

**Citizens' Advisory
Committee Meeting
with the
Peconic Estuary Program**



PEP CCMP Revision Underway

Categories ▾

Tags ▾

<

NOVEMBER 2018 – FEBRUARY 2019

>

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⊖ Collapse All

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📅 Agenda ▾

NOV

9

Fri

CCMP Workshop: Water Quality Chapter @ Suffolk County Community College Culinary Arts and Hospitality Center

Nov 9 @ 9:00 am – 1:00 pm

This WATER QUALITY CCMP Workshop meeting will look at CHAPTER 4: CLEAN WATERS AND WATERSHEDS.

CATEGORIES:

CCMP WORKSHOP MEETING

Read more →

DEC

5

Wed

CCMP Workshop: Habitat and Living Resources Chapter @ Suffolk County Community College Culinary Arts and Hospitality Center

Dec 5 @ 9:00 am – 1:00 pm

This HABITAT AND LIVING RESOURCES CCMP Workshop meeting will look at CHAPTER 5: Healthy Ecosystem with Abundant, Diverse Wildlife .

CATEGORIES:

CCMP WORKSHOP MEETING

Read more →

JAN

7

Mon

CCMP Workshop: Climate Change and Resiliency Chapter @ Suffolk County Community College Culinary Arts and Hospitality Center

Jan 7 @ 9:00 am – 1:00 pm

This CLIMATE CHANGE AND RESILIENCY CCMP Workshop meeting will look at CHAPTER 7: Resilient Estuary Communities Prepared for Climate Change.

CATEGORIES:

CCMP WORKSHOP MEETING

Read more →

FEB

6

Wed

CCMP Workshop: Public Engagement and Stewardship Chapter @ Suffolk County Community College Culinary Arts and Hospitality Center

Feb 6 @ 9:00 am – 1:00 pm

This PUBLIC ENGAGEMENT AND STEWARDSHIP CCMP Workshop meeting will look at CHAPTER 6: Well-informed, Active Stewards throughout the Local Community.

CATEGORIES:

CCMP WORKSHOP MEETING

Read more →

- CCMP outline submitted to EPA on **September 30th, 2018**. Comments from the EPA were reviewed and incorporated.
- **PEP is now hosting four CCMP Workshop Meetings monthly** throughout November, December, January and February to gain specific feedback on the Draft CCMP Outline and Chapters.
- The draft CCMP document is anticipated to be submitted for review by EPA, NYSDEC, Suffolk County and Local Governments in March 2019.

Peconic Estuary Solute Transport Model

Contracting with United States Geologic Survey

Status: GIS preparation and Model Development phase. **Most recent project meeting on November 14th, 2018.**

Link to [Solute Transport Model Workplan](#)



Objective: This Solute Transport Model will be a tool to estimate time-varying nitrogen loading rates to the Peconic Estuary resulting from wastewater and fertilizer inputs to the groundwater. The overall objective of the study is to apply methods that will allow for the quantitative analysis of nitrogen loading rates to the Peconic Estuary resulting from wastewater and fertilizer inputs to groundwater in Suffolk County.

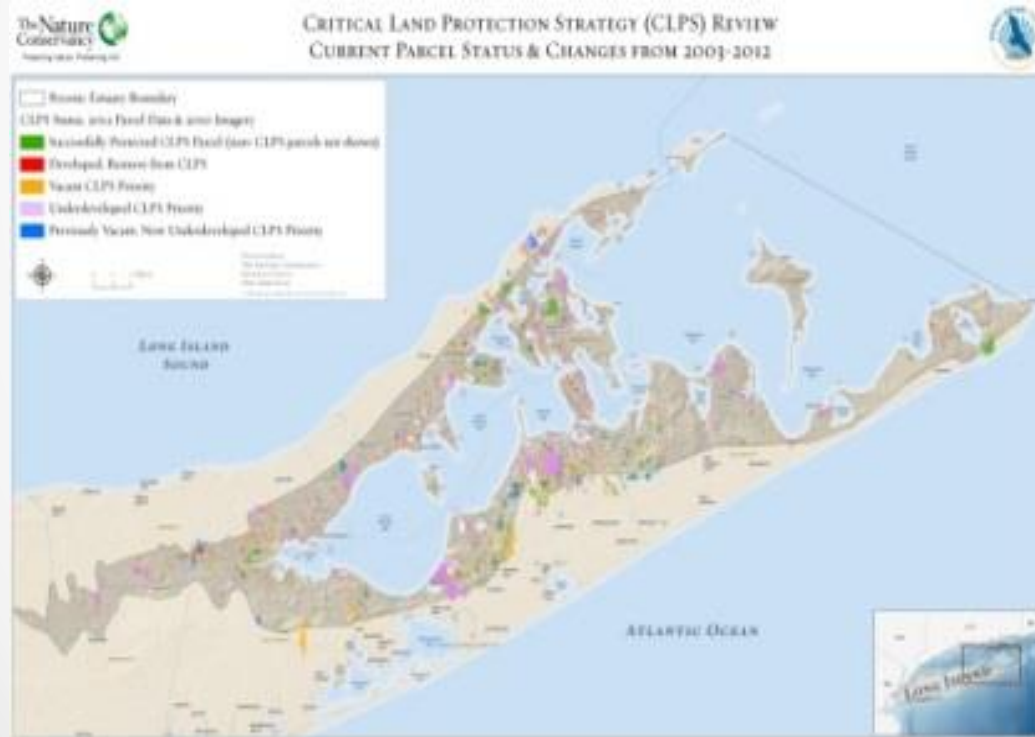
Specifically, the objectives of the investigation are to

- 1) develop data sets representing current and historic land uses relevant to nitrogen loading in coastal watersheds
- 2) incorporate these data as source terms in models capable of simulating transport processes to estimate current estuarine loading rates and nutrient concentrations in the aquifer, and
- 3) use these current-condition models to simulate the response of estuarine loading rates to possible wastewater-management actions.

CLPS Update and Climate Ready Assessment Services for PEP and Shinnecock Indian Nation

Contracting with Anchor QEA

Status: New CLPS criteria being circulated for review and feedback. Next Steps: Mapping of CLPS.



Objective:

1) Re-evaluation of the original prioritization of the Critical Lands Protection Strategy (CLPS).

2) Assessment of climate change vulnerabilities of the environmental restoration and protection programs for both the Peconic Estuary Program and Shinnecock Indian Nation.

Habitat Restoration Projects



2017 Habitat Restoration Plan & Map Finalized

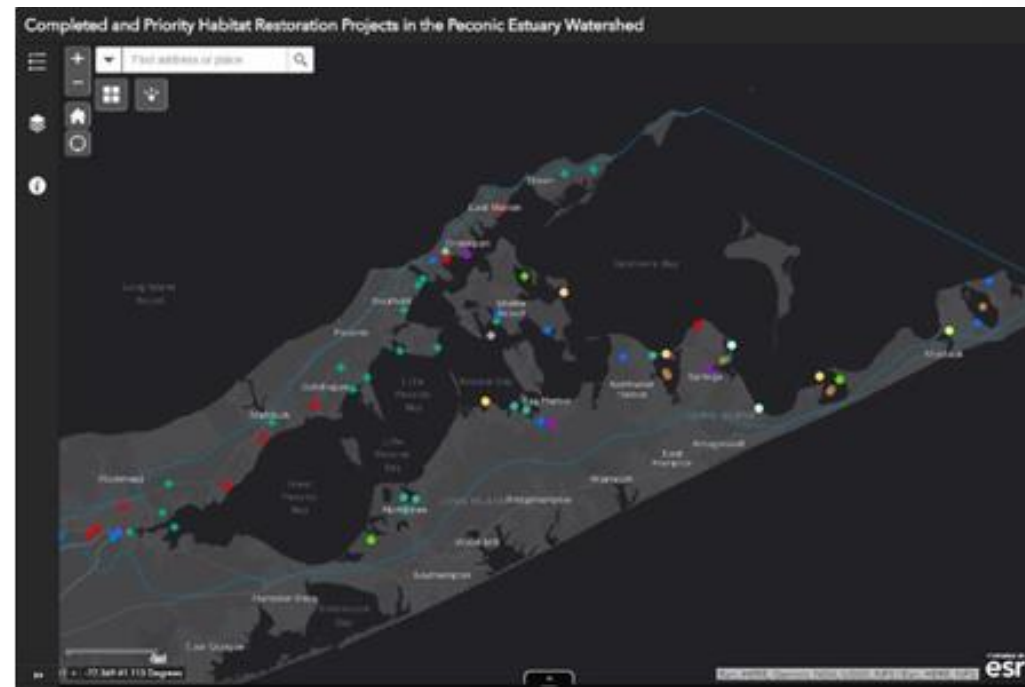
- Interactive GIS Map of Habitat Restoration Projects is live!
- This map complements the [2017 Peconic Estuary Program Habitat Restoration Plan](https://www.peconicestuary.org/news-and-blogs/maps-gis/habitat-restoration/) and will serve as a tool to track habitat restoration progress: completed, ongoing, and priority habitat restoration projects in the Peconic Estuary watershed.
- <https://www.peconicestuary.org/news-and-blogs/maps-gis/habitat-restoration/>

2017 PECONIC ESTUARY PROGRAM HABITAT RESTORATION PLAN



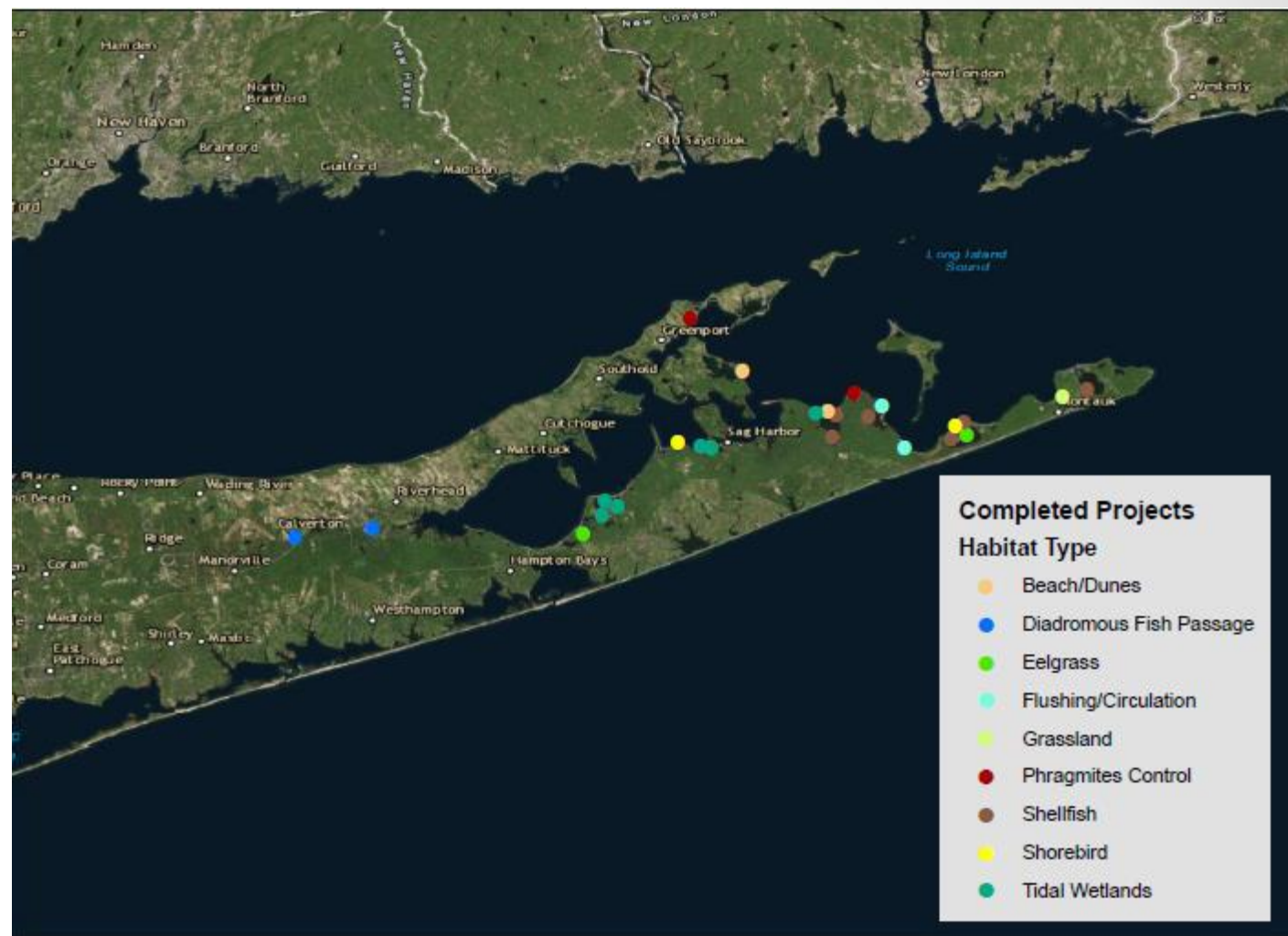
Prepared by:

Elizabeth Hornstein, Peconic Estuary Program State Coordinator



Habitat Restoration/Protection Progress To Date

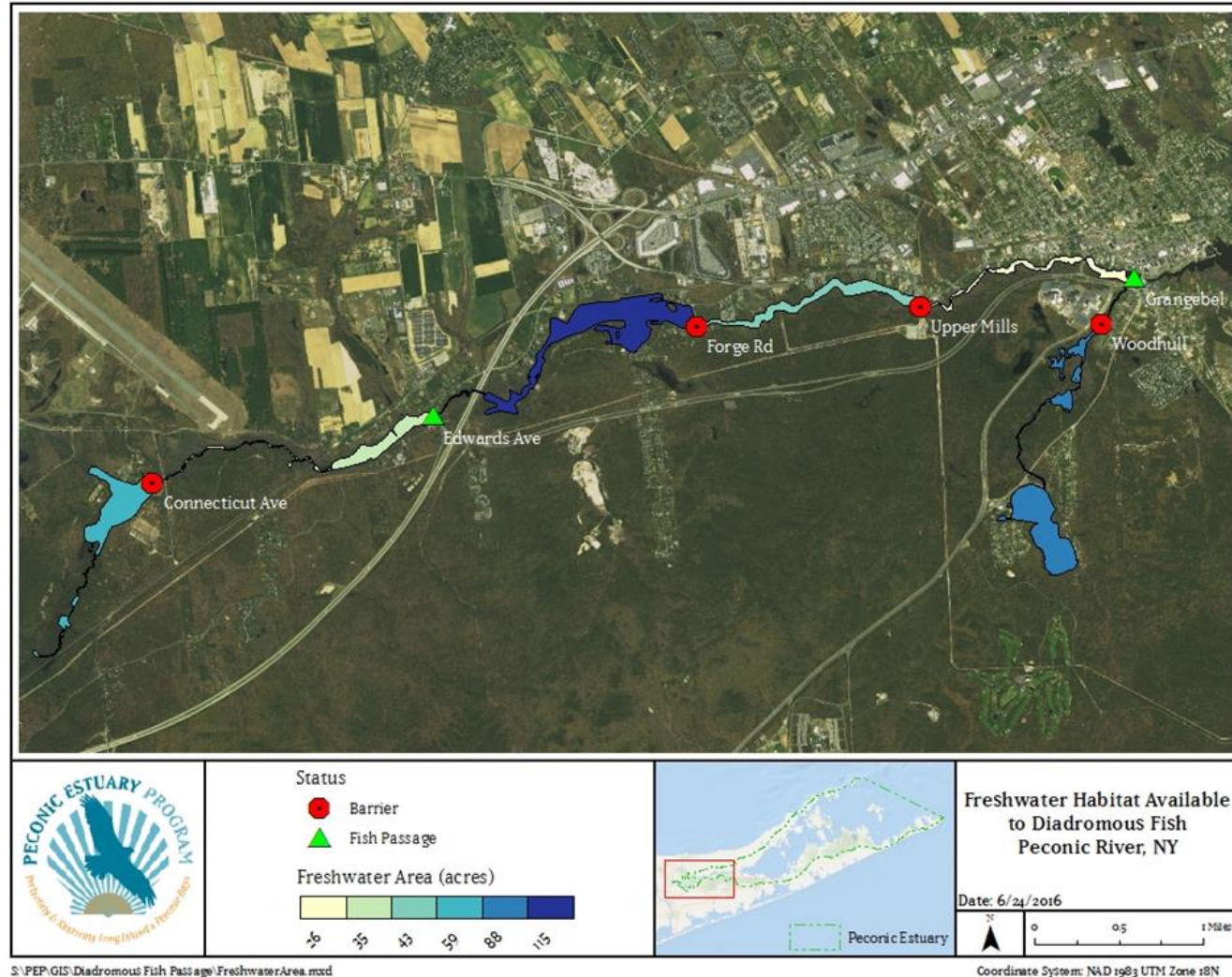
- 27 Completed Habitat Restoration Projects
 - Beach, Shorebird, Wetland, Invasive Species, Grassland, Diadromous Fish Habitat, Shellfish, Eelgrass, Water-Quality Improvement
 - 4 Partially Completed Habitat Restoration Projects
 - 13 Projects In-Progress
- 2,540 acres of land protected



Progress in Diadromous Fish Habitat Restoration

The Peconic Estuary Program is working with its partners to restore critical freshwater spawning and maturation habitat for diadromous fish on the Peconic River.

Goal: Restore 300+ acres of habitat, Increase Alewife Population



Completed Fish Passage Projects



- February 2010 – Grangebel Rock ramp completed
- Cost \$1,000,000
- Opened up 25 acres and 1.5 miles of habitat
- 40,000-80,000 alewife use this fishway each year

- June 2016 - Alaskan steep pass and eel passage installed at Edwards Avenue Dam
- \$967,500 to construct
- Will open up 35 acres of diadromous fish habitat once downstream projects are completed



A photograph of a small waterfall or rapid in a stream. The water is dark and turbulent, cascading over rocks. The surrounding area is lush with green vegetation, including bushes and trees. The scene is captured from a low angle, emphasizing the flow of the water.

- CENTER DRIVE SOUTH (C.R. 51)**

NOTES:

 - SEE PROFILE AND MESELELANDS DETAILS FOR INFORMATION NOT SHOWN.
 - ALUMINUM GRATE ON TOP OF FISH PASSAGE NOT SHOWN FOR CLARITY (SEE DETAILS).
 - CONTRACTOR SHALL USE TURBIDITY CURTAINS DURING CONSTRUCTION OF THE FISH PASSAGE.
 - EXISTING TREES AND SHRUBS SHALL BE REMOVED FROM THE JOB AS REQUIRED BY THE MITIGATIONS.
 - ALL PROPOSED DRAINAGE PIPE SHALL HAVE WATER TIGHT JOINTS.
 - PROPOSED BELT PASSAGE SHALL BE AN "H" SHAPE, ALUMINUM BELL WITH 1/4" WALL. BOTTOM OF BELT PASSAGE TO BE LINED WITH ARMEDMAN AND ENDWENT AT APPROVED EQUAL SEE DETAILS.
 - CLEARING SHALL BE MINIMIZED TO THE GREATEST EXTENT POSSIBLE. ALL CLEARING AND DISTURBED AREA IS SHOWN ON THE PLAN SHALL BE REPLANTED WITH HYDRICALLY APPROPRIATE NATIVE SPECIES PLANTING (SEE NOTE 7).

LEGEND:

 - Solid line: LIMIT OF DISTURBANCE
 - Dashed line: PROPOSED HYDROZONING
 - Hatched area: PROPOSED WETLAND PLANTINGS
 - Diagonal lines: REPLACE EXISTING WETLAND PLANTS (SEE NOTE 7)

PERMIT PLAN

DATE	APPROVAL
REVISED	APPROVAL
COUNTY OF SUFFOLK	
WOODHILL DAM FISH PASSAGE	
GENERAL PLAN	
L. K. McLEAN ASSOCIATES, P.C.	
Prepared by: RML	Date: APRIL 2017
Drawn by: RML	Date: APRIL 2017
Approved by: RML	Date: APRIL 2017

Upper Mills Dam and Weir



- Contracting with L.K. McLean Associates for engineering design/permitting services
- Nature-like fishway and partial dam removal are being considered
- Will open up 40 acres of diadromous fish habitat

Conceptual Habitat Restoration Design Planning in the Peconic Estuary

Peconic Estuary is contracting with Land Use Ecological


Conceptual habitat restoration designs will be developed for the following identified priority sites:

- a. Southold: Narrow River Road Wetland Restoration
 - b. Southampton: Iron Point Wetland Restoration
 - c. East Hampton: Lake Montauk Alewife Access and Habitat Enhancement
 - d. Riverhead: Meeting House Creek Main Road Wetland Construction/Restoration
- 2016 Suffolk County Capital funds have been secured for implementation of the Lake Montauk project.
 - PEP secured 2018 NEP Funds (\$173,719) for implementation of the Meeting House Creek project.




Living Shoreline Pilot Projects


Enhance the resiliency and ecological value of coastal habitats by encouraging living shorelines over hardened shorelines

 **LIVING SHORELINES SUPPORT RESILIENT COMMUNITIES**


Living shorelines use plants or other natural elements—sometimes in combination with harder shoreline structures—to stabilize estuarine coasts, bays, and tributaries.




One square mile of salt marsh stores the carbon equivalent of **76,000 gal of gas** annually.




Marshes trap sediments from tidal waters, allowing them to **grow in elevation** as sea level rises.




Living shorelines improve **water quality**, provide fisheries **habitat**, increase **biodiversity**, and promote **recreation**.




Marshes and oyster reefs act as natural **barriers** to waves. **15 ft** of marsh can **absorb 50%** of incoming wave energy.



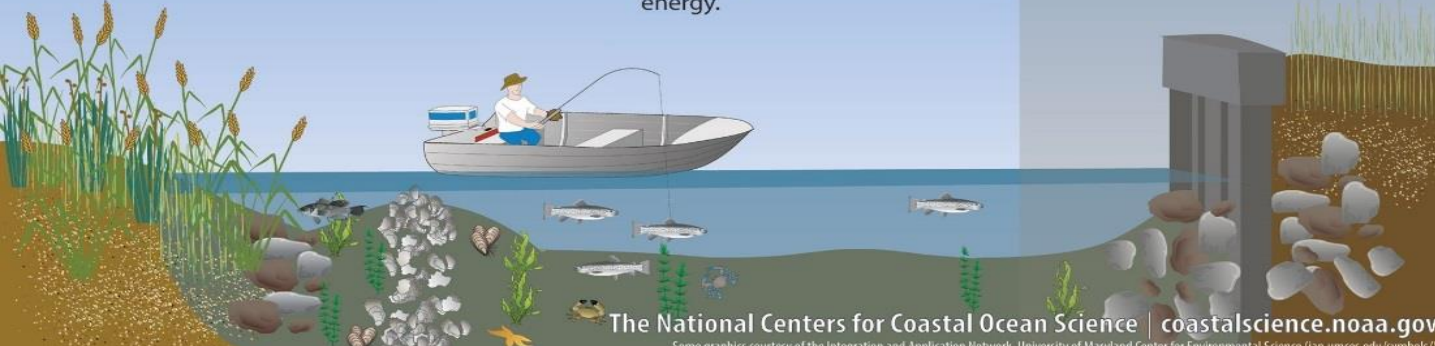
Living shorelines are **more resilient** against storms than bulkheads.



33% of shorelines in the U.S. will be **hardened** by **2100**, decreasing fisheries habitat and biodiversity.



Hard shoreline structures like **bulkheads** prevent natural marsh migration and may create seaward **erosion**.



The National Centers for Coastal Ocean Science | coastalscience.noaa.gov
Some graphics courtesy of the Integration and Application Network, University of Maryland Center for Environmental Science (ian.umces.edu/symbols/)

TIDAL WETLANDS GUIDANCE DOCUMENT

Living Shoreline Techniques in the Marine District of New York State

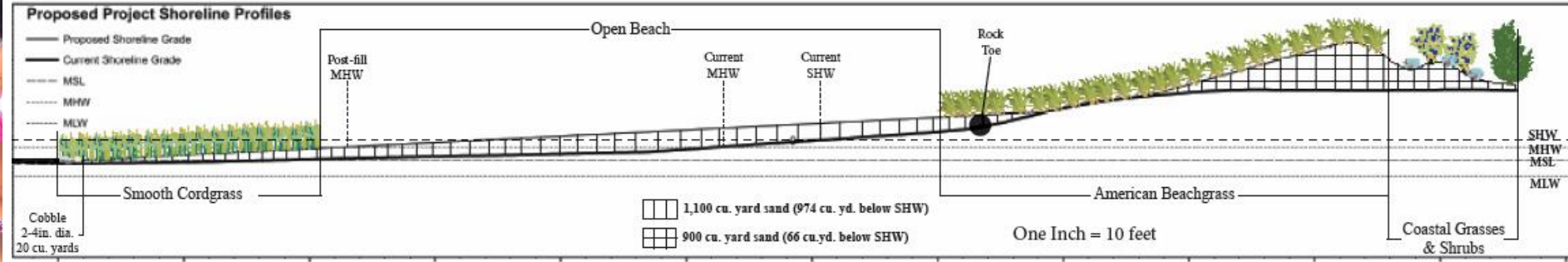
August 31, 2017



Planting marsh grasses along a "living shoreline" on the Shinnecock Reservation, Southampton NY on Shinnecock Bay in Suffolk County, NY. This rock sill and native vegetation can protect shores from erosion and wave damage and create habitat for wildlife.

Photo credit: Cornell Cooperative Extension, Suffolk County

Living Shoreline Pilot Projects



- Widow's Hole, Greenport - PEP is working with Cornell Cooperative Extension and Peconic Land Trust. Construction to begin spring 2019



Suffolk County Marine Environmental Learning Center, Southold – PEP is working with Town of Southold and Cornell Cooperative Extension to evaluate the effectiveness of living shorelines to mitigate nitrogen and pathogen pollution

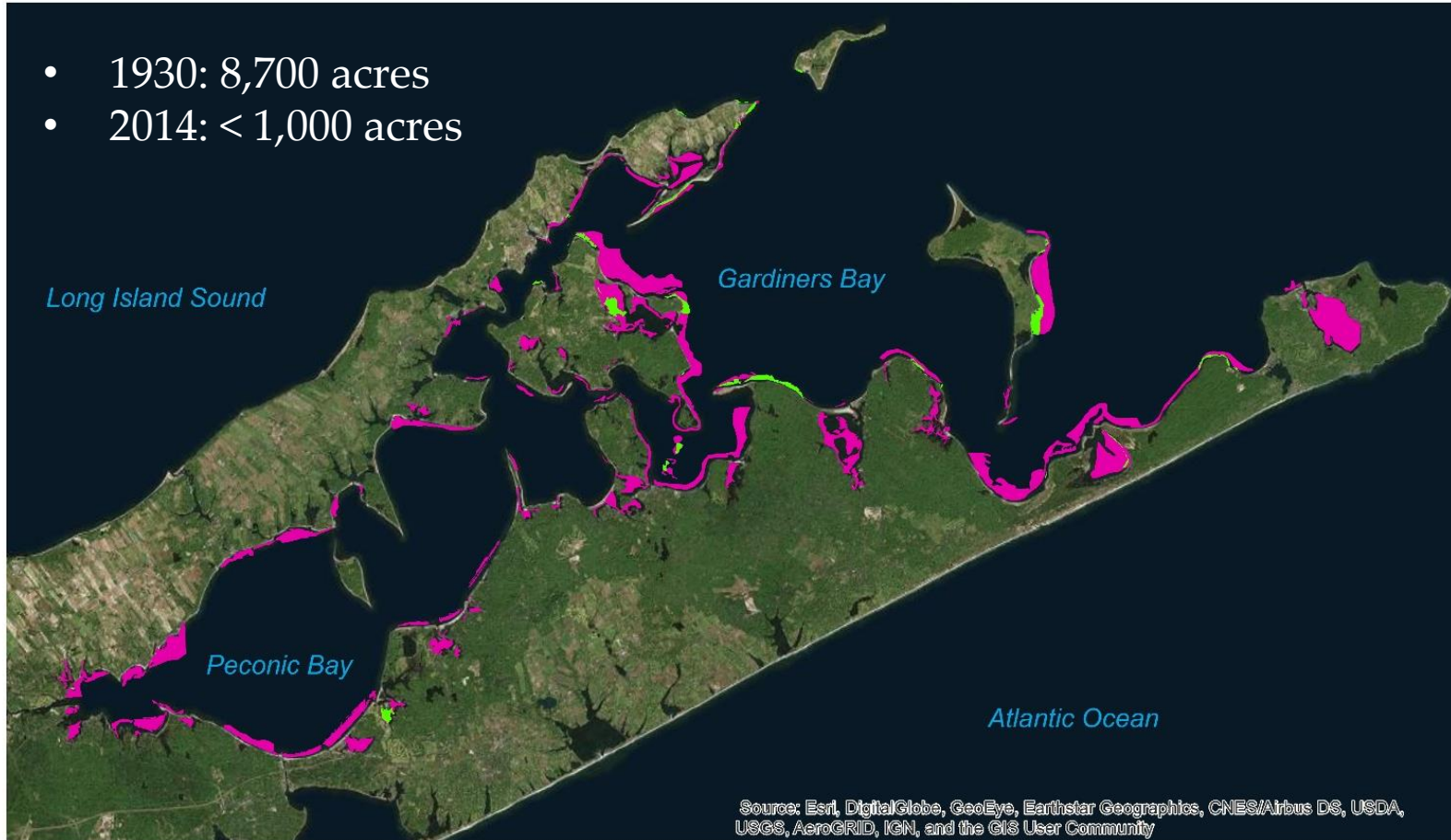


Figure 2. Location of proposed living shoreline project on Southold Town Trustee land near Suffolk County Marine Environmental Learning Center.

Seagrass Bio-optical and Habitat Suitability Model

Seagrass Distribution in 1930 vs. 2014 in the Peconic Estuary

- 1930: 8,700 acres
- 2014: < 1,000 acres



- PEP is contracting with The Research Foundation of SUNY Stony Brook
- Project will lead to a better understanding of specific light and temperature requirements for eelgrass in the Peconic Estuary
- Project will help determine where restoration projects have the best probability of success and inform eelgrass management

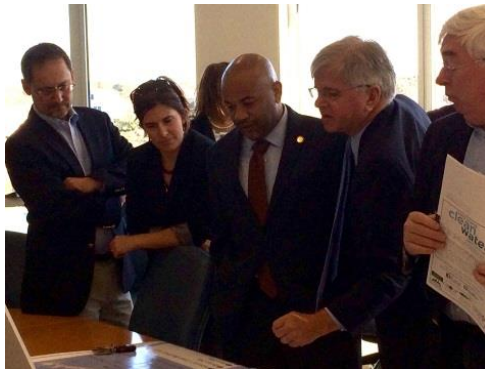
Public Education and Outreach



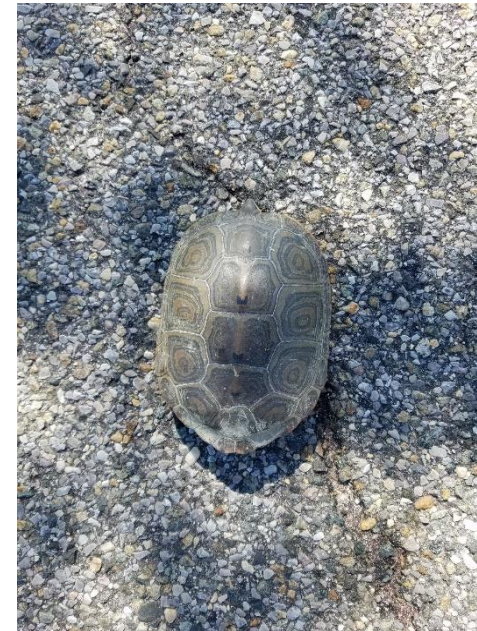
Public Education & Outreach

We aim to reach and educate our diverse community through various different avenues in hopes of instilling passion and sparking positive behavioral change

- Citizens' Advisory Committee
- Volunteer Days & Citizen Science
- Social Media and Newsletters
- Community Projects
- A Day in the Life of the Peconic Estuary
- Building Partnerships
- Behavioral Change



Citizen Science Programs



Citizen Science Programs



Citizen Science Programs



Educational Outreach Events

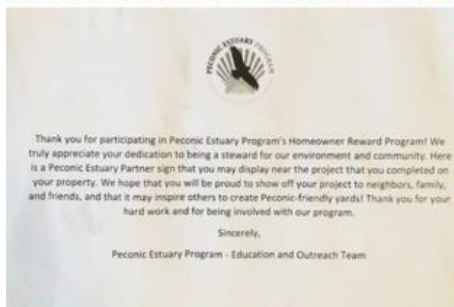


Community Projects



Community Projects

Thank you **Peconic Estuary Program** for the sign! We are very proud to show off our project!
**#peconicestuaryprogram #nativeplants
#raingarden @ Flanders, New York**



Print and Digital Outreach



Fall Newsletter 2018



What's Inside?

First Ever Estuary Day

Turn to page 2 to learn about this collaborative celebration of Long Island's estuaries.

Living VS. Hardened Shorelines

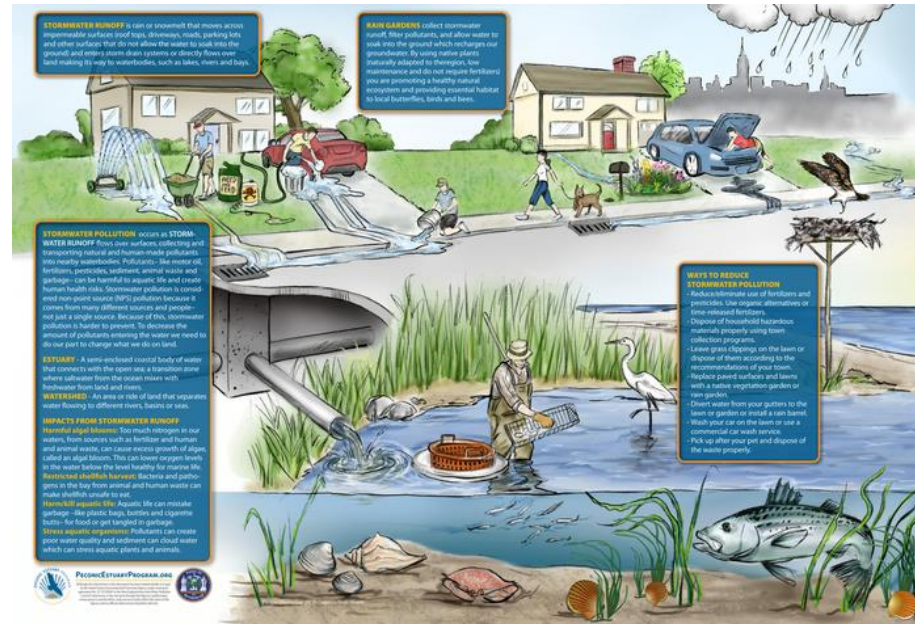
What's the difference, and why do our shorelines matter? Starts on page 3.

Peconic-Friendly Gardens

Check out the seasonal progression of our two local demonstration gardens starting on page 5.

November 1st - April 1st

Local Law 41-2007 prohibits lawn fertilizer application between November 1st through April 1st in Suffolk County. During this time period, lawn grass doesn't grow rendering fertilizers useless. The purpose of this law is to reduce the amount of nitrogen released into our groundwater and surface water to reduce harmful algae blooms and hypoxic, or low oxygen events in our waterways. Retailers are required to post signs near fertilizer displays notifying customers of the date restrictions. Violators, whether it be home-owners, landscapers or other parties risk fines of \$1,000. As a community we can work together to help keep our estuaries healthy!



Email: CAC@peconicestuary.org

Website: PeconicEstuary.org

