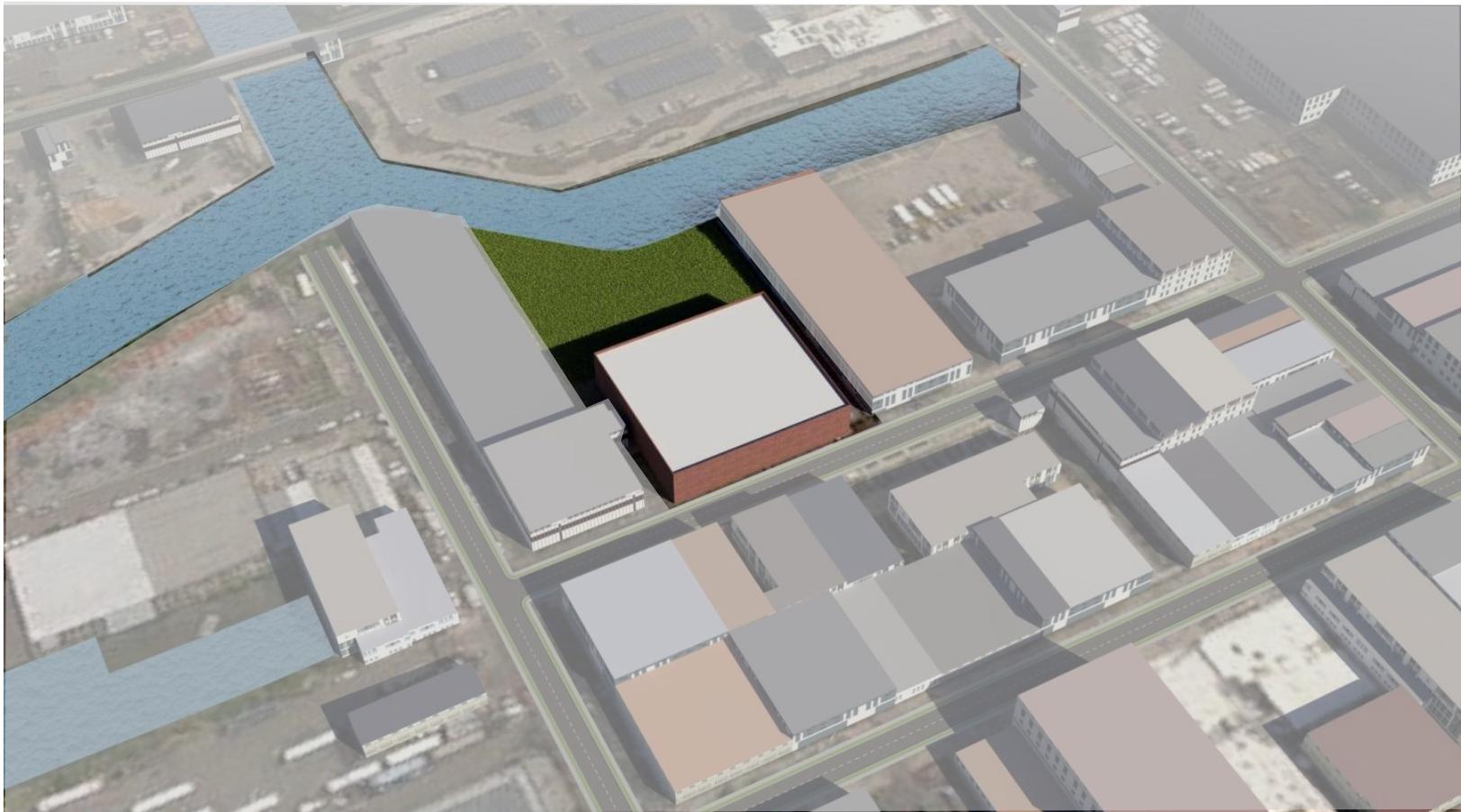


## Key Features:

- Head house atop underground tank with odor control
- \$336 M to construct

## Community Impacts:

- Existing business would be displaced



# Discussion