# Eastwick: From Recovery to Resilience

Quarterly Meeting - March 28, 2024



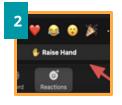
#### **Zoom Functions**

# **Please note:** This meeting will be recorded

#### To ask questions:



Use the **chat** function to ask questions at anytime



Use the **raise hand** function to ask verbally



Click the **unmute** function to speak when called upon

#### If you prefer to remain anonymous:



Turn off your camera by clicking the camera button at the bottom of the zoom window



Change your name by clicking **participants**, and then clicking **more** next to your name OR clicking the **three dots** next to your name and selecting the 'change name' function from the drop-down menu



Ask questions anonymously by submitting them through the **direct message** option at the bottom of the chat window to **Taylor Quinland**.

### Agenda

- Introduction & Recap
- Short Term Resilience Measures
- Community Updates
- **OPEN FORUM**
- Long Term Resilience Measures
- Announcements and Closing

#### Who's in the Virtual Room









































THE CITY OF PHILADELPHIA

OFFICE OF

SUSTAINABILITY

# Poll 1

# Recap

What Are the Steps
To Reach Our Goal



Strengthen
Partnership and
Collaboration

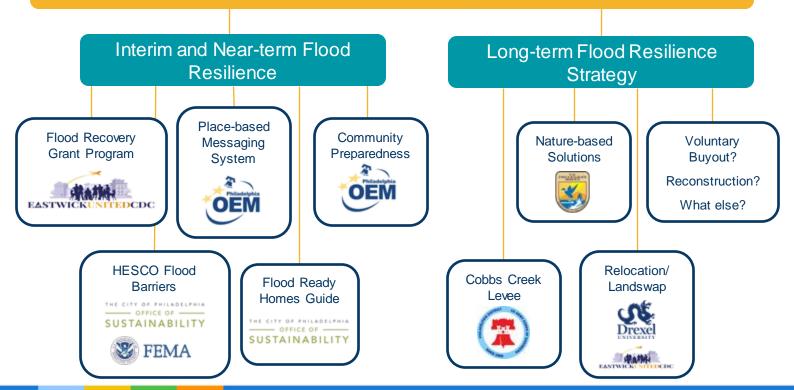
Deliver and Sustain
Transformation
Initiatives

Eastwick: from Recovery to Resilience

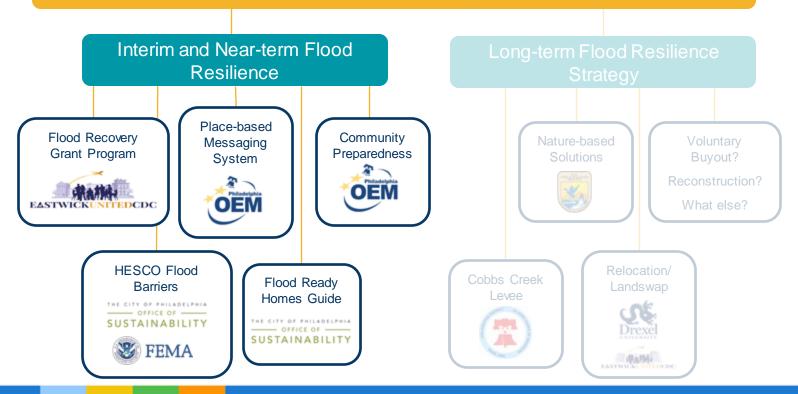
Create a Shared Understanding of the Issues

Co-Develop
Actions that Build
a Resilient Future

### Eastwick: from Recovery to Resilience



### Eastwick: from Recovery to Resilience



# Interim and Near Term Resilience

#### Interim Flood Barriers

- An interim solution using HESCO Floodline barriers
- **Cost Estimate**: \$2.2 million
- **Timeline**: 2-3 years
  - Estimating construction complete 2027
  - Would remain in place for 5-10 years
- Benefits:
  - Preliminary flood modeling shows barriers would protect ~600 homes from moderate flood events
  - Faster implementation than other mitigation measures
  - Aligns with voiced community needs



#### Interim Flood Barriers

#### **Considerations**:

- Mitigation of induced flooding
- Lower level of protection than a levee
  - Emergency management and evacuations will still be necessary for large storms
- Evaluate the need for a replacement plan
- Management of construction and maintenance
- Aesthetic appeal and community engagement



#### NYC Interim Flood Protection Program

- NYC has implemented multiple HESCO barrier projects throughout the city.
- Initiated after Hurricane Sandy to protect from coastal storm surge.











Current alignment (subject to change)



#### Next Steps

- OOS has submitted funding applications to:
  - FEMA Building Resilient
     Infrastructure and Communities
     (BRIC)
  - FEMA Flood Mitigation Assistance (FMA)
  - Congressional Delegated
     Spending, Pre-Disaster
     Mitigation funding update!
- OOS will continue community and stakeholder engagement while awaiting funding



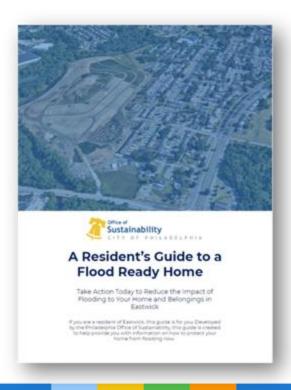
### **Eastwick Recovery to Resilience**

# Flood Ready Home Guide





#### Introducing: An Eastwick Resident's Guide to a Flood Ready Home



#### A new resource designed to:

 Help you better understand where to start and what options are available to take immediate action to keep your family safe and protect your home and belongings

 Provide three "Flood Ready Home Strategies" with steps to reduce the risk of flooding to your home

#### Please keep in mind...

#### What Purpose Is the Guide Intended to Serve?

- This Guide is intended to provide <u>practical</u>, <u>near-term</u>, <u>relatively easy-to-implement</u> steps you can take to reduce the potential for flooding to damage your home and to minimize your recovery period when it does occur
- These measures are intended to provide near-term benefits and backup protection while other longterm measures are being planned and constructed

#### What Purpose Is the Guide NOT Intended to Serve?

- This Guide is *not* intended to provide comprehensive solutions that will completely eliminate your risk of flooding, and does not replace the need for long-term, Eastwick-wide flood mitigation solutions
- Implementation of measures within this Guide does not supplant the need to follow emergency preparedness and evacuations procedures if a flood is forecast



## What's Your Home Type?





#### Type A: Attached 3-Story Single Family Home with Garage and/or Living Space on Ground Floor





For Type A homes, all three Flood Ready Home Strategies described in this guide are potentially applicable, depending on individual circumstances and building conditions.



#### **Home Type B**

#### Type B: Attached 2-Story Single Family Home with Living Space on Ground Floor





For Type B homes, Flood Ready Home Strategy #1 is the most applicable strategy described in this guide, depending on individual circumstances and building conditions.



#### **Home Type C**

Type C: Detached and Semi-Detached 2-3 Story Single Family Home with Garage and/or Living Space on Ground Floor





For Type C homes, all three Flood Ready Home Strategies described in this guide are potentially applicable, depending on individual circumstances and building conditions. This is also the only type for which Structural Elevation may be feasible



# What Are the Flood Ready Home Strategies?

#### **Three Flood Ready Home Strategies**



**Strategy 1:** Minimize the damage when flooding enters your home.



**Strategy 2:** If your structure allows it, reduce damage by keeping the water out.



**Strategy 3:** Follow FEMA best practices to reduce your risk and insurance premiums.



#### Which Strategy Is Right for Your Home Type?







**Home Type A** 







**Home Type B** 







**Home Type C** 









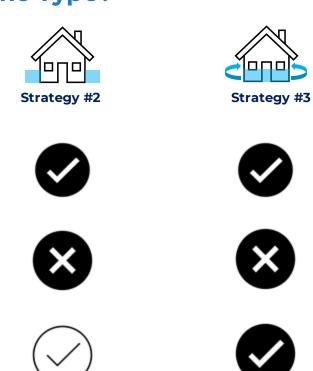
#### Which Strategy Is Right for Your Home Type?



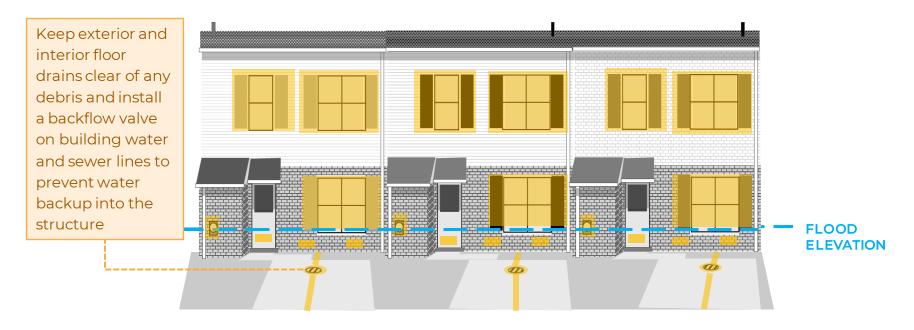
**Home Type A** 

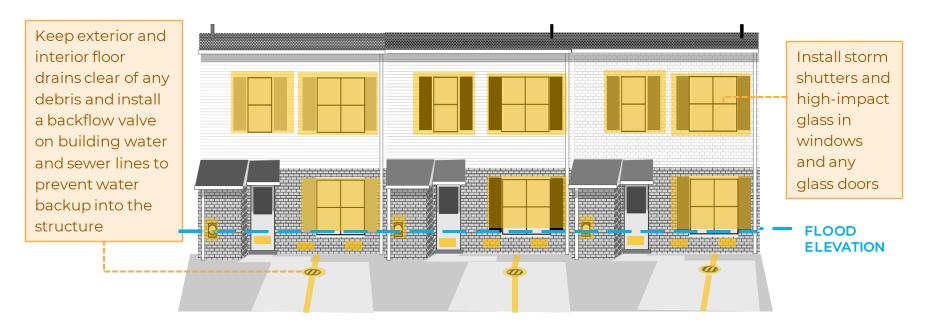
**Home Type B** 

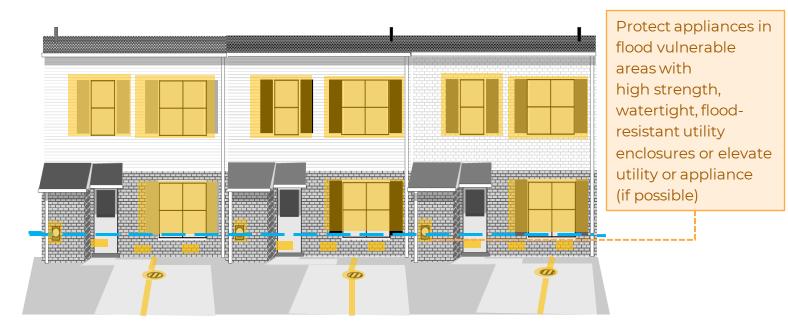
**Home Type C** 



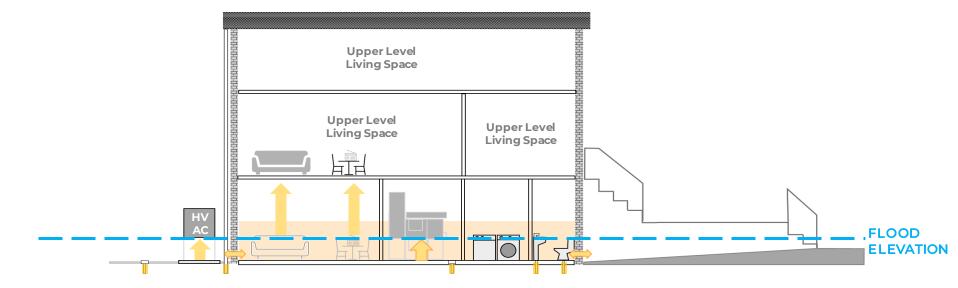


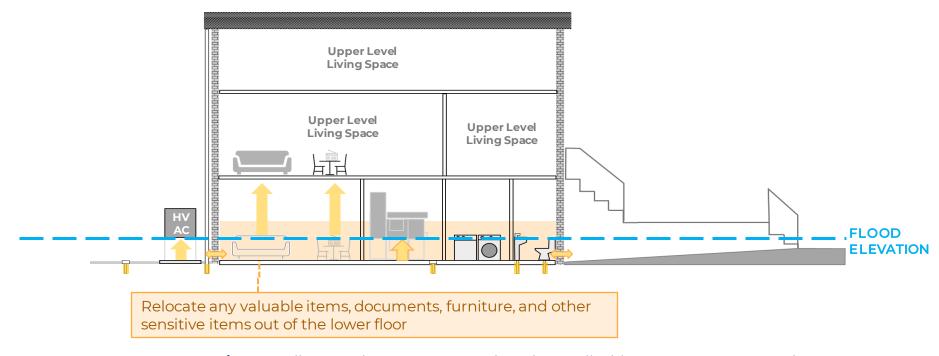


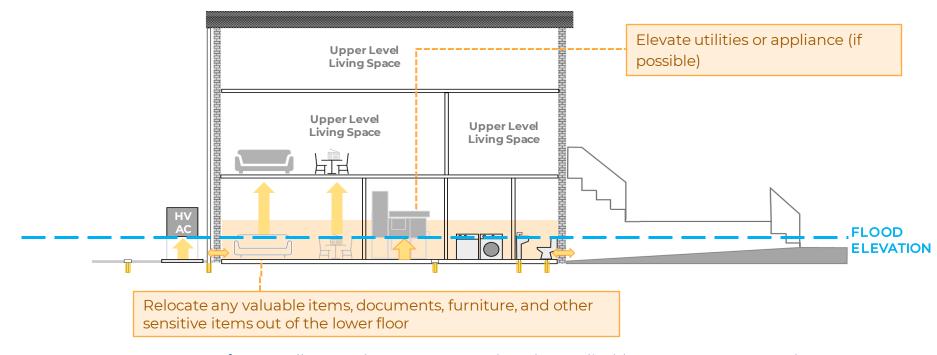


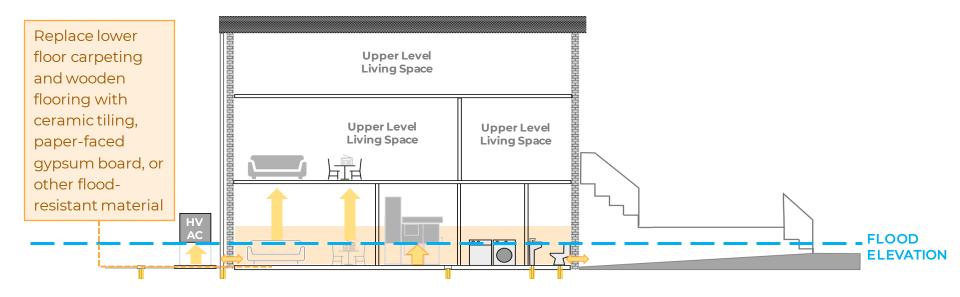


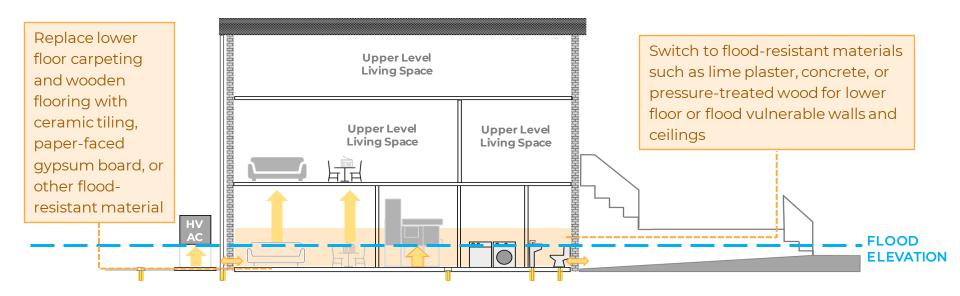














#### What To Do Next?

Reach out to the Philadelphia Office of Sustainability to learn about assistance that may be available.

#### **Korin Tangtrakul**

Program Manager of Place-Based Initiatives, Office of Sustainability, City of Philadelphia (215) 683-1795

Eastwick@phila.gov

- ✓ Talk to a qualified professional about your options
- ✓ Learn from your neighbors
- ✓ Consult the list of local, state, and national resources.



www.phila.gov/media/2023
1214151437/Eastwickresident-flood-readyhome-guide.pdf

Q&A

### **OEM Placed Based Messaging**

- The Office of Emergency Management (OEM), with the support of the Office of Sustainability (OOS), held a workshop on January 26<sup>th</sup> with residents to discuss the place-based message system.
- OEM is making updates to the messaging system based on resident feedback and still aims to launch the system in late Spring 2024 and install flood monitoring technology in late Summer 2024.
- Right now OEM is encouraging people to sign up for ReadyPhiladelphia by creating an online account. When you sign up for the Eastwick subscription, which will ensure you receive all Eastwick specific messaging.
- If you are already signed up for ReadyPhiladelphia you are encouraged to sign back into your online account and select the Eastwick group/subscription.

# Drexel's The Environmental Collaboratory (TEC)

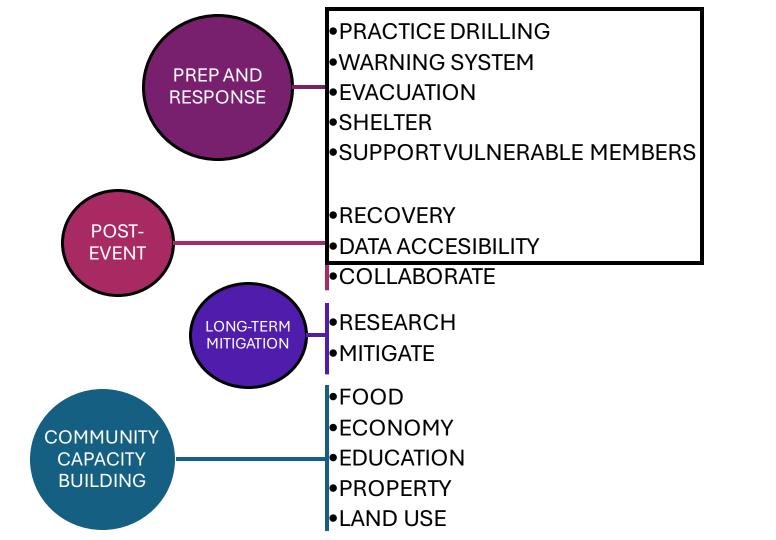
Informational Meetings with OEM-OOS Synthesis of Community Input with Actionable Steps Overlay of Identified Areas with Ongoing Efforts

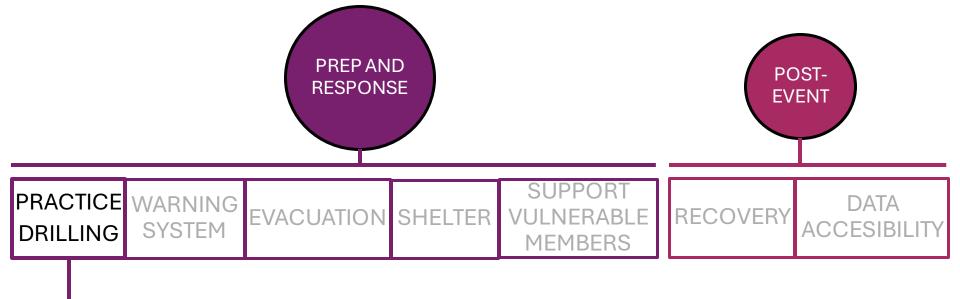
Request for Response and Recommendations

Reporting Back & Looking Ahead as an Independent Collaborator on Community-level Emergency Preparedness

# Reviewed Surveys, Public Comments, And Focus Groups

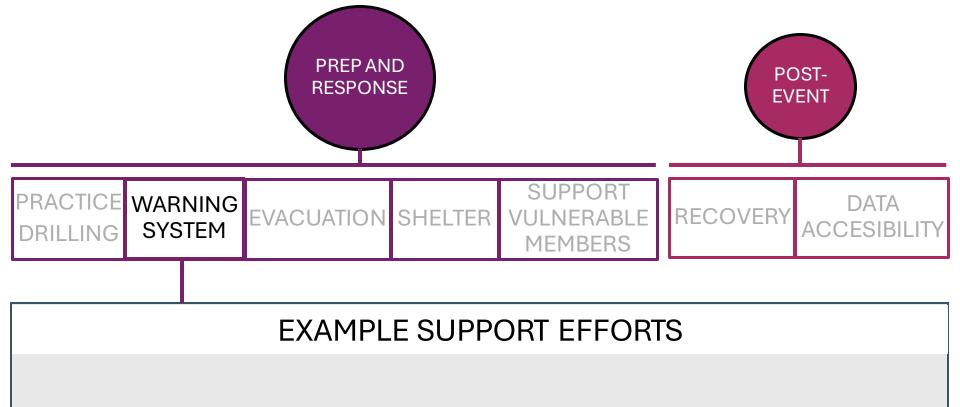
- Drexel and Eastwick United Flooding Surveys (2021 & 2023)
- City's All-Hazard Mitigation Plan: Public Comments
- Feedback and Takeaways from Eastwick Severe Weather Community
   Tabletop (8/3/23)
- OEM's Eastwick Place-based Messaging Pilot (Alert & Warning)
   Collected And Analyzed Responses (2023) Survey & Conversations
- Responses for the CBDG-DR Action Plan
  - OOS-Led Virtual Focus Group in Eastwick
  - Public comments (7/14-8/15 2023)
    - Summary Of Unmet Needs Compiled By Eastwick United



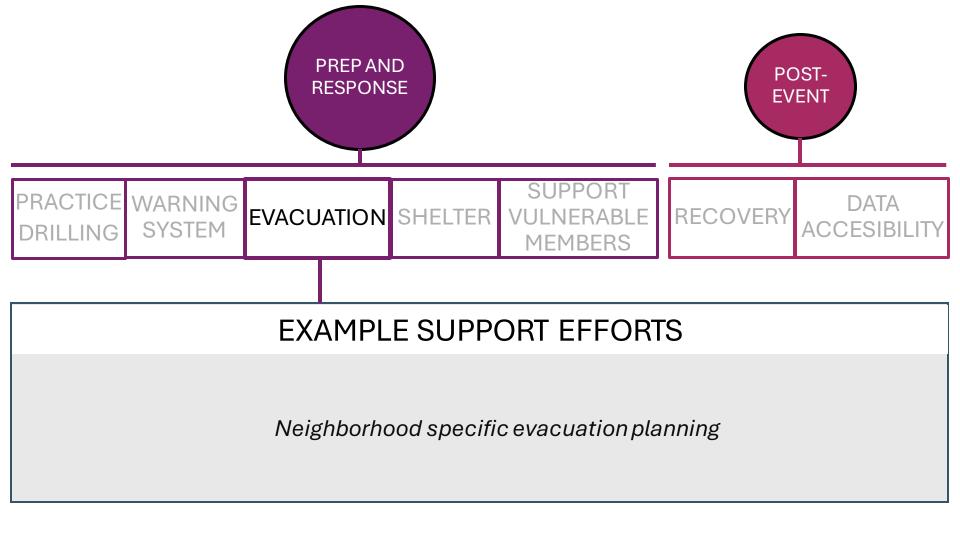


### **EXAMPLE SUPPORT EFFORTS**

Community-level drill organizing (especially for "one tower with elderly non-english-speaking residents")



Community phone tree



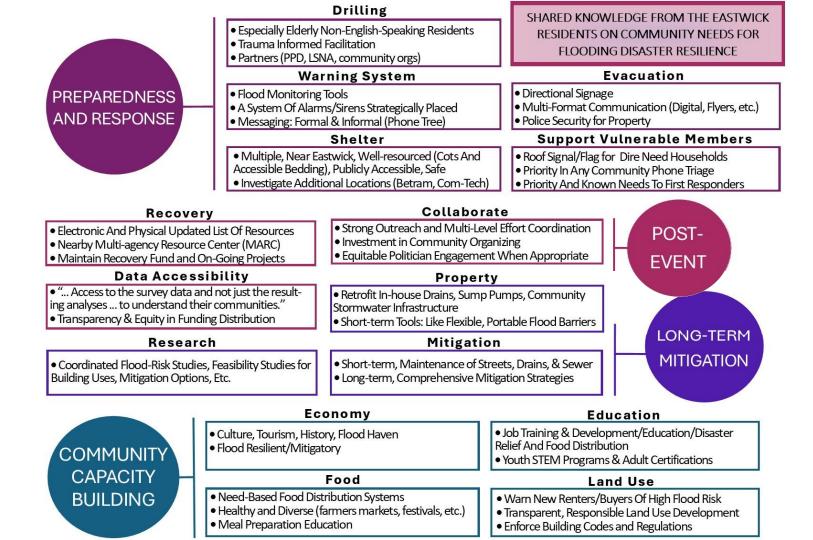
#### **Next Steps:**

- > Provide all synthesis of materials
- Set up a virtual group discussion, and/or collaborate on workshop between The Environmental Collaboratory at Drexel and Eastwick Community Residents [April/May]

Preliminary Questions:

- What Is Missing Or Incomplete From This Synthesis?
- What Near-term Identified Needs Are The Top Priorities?
- In What Way Could Drexel TEC Best Support Eastwick In Flood Emergency Preparations?

To connect with Drexel TEC, please email mhh62@drexel.edu.



Q&A

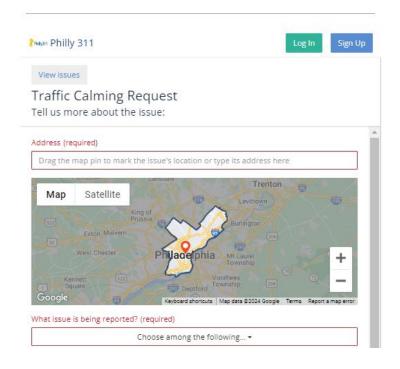
# Community Updates

### Traffic Calming Request Form

- Traffic calming measures like asphalt speed cushions can slow drivers down. They can also make crashes less likely or less severe when they do happen.
- You can request traffic calming for eligible streets. The Department of Streets will review your request, score it, and contact you for further information if it's selected for traffic calming.

#### Submit a request for traffic calming

If your street is eligible for review, you can use the following form to submit a request for traffic calming. You should only submit a request once. Repeated requests will be declined.



### John Heinz National Wildlife Refuge



4/5 Frog Walk
Crafts and gear available!



4/13 Darby Creek Clean Up Volunteers needed! Lunch provided!



4/19 Astronomy Night Stargazing and snacks!



7/30-8/1 Jr. Ranger Summer Camp Registration required!

All events free!

### Upcoming Trail Walk

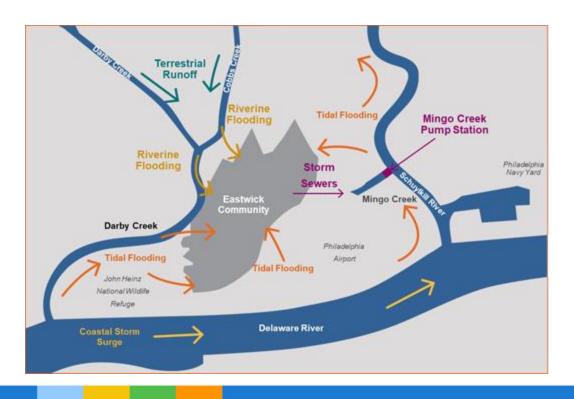
- Saturday, April 20th at 10 am!
- Walk the proposed path of the Cobbs Creek Trail Extension from 80th Street to Island Avenue
- Speak with the City and non-profit partners
- Questions? Email trails@phila.gov



# Open Forum

# Flood Resilience Strategy

### Eastwick is vulnerable to multiple sources of flooding



- Riverine flooding from Darby/Cobbs
- Tidal flooding from the Delaware
- Coastal Storm Surge from the Delaware
- Sea Level Rise

Concept diagram of flood sources in Eastwick. Source: Arcadis

### Eastwick: from Recovery to Resilience



Flood Recovery Grant Program



Place-based Messaging System



Community Preparedness





Cobbs Creek Levee



Relocation/

Landswap



EASTWICK CNITEDEDC

HESCO Flood Barriers

OFFICE OF SUSTAINABILITY



Flood Ready Homes Guide

OFFICE OF SUSTAINABILITY

Long-term Flood Resilience Strategy

Nature-based Solutions



Voluntary Buyout?

Reconstruction?

What else?

### USACE Levee Feasibility Update

- Next steps for finalizing the feasibility study:
  - Incorporating public comments
  - Additional data collection (bathymetric survey, bridge elevations)
  - Optimizing levee design
  - Evaluating complementary measures to mitigate induced flooding
- Complementary measures may exceed program cost allowance
  - Exploring funding sources and partnership opportunities to fund complementary measures
- Estimated timeline:
  - Complete data collection, data analysis, and refine modeling: December 2024
  - Complementary measure and levee optimization: Summer 2025
  - Finalize Feasibility Report: Fall 2025

Q&A

## Approach for Flood Resilience Strategy











**INTEGRATING EXISTING** STUDIES AND CONCEPTS INTO COMPREHENSIVE **PLANNING PROCESS** 



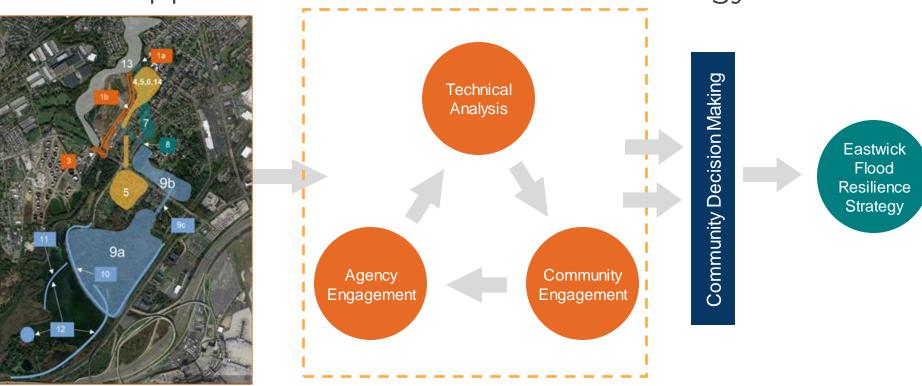








## Approach for Flood Resilience Strategy



### Flood Resilience Strategy – Consultant Team













Resilience Strategy & Technical **Modeling Lead** 

Community Engagement & Outreach

**Urban Planning &** Design, Landscape *Architecture* 

Housing & Disaster Recovery **Funding** 

Community-Supported Buyout Planning

### Kicking off in April! What to Expect:

- Formation of a Community Committee to guide engagement, share resident perspectives, and hold the project team accountable
  - Working with EU, EFNC, and Heinz refuge to develop this committee
- Variety of community engagement methods
- Continued coordination and collaboration with agency partners

#### Anticipated outcomes:



Community decision making around flood resilience measures



Concept designs and benefit cost analysis for preferred measures



Submission of grant applications to fund implementation

Q&A

# Poll 2

