

EASTHAM
TOWN SERVICES REPORT
Fiscal Year 2011
(July 1, 2010 – June 30, 2011)

CAPE COD COMMISSION

Planning, Community Development, and Technical Services

- The Commission provided technical assistance on historic-review procedures to the Eastham Historic District Commission (October 2010).
- The Commission coordinated work by Boston University graduate students from September through December 2010 to inventory cultural landscapes, conduct public workshops, and compile a final report with maps for the Town of Eastham.
- The Commission provided \$3,000 in District Local Technical Assistance funds for a facilitator to work with the towns of Eastham and Wellfleet on potential opportunities for joint public safety operations.
- The Commission provided technical assistance for several transportation-related projects on the Outer Cape:
 - an Outer Cape Bicycle Shuttle, to be implemented in FY2012 (operational in August 2011)
 - a Satellite Maintenance Facility Feasibility Study that examined the potential for a maintenance facility for Cape Cod Regional Transit Authority vehicles with possible availability to Outer Cape towns
 - a Cape Cod National Seashore Integrated Parking and Transit Study that looked at alternatives to beach parking for all beaches located on the Lower/Outer Cape. The study included future demand and existing facilities risk analyses, potential central parking options, and shuttle routes to serve the beaches.
- The Commission conducted 13 automatic traffic-recorder counts on road segments and four turning-movement counts at intersections in Eastham.
- With data collected by staff members aided by an AmeriCorps Cape Cod member, the Commission identified the location of private wells in Eastham to ensure the protection of private water supply wells from herbicide spraying adjacent to NSTAR utility rights-of-way (ROWS).
- The Commission provided the mapping and geographic data analysis for the Nauset Marsh watershed analysis for the Massachusetts Estuaries Project.
- The Commission supported the town's work on its Comprehensive Wastewater Management Plan and related activities.
- The Commission conducted the annual Pond and Lake Stewardship (PALS) freshwater ponds sampling snapshot for Bridge, Depot, Great, Herring, Higgins, Jemima, Little Depot, Minister, Moll's, Muddy, Penny, Schoolhouse, and Widow Harding ponds.
- The Commission conducted water education festivals for students in Eastham.

Regulatory Activities

- The Commission submitted a comment letter to the Massachusetts Environmental Policy Act (MEPA) Office on the Environmental Notification Form for the Sunken Meadow Marsh Culvert Restoration (1/13/11).

Cape Cod Cooperative Extension

- The Eastham Board of Selectmen received a \$3,500 Barnstable County Land Management grant to develop a community garden. The grant funds were used to prepare the land for the garden, to purchase materials to build raised beds, to purchase fencing and develop a source of water.
- The Eastham Natural Resources Department received a \$10,000 grant to continue to implement the Wildfire Protection and Preparedness grant developed for Wiley Park, the Nickerson Property and Cottontail Acres. The grant allowed the town to purchase equipment to remove understory fuel loads and to further develop fire buffer zones.
- On-site and remote technical assistance has been provided on a variety of coastal geology topics including: shoreline change, erosion control alternatives, potential effects of various human activities on coastal landforms, coastal flood plains, coastal hazards, hazard mitigation analyses, and shoreline stabilization techniques. On-site visits typically address site-specific coastal processes/hazards, which are followed with unbiased, written technical alternatives analyses. These site visits are most often requested by Conservation Commission Agents but have also been requested by Beach Committees, Department of Natural Resources, and beach residents. Five site visits occurred in the town of Eastham.
- The Coastal Processes Specialist published and distributed educational information to the Conservation Commission Agent of the town. These materials consisted of a Biological Erosion Control Extension Bulletin (4 pages) and a Coastal Managers Guide to Longshore Sediment Transport (46 pages).
- One hundred one participants of all ages visited the Coastal Explorer at Eastham Public Library during one day in August.
- Two hundred eleven students in grades K-5 at Eastham Elementary participated in 14 marine science classes offered through the Coastal Explorer vehicle in October. Teachers were provided with the *Coastal Explorer Curriculum Guide*.
- Thirty-two students in grade 3 at Eastham Elementary participated in one session of “Whale in the Classroom” during February. Participating teachers were provided with the *Whale in the Classroom Curriculum Guide*.
- Eastham received 300,000 2-3mm hard clam (quahog) seed in FY 2011 through the Barnstable County Municipal Shellfish Propagation Program. Value of this seed at time of dispersal was \$2,400.00.
- One shellfish culturist was chosen and funded at \$1,000.00 to be part of the SEMAC Research Farm Network which focused on a comparison of triploid (seedless) oysters and conventionally grown diploid oysters. One shellfish culturist received two SEMAC grants totaling \$1,000.00 to investigate the use of natural materials in oyster culture and assessment of work effort required for aquaculture.

- The Eastham Shellfish Constable is part of the Marine Program's Shellfish Officers Research and Education (ShORE) Group. In 2010 the ShORE project monitored oyster growth and survival in Salt Pond, and compared results with other embayments on Cape Cod.
- Marine staff responded to concerns about shellfish diseases, red-tide and provided information and technical assistance.
- Marine staff provided technical assistance to two new shellfish culturists.
- Technical assistance and educational programs were also provided to town personnel, aquaculturists, and local citizens.
- Household hazardous waste collections conducted for Eastham 2010 provided the following data: Eastham residents represented 184 cars and 218 households in two Eastham/Orleans HHW collections. A total of 4,365 gallons / 21,570 pounds of hazardous waste was collected at the two HHW collections. Year round residents comprised 70% of participants, 45% of participants were participating for the first time in the collection, and 8% of participants brought waste that was left in their home when they bought it.
- The Cape Cod Cooperative Extension mercury collection program collected the following items in the Town of Eastham in 2010: 17 fever thermometers, 4 lab thermometers, 38 thermostats, and 2.0 pounds of elemental mercury.
- A total of 56 road and marine flares were collected in the Town of Eastham by Cape Cod Cooperative Extension in 2010.
- A total of 162 sharps containers were paid for and provided by Cape Cod Cooperative Extension to the Town of Eastham in 2010 for distribution to the general public. The disposal cost for all full sharps containers returned to the town was paid for by Barnstable County / Cape Cod Cooperative Extension.
- Eleven parents of preschoolers attended "Setting the Stage for Good Eating" at Cape Cod Childrens Place. Establishing family meals, routines and introducing new foods were the topics covered.
- Nutrition educator participated in Biometric Screenings offered by the Cape Cod Municipal Health Group. Nutrition education through a display, one-on-one conversations, educational materials, and food demonstrations was made available in conjunction with health screenings.
- "Smart Snack Attack: Summertime Strategies for Parents" was presented to approximately 30 parents as part of the Eastham Elementary School's Annual Health Fair for families.
- Body Walk, an interactive educational exhibit, was conducted at Eastham Elementary School. Body Walk features an eleven-station tour of the body, from brain to mouth, stomach, small intestine, heart, lungs, bones, muscles, and skin with a focus on the role of nutrition along the way. A total of 107 students experienced the exhibit. Follow-up activities for use in the classroom were provided to each participating teacher. Additionally, take home materials were developed and provided to every student, allowing them to share the messages with parents.
- Six issues out of the year-long series of *Pumpkin Post & Banana Beat* newsletters have been distributed in collaboration with Eastham elementary schools to 28 families with children in kindergarten. The Pumpkin Post series is an educational

newsletter including recipes and regular columns on child feeding challenges, seasonal foods, physical activity, and menu ideas. The series of six newsletters focus on themes about breakfast, fitness, fruits and vegetables, healthy lunches, goal setting and holiday eating.

- One food safety certification program has been offered for the food service industry. ServSafe, a food sanitation certification program through the National Restaurant Association fulfills the 1999 Food Code requirements set forth by the Massachusetts Department of Public Health. Thirty-four food handlers and restaurant managers have successfully passed the national exam of the National Restaurant Association's Educational Foundation as a result.
- Thirty four residents received technical information from the Plant Clinic via phone call, office visit, fact sheet, or soil test.
- Educational materials for distribution included wallet cards and rack cards. These materials contain key information on tick identification, life cycle and prevention tips for tick bites and lowering the risk of tick-borne illnesses such as Lyme. Distribution points included Town Halls including all Department of Health Offices, Chambers of Commerce, Public Libraries and golf courses. Golf courses were offered signs to post to alert people about tick habitat and precautions. Each distribution point was visited between May and June as the highest risk period for Lyme disease approached (June – August). In general, each location received between 50 and 200 each of rack and wallet cards.

Children's Cove

- Conducted 8 SAIN (Sexual Abuse Intervention Network) interviews.
- Provided counseling sessions to 6 child victims and their family members with referrals to community providers for long term treatment.
- Conducted 1 medical examination for children at Children's Cove

Fire & Rescue Training Academy

- Fire Officer I&II
 - 3 Firefighters
- Flashover
 - 1 Firefighter
- Live Burn
 - 7 Firefighters
- Thermal Imager
 - 7 Firefighters

18 Students, \$2,950.00 Dollar value, 29.5 Day value, 229 Hour value

Department of Health & Environment

- Secured home betterment loans for the correction of seven septic systems within the town (\$78,527 in projects).
- MRC Medical Volunteers staffed the Eastham Shelter during winter storm.
- MRC Pharmacist participated in Medication Disposal Day

- Coordinated County and Cape Cod Medical Reserve Corps nurse and volunteer staff scheduling for town's H1N1 influenza immunization clinics
- Coordinated County and Cape Cod Medical Reserve Corps nurse and volunteer staff scheduling for regional adult immunization clinic; 48 adult immunizations (shingles, Td, Tdap, MMR, varicella, Hepatitis A, Hepatitis B, pneumonia) given to Eastham residents at no charge. Acted as an evaluator for the HSEEP compliant public health preparedness drill conducted at this clinic.
- Presented Sun Safety education to over 250 adolescent and adult participants at Coast Guard and Nauset Light beaches.
- Managed underground storage tank (UST) program which tracks testing and removal of tanks; also performed tank testing. Three active tanks are tracked and tested; have overseen removal of five tanks in conformance with Board of Health regulations.
- Provided technical information on Title 5 and innovative/alternative wastewater treatment to Board of Health.
- Provided coverage for Health Agent during vacation period.
- Secured a grant for the collection and laboratory analyses of marine beach samples. Sampling of marine water was conducted weekly at 11 sites; Boat Meadow, Campground Beach, Cole Road Beach, Cook's Brook (Middle), Dyer Prince, First Encounter Beach, First Encounter River, Kingsbury, S. Sunken Meadow, Thumpertown, and Town Cove. The Eastham Board of Health was notified immediately of bacterial exceedences and retesting was conducted daily until bacteria levels were found to be within acceptable limits.
- Sampling of fresh water was conducted weekly at five sites; Great Pond, Herring Pond, Long Pond (Depot Street), Minister Pond, and Wiley Park. Samples were processed for detection of fresh water indicator bacteria *E. coli*. The Eastham Board of Health was notified immediately of bacterial exceedences and retesting was conducted daily until bacteria levels were found to be within acceptable limits.
- Designed and commissioned the production of aluminum signs to meet new regulatory requirements mandated in 2010. Signs were purchased by the town of Eastham for posting at all beaches.
- Performed permitting of all semi-public beaches.
- Created ClinicACE, an internet-based immunization clinic preregistration system and successfully pre-registered 51 immunizations. Necessary immunization documents were printed by each registrant following completion of the registration process, saving the town valuable time on the day of the clinic.
- Compliance management of 138 innovative/alternative wastewater treatment units.
- Sent/received 40 correspondences involving 22 innovative/alternative wastewater treatment systems.
- Resolved three O&M contract non-compliance issues.
- Continued Carmody Innovative/Alternative(I/A) Septic System Database User Fee collection, invoicing I/A operators for 89 systems for which they are responsible for reporting to the database.

- Responded to 27 residential and commercial referrals for IAQ, hazardous material issues, or EHS assistance (24 residential/commercial IAQ/housing, 3 commercial/industrial hazardous materials, 1 residential hazardous material).
- Assisted DPW in EHS audit for chemical storage issues and workplace safety for union grievance process, provided written plan and training, approximate savings to the town \$3500.
- Provided primary comprehensive indoor air quality assessment/analysis for Police Department for union grievance purpose. Approximate savings to the town \$1700.
- BCREPC provided two mobile message boards for two community events in the Town of Eastham.
- Landfill sampled quarterly for a total of 64 wells/year and approximately 200 person hours (this total does not include lab work). Quarterly soil gas monitoring is also performed for the Town of Eastham resulting in an additional 65 hours.
- Conducted 90 inspections (food service/pools) in support of the Town Health Department during the seasonal influx of tourists. In addition to inspections, work days in Eastham were used to develop educational information regarding water quality testing, to prepare Water Quality Program testing kits, helping with flu clinic preparations and with Hazardous Waste Collections days.
- Tuberculosis Testing, Eastham Fire Dept., 2 trips, 17 tests given
- Bladder Cancer Screening, Eastham Fire Dept., 17 screenings done
- Two inspections of every tobacco retailer and two tobacco compliance checks of each tobacco retailer were conducted. Smoke-Free schools signage was distributed.
- Assisted the Town of Eastham by achieving Tier 2 Hazardous Chemical Emergency Reporting compliance for two facilities.
- Provided the town's Fire Department with Hazardous Tier 2 reports for their CAMEO (Computer Aided Management of Emergency Operations) databases.
- Made training and guidance available for the 2 Tier 2 Hazardous Chemical Reporting facilities in the town.
- Assisted town Health Department staff in meeting the deliverables of the CDC/MDPH Health Agents Coalition grant, as well as state mandates in public health emergency planning.
- Coordinated the organization, documentation and delivery of two flu supply "go kits" for the town health department.
- Laboratory services saved town over \$7,500 in analytical fees.

Department of Human Services

- MASS 211 presentation and training at Eastham PACE Committee meeting (April 2011)
- HRC: Through part of the fiscal year, there was an active town representative on the HRC Town Representation Council. The HRC chair and coordinator met mid-year with the Boards of Selectmen at their regional meeting, and began a process to name a new representative to serve as a liaison between the town and the HRC, support human rights, and advise HRC about issues particular to the town.

Resource Development Office/AmeriCorps Cape Cod

- APCC Salt Marsh Monitoring
Members helped collect specimens and data from the salt marsh.
- Eastham Aquaculture
Members cleaned barnacles and tunicate off of oysters and assisted with the summer oyster cull.
- 1651 Tree Measurements
Members helped collect growth data on marked trees and trimmed around the trees to promote growth.
- Rock Harbor Marsh Cleanup
Members removed garbage and debris from the Rock Harbor Marsh.
- W.E.T. Festival, Eastham Elementary
Members taught students about the importance of water conservation using hands on activities.
- Nickerson and Wiley Parks
Members removed fire fuels as part of the town's wildfire management plan.
- South Eastham Conservation Area
Members removed fire fuels as part of the town's wildfire management plan.
- Winter Shellfish Gear Repair
Members repaired shellfish gear for use in the spring.