



# Governor's Office of Storm Recovery



**Andrew M. Cuomo**  
Governor

**Lisa Bova-Hiatt**  
Interim Executive Director

## Living Breakwaters and Tottenville Dune Projects

Living Breakwaters Citizens Advisory Committee Meeting #1  
July 16, 2015



# Living Breakwaters Citizens Advisory Committee (CAC)

## Agenda

1. Welcome
2. Introductions
3. CAC Roles and Responsibilities
4. Living Breakwaters and Tottenville Dune Project Overview
5. Project Status and Updates
6. Next Steps
7. CAC Comment and Question
8. Public Comment and Question



# Introductions

## *Project Team & Partners*



NYC Parks



SCAPE / LANDSCAPE  
ARCHITECTURE PLLC

**D A S N Y**

DORMITORY AUTHORITY STATE OF NEW YORK

**REBUILD  
BY  
DESIGN**



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## **CAC Member Introductions**

**James Pistilli (co-chair)**

**Debra Amoroso**

**Phyllis Broughton**

**Edward Canlon**

**Catherine Cramer**

**Kerry Halvorsen**

**Albert Klingele**

**Michael Kress**

**Victoria Cerullo (co-chair)**

**Gloria Maldonado**

**John Malizia**

**Nicole Nigro**

**Pamela Pettyjohn**

**Anthony Reinhart**

**Frank Santarpia**

**Bill Shadel**

**Diane Silverman**



# Living Breakwaters Citizens Advisory Committee (CAC)

## What is the Living Breakwaters CAC?

- Composed of up to 20 local and regional stakeholders, including non-profit organization representatives
- CAC members chosen to represent the diverse communities across SI and the region
- Representatives selected by the State through online and paper application submissions
- CAC has two (2) designated co-chairs
- CAC will have an advisory role and will not replace public engagement events or workshops
- All CAC meetings will be open to the public

## CAC Roles & Responsibilities

- **Review:** Receive updates on the project as it progresses from conceptual development through environmental review into design and eventually construction
- **Engage:** Provide updates to and receive feedback from the larger community through innovative forms of engagement
- **Advise:** Advise the State on design and potential impacts of the project
- **Collaborate:** Work with the State on identifying alternative funding sources for part of the project and work to identify stakeholders on monitoring of the project post-construction



More information on the public CAC process can be found at: <http://stormrecovery.ny.gov/public-cac-process>

# Living Breakwaters and Tottenville Dune Projects Overview

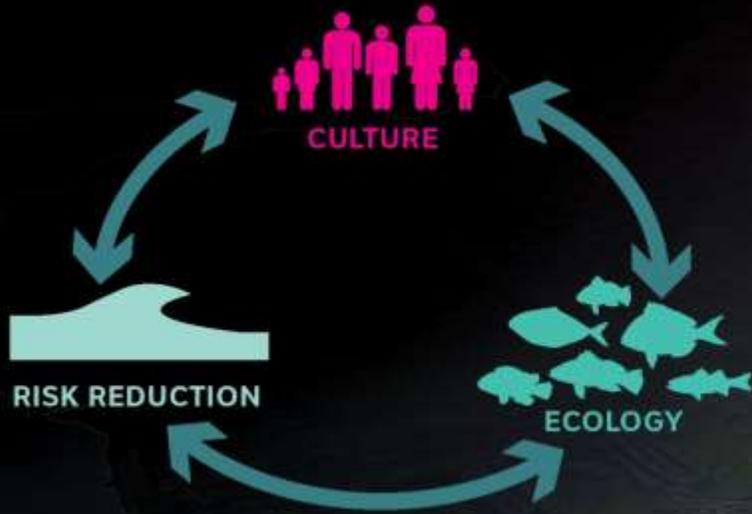
## Living Breakwaters - \$74m (\$60m funded)

- Reduces risk, revives ecologies, connects residents & educators to the shoreline
- 13,000 linear foot (4,000 meters) off-shore breakwater
- Layered approach to reduce wave energy, shoreline erosion, and overall risk
- Provides structural habitat intended to restore & enhance the ecosystems of Raritan Bay
- Fosters community resiliency by providing a space (“Water Hub”) for community engagement on the shoreline (*pending funding and programming needs*)

## Tottenville Dune Project - \$6.75m

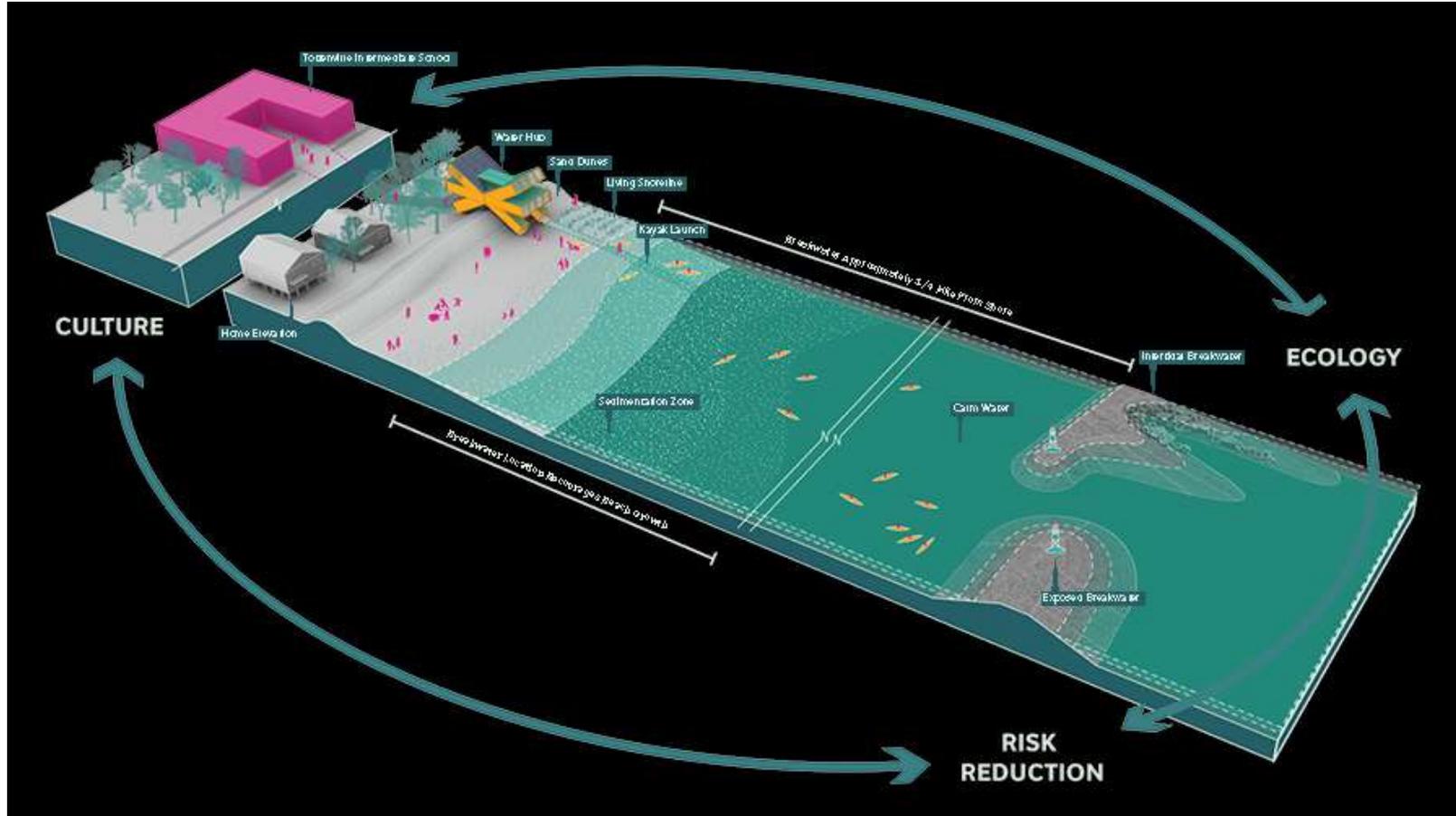
- New York Rising Community Reconstruction Project
- Designed by community stakeholders
- Works collaboratively with the breakwaters project
- Vegetated dune system with reinforced core & sand cap





- Risk Reduction**
  - Off-shore breakwaters to reduce wave action
  - On-shore dune system to reduce shoreline erosion
- Ecological Resiliency**
  - Oyster habitat restoration
  - Juvenile fish habitat
- Social Resiliency**
  - Waterfront access
  - Community programing & education

# Living Breakwaters – *The Layered Approach*



# Project Status and Updates

- **December/January 2015:** Preliminary Meetings/Consultations with USCACE, DEC, NOAA
- **January 30:** Circulation of Preliminary Draft Scope/Lead, Cooperating Agency Letters
- **April 2015:** Publication of NOI/EIS
- **April 8:** GOSR met with SI elected officials & staff to brief them on project
- **April 14:** GOSR meet with SI CB 3 Parks/Envir. Committee
- **Public Hearings held:**
  - **April 30:** Staten Island
  - **June 2:** Manhattan
- **June 15:** Public Comment Period on Draft Scope of Work due
- **July 2015:** GOSR & NYC Parks Sign MOU
- **July 2015:** First CAC Meeting Held



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# Project Status and Updates

## *Environmental Impact Statement (EIS) Review Continues*

### PURPOSE & NEED

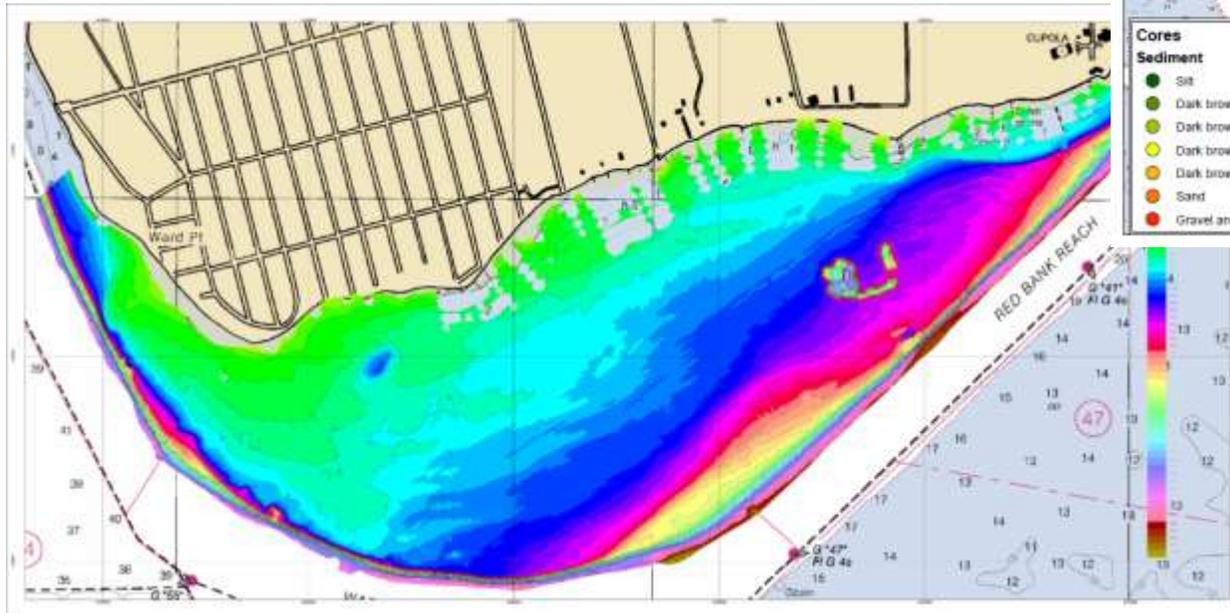
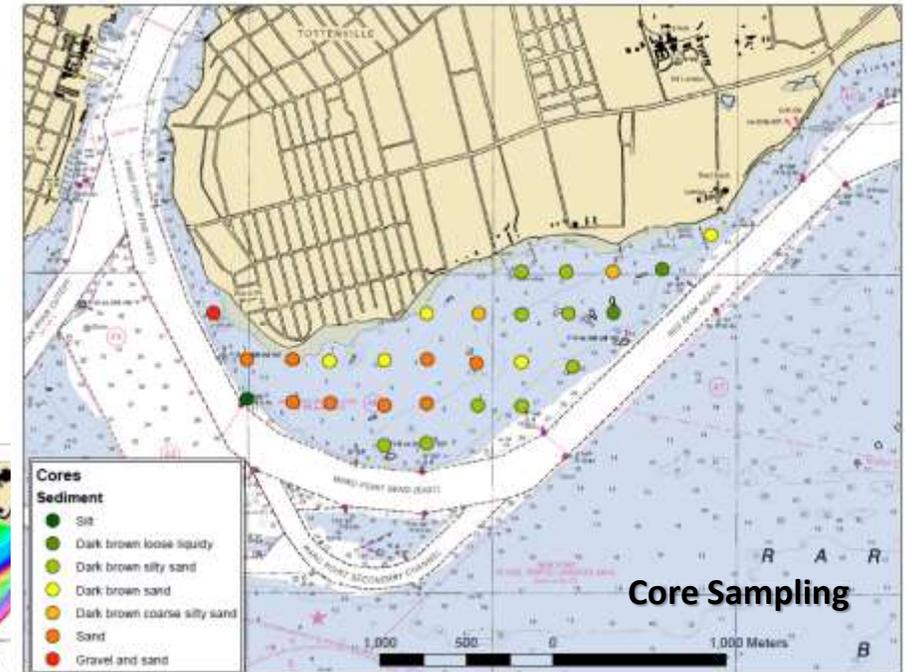
- **RISK REDUCTION**
  - Attenuate wave energy
  - Address both event-based and long-term shoreline erosion / preserve beach width
  - Address the impacts of coastal flooding
- **ECOLOGICAL ENHANCEMENT**
  - Increase diversity of aquatic habitats consistent with the Hudson Raritan Estuary plan priorities (e.g., oyster reefs and fish and shellfish habitat).
- **SOCIAL RESILIENCY**
  - Foster community education on coastal resiliency directly tied to and building off the structural components of this resiliency initiative
  - Improve access to the water's edge
  - Enhance community stewardship of on-shore and in-water ecosystems
  - Increase access to recreational opportunities

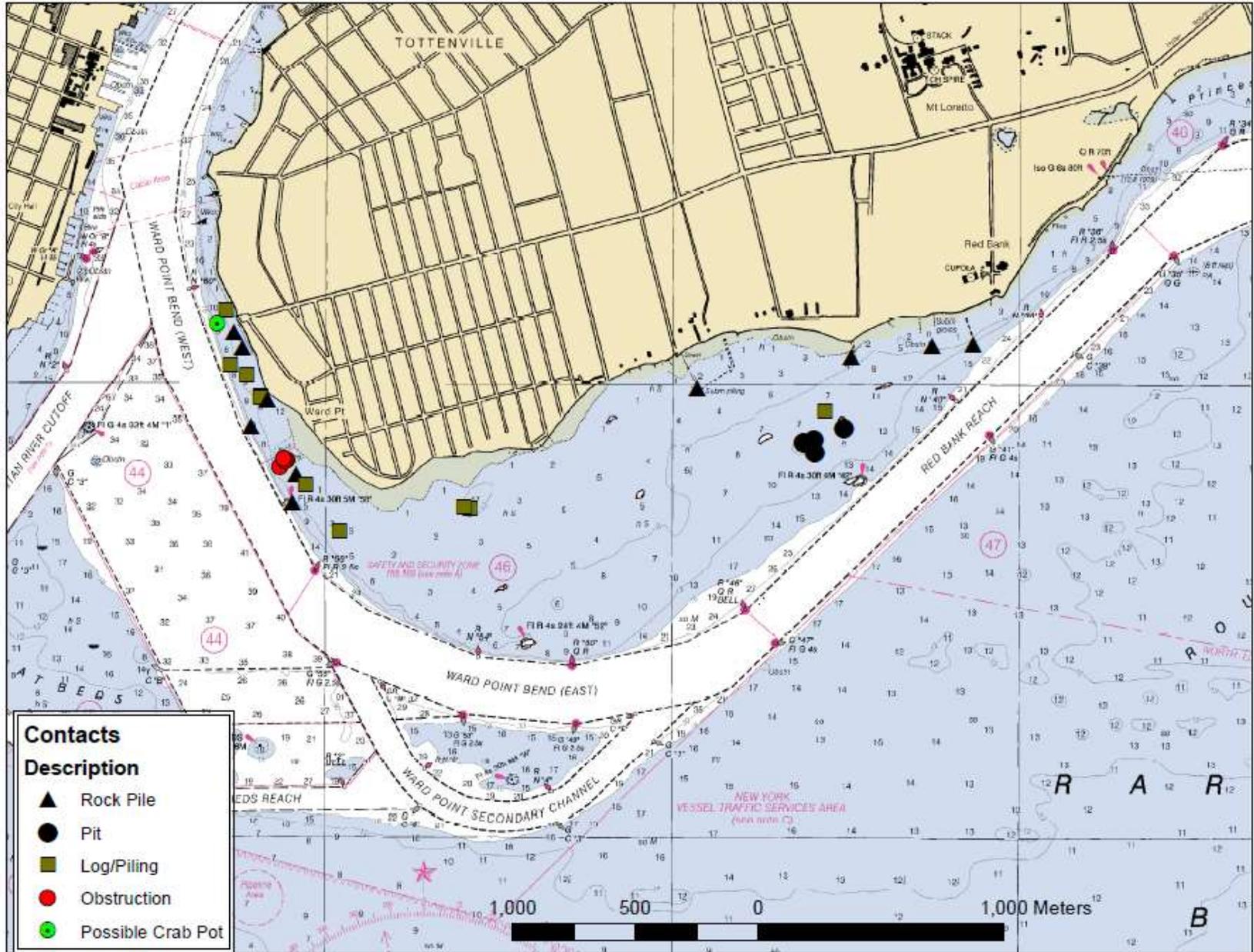


# Project Status and Updates

## *Studies Completed and In Progress*

- SEDIMENT SAMPLES, BATHYMETRIC, AND GEOPHYSICAL
- BENTHIC/ESSENTIAL FISH HABITAT STUDY, ONSHORE SPECIES
- ARCHEOLOGIC/HISTORIC STUDIES
- SPRING WILDLIFE AND PLANT RECONNAISSANCE SURVEY
- JUNE BEACH SAMPLING FOR HORSESHOE CRAB EGGS





# Studying Marine Habitat



# Studying Marine Habitat



# Analyzing the Seafloor



# Collecting Sediment Samples



# Project Status and Updates

## *Public Comment – What We Heard*

### Common Themes

- Tie-in coastal protection measures to higher ground
- Community impacts (ie: traffic, construction, etc.)
- Level of risk reduction
- Public access to water and beach



# Project Status and Updates

## *Anticipated Project Timeline (Updated)*

	Start	Finish
Living Breakwaters	Quarter 4 2014	Quarter 4 2020
Study, Research Planning	Quarter 4 2014	Quarter 1 2016
Environmental Review and Permitting	Quarter 4 2014	Quarter 3 2016
Design and Engineering	Quarter 3 2015	Quarter 4 2017
Site Development	Quarter 3 2016	Quarter 2 2017
Construction	Quarter 2 2017	Quarter 4 2019
Closeout	Quarter 4 2019	Quarter 4 2020



*Estimated timeline subject to change*

# Next Steps

- **July – September 2015: Future Studies**
  - Fish beach seine, trap, and trawl survey
  - Hard bottom diver survey (benthic macroinvertebrate and fish observational transects, and quadrat rock scraping)
  - Wildlife and plant reconnaissance survey
  - Benthic macroinvertebrate, clam tissue, fish beach seine, trap and trawl surveys
  - Traffic Analysis
- **August 2015: Design Begins**
- **Ongoing Coordination with State, City & Federal Partners; Design Teams**
- **Meetings**
  - August: CAC to further define role
  - September: Next anticipated CAC meeting



## Comments or Questions?

**Governor's Office of Storm Recovery website:**

<http://stormrecovery.ny.gov>

**Rebuild by Design:**

<http://stormrecovery.ny.gov/rbd>

**Community Reconstruction Program:**

<http://stormrecovery.ny.gov/cr>

**Environmental Documents:**

<http://stormrecovery.ny.gov/environmental-docs>

**Tottenville Public Library**

7430 Amboy Rd, Staten  
Island, NY 10307

**The Governor's Office of  
Storm Recovery**

25 Beaver Street, 5th floor,  
New York, NY 10004

Hours: 9a – 5p

