



2016 IMPLEMENTATION PROGRESS REPORT: HABITAT RESTORATION PLAN



Submitted to:

Peconic Estuary Program Management Committee
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Prepared by:

Peconic Estuary Program Natural Resources Subcommittee
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INTRODUCTION

The updated and revised “Peconic Estuary Program Habitat Restoration Plan” was adopted and finalized in November 2009. This plan resulted from the Peconic Estuary Program Natural Resources Subcommittee’s intensive effort to fully assess the prior “Habitat Restoration Plan for the Peconic Estuary” (2000), and to identify new candidate restoration sites. In an effort to ensure the Peconic Estuary Program (PEP) and our partners undertake the necessary planning and implementation steps to enhance and restore the 71 sites outlined in the Plan, the PEP Natural Resources Subcommittee (NRS) has committed to track its implementation. The NRS submits annual Implementation Progress Reports (IPRs) to the PEP Management Committee. This ensures proper accounting and tracking of implementation progress and will provide an adaptive and timely mechanism for notifying the Management Committee of new priorities, needs, and recommendations. What follows is a brief assessment of actions taken from November 2015 to November 2016. In summary, some restoration efforts continue from the five (5) conceptual habitat restoration designs that were completed in 2012. PEP is currently funding four (4) additional conceptual habitat restoration designs. PEP has also coordinated closely with the local municipalities to re-prioritize habitat restoration projects within their regions. This is essential to ensure that future conceptual habitat restoration designs and implementation are compatible with the goals of both the PEP and the local municipalities, as well as the funding agencies. These updated priorities are reflected within this report.

2016 Status of the Peconic Estuary Program Habitat Restoration Plan (2009)

STATUS	NUMBER OF PROJECTS	PERCENTAGE
Not Initiated	30*	39%
Planning	10*	13%
In-Progress	23*	30%
Partially Completed	4	5%
Attempted	3*	4%
Completed	7*	9%
Total	77*	100%

**While the 2009 Plan lists 71 projects, 6 additional projects have commenced and warrant listing.*

It should also be noted here, that the PEP and its stakeholders are involved in numerous habitat restoration related efforts that are not described in this report and not included in the PEP Habitat Restoration Plan. These efforts include, but are not limited to: eelgrass management and monitoring efforts; invasive *Ludwigia* monitoring and maintenance control programs; various shellfish and aquaculture initiatives; wetland monitoring; and, land acquisition programs of town, county, and state governments and the private sector.

MAJOR ACCOMPLISHMENTS

1. CONCEPTUAL HABITAT RESTORATION DESIGN PLANS:

As reported, at the recommendation of the PEP NRS, the PEP Management Committee approved the use of \$100,000 of FFY 2010 PEP National Estuary Program (NEP) funding to produce an additional round of conceptual habitat restoration design plans. A Request for Proposals (RFP) for this round was released and a contractor has been selected. As the towns have re-prioritized their sites, the PEP has nominated the following sites for inclusion in this RFP:

- Southold - Narrow River Road Wetland Restoration,
- East Hampton – Lake Montauk Alewife Restoration,
- Southampton – Iron Point Wetland Restoration, and
- Riverhead – Meetinghouse Creek Wetland Restoration.

2. PLANNING AND IMPLEMENTATION

A. Breakdown of Current Planning/Design Funds:

- **\$100,000 Suffolk County ¼%:** Engineering design and permitting for Woodhulls Pond/Wildwood Lake Diadromous Fish Passage Restoration, Southampton. PEP assisted Suffolk County with the completion of the final engineering and permitting is expected to be complete in early 2017. The completed engineering design was used by Suffolk County to successfully apply for \$278,964 in NYSDEC WQIP grant funds to construct the fish passage (see *Breakdown of Current Implementation Funds*).

B. Breakdown of Current Implementation Funds:

- **\$200,000 Suffolk County Capital:** These funds were secured by the Peconic Estuary Program in 2013 for fish passage projects within the Peconic River and will be used for Upper Mills. An RFP from Suffolk County was issued in 2016 and a contractor has been selected.
- **\$1,406,666 Mixed Sources:** Indian Island Tidal Wetland Restoration, Riverhead. An RFP from Suffolk County was issued in 2016 and a contractor has been selected.
 - ~ \$1,050,666* Round 10 New York State Department of Environmental Conservation (NYSDEC) WQIP/Aquatic Habitat Restoration (AHR)
 - (*includes \$788,000 from NYSDEC and \$262,666 matching from Suffolk County in-kind).
 - ~ \$300,000 Suffolk County ¼%
 - ~ \$56,000 FY00 NYSDEC WQIP/AHR.
- **\$278,964 NYSDEC WQIP:** These funds were secured by Suffolk County Department of Parks and Recreation in partnership with Peconic Estuary Program for construction of fish passage at the

Woodhull Dam in 2016. The match (\$92,987) for this project will be provided by unbudgeted Suffolk County Capital Funds.

- **\$245,055 NYSDOS LWRP:** These funds were secured by the Town of Southold to complete the Bay to Sound Trails Initiative Phase II from New York State Department of State (NYSDOS) Local Waterfront Revitalization Program (LWRP). The project includes funding to daylight and restore habitat and fish passage at Silver Lake/Moore's Drain Alewife Access.
- **\$150,000 Suffolk County Capital:** These funds were secured by the Peconic Estuary Program for Big Reed Pond/ Montauk County Park habitat restoration project in 2016. PEP is currently funding the development of the Conceptual Habitat Restoration Design Plans for this site and for the other three sites listed above (\$100,000 FY2010 NEP Funding).
- **\$150,000 FFY2011 PEP NEP:** Widows Hole Preserve Restoration-Peconic Land Trust, property owner, will perform invasive species management and salt marsh and coastal grass restoration. Salt marsh and coastal restoration work will be funded with FFY2011 NEP Funds (\$150,000).

RECOMMENDATIONS

- 1. Evaluate and Prioritize Current List of Habitat Restoration Project** – This process has already commenced. PEP has received comprehensive input from all five East End towns on their priority projects for this plan. PEP is currently reviewing this information and will provide the Natural Resource Subcommittee with a summary to review. This will eventually lead to the next conceptual habitat designs and implementation. See Attachment B.
- 2. Evaluate the Success of Prior Completed Projects** – As suggested in prior reports, a more concerted effort must be made to fully assess the short and long term success of past projects. This will ultimately help us to adopt and modify restoration objectives and strategies. These projects may be found in the Completed Habitat Restoration Project Inventory (see attached). This is consistent with a recommendation made at the 2010 Peconic Estuary Call to Action Conference.
- 3. Increase Short and Long Term Monitoring of Initiated Projects:** As suggested in prior reports, many habitat restoration funding programs will not cover the costs of intensive pre and post project monitoring, and prioritize funding on-the-ground implementation. Monitoring is an essential step, which is often overlooked, and inhibits our ability to implement adaptive management and restoration techniques. This is consistent with a recommendation made at the 2010 Peconic Estuary Call to Action Conference.
- 4. Use Peconic Community Preservation (CPF) Funds to Implement Water Quality Improvement Projects:** Legislation was recently signed into law authorizing East End Towns to extend the Community Preservation Fund to 2050 and expand the fund to include Water Quality Improvement Projects. On November 8th all five East End Towns voted to extend the Community Preservation Fund's 2 % real estate transfer tax for 20 years, until 2050; and voted to allow each town (East Hampton, Riverhead,

Shelter Island, Southampton and Southold) to spend up to 20% of the revenue from the Community Preservation Fund (CPF) for water quality improvement projects. Since its establishment in 1999, CPF revenue has been used primarily for land preservation. The amount of land left available for protection on the East End is decreasing. Now a portion of the funds can be spent on water quality improvement projects, decided upon by each East End Town. This is consistent with a recommendation made at the 2010 Peconic Estuary Call to Action Conference.

5. **Long-Term Local Sustainable Funding Source for Habitat Restoration:** Many municipalities do not have funds to undertake habitat restoration project, yet, most habitat restoration grant programs require anywhere from 25-50% of local match. Development of a new funding source must be investigated and discussed. This is consistent with a recommendation made at the 2010 Peconic Estuary Call to Action Conference.
6. **Citizen Education Efforts:** PEP must continue to provide information on the ecological dangers that invasive species present to terrestrial, freshwater and marine habitats. This should include efforts to encourage maintenance of areas of native vegetation, and the reduction of lawn areas and re-establishment with native species. Efforts should also be made to ensure compliance with local vegetation preservation requirements and the Suffolk County law that prohibits the sale, introduction and propagation of invasive plants.

<http://www.suffolkcountyny.gov/Departments/EconomicDevelopmentandPlanning/PlanningandEnvironment/WaterQualityImprovement/WaterandLandInvasiveSpeciesAdvisoryBoard.aspx>

7. **Continued Support of Indian Island Wetland Restoration Project:** This project has entered the contracting and permitting stages through a partnership of Suffolk County and the New York State Department of Environmental Conservation. The scope and design of the project continually evolve as more information pertaining to the dredge material is obtained. The area of dredge material includes areas where vegetation has not re-colonized naturally. Some areas of the site provide little, if any ecological benefit, and do not provide the desirable ecological functions of a tidal wetland system, hence the desire to construct a valuable wetland ecosystem here. The site of the dredge material possibly wiped out a functioning wetland ecosystem. Suffolk County selected a consultant to complete Construction Drawings, BID documents, and dredge material disposal work for the County tidal wetland restoration project at Indian Island County Park.

ATTACHMENT A: IMPLEMENTATION TRACKING TABLE

ATTACHMENT B: UPDATED COMPLETED HABITAT RESTORATION PROJECT INVENTORY

Peconic Estuary Program Habitat Restoration Plan: Implementation Tracking Table: Progress Made From Nov 2015 - Nov 2016

HABITAT TYPE	SITE NAME	STATUS						DETAILS ON NOV '15- NOV '16 PROGRESS
		Not Initiated	Planning Stage	In-Progress	Partially Completed	Attempted	Completed	
Southold								
Diadromous Fish Passage	Silver Lake/Moore's Drain Alewife Access			x				PEP funded conceptual design w/ '09 NEP funds. Land Use Eco. Conceptual Habitat Restoration Design completed in 2013. No diadromous fish passage project was recommended; however, the scope of the project changed to pursue the other general wildlife recommendations of the Conceptual Habitat Design, one on Southold Town property and one on Village of Greenport property. The Town is moving forward with the recommendation on its property, which was to day light Moore's Drain at Skipper Horton Park. Southold Town received NYS DOS LWRP grant funding for this project in 2016. The permit process and development of engineering designs have been initiated for the project.
Eelgrass	Hallock's Bay Eelgrass Sanctuary		x					Town staff, Trustees and CCE had been discussing.
Phragmites Control	Arshamomaque Pond Preserve Phragmites Eradication			x				This site is now called Paul Stoutenburgh Preserve. Project was considered for inclusion in 2016 release of an RFP for conceptual design w/ '10 NEP funds but not selected. PEP has requested 2017 SC Capital funding for the development of a conceptual design at this site. Southold Town repaired a collapsed culvert that was preventing tidal flow into one of the areas infested with phragmites-the success of this action is not yet known. The overall project scope includes other areas not connected to the area where the culvert was repaired and other possible techniques for dealing with the area where the culvert was repaired. The 2013 nomination of this site also addressed a mile-a-minute infestation caused by Superstorm Sandy- the management of this infestation is a Town priority but will not be expected to be included in the conceptual design (hand pulling of the plants is recommended).
Phragmites Control	Arshamomaque Preserve Phragmites Eradication			x				Southold Town received a NYS DOS LWRP grant in 2016 which includes funding for invasive species inventories and native plantings which addresses this site.
Phragmites Control	Cedar Beach Phragmites Eradication	x						
Phragmites Control	Downs Farm Preserve and Downs Creek Phragmites Eradication	x						
Phragmites Control	Husing Pond Phragmites Eradication	x						
Phragmites Control	Lake Marion Phragmites Eradication						x	Project completed in 2014-added to PEP Completed Habitat Restoration Project Inventory.
Phragmites Control	Narrow River Phragmites Eradication		x					PEP is funding conceptual design w/ '10 NEP funds. RFP released 2016, contractor selected for conceptual design.
Phragmites Control	Pipes Cove Phragmites Eradication		x					Southold Town received a NYS DOS LWRP grant in 2016 which includes funding for invasive species inventories and native plantings which addresses this site.
Shellfish	Southold Shellfish Spawner Sanctuary Network	x						
Wetland	Budds Pond Wetland Restoration	x						
Wetland	Fleet's Neck Wetland Restoration	x						
Wetland	Nassau Point Wetland Restoration	x						
Wetland	TGA Easement Wetland Restoration	x						
Southampton								
Diadromous Fish Passage	Ligonee Brook Diadromous Fish Passage Restoration			x				PEP funded conceptual design w/ '09 NEP funds. Land Use Eco. Conceptual Habitat Restoration Design completed in 2013. One of the Conceptual Design recommendations completed by the Friends of Long Pond Greenbelt- Two culverts under Old Rail Road Crossing removed by Eagle Scout(Max Yardley) in 2014.
Diadromous Fish Passage	North Sea/Alewife Creek Diadromous Fish Passage Enhancement			x				Baffles were placed in North Sea Road box culvert to raise water levels to allow for fish passage-water quality issues with culvert under North Sea Road and Noyac Road still exist which threaten alewife populations (i.e. sedimentation, road runoff).
Diadromous Fish Passage	Woodhulls Pond/Wildwood Lake Diadromous Fish Passage Restoration			x				Suffolk County 1/4% Committee approved \$100,000 for design work. Led by Suffolk County Parks. Suffolk County awarded NYSDEC WQIP Round 13 funds, \$278, 964 for fish passage construction.
Grassland	Shinnecock Grassland Restoration				x			
Wetland	Davis Creek Wetland Restoration	x						
Wetland	Iron Point Wetland Restoration		x					PEP is funding conceptual design w/ '10 NEP funds. RFP released 2016, contractor selected for conceptual design.

East Hampton							
Diadromous Fish Passage	Alewife Brook Alewife Access and Habitat Enhancement					x	The system should be assessed to determine if it could benefit from improved access to Scoy Pond. A new culvert at Alewife Brook Road and clearing and control of phragmites would likely allow substantial growth of the system's river herring run. In 2013 a box culvert modification was purchased and meant to be installed at Alewife Brook Road but was never installed because it was deemed too large.
Diadromous Fish Passage	Lake Montauk Alewife Access and Habitat Enhancement		x				PEP is funding conceptual design w/ '10 NEP funds. RFP released 2016, contractor selected for conceptual design.
Eelgrass	Lake Montauk Eelgrass Restoration			x			
Eelgrass	Napeague Eelgrass Restoration				x		
Eelgrass	Three Mile Harbor Eelgrass Restoration					x	
Flushing/Circulation	Fresh Pond Circulation Enhancement					x	Completed January 2010- added to the PEP Completed Habitat Restoration Project Inventory.
Flushing/Circulation	Napeague Harbor Circulation Enhancement					x	PEP funded conceptual design w/ '09 NEP funds. Land Use Eco. Conceptual Habitat Restoration Design completed in 2013. Conceptual Design recommendations not pursued.
Grassland	Culloden Grassland Restoration				x		
Phragmites Control	Accabonac Harbor Phragmites Eradication			x			
Phragmites Control	Barnes Meadow Phragmites Eradication	x					
Phragmites Control	Fort Pond Phragmites Eradication			x			NCTE submitted for NYSDEC grant (C303078) through 8.1.2010.
Phragmites Control	Fresh Pond Phragmites Eradication	x					
Phragmites Control	Lake Montauk Phragmites Eradication			x			
Phragmites Control	Little Northwest Creek Phragmites Eradication			x			
Phragmites Control	Napeague Phragmites Eradication	x					
Phragmites Control	Northwest Creek Phragmites Eradication	x					
Phragmites Control	Three Mile Harbor Phragmites Eradication			x			
Shellfish	Lake Montauk Hard Clam/American Oyster Enhancement/Restoration			x			Round 10 NYSDEC WQIP AHR grant application submitted- Not awarded.
Shellfish	Accabonac Creek Hard Clam/American Oyster Enhancement/Restoration			x			Round 10 NYSDEC WQIP AHR grant application submitted- Not awarded.
Shellfish	Napeague Harbor Bay Scallop Restoration			x			Funded by Suffolk County through 2010. Suffolk County 1/4% Committee re-approved as part of 3 yr \$100,000 scallop restoration project. Led by East Hampton Dept. of Aquaculture.
Shellfish	Napeague Harbor Hard Clam/American Oyster Enhancement/Restoration			x			Funded: Part of NYSDOS LWRP \$132,656- Total: \$265,312. Led by East Hampton Town Aquaculture.
Shellfish	Three Mile Harbor Bay Scallop Restoration			x			Currently funded by Suffolk County through 2010. Suffolk County 1/4% Committee re-approved as part of 3 yr \$100,000 scallop restoration project. Led by East Hampton Dept. of Aquaculture.
Shellfish	Three Mile Harbor Hard Clam/American Oyster Enhancement/Restoration			x			Funded: Part of NYSDOS LWRP \$132,656- Total: \$265,312. Led by East Hampton Dept. of Aquaculture.
Wetland	Accabonac Harbor Wetland Restoration			x			
Wetland	Lake Montauk Wetland Restoration			x			
Wetland	Fort Pond Wetland Restoration			x			
Shelter Island							
Beach/Dune	Shell Beach Revegetation					x	PEP funded conceptual design w/ '09 NEP funds. Land Use Eco. Conceptual Habitat Restoration Design completed in 2013. Conceptual Design not implemented eventhough restoration project was a requirement of a permit for a different project.
Eelgrass	Coecles Harbor Eelgrass Revegetation	x					
Phragmites Control	Sposato Property- Phragmites Removal		x				PEP is funding conceptual design w/ '10 NEP funds. Project not selected for inclusion for RFP release in 2016.

Riverhead								
Diadromous Fish Passage	Edwards Ave Diadromous Fish Passage Restoration (Peconic River, Phase IV)						x	Completed June 2016-added to PEP Completed Habitat Restoration Project Inventory.
Diadromous Fish Passage	Forge Rd/Peconic Lake Diadromous Fish Passage Restoration (Peconic River, Phase III)				x			Town of Brookhaven will be replacing the culvert in the near future and is coordinating with fish passage design. WQIP funding secured for fish passage. PEP NEP funds secured as well.
Diadromous Fish Passage	Grangebel Park Diadromous Fish Passage Restoration (Peconic River, Phase I)						x	Completed Feb 2010- added to PEP Completed Habitat Restoration Project Inventory.
Diadromous Fish Passage	Upper Mills Diadromous Fish Passage Restoration (Peconic River, Phase II)		x					Still in planning phase. Working to get all owners to agree to fish passage and then move project forward by securing funding. Suffolk County Capital funding available for Engineering Design and Permitting- contractor selected.
Phragmites Control	Bay Woods Phragmites Eradication	x						
Phragmites Control	Broad Cove Phragmites Eradication	x						
Phragmites Control	Browns Point Phragmites Eradication	x						
Phragmites Control	East Creek Phragmites Eradication		x					PEP is funding conceptual design w/ '10 NEP funds. Project not selected for inclusion for RFP release in 2016.
Phragmites Control	Gravel Pit (Dog Ponds) Phragmites Eradication	x						
Phragmites Control	Grumman Phragmites Eradication	x						
Phragmites Control	Linns Pond Phragmites Eradication	x						
Phragmites Control	Peconic Edwards Phragmites Eradication	x						
Phragmites Control	Peconic Seep Phragmites Eradication	x						
Phragmites Control	Reeves Creek Phragmites Eradication	x						
Phragmites Control	Terry Creek Phragmites Eradication	x						
Phragmites Control	Tidal Peconic Phragmites Eradication	x						
Phragmites Control	Tidal Sawmill Creek Phragmites Eradication	x						
Phragmites Control	Upper Sawmill Creek Phragmites Eradication	x						
Phragmites Control	Warner Duck Farm Phragmites Eradication	x						
Riverine	Peconic Upper Mills Riverine Restoration	x						
Wetland	Indian Island Tidal Wetland Restoration				x			\$1,406,666 allocated. Includes \$1,050,666 NYSDEC WQIP AHR (\$788,000 award & \$262,666 match), \$300,000 SC 1/4%, \$56,000 FY00 NYSDEC WQIP/AHR. In contracting and permitting phase. Contractor selected for Final Construction Drawings and BID Documents Indian Island County Park Tidal Wetland Restoration Project.

Other:

Bullhead Bay Eelgrass Sanctuary Established by Southampton Town Trustees in Dec 2009- added to PEP Completed Habitat Restoration Project Inventory- Completed
 Staundinger's Pond Alewife Access and Habitat Enhancement Funded- Included as part of ACFHP \$30,000 grant for Alewife Brook/Scoy Pond.- A rock weir was installed in Northwest Creek to allow fish passage into Staundinger's Pond but was unsuccessful. - Attempted
 Fresh Pond Diadromous Fish Passage Enhancement (Southampton) - Funded by the Southampton Trustees- Not Initiated
 Edwards Preserve Restoration- Peconic Land Trust, property owner, is working with PEP to apply for grant funding for Edwards Preserve: Acquisition & Restoration Project.- Planning Stage
 Widows Hole Preserve Restoration-Peconic Land Trust, property owner, will perform invasive species management and salt marsh and coastal grass restoration. Salt marsh and coastal restoration work will be funded w/ '11 NEP Funds (\$150,000). - In-Progress
 Meetinghouse Creek Wetland Restoration- PEP is funding conceptual design w/ '10 NEP funds. RFP released 2016, contractor selected for conceptual design- Planning Stage

Peconic Estuary Program Completed Habitat Restoration Project Inventory- Updated November 2016

<i>Habitat Type</i>	<i>Site & Location</i>	<i>Action</i>	<i>Maintenance</i>	<i>Size (acres)</i>	<i>Cost/Funding</i>	<i>Year Initiated</i>	<i>Status (end date)</i>	<i>Contact Person</i>
<i>Beach/Dunes</i>								
<i>Beach/Dunes</i>	Gerard Drive, East Hampton	Bare-root beach grass planting into sand adjacent to existing growth on upper beach. Transplants dug from local stock. Success based on plant establishment. Establishment successful.	String fence through first summer	0.25	<\$500 Town	Spring 1996	Ongoing	Kim Shaw, EHTNRD (631) 324-0496; Accabonac Harbor Protection Committee (631) 324-3627
<i>Beach/Dunes</i>	Louse Point, East Hampton	Bare-root beach grass planting into sand adjacent to existing growth on upper beach. Transplants dug from local stock. Success based on plant establishment- successful.	String fence through first summer	0.25	<\$500 Town	1996	Ongoing	Kim Shaw, EHTNRD, (631) 324-0496
<i>Beach/Dunes</i>	Gin Beach, East Hampton	Bare-root beach grass planting into sand adjacent to existing growth on upper beach. Transplants dug from local stock. Success based on plant establishment- successful.	String fence through first summer	0.1	<\$500 Town	1997	Complete	Kim Shaw, EHTNRD, (631) 324-0496
<i>Beach/Dunes</i>	New Suffolk, Southold	Bare-root beach grass planting into sand adjacent to existing growth on upper beach. Transplants from nursery stock. Success based on plant establishment- mostly successful.	String fence through first summer	0.1	<\$500 PEP	1997	Complete	Chris Pickerell, Cornell Cooperative Extension, Marine Program (CCE), (631) 852-8660
<i>Beach/Dunes</i>	Mattituck Park District, Southold	Bare-root beach grass planting into sand adjacent to existing growth on upper beach. Transplants from nursery stock. Success based on plant establishment- only partially successful.	None	0.1	<\$500 PEP	Spring 1997	Complete	Chris Pickerell, CCE, (631) 852-8660
<i>Beach/Dunes</i>	Robins Island Landing, Southold	Bare-root beach grass planting into newly deposited sand on upper beach in and around large stone. Transplants from nursery stock. Success based on plant establishment- mostly successful.	Permanent snow fence	0.5	? Private	1997	Complete	Peter Trexler, Belvedere Property Management (BPM) (631) 734-5134
<i>Beach/Dunes</i>	Second Causeway, Shelter Island	Bare-root beach grass planting into newly deposited sand (over large rocks) on upper beach. Transplants from nursery stock. Success based on plant establishment- successful.	String fence through first summer	1	\$	1999	Complete	Town of Shelter Island
<i>Beach/Dunes</i>	Sammi's Beach, East Hampton 41.0310, -72.1922	This barrier beach peninsula, previously a dredge material site, was graded down and replanted with beach grasses. Road was removed and replanted. Generally successful as least terns and piping plovers returned.		?	\$300,000 (State, Town, County)	1999	2003 (planting complete)	Kim Shaw, EHTNRD, (631) 324-0496
<i>Beach/Dunes</i>	Reel Point, Shelter Island	Eroding beach affected by vehicle use was replanted with beach grass. Snow fencing installed. Owned by Peconic Land Trust.	?	8	Private	?	Complete	Peconic Land Trust (631) 283-3195

<i>Diadromous Fish</i>								
<i>Diadromous Fish</i>	Edwards Avenue Dam, Peconic River, Phase IV, Riverhead 40.9051, 72.7432	NYSDEC owned Edwards Avenue Dam. The construction of an Alaska Steep Pass/American eel pass project replaces a failing concrete dam with a new concrete structure and steel sheeting spillway. The new spillway structure, which meets 100-year flood protection requirements, has raised water levels behind the dam to levels not seen for nearly a decade when the former Edwards Avenue Dam and its wooden plank board flood control structure began failing.	Maintenance of Alaska Steep Pass/American Eel Pass	35 acres	\$967,500 to construct New York Works Program- NYSDEC	?	Completed June 2016	NYSDEC-Chart Guthrie (631) 444.0281, NYSDEC/PEP State Coordinator-Elizabeth Hornstein (631) 444-0871. Partners include Riverhead, USFWS, NOAA, PEP, NYSDEC, Suffolk County, Peconic River Fish Restoration Commission.
<i>Diadromous Fish</i>	Grangebel Park, Peconic River, Phase I, Riverhead 40.9159, -72.6632	Structural repairs made to the North Spillway. South Spillway channel/stream bed was re-graded and narrowed and a permanent rock ramp/riffle was installed downstream-upstream of spillway. Success (utilization by alewife and American eels) to be determined during Spring 2010 migration.	Rock ramp debris removal may be necessary	24 acres & 1.5 miles	\$1million (studies, design, repairs, rock ramp). Multiple sources-contacts can provide listing.	Planning initiated in 2000	Completed Feb 2010	NYSDEC/PEP State Coordinator- Elizabeth Hornstein (631)444.0871/PEP-(631) 852-5805, Chart Guthrie, NYSDEC (631)444.0281. Partners include Riverhead, Brookhaven, USFWS, NOAA, PEP, NYSDEC, Suffolk County, American Rivers, Fish America Foundation, CWRP, Peconic River Fish Restoration Commission, Spectra Energy, National Grid.

<i>Eelgrass</i>								
<i>Eelgrass</i>	Accabonac Harbor, East Hampton	Bundled bare-root shoots attached to metal staples and wooden stakes. Transplants collected from Northwest Harbor and Lake Montauk. Planted into unvegetated coarse and fine sediments. Unsuccessful	Regular observation, Marked with PVC tubes	0.1	<\$2,000 PEP	Jun-94	Complete	Kim Shaw EHTNRD, (631) 324-0496, Chris Pickerell, CCE, (631) 852-8660, Emerson Hasbrouck, CCE (631) 727-3910
<i>Eelgrass</i>	Little Northwest Creek, East Hampton	Bundled bare-root shoots attached to metal staples and wooden stakes. Transplants collected from Northwest Harbor. Planted into unvegetated coarse and fine sediments. Unsuccessful.	Observation, Marked with PVC tubes	0.1	<\$2,000 PEP	Jun-94	Complete	Kim Shaw, EHTNRD, (631) 324-0496, Chris Pickerell, CCE, (631) 852-8660, Emerson Hasbrouck, CCE (631) 727-3910
<i>Eelgrass</i>	Napeague Harbor, East Hampton	20 cm diameter intact sods transplanted to the perimeter and open areas in the center of an existing bed along the eastern shoreline and an open sandy flat near the south end of the Harbor. All transplants from Napeague. Success based on eelgrass presence the following year. Mostly successful (~75%) (eastern shore). Unsuccessful (sandy flat).	Regular observation, Mapped with GPS, Perimeter of bed and planting sites marked with PVC tubes	0.1	<\$2,000 PEP	June and Sept 1997-1998	Complete	Kim Shaw, EHTNRD, (631) 324-0496, Chris Pickerell, CCE, (631) 852-8660, Emerson Hasbrouck, CCE (631) 727-3910
<i>Eelgrass</i>	Three Mile Harbor, East Hampton	20 cm diameter intact sods transferred to the perimeter of an existing bed. Transplants from Napeague.	Observation of sod establishment	0.1	<\$2,000 PEP	Oct-99	Complete Monitoring 2000	Kim Shaw, EHTNRD (631) 324-0496
<i>Eelgrass</i>	Northwest Creek, East Hampton	Unsuccessful.	?	0.1	?	?	Not successful	Chris Pickerell, CCE, (631) 852-8660
<i>Eelgrass</i>	Noyak Creek, Southampton	Unsuccessful.	?	0.1	?	?	Not successful	Chris Pickerell, CCE, (631) 852-8660
<i>Eelgrass</i>	Paynes Creek, Southampton	Unsuccessful.	?	0.1	?	?	Not successful	Chris Pickerell, CCE, (631) 852-8660
<i>Eelgrass</i>	Upper Sag Harbor Cove, Southampton	Unsuccessful.	?	0.1	?	?	Not successful	Chris Pickerell, CCE, (631) 852-8660
<i>Eelgrass</i>	Bullhead Bay, Southampton	Unsuccessful. Small annual population exists.	?	0.1	?	?	Not successful	Chris Pickerell, CCE, (631) 852-8660
<i>Eelgrass</i>	Sage Harbor Cove, Southampton	Unsuccessful.	?	0.1	?	?	Not successful	Chris Pickerell, CCE, (631) 852-8660
<i>Eelgrass</i>	Cutchogue, Southold	Unsuccessful.	?	0.1	?	?	Not successful	Chris Pickerell, CCE, (631) 852-8660
<i>Eelgrass</i>	Bullhead Bay Eelgrass Sanctuary, Southampton 40.9105, -72.4457	This western most eelgrass bed in the Peconic Estuary is highly stressed and disturbed. Southampton Town Trustees designated it as an eelgrass sanctuary, a type of Shellfish Management Zone, to prohibit shellfishing within its boundaries. Edges marked and delineated.	Monitored under PEP Long Term Eelgrass Monitoring Program. Trustees maintain markings.	n/a	None	Dec-09	Ongoing	Southampton Town Trustees 631.287.5717

Flushing/ Circulation								
<i>Flushing/ Circulation</i>	Accabonac Harbor Flushing, East Hampton, 41.0364, 72.1364	A large box culvert was installed to replace an existing smaller culvert under Gerard Dive at a causeway. The disturbed area was re-planted with native vegetation. The larger culvert is believed to increased tidal circulation which has benefited the nearby tidal wetland vegetation.	Maintenance dredging of the channel is performed	50 acres	Over \$500,000	2004	Complete (2005)	Kim Shaw, EHTNRD (631) 324-0496
<i>Flushing/ Circulation</i>	Fresh Pond Circulation, East Hampton, 41.9956, 72.1129	A 650 foot long, 40 foot wide and 2 foot below mean low water channel was dredged. Approximately 2,140 cubic yards of material was removed and placed on the beach southeast of the channel. The new channel is expected to help increase tidal flushing and benefit habitat and resources.	Maintenance dredging of the inlet may be required	?	\$18,450	2010	Complete (2010)	East Hampton Trustees (631) 267-8668
Freshwater Wetlands								
<i>Freshwater Wetlands</i>	Robins Island, Southold	A groundwater-fed freshwater pond completely filled with Phragmites was excavated to original depth and diameter. Fill including Phragmites biomass was buried nearby in a lined pit. Following excavation, native emergent species (nursery stock) were planted throughout the shoreline. Success based on establishment of proper hydrology and shoreline vegetation and elimination of common reed. Successful.	Checked regularly for new Phragmites growth. New growth removed	1	?	Summer 1996	Complete (Fall 1996)	Peter Trexler, BPM, (631) 734-5134
Grassland								
<i>Grassland</i>	Orient Point County Park, Southold	Clearing or woody overgrowth in a former farm field using a bulldozer, discing with a tractor, followed by seeding with native warm season grasses. Seed from nursery stock. Success based seeding success of warm season grasses and control of forbes and woody growth. Mostly successful.	Annual mowing plus removal of forbes and new woody growth	50	53700 USEPA + in-kind	Spring & Summer 1998, 1999, 2000	Ongoing	New York State Department of Environmental Conservation (NYSDEC) (631) 444-0469
<i>Grassland</i>	Maratooka Grassland, Mattituck, Southold	Clearing of woody overgrowth with a bulldozer, land preparation including discing and seeding with switchgrass. Hand seeded. Organ grinder. Seed from nursery stock. Success based seeding success of warm season grasses and control of forbes and woody growth. Mostly successful.	first mowing Sept.(high) after July 15 Every 3yrs.	1	\$4720 seed \$450 mowing \$25/yr Wildlife Habitat Incentive Program (WHIP)	Jun-99	1999-2008	USDA, Natural Resources Conservation Service (NRCS) (631) 727-2315
<i>Grassland</i>	Fort Hill Cemetery Grassland, East Hampton 41.0458, - 71.9497	Replanting of native grassland grasses in disturbed part of historic cemetery. Re-vegetation successful.	Maintained by East Hampton Parks Dept.	?	Town	1991	Complete	Kim Shaw, EHTNRD (631) 324-0496

Phragmites								
<i>Phragmites</i>	Hog Creek Phragmites, East Hampton, 41.0494, -72.1652	Small patches of invasive Phragmites were cut. Native species have returned. Successful.	?	<1	?	1998	Complete	Kim Shaw, EHTNRD (631) 324-0496
<i>Phragmites</i>	Lake Marion Phragmites Eradication, Southold, 41.1260, -72.3334	The lake has been chemically treated. Native plantings occurred in Spring 2012. Maintenance is funded via donation from residents. Once a season the success of the restoration work is monitored- horticulturists and biologists inspect the lake for new invasive species and assess the Phragmite infestation. Successful.	The site has been maintained and trimmed for the past three years which is thought to have made the restoration a success and kept the Phragmites from re-infesting the site.	5 acres	\$325,000	2006	Completed 2014	Lori Luscher- President, Save Marion Lake Committee (631) 495-8579, l_luscher@hotmail.com
Shorebird								
<i>Shorebird</i>	Mill Creek Enhancement Project, Southampton	Located on Pine Neck Lane in Noyac. This relatively small project expanded shorebird breeding habitat by removing vegetation and filling ruts caused by vehicle traffic on the beach. Native beach grasses were planted. Driving on the beach is now prohibited. Considered a successful project.	?	<1	?	?	Complete	Jon Semlear-President of Southampton Town Trustees (631) 287-5717
<i>Shorebird</i>	Hick's Island, East Hampton 41.0165, -72.0605	Material from dredging the mouth of Napeague Harbor was placed on Hick's Island. Vegetation was as cut and removed. Successful in restoring roseate tern and piping plover breeding habitat.	?	10	\$20,000 (re-veg) \$600,000 (dredge)	?	Complete	Kim Shaw, EHTNRD (631) 324-0496

Tidal Wetlands								
<i>Tidal Wetlands</i>	Pussys Pond, Springs, East Hampton	Phase 1 - Partial excavation of Phragmites-dominated soils on the shore of a brackish tidal pond. The shoreline was re-graded to intertidal elevation and planted with native transplants of Cordgrass and Salt hay grass. Phase II - Complete excavation of Phragmites-dominated soils and backfilled with clean fill. Seeded with local native seeds. Success based on establishment of native vegetation and elimination of common reed. Partially Successful.	Seasonal removal of Phragmites shoots originating from buried rhizome fragments	0.5	\$5,000 Waterfowl USA	1994	Complete	Bob Miller Waterfowl USA, Chris Pickerell, CCE (631) 852-8660
<i>Tidal Wetlands</i>	Accabonac Harbor, East Hampton	Removal of asphalt and concrete debris from an intertidal shoreline. Success based on establishment of native vegetation- TBA.	None	0.1	<\$500 Town	1997	Complete	Kim Shaw, EHTNRD (631) 324-0496
<i>Tidal Wetlands</i>	Accabonac Harbor OMWM*, East Hampton	Open marsh water management (OMWM) for restoration of natural hydrology and Coliform bacteria reduction. Selected mosquito ditches were plugged using plywood and sandbags. Ditch selection based size and Coliform levels in repeated water samples. Success based dam stability, reduction in Coliform loading to the Harbor and conditional opening of the area to shellfishing. Successful.	Replace sandbags where necessary	50	Accabonac Harbor Protection Committee, East Hampton Trustees, USFWS	1994	Ongoing	Kim Shaw, EHTNRD (631) 324-0496
<i>Tidal Wetlands</i>	Northwest Creek OMWM, East Hampton	OMWM for restoration of natural hydrology and Coliform bacteria reduction. Selected mosquito ditches were plugged using combination of plywood and sandbags. Ditch selection based size and Coliform levels in repeated water samples. Success based dam stability, reduction in Coliform loading to the Harbor and conditional opening of the area to shellfishing. Partially successful.	Replace sandbags where necessary	50	EH Trustees, USFWS	1994	Ongoing	Kim Shaw, EHTNRD (631) 324-0496
<i>Tidal Wetlands</i>	Three Mile Harbor Drive, East Hampton	Planting bare-root cordgrass into a highly disturbed roadway cut into the marsh. Transplants gleaned from local stock in Three Mile Harbor. Success based on plant establishment. Very successful.	Permanently fenced to vehicular traffic	0.25	<\$500	Apr-96	Complete	Kim Shaw, EHTNRD (631) 324-0496
<i>Tidal Wetlands</i>	Gerard Point, East Hampton	Planting nursery propagated cordgrass into open areas in and adjacent to the existing marsh. Success based on plant establishment. Successful.	Fenced	0.25	\$750 East End Institute	Jul-99	Complete	Kim Shaw, EHTNRD (631) 324-0496
<i>Tidal Wetlands</i>	Cassidy Preserve, Hashamomuck Pond, Southold	Excavation and re-grading of hydraulic dredge spoil, creation of intertidal pools and replacement of common reed with smooth cordgrass. Success based on proper elevations, maintenance of water in pools and elimination of common reed. Successful.	Portions were re-graded to inhibit common reed re-colonization	5	\$30,000 USEPA	Jun-99	Complete	Chris Pickerell, CCE (631) 852-8660, John Halsey, President Peconic Land Trust (631) 283-3195

<i>Tidal Wetlands continued</i>								
<i>Tidal Wetlands</i>	Downs Creek, Cutchogue	Removal of concrete and other debris within an intertidal marsh to allow for natural re-vegetation and prevent future dumping. Success based on natural re-vegetation of the site by cordgrass. Successful.	Signage	0.1	Private	1996	Complete	Russ McCall
<i>Tidal Wetlands</i>	Long Beach Bay, Orient Southold	Culvert replacement and enlargement to increase salinity behind a dike at multiple points. OMWM for water quality improvement. Reductions in storm water inputs to surface waters. Success based on increased salinity behind dike and reduction in Coliform bacteria counts in adjacent open waters- TBD.	Salinity and tidal elevation monitoring. Repair of leaky dams	200+	\$253,000 USFWS	1999	Ongoing	Chris Pickerell, CCE (631) 852-8660, Emerson Hasbrouck, CCE (631) 727-3910
<i>Tidal Wetlands</i>	Fish Cover Bridge, North Sea Harbor, Southampton	Planting of cordgrass to mitigate new bridge construction. Plantings included nursery propagated peat pots. Success based on establishment of cordgrass. Successful.	?	0.1	?	1995	Complete	Gary Gentile, New York State Department of Transportation (631) 952-6219
<i>Tidal Wetlands</i>	Otter Pond, Sag Harbor	Planting of native marsh grasses to prevent erosion and improve aesthetics. Propagules included nursery stock. Success based on establishment of grasses. Partially successful.	?	0.1	Private	1997	Complete	Village of Sag Harbor
<i>Tidal Wetlands</i>	Broad Cove, Aquebogue, Riverhead	Restoration of intertidal marsh through cordgrass plantings, restoration of a tidal creek and opening of manmade tidal salt ponds to tidal flow. Success based on establishment of grasses, stability of new creek and increased flushing of tidal ponds. Sandbar plantings mostly unsuccessful, creek restoration successful, flushing successful.	Minimal fencing, regular photographs	5	Private	1994	Complete	Chris Pickerell, CCE (631) 852-8660, Emerson Hasbrouck, CCE (631) 727-3910
<i>Tidal Wetlands</i>	Chase Creek, Shelter Island	Planting of cordgrass to mitigate bridge improvements. Plants included nursery propagated peat pots. Success based on establishment of cordgrass. Successful.	?	0.1	?	1996	Complete	Gary Gentile, New York State Department of Transportation (631) 952-6219
<i>Tidal Wetlands</i>	Sag Harbor Cove/Paynes Creek, Southampton	Located on Long Beach Road in Noyac. A dike was breached at this historic dredged material disposal site to re-introduce tidal flow. Dredged materials were removed off-site and plantings of native wetland vegetation completed. Project is considered a success as a native wetland was re-established and is now actively utilized by shore birds.	?	>5	?	?	Complete	Marty Shea, Southampton Town (631) 287-5710, Partners: Southampton Town Board, Southampton Town Trustees
<i>Tidal Wetlands</i>	Upper Sag Harbor Cove Wetlands, Southampton	An area of this wetland which was damaged by vehicles was re-vegetated with <i>Spartina</i> . Re-vegetation was successful.	?	<1	?	?	Complete	President Southampton Town Trustees (631) 287-5717
<i>Tidal Wetlands</i>	Paynes Creek Enhancement Project, Southampton	Re-vegetation occurred naturally and human induced efforts were not necessary.	?	?	No Cost	?	Complete (Naturally)	Marty Shea, Southampton Town (631) 287-5710
<i>Tidal Wetlands</i>	North Sea Wetlands, Southampton	An impervious paved walk at the Conscience Point Complex was removed and replaced with crushed shell. Native plants were planted and vehicle access restricted. Signage was installed.	?	<5	?	?	Complete	Marty Shea, Southampton Town (631) 287-5710, Partners: Southampton Historical Society, Southampton Town Board & Trustees

<i>Tidal Wetlands continued</i>								
<i>Tidal Wetlands</i>	Fish Cove Wetland Enhancement, Southampton	Several years of washed up marine debris has accumulated on the marsh. The Southampton Baymen's Association and other volunteers removed an enormous amount of flotsam which was transported by boat to Southampton Town Highway vehicles and trucked to the recycling center. Successful.	Future maintenance/debris removal may be required (every 3 years)	?	Volunteer Time	?	Complete	President Southampton Town Trustees (631) 287-5717 Partners: Southampton Town Board, Southampton Town Trustees
<i>Tidal Wetlands</i>	North Sea/Alewife Creek Wetlands, Southampton	Abutting landowner was required by Southampton Town to undertake restoration and re-planting efforts.	?	?	?	?	Complete	Marty Shea, Southampton Town (631) 287-5710
<i>Tidal Wetlands</i>	Three Mile Harbor Wetlands, East Hampton 41.0299, -72.2043	Disturbed/trampled areas were re-planted with native salt marsh vegetation. Success based on establishment of vegetation. Successful.	?	<2	\$150,000	1997	Complete	Kim Shaw, EHTNRD (631) 324-0496
<i>Water Quality</i>								
<i>Water Quality</i>	Oyster Pond Water Quality, East Hampton 41.0719, -71.8919	Leaking oil tank was replaced and sewage pump station installed. Both were successful in removing source of contamination	?	?	\$100,000+	1990	1991	Kim Shaw, EHTNRD (631) 324-0496
<i>Water Quality</i>	Napeague Harbor Circulation Enhancement	The conclusion that restoration of tidal flow through the east inlet would provide ecological benefits was based on observations by the Town's Natural Resources Department indicating increased shellfish production at the Town's shellfish grow-out facility and increased eelgrass abundance in years immediately following the excavation of a small channel near the historic east inlet location compared to years when the east inlet was entirely closed.						Kim Shaw, EHTNRD (631) 324-0496