

# 2012 Implementation Progress Report

# Eelgrass Management Plan for the Peconic Estuary

Submitted to:
Peconic Estuary Program Management Committee
September 2012

Prepared by:

Peconic Estuary Program Natural Resources Subcommittee

Julie Nace, NYSDEC, Co-Chair Wayne Grothe, TNC, Co-Chair

#### INTRODUCTION

The "Eelgrass Management Plan for the Peconic Estuary" was adopted and finalized in June 2009. In an effort to ensure the Peconic Estuary Program (PEP) meets the objectives outlined in the Plan and implements the management actions and action steps detailed in the Plan, the PEP Natural Resources Subcommittee (NRS) has committed to track its implementation. The NRS develops and submits an annual Implementation Progress Reports (IPRs) to the Peconic Estuary Program (PEP) Management Committee. This ensures proper accounting and tracking of implementation progress and provides an adaptive and timely mechanism for notifying the Management Committee of new priorities, needs, and recommendations. The following is a brief assessment of actions taken from June 2011 to June 2012.

## **MAJOR ACCOMPLISHMENTS**

#### 1. Seagrass Protection Act Bill

(Action Step 1.1.3)

In July 2012, the Seagrass Protection Act, that authorizes the New York State Department of Environmental Conservation to adopt rules and regulations to regulate the protection and conservation of seagrasses, was signed into law by the Governor. In order to preserve and expand New York's seagrass, this law may restrict activities that may threaten seagrass areas, such as mechanically powered fishing gear, and grant the New York State Department of Environmental Conservation (DEC) the authority to develop and adopt a seagrass management plan to further protect at risk areas. This law takes effect in 150 days after July 31, 2012.

## 2. 2012 Association of Marine Industries (AMI) Boater's Guide

(Action Steps 2.1.2 and 2.1.3)

The Peconic Estuary Program worked cooperatively with the AMI to include information on the value of eelgrass and how best to protect eelgrass while boating in the published and distributed 2012 Boater's Guide. 12,500 AMI Boater's Guides are published annually and distributed to water dependent business. They, in turn, are made available to the boating public at water access points. The Guide is available online this year at <a href="http://www.boatli.org/pdf/ami-boaters-guide.pdf">http://www.boatli.org/pdf/ami-boaters-guide.pdf</a>

# 3. Ongoing - 2010 PEP Mini Grant: Group for the East End & Southampton Town Trustee Eelgrass Educational Brochure

(Action Steps 2.1.2 and 2.1.3)

The Peconic Estuary Program selected the Group for the East End (GFTEE) and Southampton Town Trustees to receive a 2010 mini grant. Cooperatively, GFTEE and the Southampton Trustees developed a brochure which details what eelgrass is, why it's important, the multiple threats to eelgrass, and actions people can take to protect the species. Efforts will be coordinated with other Peconic municipalities, stakeholders, and industries to allow for distribution throughout the entire Peconic watershed. This brochure can be made available at access sites/points, sent to license and permit holders, and made available at other public venues.

#### 4. Ongoing - East End Public Radio Spots on Eelgrass

(Action Steps 2.1.3)

The Peconic Estuary Program originally funded a short radio spot in 2010, narrated by Chris Pickerell of Cornell Cooperative Extension of Suffolk County, which hit the airwaves on WLNG, WRIV, WEHM and WBAZ in March 2010 and continues to run in 2012. It is expected to reach 1.5 million listeners.

## "Voices of the Bays - East Enders protecting and restoring Long Island's Peconic Bays

Hi I'm Chris Pickerell, eelgrass program manager for Cornell Marine, speaking on behalf of the Peconic Estuary Program. The Peconic Estuary is an amazing ecosystem which is home for a wide variety of species. Eelgrass, an underwater plant species, is as important to the bay as trees are to our environment. In fact seagrass habitats are some of the most biodiverse communities on earth. Eelgrass provides habitat and food for many commercial species including bay scallops, it can improve water quality by extracting nutrients, producing oxygen, slowing currents, and reducing erosion. Unfortunately we have seen drastic declines in the abundance of eelgrass and eelgrass beds in the Peconic Estuary, so please be extra careful not to disturb any underwater plants, by walking, boating, or anchoring on or near them. For more information please visit the Peconic Estuary Program's website at www.peconicestuary.org."

# 5. Ongoing - Eelgrass and Groundwater Interaction Research and Monitoring (Management Action 4.2)

The New York State Seagrass Task Force has funded research to investigate submerged groundwater discharge and eelgrass interactions in addition to limited herbicide toxicity research. The Peconic Estuary Program has also funded additional, expanded groundwater and eelgrass interaction monitoring at beds monitored under the Peconic Estuary Program Long-Term Eelgrass Monitoring Program. Results and data are not available yet.

### 6. Ongoing - Light and Temperature Loggers

(Management Action 4.2)

Cornell Cooperative Extension of Suffolk County has commenced and expanded their research using light and temperature loggers to research and to evaluate sustainable levels for eelgrass growth and survival.

#### 7. Lake Montauk Restoration Effort

(Management Action 5.3)

The Town of East Hampton, with guidance from Cornell Cooperative Extension, decided to try a small eelgrass planting program in Lake Montauk on a piece of underwater property. The project will use several different methods including the latest employed by Chris Pickerell of CCE.

#### 8. FY2012 National Estuary Funds

(Management Action 4.2)

Approximately \$80,000 of the annual funds available to the PEP, have been identified for use to further investigate the interactions of light and eelgrass survival (bio-optical model). These funds will also be used to help narrow the determination of acceptable nitrogen levels for eelgrass survival within the Peconic Estuary.

#### 9. Benthic Mapping

(Management Action 3.1, 5.1)

Suffolk County has re-programming unspent benthic mapping funds so an aerial survey for Submerged Aquatic Vegetation (SAV) can be completed for the Peconic Estuary. This survey is scheduled for March or April 2013. This effort does not preclude the NYSDOS

effort to aerially survey the Peconics and South Shore. A current assessment of the distribution eelgrass beds is an integral part of managing eelgrass populations.

#### 10. Wetlands Program Development Grant

(Management Action 4.3)

NEIWPCC, Suffolk County and NYSDOS submitted a grant application for \$500,000 in an effort to begin to develop a stakeholder driven model to manage seagrass areas. Along with seagrass management options, a nutrient criteria for Nitrogen will be further investigated. This grant was not awarded.

#### **SHORTCOMINGS & CHALLENGES**

## 1. Eelgrass Inventory

(Management Action 3.1)

The last comprehensive eelgrass survey was completed using 2000 aerials. The next survey, funded by New York State Department of State (NYSDOS), is slated to occur in 2013. Recommendations are to conduct inventories every two (2) years. PEP is also trying to fund an aerial survey of the Peconic Estuary.

# 2. Timely reporting and availability of annual PEP Long-Term Eelgrass Monitoring Reports

(Management Action 3.3)

This information and data is critical to responding to new stressors and threats. Annual monitoring reports are posted and archived on the PEP website. Due to the contracting process, the reports are delayed about two (2) years.

#### **RECOMMENDATIONS**

- 1. As reported in previous years, it is a high priority to conduct a new eelgrass inventory. Either the NYSDOS effort (now in conjunction with NOAA) or the PEP sponsored effort, should be encouraged so a survey is completed as soon as possible.
- 2. As eelgrass beds are becoming fewer in number, investigate options to monitor additional eelgrass beds in Town waters, not currently in PEP's Long Term Eelgrass Monitoring Program. This may include the new effort to establish Seagrass Management Areas and stakeholder-drive Seagrass Management Area Plans.
- 3. Ensure that East End elected officials, stakeholders and government agencies understand the importance and have enough information to further educate, engage, and foster local implementation of management actions in conjunction with all involved partners.
- 4. Continue all ongoing efforts, including implementation of the new projects and initiatives outlined under the "Major Accomplishments" heading.

#### IMPLEMENTATION TRACKING TABLE

Below, is an Implementation Tracking Table which reports progress made under each objective, management action and action step in the "Eelgrass Management Plan for the Peconic Estuary" during the period of June 2011- June 2012.

## Eelgrass Management Plan for the Peconic Estuary: Implementation Tracking Table

Objective 1: Enhance protection of existing and future eelgrass beds from physical disturbances.	June '11-June '12 Progress
Management Action 1.1:  Identify and promote new protection measures (regulatory mechanisms at all level of government). Particular attention immediately directed to areas where eelgrass beds recently disappeared, such that disturbances can be limited to allow for natural re-vegetation.	
Action Step 1.1.1:  Designate appropriate eelgrass and eelgrass habitat areas as "shellfish spawner sanctuaries", "eelgrass sanctuaries", "eelgrass management areas", "habitat management areas" and limit activity in and around said areas.  Responsible entity: NYSDEC, Town Board/Trustees Timeframe: Immediate and Ongoing	Eelgrass Sanctuaries have been established in Napeague Harbor, East Hampton (East Hampton Trustees, April 2008) and Bullhead Bay, Southampton (Southampton Town Trustees, Dec 2009). Shellfish harvesting and other harmful activities are prohibited. Discussions have commenced to establish a protective area in Hallock's Bay, Southold.
Action Step 1.1.2: Implement area restrictions, gear restrictions, activity restrictions in and/or near eelgrass.  Responsible entity: NYSDEC, Town Board/Trustees  Timeframe: Long Term (10 years)	Some Towns prohibit churning in eelgrass beds. Some Towns have also created shellfish spawner sanctuaries in/near eelgrass and implement restrictions in those sanctuaries and buffer areas.
Action Step 1.1.3:  Adopt new, New York State regulations (legislation if necessary) specific to the protection and conservation of eelgrass.  Responsible entity: NYSDEC  Timeframe: Long Term (10 years)	Seagrass Protection Act bill (S4287A-2012, same as A7988-2012) introduced March 2012, http://open.nysenate.gov/legislation/bill/S4287A-2012. Approved by both houses. Governor signed into law on July 31, 2012.
Management Action 1.2: Identify areas where eelgrass exists and maintenance navigational dredging or excavation activities are needed; in those cases, implement a dredging window and material placement strategy that maximizes eelgrass protection.  *Please note that dredging for purposes of increasing flushing may also be beneficial to eelgrass beds. See Management Action 6.3.  Responsible entity: PEP NRS, Towns Board/Trustees  Timeframe: Short Term (5 years)	
Objective 2: Increase stakeholder, user group, and public awareness of eelgrass and the importance of the species in an effort to foster responsible steward-like resource enjoyment.	June '11-June '12 Progress
Management Action 2.1:  Build awareness of eelgrass bed locations and the importance of eelgrass through a public education/outreach campaign; special attention to identifying and promoting citizens/stakeholder/user group actions.	

Action Step 2.1.1:	No substantial progress to report.
Design and install signs at waterfront public access points, including marinas and boat ramps.	
Responsible entity: PEP NRS, PEP CAC, NYSDEC, Town Board/Trustees, Marina operators	
Timeframe: Immediate and Ongoing	
Action Step 2.1.2:	Included info on the value of eelgrass and how to protect eelgrass in the 2012 AMI
	Boaster's Guide. New GEE/Southampton eelgrass brochure should be included
Work with boating and fishing associations to promote less harmful practices to eelgrass habitat and incorporate	with all permits and licenses.
educational materials with boat registrations and fishing, shellfishing and access permits, passes and licenses.	
Responsible entity: PEP NRS, PEP CAC, NYSDEC, NYS DMV, AMI, Town Trustees, Fishing and Boasting	
Assoc.	
Timeframe: Immediate and Ongoing	
	Included info on the value of eelgrass and how to protect eelgrass in the 2012 AMI
Action Step 2.1.3:	Boaster's Guide. Group for the East End & Southampton Town Trustees produced
Develop and distribute up-to-date education materials that will improve public understanding of the value, habitat	
requirements, status, and trends of eelgrass.	brochure for all East End Towns to use and distribute. 2012 PEP Radio Spot on
Responsible entity: PEP CAC, CCE, NY Sea Grant	WLNG, WRIV, WEHM and WBAZ expected to reach 1.5 million people.
Timeframe: Immediate and Ongoing	
Objective 3: Build an established, consistent and comprehensive eelgrass inventory program and	luna 111 luna 110 Drawraga
sentinel monitoring program.	June '11-June '12 Progress
John Morning programs	
Management Action 3.1:	Last comprehensive survey was completed in 2000. NYSDOS survey has not yet
31 3	Last comprehensive survey was completed in 2000. NYSDOS survey has not yet ocurred due to contracting delays- may happen in 2012. PEP has re-programmed
Management Action 3.1:	ocurred due to contracting delays- may happen in 2012. PEP has re-programmed
Management Action 3.1:  Perform eelgrass inventories and mapping efforts in the Peconic Estuary every two (2) years.	
Management Action 3.1:  Perform eelgrass inventories and mapping efforts in the Peconic Estuary every two (2) years.  Responsible entity: PEP NRS (lead), NYSDEC, NYSDOS, USFWS, CCE	ocurred due to contracting delays- may happen in 2012. PEP has re-programmed
Management Action 3.1:  Perform eelgrass inventories and mapping efforts in the Peconic Estuary every two (2) years.  Responsible entity: PEP NRS (lead), NYSDEC, NYSDOS, USFWS, CCE  Timeframe: Immediate and Ongoing  Management Action 3.2:	ocurred due to contracting delays- may happen in 2012. PEP has re-programmed mapping funds to attempt an aerial survey of the Peconics in 2012.  NYSDOS 2012 survey will be done simultaneously with the South Shore (PEP
Management Action 3.1:  Perform eelgrass inventories and mapping efforts in the Peconic Estuary every two (2) years.  Responsible entity: PEP NRS (lead), NYSDEC, NYSDOS, USFWS, CCE  Timeframe: Immediate and Ongoing  Management Action 3.2:  Coordinate efforts with other Long Island seagrass mapping initiatives to support consistency through the New	ocurred due to contracting delays- may happen in 2012. PEP has re-programmed mapping funds to attempt an aerial survey of the Peconics in 2012.  NYSDOS 2012 survey will be done simultaneously with the South Shore (PEP survey would not). The last Long Island Sound survey was conducted in 2009. This
Management Action 3.1:  Perform eelgrass inventories and mapping efforts in the Peconic Estuary every two (2) years.  Responsible entity: PEP NRS (lead), NYSDEC, NYSDOS, USFWS, CCE  Timeframe: Immediate and Ongoing  Management Action 3.2:  Coordinate efforts with other Long Island seagrass mapping initiatives to support consistency through the New York State Seagrass Task Force.	ocurred due to contracting delays- may happen in 2012. PEP has re-programmed mapping funds to attempt an aerial survey of the Peconics in 2012.  NYSDOS 2012 survey will be done simultaneously with the South Shore (PEP
Management Action 3.1:  Perform eelgrass inventories and mapping efforts in the Peconic Estuary every two (2) years.  Responsible entity: PEP NRS (lead), NYSDEC, NYSDOS, USFWS, CCE  Timeframe: Immediate and Ongoing  Management Action 3.2:  Coordinate efforts with other Long Island seagrass mapping initiatives to support consistency through the New York State Seagrass Task Force.  Responsible entity: PEP NRS, NYSDEC, NYS Seagrass Taskforce, LISS, SSER	ocurred due to contracting delays- may happen in 2012. PEP has re-programmed mapping funds to attempt an aerial survey of the Peconics in 2012.  NYSDOS 2012 survey will be done simultaneously with the South Shore (PEP survey would not). The last Long Island Sound survey was conducted in 2009. This
Management Action 3.1:  Perform eelgrass inventories and mapping efforts in the Peconic Estuary every two (2) years.  Responsible entity: PEP NRS (lead), NYSDEC, NYSDOS, USFWS, CCE  Timeframe: Immediate and Ongoing  Management Action 3.2:  Coordinate efforts with other Long Island seagrass mapping initiatives to support consistency through the New York State Seagrass Task Force.  Responsible entity: PEP NRS, NYSDEC, NYS Seagrass Taskforce, LISS, SSER  Timeframe: Ongoing	ocurred due to contracting delays- may happen in 2012. PEP has re-programmed mapping funds to attempt an aerial survey of the Peconics in 2012.  NYSDOS 2012 survey will be done simultaneously with the South Shore (PEP survey would not). The last Long Island Sound survey was conducted in 2009. This timeframe might be adequate to get a regional perspective.
Management Action 3.1:  Perform eelgrass inventories and mapping efforts in the Peconic Estuary every two (2) years.  Responsible entity: PEP NRS (lead), NYSDEC, NYSDOS, USFWS, CCE  Timeframe: Immediate and Ongoing  Management Action 3.2:  Coordinate efforts with other Long Island seagrass mapping initiatives to support consistency through the New York State Seagrass Task Force.  Responsible entity: PEP NRS, NYSDEC, NYS Seagrass Taskforce, LISS, SSER  Timeframe: Ongoing  Management Action 3.3:	ocurred due to contracting delays- may happen in 2012. PEP has re-programmed mapping funds to attempt an aerial survey of the Peconics in 2012.  NYSDOS 2012 survey will be done simultaneously with the South Shore (PEP survey would not). The last Long Island Sound survey was conducted in 2009. This timeframe might be adequate to get a regional perspective.  Several annual PEP Long Term Eelgrass Monitoring Reports must still be posted to
Management Action 3.1:  Perform eelgrass inventories and mapping efforts in the Peconic Estuary every two (2) years.  Responsible entity: PEP NRS (lead), NYSDEC, NYSDOS, USFWS, CCE  Timeframe: Immediate and Ongoing  Management Action 3.2:  Coordinate efforts with other Long Island seagrass mapping initiatives to support consistency through the New York State Seagrass Task Force.  Responsible entity: PEP NRS, NYSDEC, NYS Seagrass Taskforce, LISS, SSER  Timeframe: Ongoing  Management Action 3.3:  Ensure results are reported to and easily accessible by stakeholders, local governments, and other permitting	ocurred due to contracting delays- may happen in 2012. PEP has re-programmed mapping funds to attempt an aerial survey of the Peconics in 2012.  NYSDOS 2012 survey will be done simultaneously with the South Shore (PEP survey would not). The last Long Island Sound survey was conducted in 2009. This timeframe might be adequate to get a regional perspective.
Management Action 3.1:  Perform eelgrass inventories and mapping efforts in the Peconic Estuary every two (2) years.  Responsible entity: PEP NRS (lead), NYSDEC, NYSDOS, USFWS, CCE  Timeframe: Immediate and Ongoing  Management Action 3.2:  Coordinate efforts with other Long Island seagrass mapping initiatives to support consistency through the New York State Seagrass Task Force.  Responsible entity: PEP NRS, NYSDEC, NYS Seagrass Taskforce, LISS, SSER  Timeframe: Ongoing  Management Action 3.3:  Ensure results are reported to and easily accessible by stakeholders, local governments, and other permitting government agencies in the Peconic Estuary.	ocurred due to contracting delays- may happen in 2012. PEP has re-programmed mapping funds to attempt an aerial survey of the Peconics in 2012.  NYSDOS 2012 survey will be done simultaneously with the South Shore (PEP survey would not). The last Long Island Sound survey was conducted in 2009. This timeframe might be adequate to get a regional perspective.  Several annual PEP Long Term Eelgrass Monitoring Reports must still be posted to
Management Action 3.1:  Perform eelgrass inventories and mapping efforts in the Peconic Estuary every two (2) years.  Responsible entity: PEP NRS (lead), NYSDEC, NYSDOS, USFWS, CCE  Timeframe: Immediate and Ongoing  Management Action 3.2:  Coordinate efforts with other Long Island seagrass mapping initiatives to support consistency through the New York State Seagrass Task Force.  Responsible entity: PEP NRS, NYSDEC, NYS Seagrass Taskforce, LISS, SSER  Timeframe: Ongoing  Management Action 3.3:  Ensure results are reported to and easily accessible by stakeholders, local governments, and other permitting government agencies in the Peconic Estuary.  Responsible entity: PEP Program Office	ocurred due to contracting delays- may happen in 2012. PEP has re-programmed mapping funds to attempt an aerial survey of the Peconics in 2012.  NYSDOS 2012 survey will be done simultaneously with the South Shore (PEP survey would not). The last Long Island Sound survey was conducted in 2009. This timeframe might be adequate to get a regional perspective.  Several annual PEP Long Term Eelgrass Monitoring Reports must still be posted to
Management Action 3.1:  Perform eelgrass inventories and mapping efforts in the Peconic Estuary every two (2) years.  Responsible entity: PEP NRS (lead), NYSDEC, NYSDOS, USFWS, CCE  Timeframe: Immediate and Ongoing  Management Action 3.2:  Coordinate efforts with other Long Island seagrass mapping initiatives to support consistency through the New York State Seagrass Task Force.  Responsible entity: PEP NRS, NYSDEC, NYS Seagrass Taskforce, LISS, SSER  Timeframe: Ongoing  Management Action 3.3:  Ensure results are reported to and easily accessible by stakeholders, local governments, and other permitting government agencies in the Peconic Estuary.	ocurred due to contracting delays- may happen in 2012. PEP has re-programmed mapping funds to attempt an aerial survey of the Peconics in 2012.  NYSDOS 2012 survey will be done simultaneously with the South Shore (PEP survey would not). The last Long Island Sound survey was conducted in 2009. This timeframe might be adequate to get a regional perspective.  Several annual PEP Long Term Eelgrass Monitoring Reports must still be posted to
Management Action 3.1:  Perform eelgrass inventories and mapping efforts in the Peconic Estuary every two (2) years.  Responsible entity: PEP NRS (lead), NYSDEC, NYSDOS, USFWS, CCE  Timeframe: Immediate and Ongoing  Management Action 3.2:  Coordinate efforts with other Long Island seagrass mapping initiatives to support consistency through the New York State Seagrass Task Force.  Responsible entity: PEP NRS, NYSDEC, NYS Seagrass Taskforce, LISS, SSER  Timeframe: Ongoing  Management Action 3.3:  Ensure results are reported to and easily accessible by stakeholders, local governments, and other permitting government agencies in the Peconic Estuary.  Responsible entity: PEP Program Office	ocurred due to contracting delays- may happen in 2012. PEP has re-programmed mapping funds to attempt an aerial survey of the Peconics in 2012.  NYSDOS 2012 survey will be done simultaneously with the South Shore (PEP survey would not). The last Long Island Sound survey was conducted in 2009. This timeframe might be adequate to get a regional perspective.  Several annual PEP Long Term Eelgrass Monitoring Reports must still be posted to
Management Action 3.1:  Perform eelgrass inventories and mapping efforts in the Peconic Estuary every two (2) years.  Responsible entity: PEP NRS (lead), NYSDEC, NYSDOS, USFWS, CCE  Timeframe: Immediate and Ongoing  Management Action 3.2:  Coordinate efforts with other Long Island seagrass mapping initiatives to support consistency through the New York State Seagrass Task Force.  Responsible entity: PEP NRS, NYSDEC, NYS Seagrass Taskforce, LISS, SSER  Timeframe: Ongoing  Management Action 3.3:  Ensure results are reported to and easily accessible by stakeholders, local governments, and other permitting government agencies in the Peconic Estuary.  Responsible entity: PEP Program Office	ocurred due to contracting delays- may happen in 2012. PEP has re-programmed mapping funds to attempt an aerial survey of the Peconics in 2012.  NYSDOS 2012 survey will be done simultaneously with the South Shore (PEP survey would not). The last Long Island Sound survey was conducted in 2009. This timeframe might be adequate to get a regional perspective.  Several annual PEP Long Term Eelgrass Monitoring Reports must still be posted to
Management Action 3.1:  Perform eelgrass inventories and mapping efforts in the Peconic Estuary every two (2) years.  Responsible entity: PEP NRS (lead), NYSDEC, NYSDOS, USFWS, CCE  Timeframe: Immediate and Ongoing  Management Action 3.2:  Coordinate efforts with other Long Island seagrass mapping initiatives to support consistency through the New York State Seagrass Task Force.  Responsible entity: PEP NRS, NYSDEC, NYS Seagrass Taskforce, LISS, SSER  Timeframe: Ongoing  Management Action 3.3:  Ensure results are reported to and easily accessible by stakeholders, local governments, and other permitting government agencies in the Peconic Estuary.  Responsible entity: PEP Program Office	ocurred due to contracting delays- may happen in 2012. PEP has re-programmed mapping funds to attempt an aerial survey of the Peconics in 2012.  NYSDOS 2012 survey will be done simultaneously with the South Shore (PEP survey would not). The last Long Island Sound survey was conducted in 2009. This timeframe might be adequate to get a regional perspective.  Several annual PEP Long Term Eelgrass Monitoring Reports must still be posted to the PEP website for easy access.
Management Action 3.1: Perform eelgrass inventories and mapping efforts in the Peconic Estuary every two (2) years.  Responsible entity: PEP NRS (lead), NYSDEC, NYSDOS, USFWS, CCE Timeframe: Immediate and Ongoing  Management Action 3.2: Coordinate efforts with other Long Island seagrass mapping initiatives to support consistency through the New York State Seagrass Task Force.  Responsible entity: PEP NRS, NYSDEC, NYS Seagrass Taskforce, LISS, SSER Timeframe: Ongoing  Management Action 3.3: Ensure results are reported to and easily accessible by stakeholders, local governments, and other permitting government agencies in the Peconic Estuary.  Responsible entity: PEP Program Office Timeframe: Ongoing  Objective 4: Improve our knowledge and understanding of eelgrass through research initiatives to	ocurred due to contracting delays- may happen in 2012. PEP has re-programmed mapping funds to attempt an aerial survey of the Peconics in 2012.  NYSDOS 2012 survey will be done simultaneously with the South Shore (PEP survey would not). The last Long Island Sound survey was conducted in 2009. This timeframe might be adequate to get a regional perspective.  Several annual PEP Long Term Eelgrass Monitoring Reports must still be posted to the PEP website for easy access.
Management Action 3.1:  Perform eelgrass inventories and mapping efforts in the Peconic Estuary every two (2) years.  Responsible entity: PEP NRS (lead), NYSDEC, NYSDOS, USFWS, CCE  Timeframe: Immediate and Ongoing  Management Action 3.2:  Coordinate efforts with other Long Island seagrass mapping initiatives to support consistency through the New York State Seagrass Task Force.  Responsible entity: PEP NRS, NYSDEC, NYS Seagrass Taskforce, LISS, SSER  Timeframe: Ongoing  Management Action 3.3:  Ensure results are reported to and easily accessible by stakeholders, local governments, and other permitting government agencies in the Peconic Estuary.  Responsible entity: PEP Program Office  Timeframe: Ongoing	ocurred due to contracting delays- may happen in 2012. PEP has re-programmed mapping funds to attempt an aerial survey of the Peconics in 2012.  NYSDOS 2012 survey will be done simultaneously with the South Shore (PEP survey would not). The last Long Island Sound survey was conducted in 2009. This timeframe might be adequate to get a regional perspective.  Several annual PEP Long Term Eelgrass Monitoring Reports must still be posted to the PEP website for easy access.

Management Action 4.1:	No substantial progress to report. A separate Workgroup was not established,
Establish a Peconic Estuary Program Eelgrass Workgroup to provide a forum for discussion and coordinate with	although the PEP Natural Resources Subcommittee has been filling this role.
New York State Seagrass Task Force efforts.	
Responsible entity: PEP NRS	
Timeframe: Immediate and Ongoing	
Management Action 4.2:	The NYS Seagrass Task Force has funded several investigations and studies in
Formulate and test hypotheses through research initiatives to identify threats and factors affecting eelgrass	the Peconics- submerged groundwater discharge characteristics and how they may
existence, health, and restoration efforts.	affect eelgrass, and herbicide toxicity to eelgrass. PEP funded additional
	groundwater work and installation of light and temperature loggers. TNC funding
Responsible entity: New PEP Eelgrass Workgroup, NY Sea Grant, TNC, SUNY	regional Genetic Diversity and Multiple Stressors research project. Results TBD.
Timeframe: Ongoing  Management Action 4.3:	NETHWIDDO (with Confalls County and NIVCDOC) has applied for \$500,000 in Matland
Implement an adaptive eelgrass management and restoration program reflective of research results, conclusions	NEIWPPC (with Suffolk County and NYSDOS) has applied for \$500,000 in Wetland
and recommendations.	Management Areas and Plans. Within this project, an effort to move closer to
Responsible entity: PEP NRS, New PEP Eelgrass Workgroup and all partners	determining a nutruent criteria for Nitrogen for eelgrass survival will be made. Not
Timeframe: Ongoing	awarded.
Timename. Originia	lawarueu.
Objective 5: Increase eelgrass bed abundance and density through physical restoration efforts.	June '11-June '12 Progress
Management Action 5.1:	No substantial progress to report.
Assess the current quantitative restoration goal (a 10% increase in current acreage in 10 years) and set a new	
goal, if applicable, using the new 2009 Peconic Eelgrass Inventory and level of restoration success in the	
Peconic Estuary as justification.	
Responsible entity: New PEP Eelgrass Workgroup	
Timeframe: Short Term (5 years)	
Management Action 5.2:	CCE has posted this info on www.SeagrassLl.org. Other restoration attempts
	ICCE has posted this into on www.seagrasser.org. Other restoration attempts
· · · · · · · · · · · · · · · · · · ·	
Develop an up-to-date Peconic Estuary eelgrass restoration tracking database (past and current) to identify	
Develop an up-to-date Peconic Estuary eelgrass restoration tracking database (past and current) to identify restoration test plot and full scale restoration attempts, locations, restoration method used, results, etc	(some successful, though most not) are included in the Peconic Estuary Program
Develop an up-to-date Peconic Estuary eelgrass restoration tracking database (past and current) to identify restoration test plot and full scale restoration attempts, locations, restoration method used, results, etc Responsible entity: New PEP Eelgrass Workgroup, CCE	(some successful, though most not) are included in the Peconic Estuary Program
Develop an up-to-date Peconic Estuary eelgrass restoration tracking database (past and current) to identify restoration test plot and full scale restoration attempts, locations, restoration method used, results, etc	(some successful, though most not) are included in the Peconic Estuary Program
Develop an up-to-date Peconic Estuary eelgrass restoration tracking database (past and current) to identify restoration test plot and full scale restoration attempts, locations, restoration method used, results, etc  Responsible entity: New PEP Eelgrass Workgroup, CCE  Timeframe: Short Term (5 years) and Ongoing	(some successful, though most not) are included in the Peconic Estuary Program
Develop an up-to-date Peconic Estuary eelgrass restoration tracking database (past and current) to identify restoration test plot and full scale restoration attempts, locations, restoration method used, results, etc  Responsible entity: New PEP Eelgrass Workgroup, CCE  Timeframe: Short Term (5 years) and Ongoing  Management Action 5.3:	(some successful, though most not) are included in the Peconic Estuary Program
Develop an up-to-date Peconic Estuary eelgrass restoration tracking database (past and current) to identify restoration test plot and full scale restoration attempts, locations, restoration method used, results, etc  Responsible entity: New PEP Eelgrass Workgroup, CCE  Timeframe: Short Term (5 years) and Ongoing  Management Action 5.3: Implement restoration efforts.  Action Step 5.3.1:	(some successful, though most not) are included in the Peconic Estuary Program Completed Habitat Restoration Project Inventory.
Develop an up-to-date Peconic Estuary eelgrass restoration tracking database (past and current) to identify restoration test plot and full scale restoration attempts, locations, restoration method used, results, etc  Responsible entity: New PEP Eelgrass Workgroup, CCE  Timeframe: Short Term (5 years) and Ongoing  Management Action 5.3: Implement restoration efforts.  Action Step 5.3.1:  Continue to use and refine the Peconic Eelgrass Restoration Site Suitability Index Model to identify and prioritize	(some successful, though most not) are included in the Peconic Estuary Program Completed Habitat Restoration Project Inventory.  Ongoing effort through CCE. The Town of East Hampton will try to restore a small
Develop an up-to-date Peconic Estuary eelgrass restoration tracking database (past and current) to identify restoration test plot and full scale restoration attempts, locations, restoration method used, results, etc  *Responsible entity: New PEP Eelgrass Workgroup, CCE  *Timeframe: Short Term (5 years) and Ongoing  *Management Action 5.3:*  Implement restoration efforts.  *Action Step 5.3.1:*  Continue to use and refine the Peconic Eelgrass Restoration Site Suitability Index Model to identify and prioritize potential restoration locations. Adapt the model on an as needed basis as additional information becomes	(some successful, though most not) are included in the Peconic Estuary Program Completed Habitat Restoration Project Inventory.  Ongoing effort through CCE. The Town of East Hampton will try to restore a small section of Lake Montauk using techniques and guidance from CCE.
Develop an up-to-date Peconic Estuary eelgrass restoration tracking database (past and current) to identify restoration test plot and full scale restoration attempts, locations, restoration method used, results, etc Responsible entity: New PEP Eelgrass Workgroup, CCE Timeframe: Short Term (5 years) and Ongoing  Management Action 5.3: Implement restoration efforts.  Action Step 5.3.1:  Continue to use and refine the Peconic Eelgrass Restoration Site Suitability Index Model to identify and prioritize potential restoration locations. Adapt the model on an as needed basis as additional information becomes available (e.g. light logger data) and technologies evolve.	(some successful, though most not) are included in the Peconic Estuary Program Completed Habitat Restoration Project Inventory.  Ongoing effort through CCE. The Town of East Hampton will try to restore a small section of Lake Montauk using techniques and guidance from CCE.
Develop an up-to-date Peconic Estuary eelgrass restoration tracking database (past and current) to identify restoration test plot and full scale restoration attempts, locations, restoration method used, results, etc Responsible entity: New PEP Eelgrass Workgroup, CCE Timeframe: Short Term (5 years) and Ongoing  Management Action 5.3: Implement restoration efforts.  Action Step 5.3.1:  Continue to use and refine the Peconic Eelgrass Restoration Site Suitability Index Model to identify and prioritize potential restoration locations. Adapt the model on an as needed basis as additional information becomes	(some successful, though most not) are included in the Peconic Estuary Program Completed Habitat Restoration Project Inventory.  Ongoing effort through CCE. The Town of East Hampton will try to restore a small section of Lake Montauk using techniques and guidance from CCE.

Action Step 5.3.2:	Ongoing effort through CCE.
Continue to monitor success of restoration efforts.	
Responsible entity: CCE, Towns	
Timeframe: Ongoing	
Action Step 5.3.3:	Ongoing effort through CCE.
Identify and undertake new restoration efforts based upon results of restoration site monitoring.	
Responsible entity: New PEP Eelgrass Workgroup, CCE, Towns	
Timeframe: Ongoing	
Objective /. Encoura the evictories of water quality conditions recognized concerning maintaining	
Objective 6: Ensure the existence of water quality conditions necessary for conserving, maintaining,	June '11-June '12 Progress
and restoring eelgrass.  Management Action 6.1:	· · · · · · · · · · · · · · · · · · ·
Reduce and minimize pollutant generation within the Peconic Estuary watershed.	
Action Step 6.1.1:	PEP is implementing the Nitrogen TMDL and funding agricultural stewardship
Implement regulatory and voluntary measures and initiatives to reduce nutrient pollution and create a balanced	activities in nitrogen impaired watersheds. All Peconic Towns and Villages are now
nutrient regime. These may include: turf grass (including golf courses) and landscape fertilizer management;	permitted under the MS4 stormwater permit. Suffolk County is implementating its
onsite wastewater disposal system management (e.g., inspections, mandatory upgrades of substandard	fertilizer reduction law/campaign and PEP's nutrient mgmt challenge for golf
systems, and incentives); the use of new nitrogen removing technologies and alternative uses for Sewage	courses. The PEP will be fully assessing TMDL implementation and analyzing
Treatment Plant (STP) effluent; Clean Air Act standards to minimize nitrogen loadings from atmospheric	groundwater nitorgen data.
deposition; implementation of the Peconic Nitrogen Total Maximum Daily Load (TMDL); implementation of the	groundwater fillorgen data.
NYSDEC Municipal Separate Storm Sewer Systems (MS4s) stormwater permit; agricultural stewardship	
activities; open space preservation; and shellfish restoration initiatives.	
Responsible entity: Private land and property owners (including homeowners, golf courses, agricultural	
operators), SCDHS, Towns, STPs, NYSDEC, USEPA	
Timeframe: Ongoing	
Action Step 6.1.2:	When available, current herbicide toxicity research results may require additional
· ·	pesticide/herbicide mgmt efforts.
Implement regulatory and voluntary measures and initiatives to reduce toxic pollution. These may include:	pesticide/fierbicide fright enorts.
pesticide and herbicide management; agricultural stewardship activities; and implementation of the NYSDEC	
Municipal Separate Storm Sewer Systems (MS4s) and Industrial Multi-Sector stormwater permits.	
Responsible entity: Private land and property owners (including homeowners, golf courses, agricultural	
operators), Towns, NYSDEC	
Timeframe: Ongoing	
Management Action 6.2:	
Reduce and intercept stormwater and urban runoff.	Onesian
Action Step 6.2.1:	Ongoing.
and infiltration technologies.	
Responsible entity: Towns, private property owners, NYSDEC, NYSDOT, SCDPW	
Timeframe: Ongoing	
Timetrane. Orgothy	

Action Step 6.2.2:	Ongoing. PEP to be funding FY11 demo Conservation Landscaping Rebate
Incorporate the use of Low Impact Development (LID) practices, including but not limited to conservation landscaping, rain gardens, permeable pavements, and green roofs, into new and existing development.  Responsible entity: SC Planning, Towns, private property owners, PEP	Program.
Timeframe: Ongoing  Management Action 6.3:  Protect and restore vegetated buffers, wetland, and open space.  Responsible entity: Towns, private property owners, NYSDEC, Suffolk County, TNC  Timeframe: Ongoing	Ongoing. PEP's 2009 Habitat Restoration Plan is being implemented. PEP funding conceptual habitat restoration design plans for 10 listed sites.
Management Action 6.4:  Explore and investigate, on a case-by-case, as needed basis, the use of inlet maintenance dredging to increase flushing capacity to improve water quality conditions for eelgrass. *Please note that dredging activities may also be harmful to eelgrass beds. See Management Action 1.2.  Responsible entity: New PEP Eelgrass Workgroup  Timeframe: Short Term (5 years)	PEP held a separate Dredging Meeting in 2010. A summary and results report is forthcoming.
Objective 7: Minimize and mitigate the negative effects from the construction of new and previously placed docks and other shoreline stabilization structures including but not limited to bulkheads, seawalls, groins, and jetties in and around eelgrass beds or in areas where restoration or re-colonization is likely. [Sea level rise is addressed under this objective].	June '11-June '12 Progress
Management Action 7.1:  Minimize the effect of docks and other SSS on sensitive eelgrass beds through existing permitting processes or other regulatory measures, including but not limited to a restoration mitigation strategy, promoting dock construction (or reconstruction) that allows for maximum light penetration, a no-net increase policy, and, if possible a net decrease policy.  Responsible entity: NYSDEC, Towns, TNC, public and private waterfront businesses/owners  Timeframe: Ongoing	Ongoing.
Objective 8: Prevent, if possible, and minimize shading and other negative impacts associated with the	June '11-June '12 Progress
onset of future harmful algal blooms and Brown and Red Tide episodes. <u>Management Action 8.1</u> :	Ongoing.
Support existing and expand Brown Tide monitoring, research, and management initiatives to help identify environmental factors responsible for blooms. Implement initiatives to prevent and alleviate the effects of Brown tide blooms, including but not limited to nutrient management plans (*See Management Objective 6). Responsible entity: NY Sea Grant, SUNY, SCDHS, PEP	

Timeframe: Ongoing	
Management Action 8.2:	Ongoing.
Support existing and expand phytoplankton and other harmful algal species monitoring, research, and management initiatives to help identify environmental factors responsible for blooms. Implement initiatives to prevent and alleviate the effects of phytoplankton and other harmful algal species blooms, including but not limited to nutrient management plans (*See Management Objective 6).  Responsible entity: NY Sea Grant, SUNY, SCDHS, PEP Timeframe: Ongoing	