

# Barnegat Bay National Estuary Program Tracking System

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## Tracking System

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5.9	Identify the extent of water quality problems emanating from livestock farms and work with livestock producers to reduce runoff from manure stockpiles.	Low/ Complete	USDA-NRCS, OCPD, OCSCD, DEP/DWM	\$ 66,000	1). NJDOA utilized information provided by the NJDOA and other agencies, existing statistical data and land use inventory databases to identify potential sites. The NJ Forestry Services provided information (NRI data to assist in this effort. NRI data was used as the base for locating the livestock operations in the Metedeconk and Toms River sub-watersheds and provided necessary information to map these locations; 2) When specific discharges or improper animal waste water management practices were identified by either third party complaints or local governments, NJDEP actively investigated those sites; and, 3) NJDEP, as a function of its watershed management process, conducted stream surveys and investigations to identify potential discharges of wastes.
5.11	Sample and analyze water to evaluate fertilizer and pesticide residues introduced into surface water systems.	Medium/ Completed	Rutgers Cooperative Extension (RCE)	\$ 37,375	Water samples from waterways and/or super-fund site wells adjacent to a golf course and cranberry bog were tested on a regular basis to evaluate pesticide/fertilizer residues introduced into surface water systems. In 2001, Rutgers began work with the NJDEP Pesticide Bureau to identify and monitor problem areas in the Barnegat Bay watershed. There is a final report dated August 2000 regarding the golf course portion of this project. On April 22, 2003, a final presentation was given regarding the homeowner portion of this project. The project is completed.
***5.17	Acquire an additional sewage pumpout boat for Barnegat Bay & its major tributaries.	High/ Completed	New Jersey Clean Vessel Program (CVA), OCPD	\$ 57,000	The BBNEP sits on the NJ Clean Vessels Committee, which administers this program. Three vessels now operate covering Barnegat Bay from the mouth of the Point Pleasant Canal south to Beach Haven Inlet. Technical assistance and a 13-minute slide show of the Tice's Shoal pumpout boat will be provided to educate and encourage acquisition and use of additional pumpout boats in Barnegat Bay tidal waters. Ocean County contributed \$60,000 as annual partner with OCUA to operate program.
***5.18	Apply to the US Environmental Protection Agency for Federal designation of	High/ Completed	New Jersey Marine Sciences Consortium,	\$ 15,000	In 2002, The NJ Sea Grant has gathered the necessary information for an application that NJDEP has submitted to the USEPA on behalf of the citizens in the Barnegat Bay watershed. The approved application has been placed in the Federal Register for a 90 day public review period. Ocean County coordinated with vo-tech

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	Barnegat Bay as a No Discharge Zone.		OCPD		school boat survey and prepared report. In 2003, the NDZ was approved. Ongoing NJCVA Steering Committee coordination efforts with the USEPA, other states United States General Accounting Office to examine future funding and/or program needs for enforcing no discharge zones. The BBNEP was the coordinating body for this successful effort.
5.5	Encourage native species landscaping to minimize water use and fertilizer and pesticide application.	<b>Medium/ Complete</b>	US Department of Agriculture (USDA)-NRCS	Base Programs	The agencies will utilize their authorized programs to provide technical materials, guidance, and assistance to the regulated community. Reported as Completed in FFY06 GPRA Report.
5.6	Develop a financial incentives mechanism, "Water Quality Rebate," for implementing Best Management Practices on non-federal, non-agricultural lands.	<b>Medium/No Action</b>	Ocean County Soil Conservation District (OCSCD)	\$ 75,000	A list of recommended BMPs will be developed based on data from the NRI (Action Item 5.2) and available technical references. The OCSCD will make site visits to develop specific BMP plans for each owner, and follow up with visits to ensure the BMPs have been implemented prior to paying the "rebate." Grant money will be needed to fund the start-up of the program. Rebates would be available only to individual citizens, public or private entities such as municipalities or golf courses who have completed the Healthy Soil/Healthy watershed (HSHW) program (see related Action Item 7.7) and who choose to implement BMPs on areas they manage. Ultimately, it is hoped that utility authorities and other entities that benefit from the BMPs through reduced costs will fund the program.
5.8	Promote existing technical and financial assistance programs to implement soil management practices on agricultural lands.	<b>Medium/No Action</b>	USDA-NRCS, OCPD and OCSCD	\$ 20,000	Informational mailings on soil compaction and nutrient runoff will be sent to farmland-assessed properties. The Forestry Service will assist by providing mailing lists of properties assessed as farmlands in Barnegat Bay counties and by providing staff time and postage for distribution of the mailings should funding be available. If justified by the NRI data priority area funding under the Environmental Quality Incentives Program or a Land Treatment Watershed project for the implementation of on-farm conservation practices will be pursued. Practice selection will be based on the Soil Management Systems technical standard. OCADB w/preserved farms and amer. Farm trust.
5.12	Continue publication of "Pesticides for NJ" to include site-specific recommendations for	<b>Medium/No Action</b>	Rutgers Cooperative Extension (RCE)	\$ 1,000	The choice of a fertilizer or pesticide formulation is a function of a number of factors: availability, habit, price, practicality, and knowledge. It is critical that decision makers have access to the information needed to understand the relationship between site and product. Attempts at regulation that address rates without

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	the use of pesticides on golf courses & public lands.				recognizing the benefits of formulation modifications can be counterproductive.
5.13	Promote <i>Home *A*Syst for the Barnegat Bay Watershed</i> (RCE, 1998) through widespread distribution.	Medium/No Action	Rutgers Cooperative Extension (RCE)	\$ 7,000	H*A*S is an environmental risk assessment guide for the home and residential property. The guide conveys useful information about the basics of hydrology, watersheds, and groundwater for the individual homeowner. It also includes site assessment worksheets that landowners can use to increase their understanding of water pollution risks that are unique to their property. Collectively, the document builds a community's capacity for proper environmental management of water resources. Circulating this document at public outreach events will help draw in the public as active participants in reducing hazardous waste.
5.14	Periodically examine technical and permit data on small point source discharge permit holders in order to promote and maintain an understanding of their relationship to the overall ecological health of the bay.	Medium/No Action	Barnegat Bay Estuary Program (STAC)	\$ 1,500	A technical group will assemble on an <i>ad hoc</i> basis to examine environmental reports completed by the permittees on small point-source discharge permit holders by industry, government, and independent sources to identify trends in estuary or watershed conditions that correlate with point-source discharges, to identify related issues that need to be addressed by the BBEP, and to ensure efficient coordination with other Estuary Program activities.
***5.1	Development of Total Maximum Daily Loads (TMDLs) for areas listed on the 303 (d) list of impaired waterbodies.	High/Ongoing TMDL's for specific Segments/Lakes	NJ Department of Environmental Protection (NJDEP)	\$ 300,000	In March 2000, the BBNEP began to facilitate this effort in conjunction with NJDEP. The streams identified as potentially impaired are located within the Pine Barrens and are naturally acidic with a high dissolved mineral content. These waters support a highly adapted fauna and flora that are unique to the Pine Barrens, of which many species are listed as rare and endangered; yet, because water quality readings of these waters may fall outside the acceptable limits of a typical freshwater system, they may be mistakenly labeled as "impaired." Therefore, the stream data need to be re-examined and compared to other typical Pine Barren streams to determine impairment. If it is determined that these water bodies are, in fact, impaired, the state can begin the process of TMDL development. Ongoing TMDL's for specific stream segments of the Toms and Metedeconk Rivers for fecal coliform and TMDL's for eutrophic conditions in Lake Pohatcong (Tuckerton) and

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					Lake Carasaljo (Lakewood). These two lakes are undergoing feasibility studies using 319(h) grants from NJDEP.
***5.2	Complete a high-intensity Natural Resources Inventory (NRI) to identify pollution sources from land use information and site conditions.	High/Ongoing	OCSCD, USFWS, USDA-NRCS, OCPD and Ocean County municipalities	\$ 375,000	The nationally recognized NRCS NRI method will determine the location of specific NPS-impacted sub-watersheds and/or number of primary sampling units (PSUs) needed for statistically significant resource information. At the recommendation of the BBNEP, OCPD has allocated \$30,000 to OCC for on campus experimental watershed project which began in 2004. The Long Swamp Creek Feasibility Study, funded by NJDEP 319(h) for approximately \$175,000 was completed. Nonpoint sources of pollution were identified.
5.3	Retrofit retention or detention basins, and retrofit stormwater basins to increase infiltration and recharge of rainfall runoff.	Med/Ongoing	NJDEP, Division of Watershed Management, OCPD and OCSCD	\$ 200,000	The NJDEP has provided \$200,000 for construction of basin retrofits in the Barnegat Bay watershed. The BBNEP facilitated the mitigation of the basin retro-fit project. Partners also include the OCPD, OCED, NRCS, USGS, OCSCD and the USEPA Urban Stormwater Bureau (Edison) in March, 2002. Stormwater basins will be retrofitted to improve water quality by: improving the settling capacity of the basin, adding vegetation to improve pollutant uptake, adding BMPs (such as settling chambers or sand filters) into the stormwater collection system to reduce the loading on the basin, reducing the amount of impervious area contributing runoff to the system, or any combination thereof. The OCPD will use its GIS stormwater facility database to assist in targeting basins for retrofitting, based on their ability to enhance groundwater recharge and improve water quality. Ocean County is providing labor and equipment at no cost. Seven basins have been completed in Manchester (3 basins) and Dover (4 basins). One basin has been restored in the Kettle Creek watershed. The two other basins are adjacent to the Toms River and Long Swamp Creek watersheds. Two additional basins are nearing completion in Dover and Manchester and will be finished when the weather improves. 2006- OCSCD continues to work with OCPD and OCED to retrofit storm water basins. In addition, the OCSCD is currently working with 4 schools (through the OCPD) to retrofit their basins and create Rain Gardens/Outdoor Classrooms. (See related A.I. #8.10) This is a five year grant expected to conclude in 2007.
***5.4	Implement Phase II Municipal Stormwater Rules in the Barnegat Bay Watershed.	High/Ongoing in 2004	NJ Department of Environmental Protection,	Base Programs	Municipalities are currently being identified and will be required to implement six minimum control measures, as embodied in the statewide program, including: Local public education & outreach; Public involvement and participation; Improper disposal of waste; Floatables & solids control; Pollution prevention/good

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			OCPD, BBNEP, Envir. Joint Ins. Fund		housekeeping for municipal operations; and Post-construction stormwater management in new development and redevelopment to be addressed through the required Stormwater Management Plan and a Stormwater Control Ordinance. Ocean County has provided \$187,000 to fund PMK Group and roundtable meetings offered to all municipalities affected. The BBNEP has provided \$93,000, and NJDEP will provided \$12,000/per municipality toward this project. Conducted stormwater roundtables and seminars in conjunction with the NJDEP DWM/NJPDES programs through the JCNERR
5.7	Institute the Nonpoint Education for Municipal Officials (NEMO) program within the Barnegat Bay watershed.	Medium/ Completed	Rutgers Cooperative Extension (RCE), OCPD	\$ 65,000	The first component of NEMO, a Barnegat Bay Buildout Analysis was completed by Rutgers University in 2001. The NEMO program uses several delivery methods including a slide presentation that includes local photographs, educational materials, images from GIS, and a video on NPS pollution entitled "Luck Isn't Enough." NEMO also uses the World Wide Web as an information and educational tool. Employing all these tools, NEMO spells out the problem, shows the cumulative effects, and demonstrates potential solutions and results. Ocean County has provided \$15,000 in GIS services. In Jan. 2003, RCE was awarded \$5,000. This was for a demo. project which covered 5 municipalities. Ocean County has dedicated \$30,000 to complete the programs in the rest of the municipalities. The initial Action Item was completed in 2004.
5.10	Develop a management strategy to reduce the congregation of Canada Geese populations in urban areas.	Medium/ Ongoing	Ocean County Health Department (OCHD)	Base Programs	In 2002, the OCHD and the BBEP began developing a strategy to manage Canada Geese congregations with a pilot project at pond in Ocean County College. Eleven management measures to discourage geese from congregating in urban areas are presented in the CCMP. Other effective measures will be considered, as they evolve, for the most appropriate technique(s) in the Barnegat Bay Watershed. In 2004, OCC has provided the location for an "Experimental Watershed" project funded by Ocean County, \$30,000, including a community Canada Geese management proto-type project, through the "Geese Peace" initiative.
5.15	Periodically examine technical and permit data on the Oyster Creek Nuclear Generating Station in order to promote and maintain an	Medium/ Ongoing	Barnegat Bay Estuary Program (STAC)	\$ 2,500	In October 2005, the Nuclear Regulatory Commission examined environmental reports completed on the OCNCS by industry, government, and independent sources to identify trends in estuary or watershed conditions that correlate with OCNCS operations, to identify related issues that need to be addressed by the OCNCS, and to ensure efficient coordination with BBEP activities. In 2/04, \$75,000 was allocated to the BBNEP for monitoring and purchasing of 2 data loggers. In 2006, Oyster Creek Generating Station will stock BB with 60,000 striped bass.

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	understanding of its relationship to the overall ecological health of the bay.				An initial 50,000 fingerlings will be released in late June and 10,000 larger fish will be released in mid-August.
***5.16	Eliminate the discharge of boat sewage into the bay by promoting the use of sewage pumpout facilities.	High/Ongoing with the NJCVA Steering Committee Work	New Jersey Clean Vessel Program (CVA), OCPD	Base Programs	The BBNEP sits on the NJ Clean Vessels Committee which administers this program. As of April 2006, approximately 70 pumpout stations have gone on-line in marinas throughout Barnegat Bay. In conjunction with the National Clean Boating Campaign, the BBEP has developed and distributed the following information, in the form of a "Barnegat Bay Boater Fact Sheet," to owners of boats, marinas and other appropriate facilities and venues including: NJ Clean Vessel Program; National Clean Boating Campaign website. OCPD provided in-kind services through CVA in 2003-4. Completed interactive internet boat directory for entire state including the Barnegat Bay watershed and funded several additional pump out facilities since the approval of the CCMP.
***5.19	Develop a "Clean Marinas" program to assist marina owners & managers to use their facilities in a manner that employs Best Management Practices (BMPs) to the maximum extent.	High/ Completed	Marine Trades Association of NJ (MTA/NJ), OCPD	\$ 10,000	The BBNEP sits on the Clean Marinas Committee, which administers this program. The BBEP has been working with the marina and boating industries to develop a Barnegat Bay "Clean Marinas" program for new and existing marinas, including developing an award program to designate facilities showing substantial progress on implementing Best Management Practices as "Clean Marina." Designated marinas are now implementing pollution prevention measures addressing the siting, design and/or operation of the facility, and shall address both point and NPS of pollution. The NJ Marines Trades Association, in cooperation with NJDEP, is providing technical guidance. New and expanding marinas and boat yards are subject to stormwater permitting requirements implemented through the NJPDES permit program, including implementation of pollution prevention measures. Since marinas are located at the waters edge, assistance will be given to helping all marinas comply with permitting requirements. CVA participation. Ocean County funded initial \$10,000 for MTA. OCC plans to develop a model Clean Marina within the next two years. NJDEP provided \$65,601 319(h) grant to MTA for a demonstration project and BMP workshop MTA for marinas. Workshop held October 2003, project is nearing successful completion. In early 2005, a statewide program is about to be finalized. MTA will also be hosting the first workshop at their Annual Conference in March 2005. Reported as "complete in FFY07 GPRA.
***5.20	Establish a	High/Ongoing	NJDEP,	\$ 500,000	The BBEP continues to provide the forum for discussion with NJDEP/DWM and its

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	comprehensive water supply plan for the Barnegat Bay watershed that will guide water supply development, use, and reuse through the year 2040 and, to the maximum extent possible, maintain the natural hydrology of the watershed.	DWM Management/ Water Supply staff	Division of Watershed Management, OCPD and OCSCD		partners. A plan will be completed that is accepted by all parties and provides for definite measures to ensure a sustainable water supply for the population and the ecology of the bay and watershed.
***5.21	Develop a workplan and institute controls for management of water demand/water conservation.	High/Ongoing	NJDEP, Division of Watershed Management, OCPD and OCSCD	\$ 125,000	Convene all responsible agencies to discuss and carry out the following detailed steps that are summarized as follows: 1) Evaluate the Opportunities for Water Supply Interconnections between Adjacent Public Supply Systems; 2) Assessment of Irrigation Systems in the Barnegat Bay Watershed; 3) Develop Public Service Announcements (PSAs) for Water Conservation, Water Demand Management, and Drought Awareness; and, 4) Evaluate the Potential to Reinstate Conjunctive Use of the Potomac-Raritan-Magothy Aquifer System in the Barnegat Bay Watershed During Periods of Drought. In 2005, the NJDEP/DWM initiated workplan development and is coordinating with the BBNEP.
***5.22	Integrate existing shallow groundwater protection programs.	High/Ongoing	NJDEP, Division of Watershed Management	Base Programs	Specific steps for integrating groundwater programs will be developed by cooperating parties, and a plan to protect groundwater supplies developed by linking the following efforts. The data collected will be entered into the NJDEP GIS. Additional steps may be identified in conjunction with results of ongoing groundwater protection efforts. The three major efforts are summarized as follows: 1. Integrate Results of Ongoing Studies; 2. Integrate Results of the Source Water Assessment Program; and, 3. Coordinate Protection Programs. Toms River, Metedeconk studies and Southwest New Jersey Water Supply studies and projects are ongoing. More internal DEP/DWM discussion is taking place in 2006 and 2007.
5.23	Establish a network of three weather stations in the watershed tied to the South Jersey	Low/Ongoing	South Jersey Resource Conservation & Development	\$ 6,750	South Jersey RCD has a process in place for locating and establishing weather stations once funding is secured. An education and outreach plan for each user group (farmers, suburban homeowners, corporate campuses, golf courses) would promote the concept and benefits of irrigation scheduling. Data collected by this

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	Resource Conservation & Development RISE network.		(SJRC), OCPD		network can be made available to the public at no additional cost. Agreement executed between Ocean County and Rutgers University Climatology at Airpark. OCPD is providing location.
5.24	Establish a demonstration project for wastewater reuse, which will be discharged back to the watershed, and which alleviates the need for potable water for irrigation of lawns, golf courses, or other public areas.	Medium/ Ongoing	Ocean County Utilities Authority (OCUA), OCPD	Base Programs	OCUA is currently using an outside consultant to perform a feasibility study (at a cost of \$90,000) to assess the demand for reclaimed water and the economics of same. This study was started in 2003. The next step after the feasibility study is the demonstration project. An Initial Proposal was sent to EPA for a Grant to conduct the demonstration project, but was denied in 2005. A future the Demonstration Project would be dependent upon sufficient demand for reclaimed water as well as support from the governing bodies and the environmental community within Ocean County in 2006 and 2007.
***5.25	Assist municipalities in their involvement in the NJ Department of Environmental Protection Shellfish Waters & Bathing Beaches protection strategies for the Barnegat Bay watershed.	High/Ongoing	Dover Township, Borough of Seaside Heights, NJDEP, Barnegat Bay Estuary Program (BBEP)	\$ 500,000	The Implementation of nonpoint source pollution controls are being funded in the Long Swamp Creek and Silver Bay and coordinated by the BBNEP and the NJDEP through its watershed management program. Integral components of this shellfish and recreational bathing beach water quality management plan include: 1. Point Sources Controls; 2. Malfunctioning Septic Systems; and, 3. Stormwater Runoff Management. In 2004, OCUA completed a proposal for a demonstration project. In 2004, the BBNEP is working with NJDEP's Shellfish Program on NPS controls, and the BBNEP is assisting municipalities in implementing Phase 2 stormwater management and nonpoint source controls. Completed the Long Swamp Creek 319(h) feasibility study and an initial implementation project in the lower portion of the watershed and also designated Long Swamp Creek the priority stream segment in the watershed. The intent is to fund additional implementation projects using CBT or 319(h) funds to improve water quality. In addition, the Department also plans to undertake additional source trackdown sampling in the lower reaches of the segment as recommended in the plan. In 2005, the Silver Bay NPS Control Project was completed.
6.6	Implement more effective enforcement of current regulations regarding sensitive	<b>Medium/No Action</b>	State & federal Enforcement Authorities	\$ 50,000	Improved enforcement and focused public education with regard to illegal trespassing at sensitive sites in the bay are important parts of this effort. A follow-up commitment by enforcement authorities to reduce human disturbance to these habitats will also be necessary. "The Boater's Guide to Barnegat Bay and Little Egg

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	coastal habitats.				Harbor" serves as a public education tool for this action.
6.7	Coordinate and integrate management of federal lands for natural habitat values.	Medium/No Action	US Department of Defense (USDOD)	\$ 50,000	The Mid-Atlantic Federal Partners for the Environment (MAPFE), which include each of the participating agencies in this action, would oversee an effort by resource managers from their agencies to develop a memorandum of agreement or other appropriate vehicle establishing the cooperative management of federal public lands for the protection of natural habitat and resource values within agency mandates. Opportunities to cooperate with state and local land managers should be explored.
6.10	Assess the effectiveness of CAFRA II regulations within the Barnegat Bay Coastal Zone Boundary	Low/No Action	NJDEP, Division of Watershed Management	Base Programs	Through administration of the newly revised regulatory program, NJDEP will be making incremental improvements to the protection of coastal resources. According to standard procedures for Department rules, NJDEP will assess the success of limiting the growth in development in the coastal zone, concentrating new development and redevelopment in existing development centers, and restricting the increase in impervious cover in the coastal watershed.
***6.1	Protect & improve vegetated buffer zones adjacent to coastal wetlands & freshwater tributaries to maintain continuous riparian corridors, for habitat protection & low-impact recreational pursuits.	High/Ongoing	NJ Department of Environmental Protection (NJDEP), OCPD	\$ 37,500	<ul style="list-style-type: none"> <li>• Ocean County working with Metedeconk Stewardship Program and Pinelands TR Corridor Study. Properties acquired by NLTF.</li> <li>• Completion in 2004 of the Toms River Corridor Protection Plan with the Pinelands Commission and local administrative authorities (e.g., Brick Twp).</li> <li>• Rich Lathrop is conducting a study titled, "GIS Tool for Riparian Zone Health Study" in the Barnegat Bay which is scheduled to be completed in early 2007.</li> </ul>
***6.2	Conduct a Barnegat Bay ecosystem restoration feasibility study.	High/Ongoing in 2004	US Army Corps of Engineers (USACE) and New Jersey Department of Environmental Protection (NJDEP)	\$ 2,500,000	The BBNEP initiated this study. Two fish ladders were designed for Lake Pohatcong and Manahawkin Lake and a dredged hole in Harvey Cedars was restored in the winter of 2004. Additional restoration sites were also investigated and a draft report completed in October 2003. NJDEP was the non-federal sponsor. In Federal Fiscal Year 2005 (Oct. 1, 04 – Sep. 30, 06) the U.S. Army Corps of Engineers (USACE) spent \$1,337,230 of federal funds on the restoration of dredged hole #6. USACE also spent \$450,322 of state (NJDEP) funds during the same time period on the same project. At this point (August 2005), the Barnegat Bay Feasibility Study cannot move forward without identification of additional non-federal funding sources.

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6.3	Control erosion in threatened shoreline areas.	Low/Ongoing	New Jersey Department of Environmental Protection (NJDEP), OCPD	\$ 75,000	Ocean County received grant for \$100,000 from NJDEP for Roberts Ave. Marsh in 2003-2004 for a shoreline stabilization project. Save Barnegat Bay and
6.4	Manage tidal wetlands to preserve unditched wetlands & to rehabilitate wetlands that have been ditched or otherwise altered.	Low/Ongoing	US Fish & Wildlife Service (USFWS), OCPD	\$ 15,000	In 2003, Open Marsh Water Management (OMWM), constructed and restored/reconditioned at the Barnegat Division of the Edwin B. Forsythe National Wildlife Refuge, 72 acres constructed and 51 acres reconditioned.
6.5	Maintain intact large blocks of Pinelands habitat within state parks & forests & other publicly owned lands.	Medium/Ongoing	NJ Department of Environmental Protection (NJDEP), OCPD	\$ 25,000	Much of the information required to identify and manage such large tracts within portions of Ocean County for native forest types and rare species is now available or is under development by staff of the ONLM. Detailed mapping of all vegetation has been completed in the Barnegat Bay watershed south of Cedar Creek. More mapping work is needed northward to the Toms River. Extensive fieldwork has been used to separate pine plains, pitch pine-shrub oak barrens, pine-oak woodland, and pine-oak/oak-pine forest types, each of which has different fire management needs. NLTF contiguous w/ State Lands in Pines is assisting with this Action Item. Needs discussion with Pinelands Commission and OCPD.
***6.8	Facilitate partnerships for habitat protection & restoration projects	High/Ongoing	NJDEP, OCNLT, NRCS, ONLM, TPL, OCPD	Base Programs	Projects funded under the NRCSW's Wildlife Habitat Incentives Program (WHIP) include limited-scale and demonstration projects for control of invasive plants in State Natural Areas, administered by the NJDEP, Division of Parks and Forestry. The ONLM is working with Island Beach State Park to control Asiatic sand sedge on the primary dunes of the Island Beach Southern Natural Area. In 2002 the OCNLT program has partnered on acquisitions annually totaling \$5,000,000. NLTF partnerships. Restoration of \$200,000 plus in-kind services from Ocean County. Ongoing SAV restoration and research project (\$152,000 319(h) grant) with Montclair State University nearing completion at selected locations throughout Barnegat Bay/Little Egg Harbor.
***6.9	Revise municipal master plans to	High/Ongoing Need	OCPD ,Local municipalities	\$ 100,000	During the master plan review process, municipalities are now relying on input from their environmental commissions (where applicable), the Coastal Decision Makers

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	encourage subwatershed planning to minimize impervious coverage & maintain natural habitat & landscape values	discussion w/ Municipalities Phase II Stormwater			Institute, Ocean County Environmental Health Agency, OCPD, Office of State Planning, and the NJPC (where applicable). Smart Growth and in-kind through multiple watershed efforts coordinated within Ocean County Government.
6.11	Identify and manage impaired sub-watersheds through local government cooperation to address water resource issues that cross municipal boundaries.	Medium/ Ongoing	US Environmental Protection Agency (USEPA), OCPD	\$ 50,000	In 2003-2004 Brick MUA, USEPA, TPL, OCPD and several municipalities initiated Metedeconk River Stewardship Partnership to protect the river and its drinking water resources. Program is ongoing. In 2004, NJ Governor McGreevey approved Category One status for the Metedeconk, elevating its level of protection against further measurable degradation. The most recent priority stream segment designation by the NJDEP was given to the Long Swamp Creek.
6.12	Develop a cooperative approach among the Pinelands Commission, state parks, state wildlife management areas, state forests, and other state agencies to coordinate watershed protection on state lands.	Medium/ Ongoing	NJ Department of Environmental Protection (NJDEP), OCPD	\$ 50,000	The BBNEP has helped to facilitate discussions between key stakeholders through its STAC Committee and Ocean County municipalities during the last 3 yrs. And through the DEP/OCC Landscape Project. Within their existing authorities, responsible state agencies are now cooperating to ensure the optimal protection of the natural resource values of these lands. For example, the NJDEP is implementing a plan for the long-term protection of rare species in New Jersey known as the Landscape Project. This effort focuses on the relationships between organisms and their environment, emphasizing the larger region, or landscape, in which these communities exist. This effort recognizes the current weaknesses in long-term preservation of rare species such as fragmentation of habitats and lack of coordinated land management among government agencies. In 2006, the BBNEP began working with the Division of Fish and Wildlife's Non-Game Program to provide data from the Landscape Project to identify areas for state protection. Recent NLTF properties within Pinelands TR Corridor Study, plus in-kind services for Study from Ocean County. Needs additional discussion between partners.
***7.1	Draft a Barnegat Bay personal watercraft (PWC) management strategy, thereby setting an example for	High/ Completed	PWC Task Force	\$ 10,000	The BBNEP initiated this action. In 2001, Island Beach State Park (Barnegat Bay Watershed) instituted the first ban on PWCs in New Jersey, through "Conservation Zoning." The Barnegat Bay Personal Watercraft Task Force (BBPWCTF) has been developing goals and objectives to create an action plan for PWC uses in Barnegat Bay and throughout the state. This group will draft a PWC management plan for

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	statewide policy.				Barnegat Bay based on scientific studies that have been done on the effects of PWC on shallow-water habitats and coastal nesting grounds for birds. The studies and models that have been compiled are local, national, and international. Members of the BBPWCTF have assessed international and national research on what other regions have done to incorporate conservation zoning and other PWC-related initiatives. These findings are incorporated into the draft statewide legislation that the group is developing. The IBSP Conservation Zone was re-authorized in 2003.
7.2	Promote the use of the "Boater's Guide to Barnegat Bay and Little Egg Harbor" to protect sensitive areas by mitigating boater impacts to water quality and natural resources.	Medium/ Completed	Rutgers Cooperative Extension (RCE) or Marine Trades Association of New Jersey (MTA/NJ), OCP D	\$ 20,000	The BBNEP arranged to partially fund the printing of this guide. Under the auspices of RCE/N.J. Sea Grant Extension Program, the Marine Trades Association of New Jersey Foundation has developed a "Boater's Guide to Barnegat Bay and Little Egg Harbor" modeled after a successful NEP project in Tampa Bay, FL. This users' guide is a two-sided waterproof map that is similar in size and design to a road map or marine chart. Funding from BBEP, NJDEP, and Ocean County has supported the production and a re-printing of the Boaters Guide in 2001. Free dissemination of the map will be made to marinas and boaters as well as to organizations such as Barnegat Bay Power Squadron, Coast Guard Auxiliary, boating courses, fishing and yacht clubs, boat shows, PWC classes, PWC dealers, pumpout boats, parks and recreation departments. Funding from Ocean County provided. Two printings have been completed and 47,000 copies disseminated. A 3rd edition is in production in 2004 and is expected to be released by June 2004. At the request of the BBNEP, Ocean County has allocated \$16,000 toward printing.
7.9	Construct an environmentally sensitive demonstration lawn for homeowners to use as a model for landscaping plans.	Medium/ Completed	Rutgers Cooperative Extension (RCE)	\$ 6,500	A demonstration lawn site will be planted to encourage replacement of Kentucky bluegrass lawns with low-input lawns. The demonstration site will include a variety of recommended turfgrass seed types/blends adapted to Barnegat Bay watershed soil conditions to withstand drought and low water use. Turfgrass will be planted according to existing research protocol. They will be sown side-by-side and maintained to serve as visual comparisons. The demonstration will be located in a highly visible site accessible to the public in one or more locations in the county. Educational information to accompany the demonstration site will include information on turfgrass selection, proper watering, proper fertilization, and Integrated Pest Management (IPM) methods for pest control. The site will be chosen to foster both guided and unguided tours. By early fall, 2000, 2 sites were planted with five different grass blends. During Oct. 2001, public education tours were given at each site and a fact sheet was made available. A follow-up

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					evaluation was conducted during Nov. 2002. The funding was provided by the BBNEP in 2000 in the amount of \$2,500. The project is completed.
7.6	Establish a Barnegat Bay Blue Card certification program on soil health, low-input landscapes, and balancing the water cycle.	<b>Low/ Complete</b>	Ocean County Soil Conservation District (OCSCD), OCPD	\$ 75,000	Representatives of NRCS, OCSCD, RCE, and OCPD will identify training needs and develop a core-training program. Following identification of training needs and in cooperation with OCVTS and the Ocean County College, staff from these entities would conduct Blue Card training seminars, offering continuing education credits for landscapers, builders, land-grading contractors, and personnel from public schools and parks departments. This will be a volunteer training program for those professionals who want to learn more about the significance of soil quality management and would like to receive certification. A Blue Card Training Program for Ocean County Parks employees was funded through the BBNEP's Minigrant Program in 2006 and also through the FFY2006 budget for STAC Projects. The STAC Project funding will go toward the second phase of the Blue Card Training Program targeted at engineers and township maintenance employees working in the Long Swamp Creek Watershed.
7.7	Use data & information from the Natural Resources Inventory (NRI) to promote the use of Best Management Practices (BMPs).	<b>Low/No Action</b>	Ocean County Soil Conservation District (OCSCD)	\$ 75,000	Local homeowners will receive assistance in establishing an environmentally friendly yard by meeting with the OCSCD at their home sites where they will review their current practices and resources. The OCSCD would then prepare a conservation plan for the property, recommending various soil and water conservation practices, emphasizing low-input lawn and garden care and reducing the footprint of impervious surfaces. Once the residents have implemented the conservation plan, OCSCD will re-visit the property to certify compliance with the plan's recommendations. When homeowners become certified they will be eligible to receive cost-sharing assistance for having implemented the conservation plan and a certificate from the OCSCD for participating in the program. See Action Item 5.6.
7.3	Follow-up the Municipal Outreach Project with continued production of "Community Connection" newsletter & with a community awards program.	Medium/ Ongoing	Barnegat Bay Watershed & Estuary Foundation (BBWEF)	\$ 10,000	<i>Education:</i> Continue production of "Community Connection" newsletter in coordination with JCNERR for use as an outreach and information-sharing tool among the municipalities of the watershed. <i>Community involvement:</i> Continue community recognition program for watershed-related projects administered by municipalities. This will become an annual awards program. The annual recognition program picks and recognizes one watershed-related project from one community per year within the Barnegat Bay watershed. This is part of an annual watershed event held in conjunction with the watershed

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					river cleanup. Four communities were recognized.
7.4	Use environmental commissions to foster the watershed approach	Medium/ Ongoing	BBEP, Ocean County Environmental Agency	Base Programs	Environmental commissions are currently included in the local and county government planning processes. The BBEP has created a stronger linkage to CCMP goals and objectives to assist environmental commissions and helping local governments better pursue sustainable development policies through membership on the OCEA. BBNEP is planning to disseminate surveys via the Ocean County Environmental Agency to collect input from the various municipal environmental agencies regarding environmental priorities specific to Barnegat Bay. Several partners of the BBNEP are appointed to the Ocean County Environmental Agency (OCEA) and will act as a liaison between BBNEP and the OCEA. A BBNEP representative will also be meeting with the OCEA to discuss the project. Survey design is scheduled to be completed by Summer 2006.
***7.5	Support the Barnegat Bay Watershed and Estuary Foundation (BBWEF) to protect Barnegat Bay and its watershed resources	High/Ongoing	Municipal and county governments, OCPD	\$ 55,000	In 2001, the Ocean County Board of Chosen Freeholders provided \$55,000 to develop a strategic plan for the BBWEF. Grants available through the BBEP public outreach program would fund qualified activities of the BBWEF that inform and empower the public to participate in the environmental protection of Barnegat Bay and its watershed. The BBWEF will serve as the non-profit arm of the Program, focusing on raising funds to carry out CCMP Action Items. During the past few years, the BBNEP provided over \$20,000 toward various projects undertaken by BBWEF.
7.8	Design and construct environmentally sensitive demonstration gardens in all municipalities.	Low/Ongoing	Rutgers Cooperative Research and Extension (RCE), OCPD	\$ 35,000	RCRE staff, OCSCD staff, consultants and/or Master Gardener volunteers have conducted instructional sessions at Ocean County College and other sites to reach as many residents as possible and promote low-input landscapes. Ocean County provided in-kind resources w/demo areas at County Recycling Ctrs.
7.10	Conduct shellfish resource survey of the bay to examine potential causes of stock decline and meat discoloration in hard	Medium/ Ongoing with partners	NJDEP, Division of Fish & Wildlife	\$ 190,000	In 2001, the NJDEP initiated the first of several shellfish resource surveys in southern Barnegat Bay. The survey is being carried out using Standard Operating Procedures previously established by NJDEP (Nacote Creek Research Lab). Additional funding is needed to complete the survey in the rest of Barnegat Bay. Ongoing but additional funds needed. Discussions with STAC and Financial Committee is ongoing to explore/examine other funding sources (such as NOAA,

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	shell clams and explore resource enhancement strategies so than an adequate supply of shellfish exists to reap the benefits of improved water quality resulting from Action Item 5.24 in the Water Quality/Water Supply Action Plan.				Division of Science and Research) for this and other related surveys needed to fill data gaps.
8.1	Post the Pinelands Curriculum Guide Lessons for Grades 4-6 & 7-8 on the World Wide Web.	Low/ Complete	Pinelands Commission	\$ 20,000	Posted at <a href="http://www.state.nj.us/pinelands/pinecur/index.htm">www.state.nj.us/pinelands/pinecur/index.htm</a> . Link can be found on the BBNEP website.
8.4	Conduct an annual Environmental Educators Roundtable.	Medium/ Complete	Barnegat Bay Environmental Educators Roundtable, OCPD	\$ 2,500	Awarded a 2004 BBNEP Mini-Grant to sponsor the 2005 Environmental Educators' Roundtable (the 9 <sup>th</sup> Annual) to provide training for teachers, promote the use of the Discovering Barnegat Bay Activity Guide, facilitate the sharing of resource information and ideas, and provide hands-on opportunities that can be carried back to the classroom. This will be the last year that the BBNEP funds this project.
8.6	Develop the Forest Resource Education Center (FREC) as a resource and interpretive center that promotes an understanding of the human & resource connections & a stewardship ethic among students, scouts, & the general public.	Medium/ Complete	NJDEP, Division of Parks & Forestry. State Forest Service, OCPD	\$ 20,000	The FREC has the unique opportunity to model positive land-use practices that can be implemented by homeowners in an "up-watershed" location. The FREC is striving to be a model for land-use practices that communities, residents, visitors, and landowners can learn about and later implement at home. The NJDEP Division of Parks and Forestry has committed to distributing BBNEP's watershed outreach materials and will provide agency facilities (i.e., FREC) for joint presentations. Parks and Forestry has also agreed to incorporate educational materials about watersheds into their presentations. Ocean County assisted in mapping. Awarded a 2004 BBNEP Mini-Grant to design and install a "Watershed-Friendly" demonstration garden and outdoor learning station utilizing native plantings that benefit wildlife, prevent runoff and erosion, and promote best management practices.

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***8.8	Develop a Barnegat Bay watershed-specific activity guide.	High/ Complete	Barnegat Bay Environmental Educators Roundtable Steering Committee (OCSCD), OCPD	\$ 60,000	Discovering Barnegat Bay Activity Guide was completed for the 2003/2004 school year. Ongoing implementation workshops continue. 2006- The OCSCD has a current agreement for \$7,500 with the BBNEP for Discovering BB implementation. This agreement is scheduled to expire in June 2006. OCSCD plans to seek further funding to continue implementation of this A.I. Recently, OCSCD presented DBB as an in-service to Stafford Twp teachers and conducted 2 workshops in December 2005.
8.12	Create a Barnegat Bay-specific Educational Guide outlining the natural and cultural ecotourism opportunities in Central New Jersey, with an emphasis on the Barnegat Bay watershed region.	Low/ Complete	NJ Marine Sciences Consortium (NJMSC)	\$ 20,000	The "Ecotourism Guide for Central New Jersey" focusing on the Barnegat Bay watershed, contains a detailed map and pertinent and useful information about ecotourism, including selected "showcase" natural and cultural sites, activities, and events within the Barnegat Bay watershed. It directs users to the bounty of attractions in this region and is developed on a temporal and spatial scale that promotes one-day trips, weekend trips, and potentially longer ecotourism vacations.
***8.14	Provide interpretive exhibits, programs, & activities focusing on the historical human uses of the environmental resources within the Barnegat Bay watershed.	<b>High/ Complete</b>	Barnegat Bay Decoy & Baymen's Museum (BBDBM)	\$ 1,290,000	The Barnegat Bay Decoy and Baymen's Museum (BBDBM) has established the Tuckerton Seaport, and is using existing historical buildings or building replicas of once-existing structures from towns along the bay to provide exhibits and interpretive programs for a significant number of the traditional folkways of the Barnegat Bay region. Traditional resource-based occupations of the Baymen and their families that will be interpreted include: shellfishing, waterfowling, boat building, decoy carving, salt hay and eelgrass industries, whaling charter boat fishing, baymen's tools, lighthouse and lifesaving, harvesting and milling cedar and other forest products, and trapping and hunting. Baymen's preservation of the bay culture through festivals, including programs enhanced by crafting, writing, poetry, music, recipes and social activities, will also be featured.
8.16	Revise and reprint the "Low-Maintenance Landscaping Homeowners' Guide."	Medium/ Complete	Ocean County Soil Conservation District (OCSCD) and	\$ 35,000	The guide will be revised and reprinted approximately every three years. Appendices, in particular, must be periodically updated to provide the most up-to-date information available. Ocean County provided \$20,000 toward project. The "Low-Maintenance Landscaping Homeowners Guide" will be available on the BBNEP and other websites.

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			Rutgers Cooperative Extension (RCE), OCPD		2006-OCSCD completed this A.I. in 2005. The guidebook is being distributed at various locations throughout OC. It is also available via their website at <a href="http://www.ocscd.org">www.ocscd.org</a> . Additional funding will be sought to reprint when the current supply (10,000) is depleted.
8.11	Establish a Bay Keeper Program as a public watchdog for the protection of Barnegat Bay.	Low/Ongoing	Water Keeper Program	\$ 60,000	Public interest within the watershed and active support by the BBWEF will determine the viability of establishing a "Bay-Keeper" Program within Barnegat Bay. Reported as "initiated" in FFY07 GPRA because of developments with BBNEP's relationship with the non-profit, Save Barnegat Bay.
8.17	Educate professional landscapers, municipal grounds personnel, and facility managers on more efficient and environmentally sensitive use of pesticides.	Medium/No Action	Rutgers Cooperative Extension (RCE)	\$ 25,000	A brief, biweekly newsletter will be offered at no charge (or minimal charge) to encourage use and adoption of IPM techniques. It will alert all watershed landscapers of currently active pests and the proper IPM treatment and timing. Pesticide recommendations will [be in] conjunction with RCE and label recommendations. The newsletter will be available by mail or fax (and possibly by posting on a Web site in the future). The newsletter could also be modified for garden centers, utilizing recommendations appropriate for their home gardener audiences. Likewise, this version of the newsletter could be sent to homeowner associations for printing in their association newspapers and newsletters. An annual landscape IPM maintenance symposium will be held for watershed landscapers to increase knowledge in IPM methods. Reported as "complete" in FFY07 GPRA.
8.19	Incorporate Barnegat Bay Estuary Program outreach & education displays & programs at the Environmental Learning Center (ELC) of Ocean County.	Low/No Action	Ocean County Vo-Tech School Environmental Learning Center of Ocean County (ELC)	\$ 40,000	The Environmental Learning Center (ELC) will establish a Barnegat Bay Estuary display that will reflect the major aspects of the BBEP. The target audience will include all visitors of the ELC. The following will be included in the display: a brief chronology of the BBEP; key agencies, professionals, and personnel; main goals of the program; and, suggestions for people to become more estuary and watershed friendly. The planning and building of the ELC has been terminated. In 2004, the Ocean County Vo-Tech School made plans to relocate their facilities at Ocean County College's Southern Education Center in Manahawkin. BBNEP display is now being planned for the new Vo-Tech location in Manahawkin.
8.2	Conduct two, two-day summer teacher	Medium/Ongoing	Ocean County Vocational-	\$ 5,100	In 2001, one workshop of two days duration was held for Ocean County teachers. Received a 2004 BBNEP Mini Grant to conduct a Barnegat Bay Watershed Teacher

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	workshops through the Ocean County Vocational-Technical School (OCVTS) that focus on the Barnegat Bay Estuary and watershed.		Technical School (OCVTS)		Researcher program to provide an in-depth, hands-on educational experience for educators within the Barnegat Bay watershed integrating scientific investigation directly into curriculum.
8.3	Revise & reprint the Barnegat Bay Watershed Educational Resource Guide.	Medium/ Complete	Barnegat Bay Environmental Education Roundtable	\$ 5,000	The OCSCD continues to distribute the older printed version & it is included in the Discovering BB Treasure Chest. The updated version (scheduled to be completed Spring '06) will be available online at <a href="http://www.bbep.org">www.bbep.org</a> and will include links to all BB Environmental Educators Roundtable Steering Committee members' websites, and all groups and agencies in the directory. Reported as "complete" in FFY07 GPRA.
***8.5	Support the <i>Sea Grasses for Classes</i> Project-Institute of Marine & Coastal Sciences (IMCS), Rutgers University.	High/Ongoing	Rutgers University Institute of Marine & Coastal Sciences (IMCS)	\$ 55,000	The scientific community has a responsibility to reinforce teachers and assist schools in seeking outside funding for science education reform. IMCS has begun making its faculty and staff resources and advanced technology available to educators and their students through this program. There are currently approximately 12,000 school children participating in the Marine Activities Resources and Education (MARE) program.
8.7	Develop a Barnegat Bay Watershed Education Campaign, to be implemented in elementary schools via a mascot, "Barnie the Crab."	Medium/ Ongoing	Barnegat Bay Watershed & Estuary Foundation (BBWEF)	\$ 60,000	Develop a program featuring an educator in a "Barnie the Crab" costume who will conduct presentations in individual classrooms at all elementary schools in the watershed. Lesson plans and grade-specific handouts have been developed which are compatible with New Jersey state Core Curriculum Standards. The content of these materials focuses on building awareness and appreciation for the watershed's natural resources. The "Barnie the Crab" costume will build on the existing signage program sponsored by the BBWEF. During the summer, a college student intern would utilize the costume and educational materials to expand the program to public beaches and boardwalk.
8.9	Continue the Alliance for a Living Ocean (ALO) Ecotour of a Barrier Island for schoolchildren and the	Medium/ Ongoing	Alliance for a Living Ocean (ALO)	\$ 5,000	The ALO school trips are held on a reservation basis and are tailored to the grade level of the students, as well as the time constraints of the school. Each ecotour stops at points of environmental interest along the entire length of Long Beach Island. Some of the topics discussed are water quality and water monitoring, dune preservation, indigenous species, non-point source pollution, beach debris, and

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	general public.				estuarine preservation. Many schools require their students to write papers or do a project about something learned on the ecotour. Awarded a 2004 BBNEP Mini-Grant for these activities.
8.10	Promote the development & use of outdoor classrooms.	Medium/ Ongoing	Ocean County Soil Conservation District (OCSCD), OCPD	\$ 5,000	<p>The New Jersey Forestry Service is an active participant in Project Learning Tree, and has agreed to provide information about the Barnegat Bay watershed as part of this project. Financial assistance will be provided through a competitive mini-grant program for local schools. Ocean County provided \$3,000 toward project. Funded by the FY04 BBNEP Federal Grant. In 9/04, the Barnegat Bay National Estuary Program joined the Ocean County Board of Chosen Freeholders, the OCVTS, and the Ocean County Department of Parks to launch the new 38-foot "Baycruiser" that will be used for educational purposes from April to October. The Education Boat cost approx. \$40,000 and was a donation from the County.</p> <p>2006- OCSCD completed an agreement with BBNEP in 2005 for Outdoor Classrooms that included support of an exemplary training program for teachers utilizing Project Based Learning and Rutgers Center for Effective Schools. OCSCD currently has a grant with the OCPD for 4 Rain Gardens which includes extensive plantings of the schools' basins, as well as educational materials, picnic tables for students, a teacher's podium for instruction, bird houses, and numerous other resources for the project.</p> <p>Additionally, OCSCD has an agreement with NRCS to fund 10 more Outdoor Classrooms over the next 2 years. They have a goal of 50 sites by 2009.</p>
8.13	Establish at least one waterway cleanup per year within the Barnegat Bay watershed.	Medium/ Complete	Marine Trades Association of NJ (MTA/NJ) with Barnegat Bay Watershed & Estuary Foundation (BBWEF), OCC WaterWatch	\$ 10,000	In 2002 this action was coordinated with the ALO Volunteer Barnegat Bay monitoring program. The cleanups handle debris and litter. Funded by the Ocean County Planning Department. Three cleanups were held by OCC Water Watch in 2004 along the Long Swamp Creek in Toms River and on the beach in Seaside Heights. Cleanups were continued by OCC Water Watch in 2005 and 2006. An average, OCC Water Watch organizes 3 clean-ups per year on locations along the Long Swamp Creek, local beaches during Clean Ocean Action's Beach Sweeps event, as well as cleanups on OCC campus. OCC Water Watch does not seek funding from the BBNEP for these cleanups. The BBWEF held a cleanup in River Wood Park on 7/30/05 as part of a grant they received from the Watershed Institute, and again in the summer of 2007. Reported as "complete" in FFY07 GPRA.
<b>***8.15</b>	Provide education &	High/Complete	Jacques	\$ 893,000	A number of outreach tools are being used to effectively reach all segments of the

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	technical training to local government officials & other coastal decision makers in the Barnegat Bay watershed.		Cousteau National Estuarine Research Reserve (JCNERR)		diverse audience. A new Coastal Institute is providing a training center for local governments. The Coastal Institute will house a Coastal Repository that is funded through an Action Plan Demonstration Plan (APDP) grant from the BBEP. This repository provides local governments with access to geographic information system (GIS) spatial information on the Barnegat Bay and Mullica River watersheds. It also serves as a clearinghouse for model environmental ordinances, watershed planning strategies, protective site design principals, and best management practices. A number of workshops are being planned to disseminate this information. A minimum of three coastal decision-maker workshops will be held per year. Various Stormwater Roundtables have been held during 2004. The BBNEP is working with Rutgers University and Ocean County College to develop municipal training programs in 2005 related to the Phase 2 stormwater management regulations. NOAA's Coastal Training Program is firmly established in the watershed and is filling this need successfully. Reported as "complete" in FFY07 GPRA.
8.18	Promote the use of IPM methods.	Medium/ Ongoing	Rutgers Cooperative Extension (RCE)	\$ 26,500	Pest identification (prior to any control tactic) and IPM maintenance methods is being stressed. Program volunteers receive a ten-week class covering plant biology, plant selection and identification, insects and diseases (both indoors and outdoors), vegetable gardening, lawn care, etc.
8.20	Experience Barnegat Bay, a project of YES	Medium/ Ongoing	Youth Environmental Society (YES)	\$ 150,000	The Youth Environmental Society (now known as the Natural Resource Education Foundation of NJ) plans to lease the property and facility from NJDEP Division of Fish and Wildlife and offer a variety of educational opportunities focusing on the Barnegat Bay watershed and estuarine ecosystems. Start-up work has been implemented on planning. Awarded a 2004 BBNEP Mini-Grant to refurbish and enhance existing overgrown and unmarked trails and pathways, install learning stations and interpretive signage, and improve ADA accessibility at the Lighthouse Center in Waretown, NJ. Reported as "complete" in FFY07 GPRA.

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