

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

**Cape Cod Commission**

*Planning, Community Development, and Technical Services*

- The Commission provided planning assistance to the Main Street Buzzards Bay Steering Committee and technical assistance to the town regarding a Growth Incentive Zone application for Buzzards Bay.
- The Commission provided planning and GIS assistance to the town for the development of its portion of the Regional Land Use Vision Map (LUVV), which the Cape Cod Commission approved and the Assembly of Delegates adopted as an amendment to the Regional Policy Plan, effective March 4, 2011.
- The Commission began a focused, interdisciplinary “RESET” effort to assist the town in moving forward with community revitalization plans and land use changes. RESET (the Regional Economic Strategy Execution Team) members include Commission staff with policy, planning, regulatory, and technical expertise, each of whom brings his/her unique perspective and information to any project to produce specific, tangible deliverables (reports, zoning bylaws, and more) that are tailored to the needs of a specific town client.
- The HOME Consortium made one down payment/closing cost loan totaling \$8,959 to a low-income first-time homebuyer in Bourne.
- The HOME Consortium started the closing process on a \$150,000 HOME loan to the Housing Assistance Corporation for its 45-unit affordable senior rental development at Clay Pond Cove.
- The Commission made a \$4,000 Technical Assistance Program (TAP) award to the Town of Bourne for a consultant to prepare and submit a Community Development Block Grant (CDBG) housing rehab funding application to the Massachusetts Department of Housing and Community Development (DHCD).
- The Commission made a \$3,500 TAP award to the Bourne Affordable Housing Trust Fund for a housing rehab consultant to help applicants gain access to the US Department of Agriculture’s rehab program.
- The Commission conducted 19 automatic traffic-recorder counts on road segments and two turning-movement counts at intersections in Bourne.
- The Commission developed a draft plan to add lane striping to the Bourne Rotary.
- The Commission developed a transportation model and evaluated mitigation options for maintenance work on the Sagamore and Bourne bridges.
- With data collected by staff members aided by an AmeriCorps Cape Cod member, the Commission identified the location of private wells in Bourne to ensure the protection of private water supply wells from herbicide spraying adjacent to NSTAR utility rights-of-way (ROWS).
- The Commission supported the Bourne Wastewater Committee’s work on wastewater management and related activities, including a GIS update of potential

public water supply areas for the Buzzards Bay and North Sagamore water districts.

- The Commission organized water education festivals for students in Bourne.

### *Regulatory Activities*

#### DRI Mitigation Funds in Fiscal Year 2011

- The Commission provided \$19,927 for an access configuration plan for the US Army Corps of Engineers/Cape Cod Canal parking area in Buzzards Bay and \$10,000 for a survey and engineered plans for a new crossing on Little Sandy Pond Road.

#### DRI Minor Modifications

- National Marine Life Center – The Commission approved a minor modification to adjust the site plan and phasing of the project on 8/17/10.

#### DRI Reviews Ongoing at Year End

- New Generation Wind Joint Venture – the proposed construction of commercial wind energy turbines and access roadways on multiple parcels.
- Edgehill Park Subdivision – a proposed preliminary subdivision plan creating five roads and eight new lots on the same land that is subject to the New Generation Wind Joint Venture DRI review.

#### Other Regulatory Assistance

- The Commission submitted comment letters to the Massachusetts Environmental Policy Act (MEPA) Office on (1) the Environmental Assessment for the Air Force Center for Engineering and the Environment Wind Turbine Project (9/2/10); (2) the Lower SEMA 345Kv Electric Line in Bourne, Sandwich, and Barnstable (10/25/10); (3) Bourne Water Well #8 (12/16/10); and (4) a new Massachusetts Military Reservation Training Program (4/22/11).

### **Cape Cod Cooperative Extension**

- The Bourne Conservation Department received a \$9,000.00 grant to continue implementing the wildfire protection and preparedness grant in the Bourne Town Forest, the Four Ponds Conservation Land and Bourne Water District Land. The grant allowed the town the ability to clear and maintain fire roads as well as reduce fuel loads through mechanical removal of heavy under brush in the highest risk areas.
- 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).
- A total of 23 children and 6 adults participated in 2 marine science programs held at the Jonathan Bourne Public Library during 2 days in July.
- Five hundred eight students in grades K-4 at Bournedale Elementary participated in 24 marine science classes offered through the Coastal Explorer vehicle in late September-October. Teachers were provided with the *Coastal Explorer Curriculum Guide*.

- Three hundred sixty-five students in grades 1-4 at Peebles Elementary participated in 17 marine science classes offered through the Coastal Explorer program in March. Teachers were provided with the *Coastal Explorer Curriculum Guide*.
- The Town of Bourne hosts three active 4-H clubs with volunteer leaders serving youth with interests in equestrian programs, community service, public speaking and leadership. They participate in horse competitions, community service projects, dog training and more.
- A 4-H Food and Fitness Fair was held at the Bourne Middle School. The program offered stations and activities for 200 students. Participants sampled different foods, made nutritious snacks, and learned fun exercises. Students also used their food Guide Pyramids and math skills to go “grocery shopping” for healthy foods and check out of the store.
- 4-H also participated in the Bourne Energy Savers Expo at the Middle School this spring, with a recycled paper seed cards activity from the 4-H Jr. Master Gardeners curriculum. A program associate helped plan the fair that reached over 500 students.
- 4-H participated in the Health Fair at Bourne High School offering a variety of healthy-living exhibits these programs reaching 500+ students.
- There are two 4-H Clubs on the base; the Otis 4-H Adventure Club for K-3 grades exploring many different project area’s enrolling 29 children. Also the 4-H Junior Chef Club for youth ages 4-8 grades, 12 children are 4-H members in this club focusing on food and nutrition by teaching about healthy choices, consumerism, hands-on food preparation and food safety.
- There are numerous 4-H opportunities provided to children whose parents serve in the Military. Two 4-H Babysitting Courses were offered at Otis Air Station Cape Cod -- reaching 26 participants. 4-H sponsored four Family Fun nights, providing fun, hands-on activities for families, and to promote the 4-H programs and opportunities for children to participate.
- 4-H sponsors four summer vacation events at the Otis Crosswinds facility using their pool. Themed days are held to provide children with healthy lifestyle educational activities such as physical fitness, nutrition, sun safety, tick information and water safety instruction.
- The 4-H Food Drive collaborated with the MA Otis Food pantry and donated 500 lbs of food, diapers and other baby items to the cause.
- The Bourne Library hosted 2 4-H Babysitting courses as well as a 4-H recycling/ecology program.
- Operation Military Kids Cape Cod concluded a 3 month long community service project by delivering 75 handmade holiday stockings to Otis on Christmas Eve, stuffed with small toys, stuffed animals and gift cards donated by the Dollar Tree Stores. The stockings were sewn by a group of 25 youth and adults in November, and toys were sorted and stuffed by youth at the YMCA, Barnstable Intermediate and High schools, and the Southeast Alternative School. The remaining toys, plus a number of fleece blankets and other items were delivered to the Otis Food Pantry in December as well. An article entitled “Stockings Stuffed With Care for Military Kids” appeared in the December 23rd edition of the Cape Cod Times, on

page 3, with photos of the stocking project. A partnership with many geographically dispersed Otis families with a member serving has been forged and is going strong.

- The Town of Bourne 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 the time of dispersal was \$2,400.00.
- Additionally, Bourne took advantage of the bid price established by the County and purchased another 200K quahog seed.
- The Bourne Shellfish Constable is part of the Marine Program's Shellfish Officers Research and Education (ShORE) Group. Marine staff provided technical assistance to Bourne Shellfish Officers on upweller issues.
- Marine staff responded to concerns about shellfish diseases, red-tide and provided information and technical assistance to town personnel, aquaculturists, and local citizens.
- Phinney's Harbor in Bourne was selected for experimental eelgrass transplanting to assess its potential for a full-scale restoration effort.
- Household hazardous waste collections conducted with Bourne 2010 provided the following data: Bourne residents represented 247 cars and 420 households in four regional Upper Cape HHW collections. A total of 5,460 gallons / 25,170 pounds of hazardous waste was collected at the Bourne HHW collection. Year round residents comprised 86% of participants, 38% of participants were participating for the first time in the collection, and 13% 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 Bourne in 2010: 106 thermostats, 3 electric switches, and 5 float switches.
- A total of 181 road and marine flares were collected in the Town of Bourne by Cape Cod Cooperative Extension in 2010.
- A total of 301 sharps containers were paid for and provided by Cape Cod Cooperative Extension to the Town of Bourne 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.
- A healthy cooking demonstration and display reached 25 clients and volunteers at the Bourne Food Pantry.
- Body Walk, an interactive educational exhibit, was conducted at Peebles 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 200 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.
- "Healthy Eating for Older Adults" was presented to 13 members of the National Association of Retired Federal Employees at Bourne Community Center.

- A nutrition presentation entitled, “Happy Healthy New Year” was conducted for 6 parents of Pre-K and elementary students at Bournedale Elementary School. Healthy meal ideas and cooking demonstration to encourage variety in foods and colors of foods was covered.
- “BYOL: Build Your Own Lunch”, an interactive parent and child workshop was held for 6 children and parents at Bournedale Elementary School. Children made a brown bag lunch for the following day from a series of healthy choices offered at various ‘stations’. Healthy beverages, food safe lunches and variety were covered.
- “Rainbow on Your Plate” a series of two nutrition lessons has reached 9 Head Start preschool aged children and classroom teachers. Emphasizing consumption of fruits and vegetables, these lessons also provide opportunities for physical activity and tasting new foods. Classroom materials and take-home folders are provided to reinforce the nutrition messages both in the classroom and at home.
- Six issues out of the year-long series of *Pumpkin Post & Banana Beat* newsletters have been distributed in collaboration with Bourne elementary schools to 189 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 soil test clinic was held in the Town of Bourne
- Fifty two residents received technical information through 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 based on anticipated needs and materials carried over from 2010.

### **Children’s Cove**

- Conducted 4 SAIN (Sexual Abuse Intervention Network) interviews.
- Provided counseling sessions to 0 child victims and their family members with referrals to community providers for long term treatment.
- Conducted 0 medical examinations for children at Children’s Cove.

### **Fire & Rescue Training Academy**

- Hand lines Search and Rescue
  - 6 Firefighters
- ICS 300
  - 1 Student
- Live Burn
  - 20 Firefighters
- MHMT Tanker Operations
  - 2 Firefighters
- Structural Firefighting
  - 4 Students
- WMD Radiological/Nuclear Awareness
  - 4 Firefighters

44 Students, \$3,800.00 Dollar Value, 38 Day Value, 294 Hour Value

### **Department of Health & Environment**

- Assisted the Town of Bourne by achieving Tier 2 Hazardous Chemical Emergency Reporting compliance for 19 facilities.
- Provided the town's Fire Department with these 19 Hazardous Tier 2 reports for their CAMEO (Computer Aided Management of Emergency Operations) databases.
- Provided EPCRA training and guidance for the 19 Tier 2 Hazardous Chemical Reporting facilities in the town.
- Assisted town Health Department staff in meeting the mandated deliverables of the CDC/MDPH Health Agents Coalition Public Health Emergency Preparedness (PHEP) and Response (PHER) grants.
- Worked with the Bourne health director on developing health agents' trainings in making them more in line with the CDC/MDPH grant deliverables, as well as providing trainings that could satisfy the credit requirements of a Registered Sanitarian in each town.
- Coordinated the organization, documentation and delivery of 6 flu supply "go kits" for the town health department.
- Created ClinicACE, an internet-based immunization clinic preregistration system and successfully pre-registered 42 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 120 innovative/alternative wastewater treatment units.
- Sent/received 23 correspondences involving 12 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 90 systems for which they are responsible for reporting to the database.

- Landfill sampled quarterly for a total of 140 wells/year and approximately 360 person hours (this total does not include lab work)
- Conducted nearly 100 inspections (food service/pools) during the last fiscal year in support of the Town Health Department during the seasonal influx of tourists. This does not include other duties performed for the town possibly including housing, hazardous materials, computer work/data entry.
- Secured a grant for the collection and laboratory analyses of marine beach samples. Sampling of marine water was conducted weekly at four sites; Cataumet Harbor, Gilder Road (Gray Gables) Beach, Patiusset Beach, and Sagamore Beach. Monthly sampling of marine water was conducted at 3 sites; Barlow's Landing, Electric Avenue, and Monument Beach. The Bourne 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 two sites; Picture Lake and Queen Sewell Pond. Samples were processed for detection of fresh water indicator bacteria *E. coli*. The Bourne 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 Bourne for posting at all beaches.
- Performed permitting of all semi-public beaches.
- Biometric Screening, Upper Cape Technical High School, 30 attendees.
- Tick and Lyme Program, Bournedale Elementary, over 2 days, 640 attendees.
- Tick and Lyme Program, St. Margaret's School, 200 attendees.
- Otis, 2nd Hepatitis B, 1 shot given.
- MMR Fire Dept., 3 trips, 21 shots given of the 3rd Hepatitis B.
- Seasonal flu clinic, MMR, 8 shots given.
- Seasonal flu clinic, Bourne Police Dept., 17 shots given.
- Monument Beach in Bourne with Safe Sun Project-over 100 adolescents and adult participants.
- Coordinated County and Cape Cod Medical Reserve Corps nurse and volunteer staff scheduling for regional adult immunization clinic; 14 adult immunizations (shingles, Td, Tdap, MMR, varicella, Hepatitis A, Hepatitis B, pneumonia) given to Bourne residents at no charge. Acted as an evaluator for the HSEEP compliant public health preparedness drill conducted at this clinic.
- Secured home betterment loans for the correction of 20 septic systems within the town (\$309,812 in projects).
- Responded to 38 health-related referrals from departments including residential/commercial in the areas of mold (21), general IAQ (12) and hazmat-asbestos and hazardous chemicals (5) industrial.
- Conducted a full IAQ assessment of the Bourne Police Station following a major flood-provided air/mold analysis and provided written recommendations to the town for implementation. Savings to Town approximately \$8500.

- Managed underground storage tank (UST) program which tracks testing and removal of tanks; also performed tank testing. Eleven active tanks are tracked and tested; have overseen removal of 23 tanks in conformance with Board of Health regulations.
- Two inspections of every tobacco retailer and two tobacco compliance checks of each tobacco retailer were conducted; two second-hand smoke complaints were investigated. Smoke-Free schools signage was distributed.

### **Department of Human Services**

- Human Services Committee: Summary of Human Condition data specific to the Town of Bourne. (Feb. 2011)
- HRC: There is an active town representative on the HRC Town Representation Council – serving as a liaison between the town and the HRC, supporting the County’s human rights and discrimination policy, and advising the HRC about issues particular to the town.
- HRC: Human Rights Academy. Bourne High School has been a participant in this HRA for five years, and participated in this year just completed. In addition, Upper Cape Regional Tech has participated.

### **Resource Development Office/AmeriCorps Cape Cod**

- Hazardous Waste Collections  
Members helped to facilitate a hazardous waste collections organized by the Cape Cod Cooperative Extension.
- Mashnee Dike Snow Fencing  
Members assisted the US Army Corps of Engineers with installing snow fencing on Mashnee Dike.
- Heath land Restoration  
Members and the US Army Corps of Engineers removed woody material on Mashnee Dike to assist with the restoration of heath land habitat.
- Valley Farm Community Garden  
Members removed invasives and prepared the future site of a new community garden in Pocasset.
- Beach Grass Planting  
Members and students from the local Montessori School planted beach grass on Mashnee Dike to prevent erosion.
- Bournedale Herring Run  
Members removed obstructions and trimmed back overgrowth along the herring run.
- Canal Cleanup  
Members recruited 150 volunteers to remove trash along the Canal.