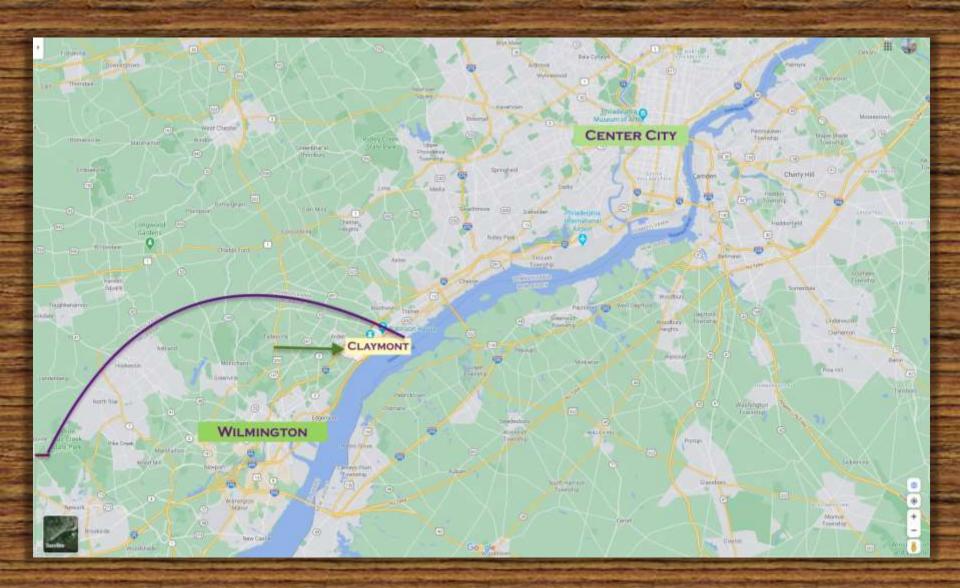
# Proposed Claymont Riverfront Park Redevelopment Project

#### **CRDC**

Claymont Renaissance Development Corporation

Urban Waters Webinar Series
January 18, 2022

# Delawhere?



# Local Area







# Claymont Steel (c.1927)



# Getting Our River Back!



## Origin of Riverfront Park idea

- Our historic use of the river
- Early "what if's"
- 2013 closing of Claymont Steel
- 2015 purchase by CDC
- North Claymont Area Master Plan
- 125 acre land donation by CDC

# Making of the concept plan

- Need of a visual
- UD Coastal Design Resiliency Studio
- Community input & support
- Delaware & East Coast Greenways
- Governor Carney & NCC CE Meyer

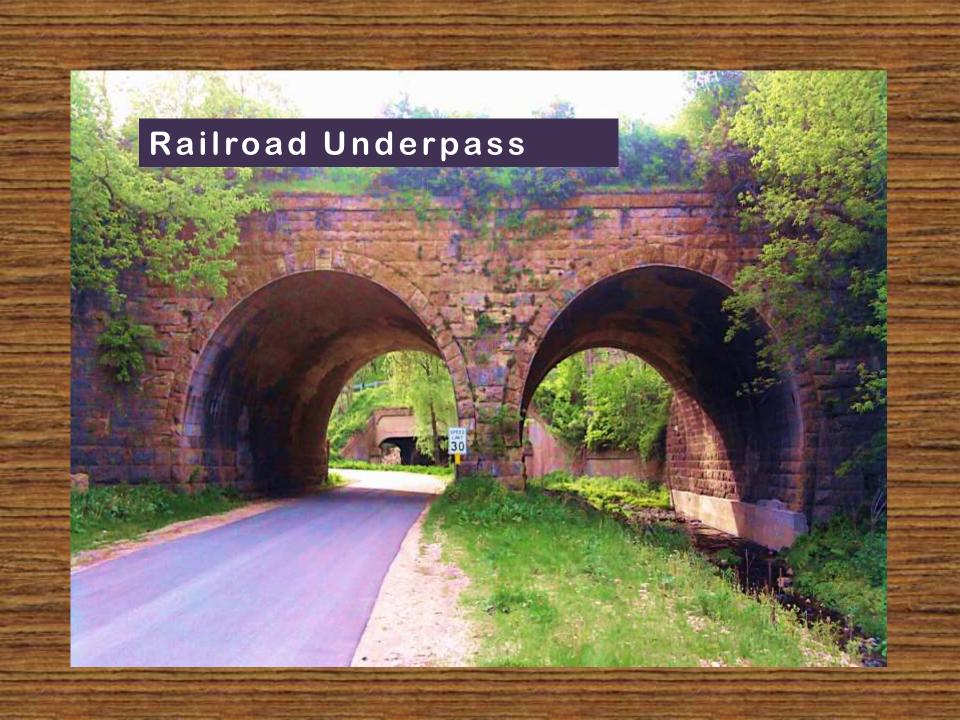




# Getting to the Park

- Walking/Biking
- Automobile
- DART First State Bus
- SEPTA train
- Boat





### Riverfront Park Amenities

- Abundant nature
- 4.4 miles of trails
- 2/5 mile fitness path
- Educational / Historical "Interpretive Signage"
- Bark park
- Amphitheater
- Sports fields / Disc Golf
- Over water "Breakwater Bridge"
- Boat launch / Marina
- Riverside food establishments / retail
- Many other possibilities











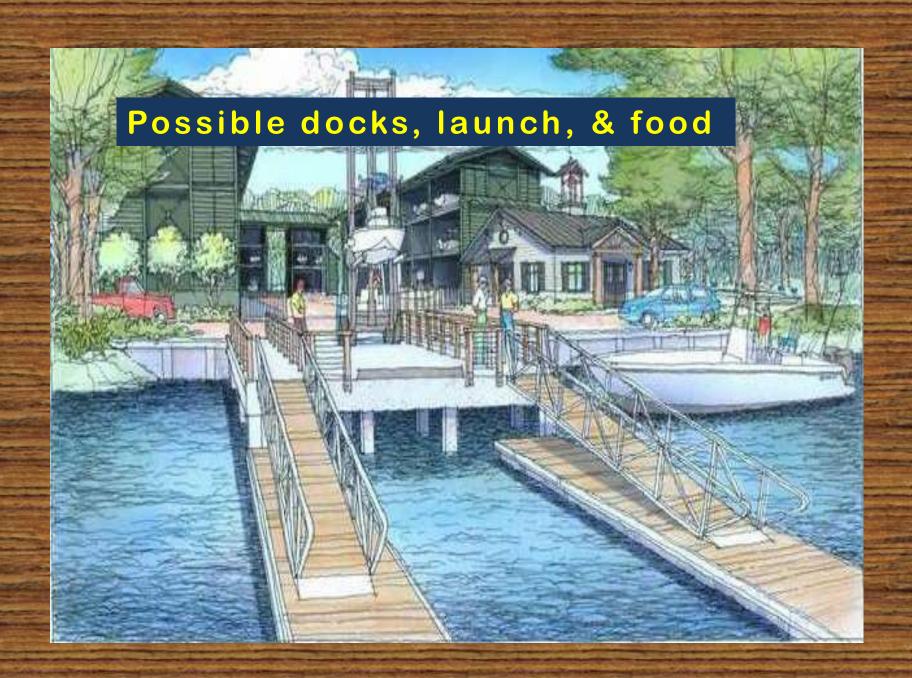




# CLAYMONT N/ARMONA

**ELECTRIC ARC PARK** 







# Questions?

# CRDC Claymont Renaissance Development Corporation

# Thank you



#### Urban Waters Federal Partnership: Housing Webinar

Tuesday January 18, 2022

## "Building Community Resiliency Through Partnerships & Collaboration in Camden, NJ" Frank McLaughlin, NJ Dept Environmental Protection – Office of Brownfield and Community

Manager, Community Collaborative Initiative

frank.mclaughlin@dep.nj.gov





#### Camden's Environmental Challenges: Flooding & Deteriorated Infrastructure



# Camden, NJ: Combined Sewer System (built 1880's)

Distressed City owns sewer system
Regional utility serves 37 towns in 3 counties...

...all waste goes to Camden for treatment...

28 outfalls discharge into Delaware River & tributaries

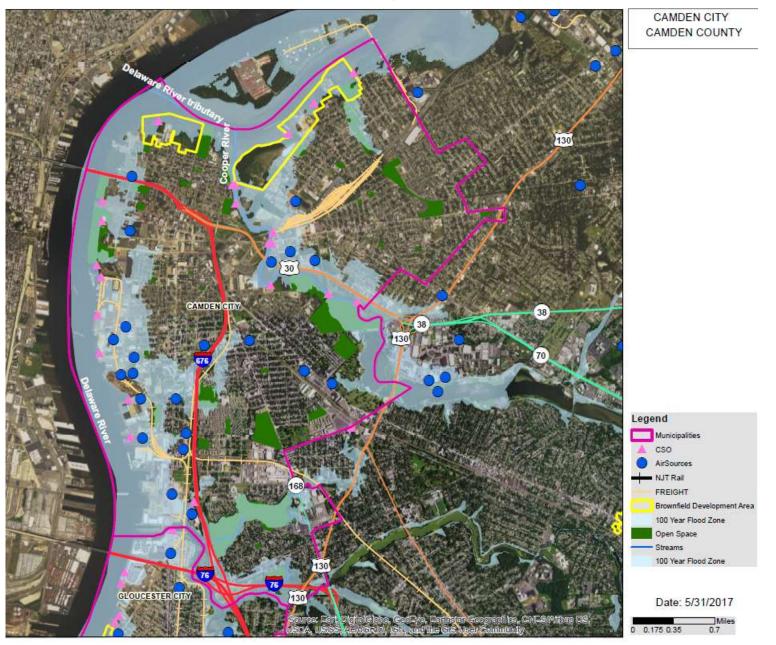




Combined sewage flooding in the Cramer Hill neighborhood of Camden, NJ (photos courtesy of Camden Community Partnership).



#### Camden's Economic, Social & Environmental Challenges: Fluvial & Tidal Flooding



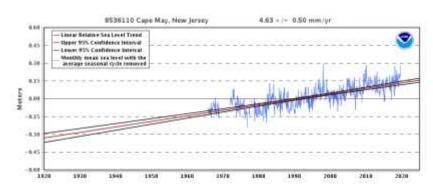
#### Camden, NJ:

- Waterfront-dependent industries & transportation network
- Loss of manufacturing 1950's-1970's drives economic & population declines
- Current Demographics:

Poverty Rate: 36.4% (2021)

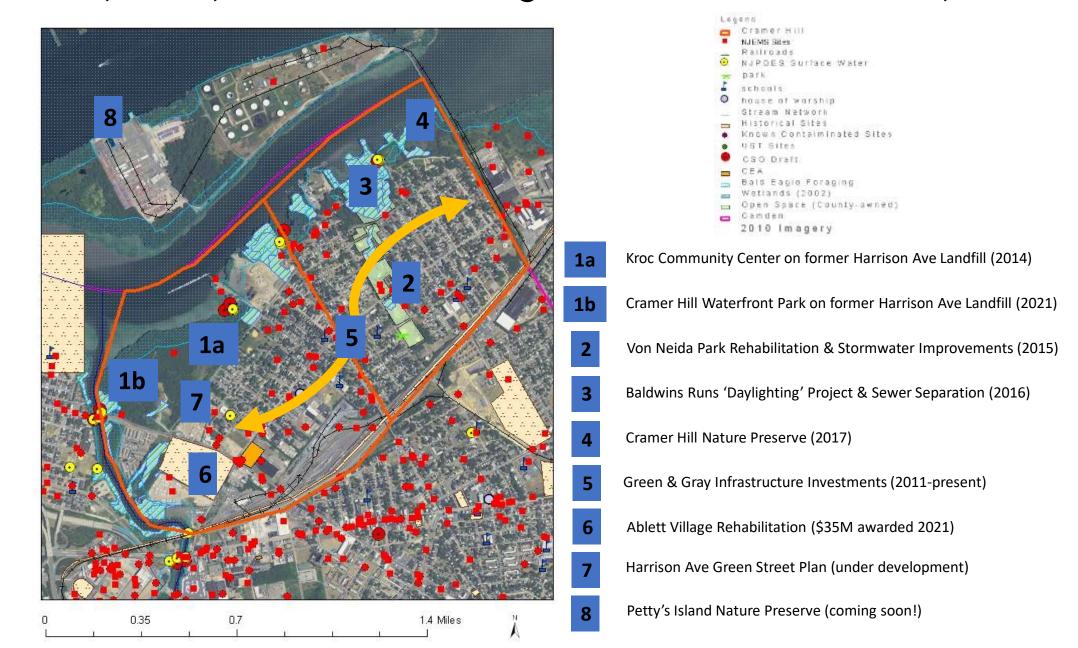
Population: 73,236 (2021)

(124,555 in 1950)



NOAA sea level measurements at Cape May,

#### Environmental, Social, Economic & Housing Investments in Cramer Hill, Camden





# Building Community Equity through essential services, enrichment & jobs Harrison Ave Landfill: Transformation into Kroc Community Center



Aerial view toward southwest of Harrison Ave Landfill after remediation and construction into the Kroc Center, showing stormwater management features (2014).



# Building Resilient Shorelines to Protect from Sea Level Rise Harrison Ave Landfill: Transformation into Cramer Hill Waterfront Park



Aerial View toward north during remediation for Cramer Hill Waterfront Park (October, 2019), showing many of the resilient elements & community assets. Kroc Community Center is in the far upper right of aerial photo (courtesy of NJDEP Office of Natural Resource Restoration).



# Building Resilient Shorelines to Protect from Sea Level Rise Harrison Ave Landfill: Transformation into Cramer Hill Waterfront Park

# Delaware River shoreline stabilization

View south along Harrison Ave Landfill shoreline, showing solid waste at water's edge (right, 2018) and the stabilized shoreline (left, 2020), after solid waste relocation, with riprap and plantings (courtesy of NJDEP Office of Natural Resource Restoration).



# Building Resilient Shorelines to Protect from Sea Level Rise Harrison Ave Landfill: Transformation into Cramer Hill Waterfront Park

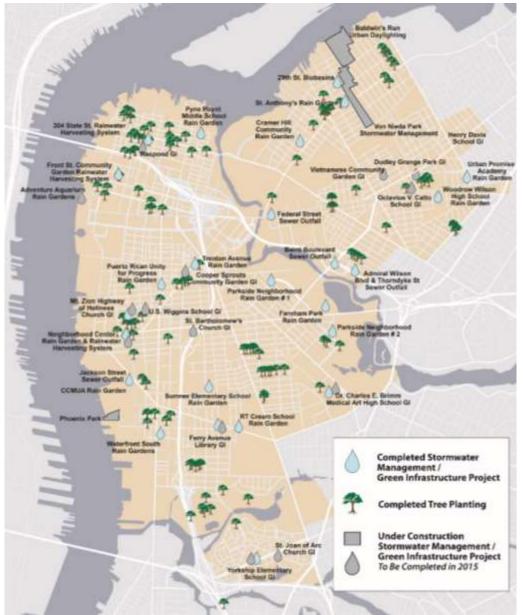




New Jersey Governor Phil Murphy speaking at the Cramer Hill Waterfront Park entry plaza at the grand opening on November 30, 2021. Kites and dog walkers enjoying the summit vista, with access to and views of the Delaware River (to right), Cooper River (to left), with the Ben Franklin Bridge & city of Philadelphia in the background.



#### Camden SMART Initiative (2011): Community-Based Green & Gray Infrastructure

















>60
Green Infrastructure
Projects



>2,000 Trees Planted



>100 Million
Gallons of Stormwater
Captured

\*<u>US Water Alliance</u> (2019): Nation's Best public-private water initiative \*<u>NJ Future</u> (2015): NJ's Best community-based green infrastructure



# Building Community Resiliency thru Partnerships & Collaboration Camden Collaborative Initiative (2013): Place-Based Collaborative Partnership

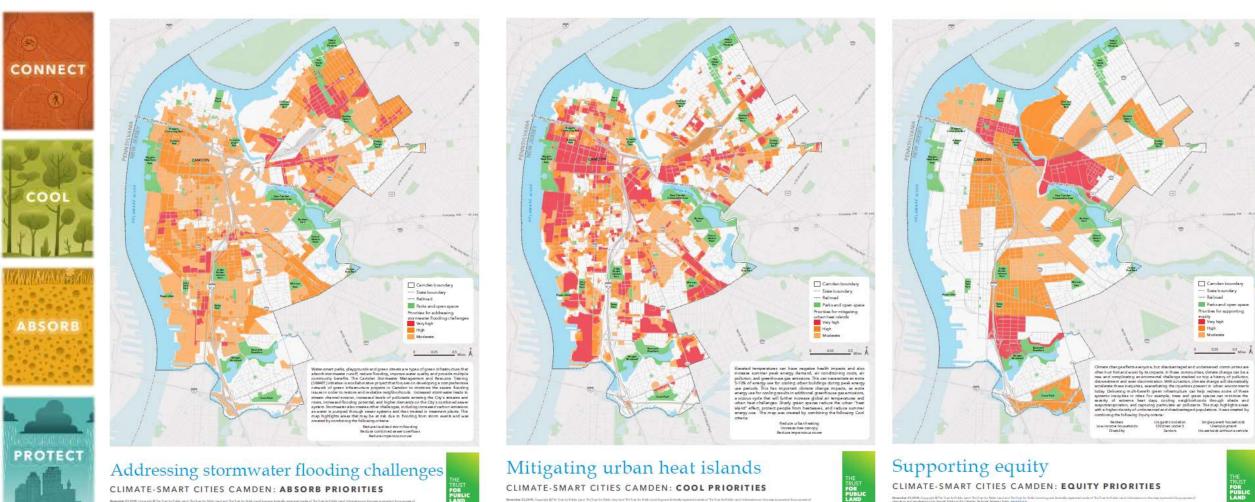


The **Camden Collaborative Initiative** (CCI) is a solutions-oriented partnership between governmental, non-profit, private, and community-based agencies formed to plan and implement innovative strategies to improve the environment and the quality of life for Camden's residents.

**Camden Collaborative Initiative** received EPA's Environmental Champion Award (2016) for more innovative & effective public-private partnership.



# Building Community Resiliency thru partnerships & collaboration Camden Green & Healthy Tool & Climate-Smart Cities



Green + Healthy Camden is a multi-partner initiative to support climate preparedness, equity, health, and park and open space planning throughout Camden, New Jersey. The Trust for Public Land led this collaborative effort, along with its Climate-Smart Cities Camden information is helping Camden plan for climate adaptation & community resiliency.

https://web.tplgis.org/camden\_csc/



# Building Resilient Shorelines to Protect from Sea Level Rise Camden County Municipal Utilities Authority Plant, Waterfront South Camden

# **Camden County Municipal Utilities Authority (CCMUA)**

• 185 million gallons/day wastewater treatment plant serving 37 municipalities (3rd largest in NJ) – waste treated in Camden...

#### CCMUA Institutional leader in Waterfront South, poorest neighborhood in Camden.

#### Camden Collaborative Initiative partnership to address environmental issues and community resiliency thru engagement.

- Solar panels (10% of total plant energy)
- Biogas recovery (50% of total) with combined heat & power (90% of total incl. natural gas) [\$35M NJ Water Bank]
- Phoenix Park first meaningful waterfront access since 1880's [\$2.7M NJ Water Bank]
- Living shoreline (awaiting construction)



View of Camden County Municipal Utilities Authority (CCMUA) Plant and former American Minerals Site (now Phoenix Park) from west toward Waterfront South neighborhood, Camden (concept of Living Resilient Shoreline Plan superimposed).



# Building Resilient Shorelines to Protect from Sea Level Rise Camden County Municipal Utilities Authority Plant, Waterfront South Camden

## **CCMUA Living Shoreline Plan:**

• Core partners: CCMUA, NJDEP, Partnership for Delaware Estuary, Stantec

### ...properly designed Living Shorelines adapt to sea-level rise

- Vegetated marshland improves water quality, enhances habitat, and reduces wave energy and storm surge
- Freshwater mussels: foundation species in freshwater tidal systems
  - provide food, shelter & resiliency
  - mussels treat 10 gallons/day (X= 92.6 tons ha<sup>-1</sup> y<sup>-1</sup> Removal of Suspended Matter)

#### **CURRENT CONDITIONS**

# EROSION ALONG BULKHEAD VULNERABLE TO WAVES, WIND, FLOODING, AND SEA LEVEL RISE



#### **PROPOSED CONDITIONS**



"Building Community Resiliency Through Partnerships & Collaboration in Camden, NJ"

# **CLOSING THOUGHTS & CONCLUSIONS:**

Public-private partnerships are necessary to address complex environmental, social & economic challenges in distressed communities - Camden is a national leader in collaborative partnerships (e.g., Camden SMART, Camden Collaborative Initiative)

Investments in the environment support Social, Economic, Health & Housing initiatives

Following environmental investments, Camden is ready for housing & economic development

Resiliency investments are underway in Camden & climate adaptation will be necessary



#### Urban Waters Federal Partnership: Housing Webinar

Tuesday January 18, 2022

# "Building Community Resiliency Through Partnerships & Collaboration in Camden, NJ"

Frank McLaughlin, NJ Dept Environmental Protection – Office of Brownfield and Community Manager, Community Collaborative Initiative

frank.mclaughlin@dep.nj.gov





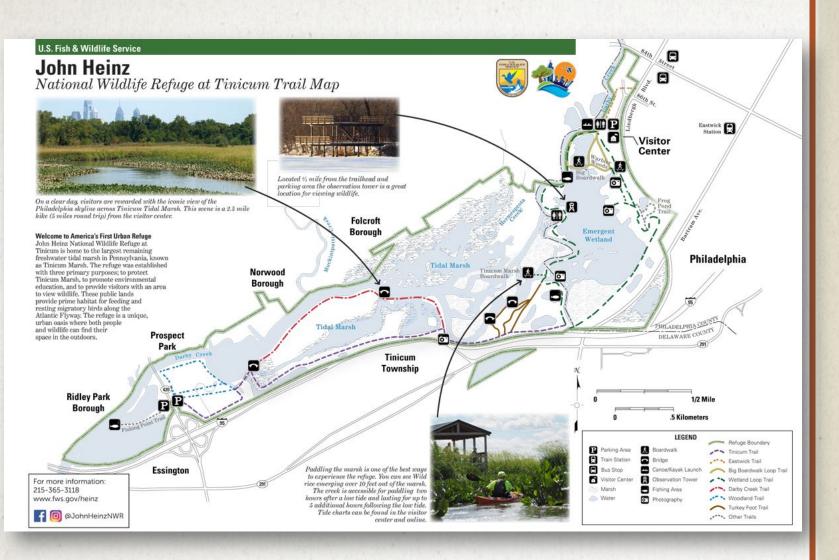




# HABITAT RESTORATION AND COMMUNITY CONNECTIONS







# **U.S. Fish & Wildlife Service**

# JOHN HEINZ NWR OVERVIEW

- Established in 1972
  - 1. Protect the largest remaining freshwater tidal marsh in PA 350 acres (~1000 acres)
  - 2. Provide wildlife dependent recreation opportunities Provide environmental education.
  - 3. Provide environmental education.





# URBAN PROGRAM – EDUCATE, ENGAGE, CONNECT









# **ACCESSIBLE WATERWAYS**

FISHING, KAYAKING...











# **ACCESSIBLE WATERWAYS**

# MARSH EDUCATION AND MARSH CLEAN UPS









# HIGHLIGHTED REFUGE SPECIES

- USFWS At-Risk Species
  - Tidewater Mucket
  - Green Floater
  - Brook Floater
  - Yellow Lampmussel
- State Listed Species
  - Southern Leopard Frog
  - Northern Red Bellied Cooter













# **U.S. Fish & Wildlife Service**

# FLOODING AND HABITAT CHALLENGES





# **MANAGEMENT CHALLENGES**

# TRASH, INVASIVE SPECIES, FLOODING, SEA LEVEL RISE, & CLIMATE CHANGE







# HABITAT MANAGEMENT GOALS

# MORE RESILIENT HABITAT FOR WILDLIFE AND PEOPLE







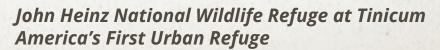
















# **U.S. Fish & Wildlife Service**

# **ATHOS**

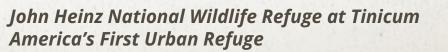
- Increase tidal inundation
- Dredge, spoil island
- 55 acres
- Completion likely 2022/2023







**U.S. Fish & Wildlife Service** 







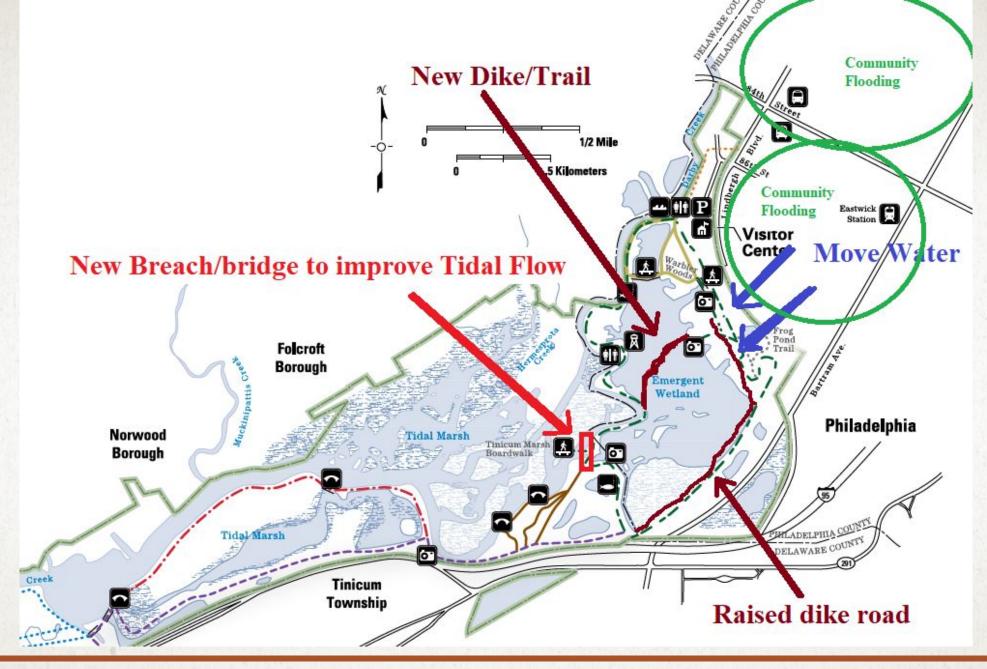
**U.S. Fish & Wildlife Service** 

# IMPOUNDMENT RESTORATION

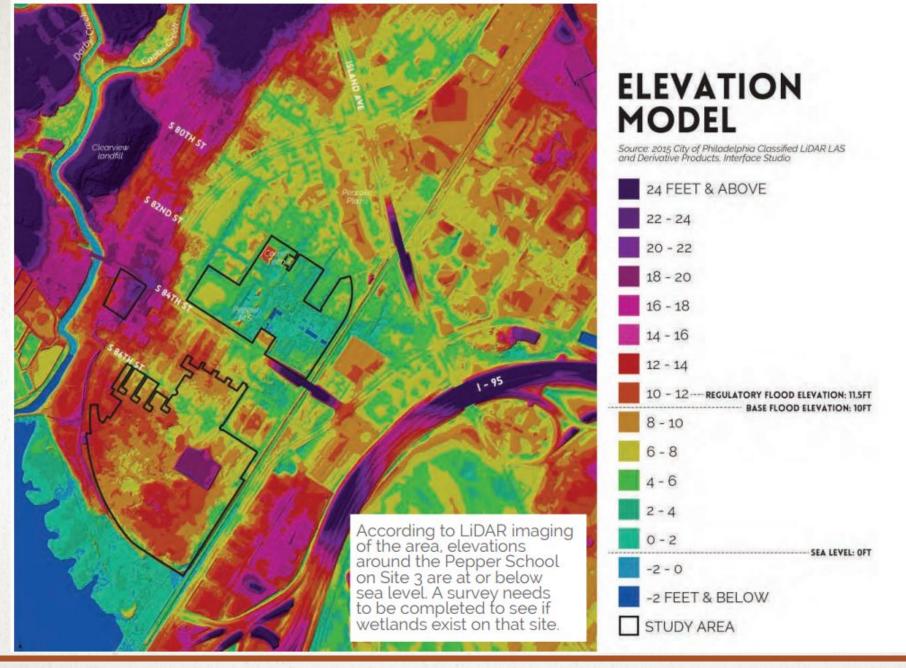
- Pump Project with Ducks Unlimited
- Restore part of 145-acre impoundment to tidal marsh
- Increase flood resiliency
- Restores natural hydrology









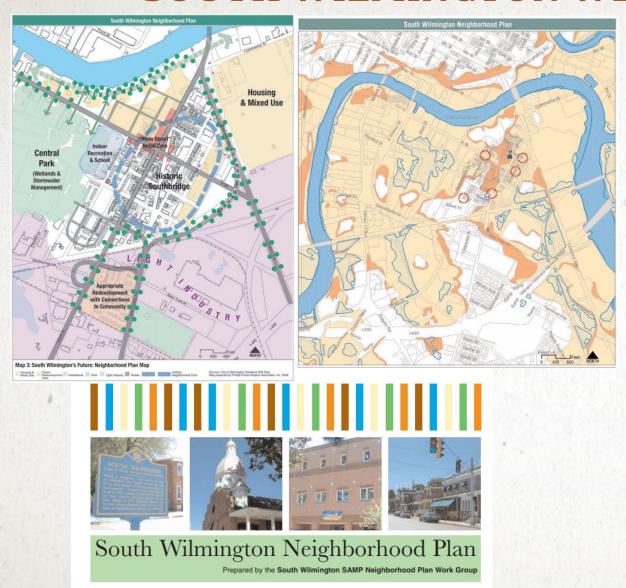






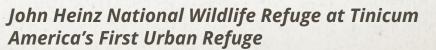


# SOUTH WILMINGTON WETLAND PROJECT









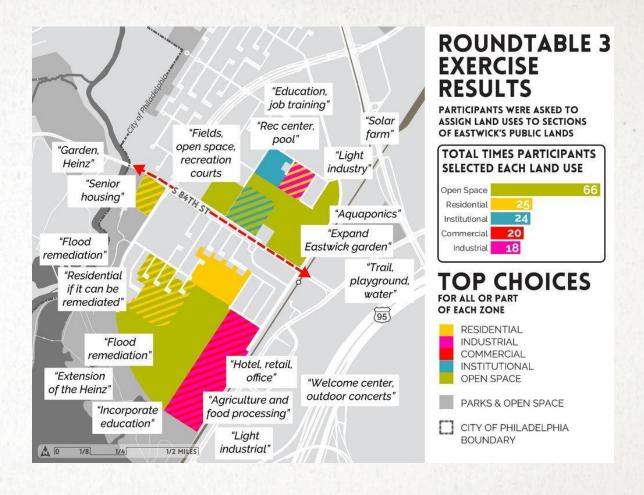




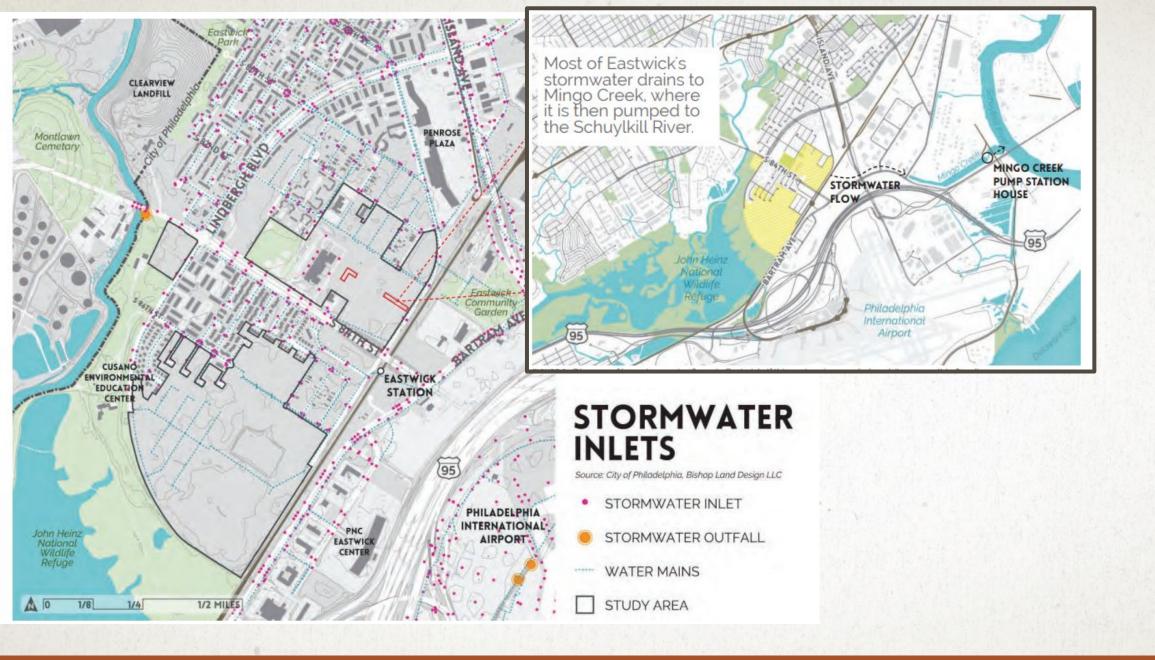
Planning for an inclusive and resilient future in Eastwick

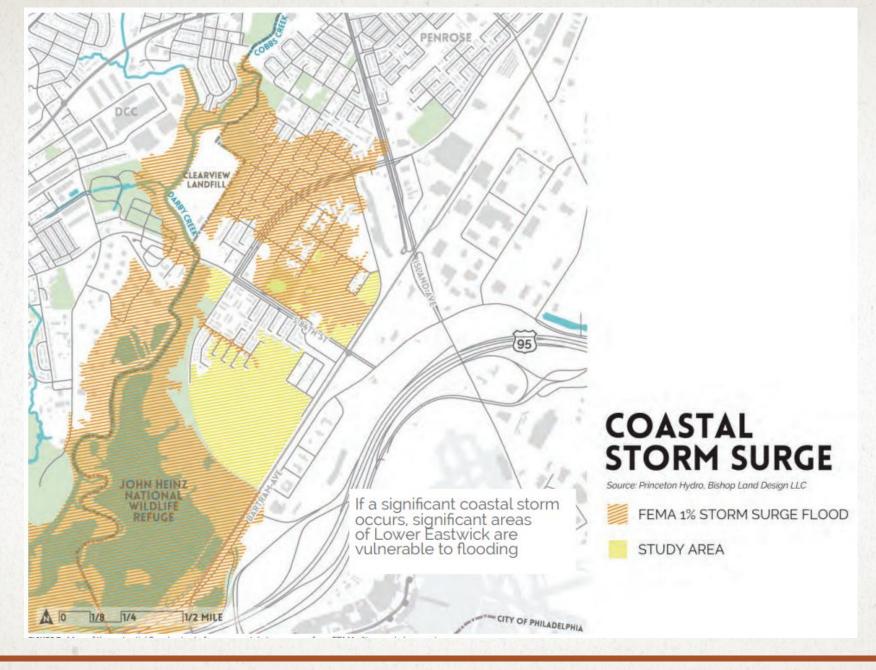
The community's goals for Eastwick are that future development should:

- > Honor Eastwick's rich and complex history
- > Involve the community and respect its neighbors
- > Cultivate a safe, stable, and healthy neighborhood
- > Work to heal the environment (and not make any of the issues worse)
- > Celebrate Eastwick's natural setting
- > Provide sustainable access to opportunity and nurture our youth
- > Build community ties and foster diversity

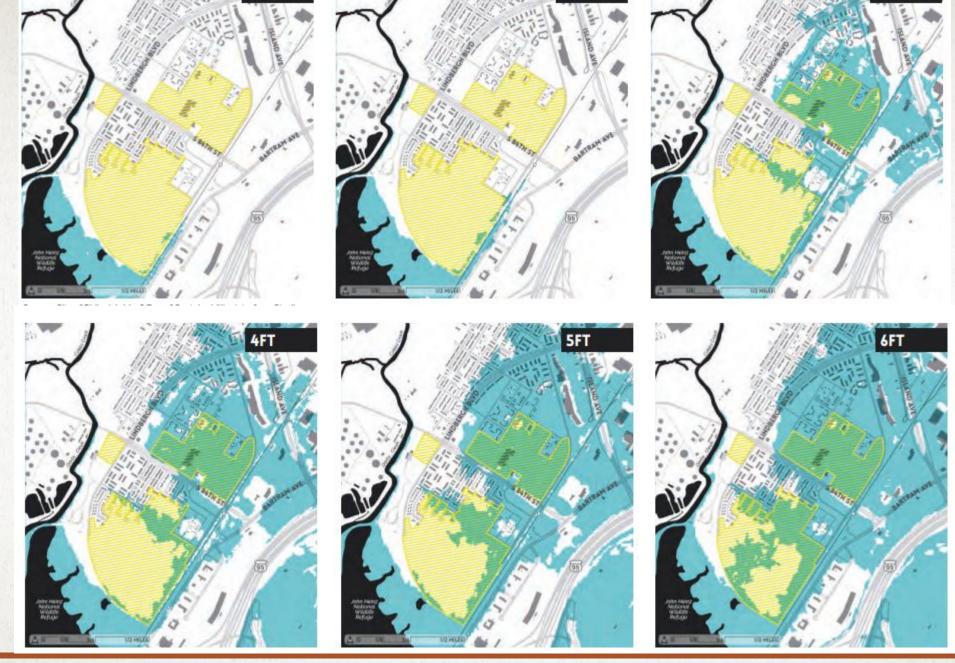








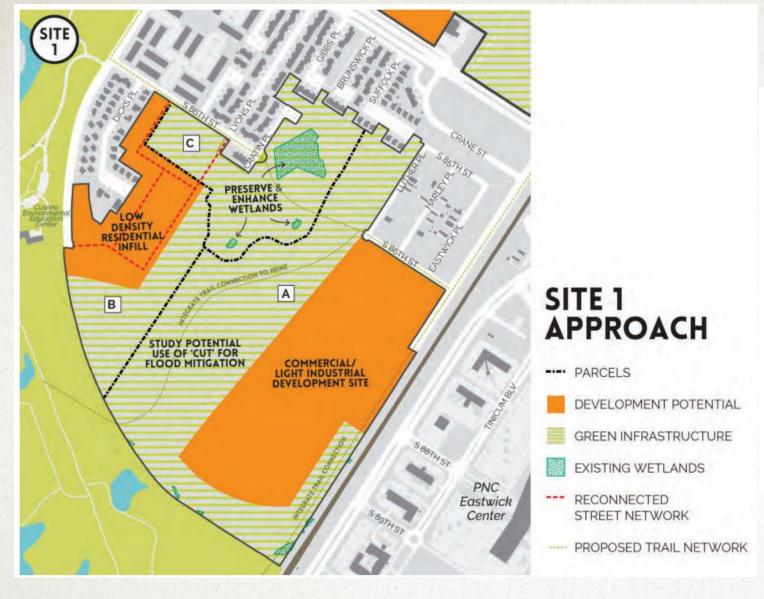




U.S. Fish & Wildlife Service

John Heinz National Wildlife Refuge at Tinicum America's First Urban Refuge









Source: Map Collection, Free Library of Philadelphia

# **QUESTIONS?**



