

Buzzards Bay National Estuary Program
2014 Program Evaluation Submission
for work plans covering federal FY09 to FY13 funding cycles



Prepared by the
Buzzards Bay National Estuary Program
February 28, 2014

in conformance with the U.S. EPA
National Estuary Program
Program Evaluation Guidance
Final August 31, 2011



Jamal Kadri
US Environmental Protection Agency Headquarters
1200 Pennsylvania Avenue NW
Mail code 4504T
Washington, DC 20460
(submitted electronically)

February 28, 2014

Mr. Kadri:

The documents attached to this letter (combined as an electronic file) constitute our submission of the 2014 Program Evaluation of the Buzzards Bay National Estuary Program (Buzzards Bay NEP) covering the federal funding work plan years FY09 through FY13. This submission and all supporting documents are available at the Buzzards Bay NEP website (buzzardsbay.org/2014-program-evaluation.htm). This submission is also available on CD upon request.

The U.S. EPA has outlined an approach for content of program evaluation submissions in the document *National Estuary Program, Program Evaluation Guidance, Final August 31, 2011*. Our submission conforms to this guidance and includes the following elements:

- an overview of program activities,
- EPA's program management core elements response checklist with clarifying comments and supporting documentation,
- an NEP work plan narrative summary, including NEPORT and leveraging summaries, and
- a budget summary.

An important aspect of this submission reflects the fact that Buzzards Bay NEP work plans and cooperative agreements include contributions and activities of two not-for-profit organizations. These partners are the municipal official organization, the Buzzards Bay Action Committee, and the citizen advocacy group, The Buzzards Bay Coalition. Both partners contribute time and resources in meeting our obligations (including match) under our cooperative agreements with the U.S. EPA, and the Buzzards Bay NEP in turn provides support to, and collaborates with, these organizations on specific projects.

In a broad sense, all three Buzzards Bay organizations, in one form or another have pledged to work to achieve the goals and objectives contained within the Buzzards Bay Comprehensive Conservation and Management Plan. To improve coordination between the three organizations, first in 1997, then again 2005, the three organizations signed a Memorandum of Understanding that improved collaboration and reduced redundancy in our common efforts to protect and restore the water quality and living resources of Buzzards Bay and its surrounding watershed (available at buzzardsbayaction.org/mou-bb-2005.pdf). This MOU, for example, led the Buzzards Bay NEP to focus more on providing technical and financial assistance to municipalities and our partners, and to rely more on the general outreach programs of the Buzzards Bay Coalition to reach larger public audiences.

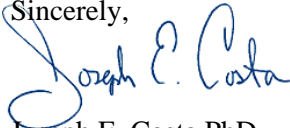
In many respects, each Buzzards Bay organization plays to its strengths. As a planning and technical

assistance unit of the Massachusetts Office of Coastal Zone Management, and with the administrative support of state government, the Buzzards Bay NEP is particularly well suited to administer and oversee a municipal grant program, and to provide in depth technical information on the NEP's website. With our focus on technical assistance and position in state government, the Buzzards Bay NEP is not only an important resource used by Buzzards Bay municipalities and our partners, but we have increased their capacity to undertake projects and helped leverage additional state and federal support to projects in the Buzzards Bay watershed. Because the NEP is part of state government, we are uniquely positioned to ensure that our actions and programs are consistent with state coastal policy, and equally important, we help guide other state agency actions toward consistency with the Buzzards Bay CCMP.

The Buzzards Bay Action Committee compliments our efforts by providing a forum for municipal government to exchange ideas, guide Buzzards Bay NEP efforts, and create collaborations that cross municipal borders and help work toward regional solutions and regionally consistent strategies. The Buzzards Bay Coalition compliments the other organizations because they are more than a citizen education group. The Coalition is also a highly successful advocacy group and a leading agent of change. Among the three Buzzards Bay organizations, only the Coalition can, and has, legally challenged government to take action, and has even joined in lawsuits advocating greater environmental protection action by regulators. The Coalition has also repeatedly helped draft, and publically promotes the adoption of new laws and regulations that achieve CCMP goals (see the discussion of the Wareham nitrogen bylaws). They also implement one of the most successful and effective citizen based water quality monitoring programs in the country. This monitoring program is not only an essential element of our efforts to track environmental protection progress in Buzzards Bay, but their data is being used by the Massachusetts Department of Environmental Protection as the basis of establishing nitrogen TMDLs for Buzzards Bay embayments.

It is for all these reasons that we also highlight certain activities of the Buzzards Bay Coalition and the Buzzards Bay Action Committee in this document as they relate to their specific commitments in our Cooperative Agreement.

We look forward to the on-site review team's visit so that we can further highlight the successes of our program.

Sincerely,

Joseph E. Costa PhD,
Executive Director

cc: Buzzards Bay NEP Steering Committee

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Section 1: Submission Overview, Retrospective of Program Activity, and Progress since the 2009 Review

Submission Overview

For the evaluation of NEP programs, the U.S. EPA has established program evaluation submission requirements in the document *National Estuary Program, Program Evaluation Guidance, Final August 31, 2011*. The U.S. EPA notes that the goals of program evaluation guidance are to increase the objectivity and consistency of program evaluations among the different NEPs, align evaluations with NEP-specific CCMP priorities and annual work plans, measure progress in achieving programmatic and environmental results over the short-term, intermediate, and long-term stages of progress, and to better document reductions and/or changes in pressures within NEP watersheds and management frameworks that affect progress. In 2014, the Buzzards Bay NEP is required to submit materials to enable the review of activities under federal funding work plan years FY09 through FY13.

With respect to submission format, the U.S. EPA encourages conformance with the "NEP Program Evaluation Logic Model Framework," which incorporates the "Pressure-State-Response" model. The intent of this logic model is to help guide NEPs in how to report progress toward "restoring and maintaining the ecological integrity of each nationally designated estuary (otherwise referred to as environmental milestones and targets)." More specifically, the U.S. EPA expects that program evaluation submissions for the review period include a summary of program activities organized by specific "core element" and sub-element categories articulated in the logic model. Section 2 and Section 3 of this submission adhere to this suggested format for the evaluation of the program management and work plan performance, respectively.

Ultimately, the purpose of this program evaluation submission is to demonstrate the successful performance and proven effectiveness of the Buzzards Bay National Estuary Program. We believe we achieve this goal in this submission, with the supporting documents attached, through the links to the NEP's website, and the links to documents and information on the websites of our partners. This document has been submitted in electronic form, and we encourage the reviewers to use these active links to help evaluate responses and to obtain more detailed information.

Throughout this document, we highlight successes and strengths of the program, describe our efforts to facilitate technology and information transfer, and demonstrate that stakeholder commitments and community support are being maintained and increased.

About the Program

The Buzzards Bay National Estuary Program is an advisory and planning unit of the Massachusetts Office of Coastal Zone Management. Created in 1985, and joining the National Estuary Program in 1987, the Buzzards Bay NEP completed its original Buzzards Bay Comprehensive Conservation and Management Plan in 1991. In 2013, the Buzzards Bay NEP completed its update to the Management Plan. Today, the Buzzards Bay NEP provides funding and technical assistance to municipalities and citizens to facilitate actions that meet the goals and objectives of the Buzzards Bay CCMP.

Since the program's inception, a Policy Committee composed of the Massachusetts Executive Office of Energy and Environmental Affairs Secretary and the U.S. Environmental Protection Agency (EPA) New England Regional Administrator or their designees, is defined as the entity ultimately responsible for ensuring that the Buzzards Bay NEP meets its goals. Until 1992, the Buzzards Bay NEP staff was more directly guided by a Management Committee of more than 20 members representing state, federal, and regional agencies, municipalities, and citizens groups. The EPA chaired this Management Committee. The Buzzards Bay NEP also had standing technical committees, a management plan advisory committee,

and other advisory committees.

With the completion of the Management Plan, the Management Committee replaced itself with a Steering Committee composed of those parties most interested in ensuring implementation of the Management Plan. These members were Massachusetts Office of Coastal Zone Management (CZM), the U.S. EPA, the Southeast Regional Planning and Economic Development District and two nonprofits: the Buzzards Bay Action Committee (BBAC), which is composed of municipal officials, and the Buzzards Bay Coalition (BBC), a citizen-based group. In 2008, the Massachusetts Department of Environmental Protection (DEP) formally joined the Buzzards Bay Steering Committee as its sixth member, a reflection of their central role in helping implement the Buzzards Bay CCMP.

Both the Action Committee and the Coalition were offshoots of the Buzzards Bay NEP's Citizen Advisory Committee, which split in 1987 and led to the formation of these two independent nonprofit organizations. Today the BBAC remains involved with state, local, and federal legislative and regulatory issues. The BBAC hosts monthly meetings with invited speakers and occasionally hosts workshops on special topics (see Figure 1 and Figure 2). The Buzzards Bay Coalition remains involved in a wide range of programs including education, water quality monitoring, and has raised funds and public awareness with their annual Buzzards Bay swims and watershed bike rides. The Coalition has grown into one of the most effective estuary watershed nonprofits in the country, with a core year-round staff of about 20, and an operating budget of around \$2 million. These activities are highlighted in the attached 2012 Buzzards Bay Coalition annual report, along with specific projects that relate to the Buzzards Bay workplan as outlined in this program review submission.



Figure 1 In October 2012, David R. Vallee, Hurricanologist and Hydrologist-in-Charge at the NOAA/NWS/Northeast River Forecast Center, in Taunton was the speaker at the monthly Buzzards Bay Action Committee.

In 1997, and again in 2005 the Buzzards Bay NEP signed a memorandum of understanding with the Buzzards Bay Action Committee and the Buzzards Bay Coalition to improve coordination, and reduce redundancy in the efforts of the three Buzzards Bay watershed organizations. This MOU is attached. Both organizations have adopted as one of their major goals, the implementation of recommendations contained in the Buzzards Bay Comprehensive Conservation and Management Plan. A review of the Buzzards Bay NEP workplans in this submission illustrates some of the collaborative efforts among the three organizations.



Figure 2 In April 2013, the BBAC held its first Earth Day Expo.

Retrospective of Program Activity, FY09-FY2013

A cursory review of the Buzzards Bay NEP work plans during the past five years (Supporting Attachments listed in Section 8) will show that many of the core activities of the Buzzards Bay NEP, as well as our collaborative work with our partners have remained constant. For example, a core focus of the Buzzards Bay NEP remains our technical and financial assistance programs to municipalities. Our efforts, in part, are driven by our municipal grant program, which due to its nature involves an ever-changing landscape of projects and initiatives. In some of these projects, such as stormwater design development, the Buzzards Bay NEP may be heavily involved in the management and oversight of the projects. In others, like the land acquisition projects, we often provide a more supporting role such as funding specific but essential tasks (e.g. land surveys), or technical support related to mapping.

Besides our municipal grants, our technical support to Buzzards Bay municipalities is driven by mostly ad hoc requests from municipal staff, municipal boards, or one of our non-governmental organization partners that revolve around the specific expertise of Buzzards Bay NEP technical staff. This assistance takes the form of local project review, development of conceptual restoration designs or strategies, technical analyses, map creation, data review, and workshops and training (Figure 4 and Figure 3). Interspersed among these work plan efforts are wide ranges of special projects, including different sea level rise projects during the past three workplans.

All through these efforts the Buzzards Bay NEP staff remain integrated in a wide range of topics and are often asked to make presentations at public meetings, workshops, and events (Figure 5). The program's recent work on the application of LiDAR data to extrapolate the effects of sea level rise on expansions of the FEMA flood plain, the high tide line, and in salt marsh migration has generated interest among managers and scientists alike.

Finally, one of the most important accomplishments of the last five years was the Buzzards Bay NEP's completion of the 2013 update of the Buzzards Bay CCMP. Completed in



Figure 3 Sarah Williams conferring with Wareham Conservation Agent Dave Pichette on a planned open space acquisition.



Figure 4 John Rockwell conducting a wetlands training workshop in 2013.

November of 2013 and posted online, with hard copies printed and distributed in February 2013, this update will help set the course for NEP action and partner collaborations for years to come.

Response to the 2009 Program Review Evaluation

The only challenges noted in the 2009 program review of the Buzzards Bay NEP were:

"Beginning in 2010 and continuing for the next several years, communities will need considerable technical support to develop MS4 stormwater permits and/or to implement TMDLs. Buzzards Bay NEP and EPA expect that communities will look to the Buzzards Bay NEP for support on

permit compliance/implementation and TMDL implementation. Since Buzzards Bay NEP has limited staffing and financial resources, the Program's single most important near-term challenge is the need to set Program priorities and manage communities' requests for assistance. EPA recommends that once the revised CCMP is completed, the Program and its stakeholders select a set of four to five CCMP priorities on which to focus Program efforts each year. At the end of the first year, the Program could re-visit the priority identification process and assess the impact of addressing a limited number of priorities on overall CCMP implementation."

As it turns out, completion of the CCMP in 2010 was delayed because of new proposed requirements and pending legislation that would proscribe specific changes. Eventually the legislation did not pass, but subsequently the Steering Committee sought improvements in the organization and content of the CCMP, including approving new action plans. These additional changes together with other program priorities, delayed its completion to 2013. A number of significant changes were made in the 2013 Buzzards Bay CCMP, including:

- The document was made less prescriptive and more goal and objective oriented with the understanding that there may be multiple mechanisms to achieve the stated goals.
- New or significantly modified action plans were developed and added into the new CCMP including Action Plan 4 Improving Land Use Management and Promoting Smart Growth, Action Plan 9 Protecting Bio-Diversity and Rare and Endangered Species Habitat Action Plan 10 Managing Water Withdrawals to Protect Wetlands, Habitat, and Water Supplies, Action Plan 11 Managing Invasive and Nuisance Species , Action Plan 13 Protecting and Restoring Ponds and Streams Action Plan 14 Reducing Beach Debris, Marine Floatables, and Litter in Wetlands , Action Plan 15 Managing Coastal Watersheds, Tidelands, and the Waterfront, Action Plan 19 Protecting Public Health at Swimming Beaches and Action Plan 21 Enhancing Public Education and Participation.
- Although the 1992 Buzzards Bay CCMP was the first CCMP to incorporate climate change and sea level rise, these issues were further updated, expanded, and elements of climate change were



Figure 5 Program Executive Director Dr. Joe Costa was the keynote speaker at the New Bedford Sea Lab Annual Commencement ceremony in August 2012.

incorporated and referenced in additional action plans besides the Shifting Shorelines action plan.

- The document was turned into more of a resource document, where the core goals and objectives were presented in a single page for each action plan. These single page summaries were combined into a short Executive Summary. Much of the more than 250 pages of the document was meant to be a resource and reference, stating clearly the basis of the goals, and summarizing the science, data, interests, and assumptions on which those goals were based. The document also provides extensive active links to numerous other scientific and management resources to aid the reader, and facilitate its use as an online reference.

Despite these changes, many of the core goals and objectives representing the original priority elements of the 1992 CCMP (such as nitrogen pollution, storm water and bacteria pollution, and habitat and wetland protection) were well thought out, and were still applicable in the new CCMP.

With respect to the MS4 permit program, the U.S. EPA never reissued the permit as expected (and still has not done so), so the workload expected related to MS4 permits did not materialize. However in 2010, the Buzzards Bay NEP became extensively involved with the review and generation of data used in the development of nitrogen TMDLs in Buzzards Bay.

With respect to resetting priorities, for the past three years the NEP has incorporated a climate adaption task in each workplan. The other key areas of focus have remained continued technical assistance on stormwater management, wetlands protection training, support on nitrogen issues to our partners, and general activities that derive from our municipal grant and technical assistance programs.

Section 2: Program Management Core Elements

With respect to an evaluation of NEP program management, the guidance expects that the elements and sub-elements shown in Figure 6 be evaluated against the specific performance measure criteria contained in the guidance document. In the section below, we have completed the standardized performance evaluation worksheets for Program Management Core Elements the federal funding cycles FY09, FY10, FY11, FY12, and FY13. We have check marked and provided additional supporting information and clarifying comments or supplementary links to more information.

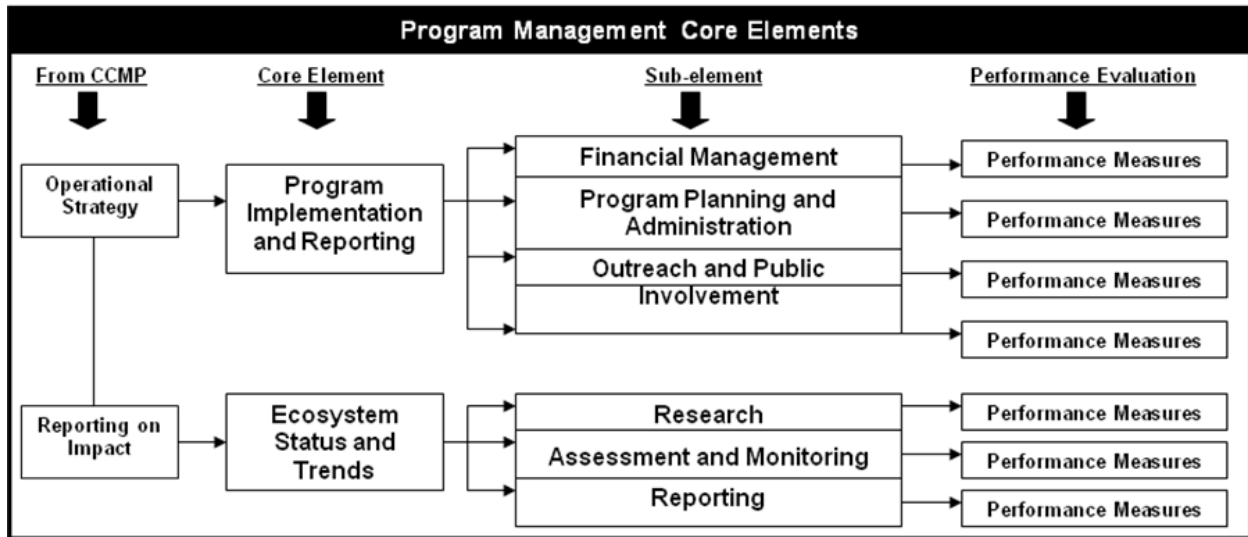


Figure 6 Program Management Core Elements and Sub-elements identified in EPA's 2011 NEP Program Evaluation Guidance.

Core Element: Program Implementation and Reporting

Sub-element: **Financial Management**

NOTE: The EPA expects that, in order to be a Fully Performing Program, all baseline expectations are met. PERFORMANCE MEASURES in the Good and Excellent levels are not required. They are benchmarks for what the Program can do to improve performance given the Program's priorities and organizational capacity.

EXCELLENT PERFORMANCE MEASURES		EVIDENCE, WORK PLAN CITATION, CLARIFYING COMMENTS
X	The Program researches, identifies, and tracks prospective donors and funding opportunities (applicable for non-profit organizations).	Because the Buzzards Bay NEP is a state agency, this element does not apply because we cannot accept or solicit donations. However, our key partners on our work plan, the Buzzards Bay Coalition (BBC, a citizen NGO) and the Buzzards Bay Action Committee (a municipal NGO) both raise or secure funds. In particular, the BBC has raised millions in support of the water quality monitoring, land protection, and other initiatives. See partner web sites and BBC annual reports www.savebuzzardsbay.org/GetConnected/Publications/AnnualAndCampaign
X	Program staff, Management Conference members, and volunteers have received finance/fundraising training if appropriate.	Fundraising training is not appropriate for NEP staff, but BBC has trained development and finance staff. www.savebuzzardsbay.org
X	The majority of the Program's outreach materials contain funding information (e.g., thanking donors, acknowledging project funding, including a membership form, etc.).	The Buzzards Bay NEP generally credits grantors in publications. BBC has appropriate credits in outreach materials and products, as do our partners. For example, see the Coalition 2011 State of the Bay report for acknowledgement of the NEP's contribution.
GOOD PERFORMANCE MEASURES		EVIDENCE, WORK PLAN CITATION, CLARIFYING COMMENTS
X	The Program has a current finance plan (approved by the Management Conference within the past six years) that includes estimated costs, funding sources, goals, responsibilities, and milestones.	The Buzzards Bay NEP finalized the 2013 update of the CCMP in November. Each action plan recommendation has identified costs, funding sources, and includes a financial plan chapter (buzzardsbay.org/newccmp.htm). A current finance plan is available at buzzardsbay.org/newccmp-chapter6.htm
X	The Program integrates finance planning into its annual work plan (i.e., an assessment of funding obtained in the previous year, current funding, and funding to be pursued in the coming year).	The Buzzards Bay NEP bases each work plan on expected federal funding and any expected grants received or state funds committed to the NEP, or where we have a commitment to our partners. See NEP web site and annual work plans (buzzardsbay.org/bbnep-work-plans-performance.htm). The NEP has submitted approved work plans every year to EPA that tracks budgets and reports progress (buzzardsbay.org/bbnep-work-plans-performance.htm).
X	The Program has a monthly revenue and expenditure tracking system.	The NEP's grant accounts are managed by the state, through the hosting agency, CZM, and monthly revenue and tracking are available to the Director. Contact Vesper Williams, CZM fiscal staff (our host agency).
X	The Program has a case statement (a brief statement outlining accomplishments and results that could occur with additional resources).	The Buzzards Bay NEP includes such a statement on our website finance-plan page (buzzardsbay.org/ccmpold/ccmp-ii-financial-plan.pdf) for the old plan, and at buzzardsbay.org/newccmp-chapter6.htm for our new plan.
FULLY PERFORMING PERFORMANCE MEASURES: Baseline Expectations		EVIDENCE, WORK PLAN CITATION, CLARIFYING COMMENTS
X	The Program meets its non-federal match obligation and provides detail in the annual work plan submittal to the EPA about match funding sources and uses (e.g., work plan tasks).	The NEP has always met its match obligation. A summary of match for the review period is provided in a Section 5: Budget Matches.
X	The Program has a plan for diversifying and augmenting funding sources that is approved by the Management Conference and includes estimated costs, goals, responsibilities, and milestones.	The NEP supported the original spinoff of the BBC and BBAC and their evolution to assume increased ownership and responsibilities of program activities. Their independence and growth have augmenting the need for NEP funding in specific areas, such as public education. This in part acknowledges also some of the fundraising limitations of an NEP located within a state agency. See BBC web site for the breadth of their efforts(www.savebuzzardsbay.org).
X	The Program has the partnerships and strategic alliances to identify and secure resources to implement its CCMP.	The NEP collaborates with the BBC and BBAC. The partners provide program match through their activities and are able to identify, diversify, and secure resources for CCMP implementation. See Buzzards Bay NEP and partner web sites (www.savebuzzardsbay.org and www.buzzardsbayaction.org).

Core Element: Program Implementation and Reporting

Sub-element: Program Planning and Administration

NOTE: The EPA expects that, in order to be a Fully Performing Program, all baseline expectations are met. PERFORMANCE MEASURES in the Good and Excellent levels are not required. They are benchmarks for what the Program can do to improve performance given the Program's priorities and organizational capacity.

EXCELLENT PERFORMANCE MEASURES		EVIDENCE, WORK PLAN CITATION, CLARIFYING COMMENTS
X	The Program encourages professional development opportunities for staff members.	The program sets aside funds specifically targeted to provide professional development opportunities for staff upon request. Staff are also encouraged to participate in workshops, seminars, and conferences as part of professional development. The state also offers employee training workshops. During the review period, for example, the Administrative Assistant received training for georeferencing, digitizing, Project Management, Quick Quest for Comm-Pass (the Commonwealth Procurement System), Use of State Contracts, and Problem Solving Strategies. In 2013, the Wetland Specialist attended four-day Army Corps Regional Wetland Manual Supplement training course. All Staff are required to participate in periodic training for Conflict of Interest, Diversity Awareness, Disability Awareness, Domestic Violence, Sexual Assault and Stalking Awareness, Preventing Sexual Harassment in the Workplace. The director has participated in manager workshops.
X	The Program is a leader in the transfer of lessons learned in watershed management.	Yes, and the program also uses its partnerships with regional non-profits and planning agencies to transfer lessons in watershed management (www.buzzardsbayaction.org/agenda.html , climate.buzzardsbay.org/index.html).
GOOD PERFORMANCE MEASURES		EVIDENCE, WORK PLAN CITATION, CLARIFYING COMMENTS
X	The Program has a Management Conference that: has a written vision statement and/or mission and goals; is fully engaged in developing and implementing the work plan; assists in building active partnerships; ensures broad stakeholder representation in priority setting and Program oversight; provides a clear and transparent decision-making process that includes the public (e.g., operating procedures, agreements and/or bylaws for committees, etc.); and has a mechanism for identifying existing and emerging issues.	The program has a steering committee that does all of the activities listed. Their vision statement is the same as the Buzzards Bay NEP's. The partners actively participate in the review and revisions to the CCMP and program priorities, which also acts as a means of identifying existing and emerging issues for the program (buzzardsbay.org/newccmp.htm). In 2013, the Buzzards Bay NEP agreed to participate in a newly formed science advisory committee to the Coalition for Buzzards Bay.
X	The Program is seen as a leader in watershed management.	The program and its partners are seen as a leader in watershed management, evidenced by the ongoing requests for information and assistance, and back links found on the web or in reports. The recent EPA Northeast wetlands assessment profiles Buzzards Bay NEP findings and work. Most government and non-government reports on the Bouchard Oil spill and the subsequent damage assessment reports finalized in 2012 and 2013 cite the extensive documents and data on the oil spill at the Buzzards Bay website, which became the website of record for the state cleanup reports (see buzzardsbay.org/oilspill-4-28-03.htm). Incidental references to the Buzzards Bay website in other websites or reports are common as illustrated in these typical articles or pages: www.wellesleywestonmagazine.com/sum06/green.htm , www.ewire.com/news-releases/nitrex-nitrogen-removal-process-demonstrates-highest-removal-rates-in-several-tests/ , backyardecology.weebly.com/nitrogen-cycle.html
FULLY PERFORMING PERFORMANCE MEASURES: Baseline Expectations		EVIDENCE, WORK PLAN CITATION, CLARIFYING COMMENTS

Core Element: Program Implementation and Reporting

Sub-element: Financial Management

X	The Program has a Management Conference that: is fully staffed; provides Program direction; oversees development and approves annual budget and work plan; ensures sufficient Program resources; sets a framework for bringing together diverse interests in a collaborative fashion (e.g., develop synergy among various organizations); ensures communication between Program committees; ensures Program actions are based on both stakeholder priorities and good science; communicates about and supports the Program; and has a process for reevaluating its priorities.	The program has a steering committee that meets once a year and accomplishes all of the activities listed, and with quarterly to semi-annual meetings to guide CCMP progress. All budgets and program directions are voted by the committee, which works collaboratively with the program staff. With the completion of the 2013 CCMP Update, the program will establish a new schedule to regularly review and update the CCMP, including a review of program priorities.
X	The Program staff coordinates and supports Management Conference responsibilities.	The program staff develops agendas and summarizes discussions at steering committee meetings. The program staff regularly coordinates with steering committee members and program partners.
X	The Program has human resources principles in place (e.g., staff members have position descriptions and periodic performance reviews).	All the program positions have formal descriptions and all staff receive annual performance reviews. The NEP Director's performance is reviewed by the hosting agency.
X	The Program office has autonomy with regard to the host entity (e.g., sets and follows its own priorities, exhibits visibility in the watershed, etc.).	The Buzzards Bay NEP is hosted by MCZM but is able to follow its own priorities based on CCMP and work plan requirements. The program has autonomy to set priorities, as evidenced through CCMP revisions. The program and its partners all have visibility within the watershed.
MINIMALLY PERFORMING PERFORMANCE MEASURES		EVIDENCE, WORK PLAN CITATION, CLARIFYING COMMENTS
	The Program does not meet all of the PERFORMANCE MEASURES in the Fully Performing level.	

Core Element: Program Implementation and Reporting
Sub-element: Outreach and Public Involvement

NOTE: The EPA expects that, in order to be a Fully Performing Program, all baseline expectations are met. PERFORMANCE MEASURES in the Good and Excellent levels are not required. They are benchmarks for what the Program can do to improve performance given the Program's priorities and organizational capacity.

EXCELLENT PERFORMANCE MEASURES		EVIDENCE, WORK PLAN CITATION, CLARIFYING COMMENTS
X	The Program supports citizen recommendations by implementing/supporting priority projects via the annual work plan.	The annual work plan has input from the steering committee and from the regional partners through the regional staff (buzzardsbay.org/bbnep-work-plans-performance.htm). New CCMP web pages allow for public feedback. The Coalition conducts surveys of its membership for planning.
X	The Program has a media/marketing campaign underway, such as a social marketing campaign, with a specific behavior change message related to a CCMP priority issue(s).	The NEP's partner, the BBAC, conducts educational programs in several watershed school districts. The BBC, is currently conducting: Buzzards Baykeeper® Advocacy Program, Decision Makers Workshops, and Itty Bitty Explorers programs in addition to their Annual Swim Buzzards Bay, Watershed Ride and Golf Outing Campaigns. Information is available on the BBC website. www.buzzardsbayaction.org/about.html , www.savebuzzardsbay.org/DiscoverBay/ExploreWithUs
X	The Program has a brand/image and related graphics, tag lines, etc. that effectively promote and create widespread recognition of the Program.	The program and its partners all have graphics to promote recognition of the program. See program and partner web sites (www.savebuzzardsbay.org , www.buzzardsbayaction.org).
X	The Program has socio-economic indicators to monitor and report on the impact of outreach and public involvement activities.	The Buzzards Bay NEP website monitors visitor traffic and receives thousands of unique visitors per day. The BBC conducts priority needs surveys of membership. The Buzzards Bay NEP helps towns prepare surveys for open space plans.
X	Efforts exist to achieve and document behavior change.	Numerous tracking programs exist among partners. The towns track rates of recycling. CZM tracks beach cleanup trash volumes and boat pumpouts, DEP tracks wetland violations, etc. www.mass.gov/eea/docs/czm/coastswEEP/2012-sweep-results.pdf , www.townofbourne.com/LinkClick.aspx?fileticket=q7Vjtd9B95w%3d&tabid=438&mid=1235 , page 116, www.mass.gov/eea/agencies/massdep/recycle/reports/waste-reduction-and-recycling.html , www.mass.gov/eea/agencies/massdep/service/enforcement/enforcement-actions-2013.html
GOOD PERFORMANCE MEASURES		EVIDENCE, WORK PLAN CITATION, CLARIFYING COMMENTS
X	The Program has an active CAC or analogous structure that proposes work plan projects and is represented during Management Conference or executive committee meetings.	The Buzzards Bay NEP meets monthly with the Buzzards Bay Action Committee for program updates and the Buzzards Bay Coalition and BBAC are both members of the 6-member steering committee. www.buzzardsbayaction.org ; www.savebuzzardsbay.org
X	The Program, through the communication plan, actively conducts outreach through such things as signage, radio/TV spots, special events, public presentations, topic-specific workshops, etc.	The Buzzards Bay Coalition regularly conducts print and publication activities and workshops and these areas are summarized in their annual reports www.savebuzzardsbay.org/GetConnected/Publications/AnnualAndCampaign . Buzzards Bay NEP periodically has workshops to solicit feedback (e.g. www.buzzardsbayaction.org/agenda.html).
X	The Program supports efforts to develop and implement such things as environmental education curricula, teacher training, ecotourism programs, small grant programs, estuary celebrations, and/or citizen recognition programs.	The BBC offers a River Exploration Camp in partnership with the YMCA, Itty Bitty Explorers program, and Decision Makers Workshops (see www.savebuzzardsbay.org). The BBAC, in partnership with the BBC, is offering a marine mammal curriculum to area schools.
X	The Program shares innovations and lessons learned at regional and national meetings (e.g., Estuarine Research Federation (ERF) biennial meeting, The Coastal Society (TCS) biennial meeting, Coastal Zone (CZ) biennial meeting, NEP national meeting, etc.).	The program actively shares lessons learned at regional and national meetings including ANEP meetings, and the program director has spoken several times and at other regional state meetings.
X	The Program reports annual programmatic results to the public and stakeholders (via the Program's website, public database, hard copies, and/or other media) as specified in the NEP Funding Guidance and describes progress linked towards annual work plan goals and milestones.	All habitat/leveraging GPRA data have been submitted on time to EPA (www.epa.gov/owow_keep/estuaries/pivot/2009buzz_charts.html). Programmatic results are reported through MCZM electronic and printed newsletters (www.mass.gov/eea/agencies/czm/program-areas/communications/cz-mail/cz-mail.html), the Buzzards Bay NEP website (buzzardsbay.org), BBAC meetings and website (www.buzzardsbayaction.org/). The Coalition also issues Annual Reports, State of the Bay reports and water quality updates at least annually (www.savebuzzardsbay.org/GetConnected/Publications). The EPA Regional Project Officer receives the annual work plan that contains the annual program report that is also posted on the Buzzards Bay NEP website (buzzardsbay.org/bbnep-work-plans-

Core Element: Program Implementation and Reporting
Sub-element: **Outreach and Public Involvement**

		performance.htm). Website updates, BBC State of the Bay reports, and partner newsletters far exceed this minimum standard (www.buzzardsbay.org , www.savebuzzardsbay.org , www.mass.gov/eea/agencies/czm/program-areas/communications/cz-mail/cz-mail.html).
FULLY PERFORMING PERFORMANCE MEASURES: Baseline Expectations		EVIDENCE, WORK PLAN CITATION, CLARIFYING COMMENTS
X	Citizens are involved in Program decision-making and implementation (e.g., Citizens Advisory Committee (CAC) or analogous structure, system for public input, open meetings, public notice of meetings and events, and/or opportunities for reviewing and prioritizing outreach and public involvement projects, etc.).	The Buzzards Bay Coalition provides guidance to the Buzzards Bay NEP on public needs and program direction. The Buzzards Bay NEP established website feedback pages to solicit feedback for the development of the new CCMP (buzzardsbay.org/newccmp-shellfish.htm , buzzardsbay.org/newccmp-stormwater.htm , buzzardsbay.org/newccmp-boating.htm , buzzardsbay.org/newccmp-shorelines.htm).
X	The Program has a multi-year, strategic communication plan that includes needs, target audience(s), objectives, project descriptions, deliverables, and deadlines.	The Buzzards Bay NEP relies principally on the Buzzards Bay Coalition, which has a multi-year strategic communication plan for that organization. The delegation of communication activities has also been defined in the 2005 Buzzards Bay MOU between the Buzzards Bay NEP, BBC, and the BBAC. The Buzzards Bay NEP has outreach and communications contained in the 2013 CCMP.
X	The Program has multi-media communication tools (e.g., newsletters, annual reports, fact sheets, website, listserves, and/or videos/CDs, etc.) that are updated as needed.	The BBC's vigorous outreach program, together with the effective communication and outreach elements of both the Buzzards Bay NEP and BBC websites address this need (buzzardsbay.org , www.savebuzzardsbay.org).
X	The Program reports programmatic results to the public and stakeholders (via the Program's website, public database, hard copies, and/or other media as specified in the NEP Funding Guidance.	The Buzzards Bay NEP regularly (daily if necessary) updates its website (buzzardsbay.org) and annually updates the EPA NEPORT database(gispub2.epa.gov/NEPMap/index.html).
MINIMALLY PERFORMING PERFORMANCE MEASURES		EVIDENCE, WORK PLAN CITATION, CLARIFYING COMMENTS
	The Program does not meet all of the PERFORMANCE MEASURES in the Fully Performing level.	

Core Element: Ecosystem Status and Trends

Sub-element: **Research***

NOTE: The EPA expects that, in order to be a Fully Performing Program, all baseline expectations are met. PERFORMANCE MEASURES in the Good and Excellent levels are not required. They are benchmarks for what the Program can do to improve performance given the Program's priorities and organizational capacity.

*The Program has the option to report a "not applicable" for the Research sub-element. However, if not applicable, the Program must include justification that either (1) research is not a priority for the Management Conference, or (2) lack of resources does not allow the Program to conduct or support research efforts.

EXCELLENT PERFORMANCE MEASURES		EVIDENCE, WORK PLAN CITATION, CLARIFYING COMMENTS
X	Research is used to change policy.	The Buzzards Bay NEP does not currently fund basic research, but confers with scientists and considers new studies to refine approaches and management needs. The best example of this is our ongoing collaboration with DEP and the Massachusetts Estuaries Project undertaking studies in support of nitrogen TMDLs. Occasionally a municipal grant program award will evaluate a specific technical or scientific question, such as the 2013 Carver study of fertilizer leaching to groundwater in cranberry bogs. At the end of 2013, the Coalition formed a science advisory committee, and the Buzzards bay NEP director will serve on, and be informed by the committee.
X	The Program shares its science and technology research and findings at regional and national meetings (e.g., Estuarine Research Federation (ERF) biennial meeting, The Coastal Society (TCS) biennial meeting, Coastal Zone (CZ) biennial meeting, NEP national meeting, etc.).	The program has regularly volunteered presentations and has been asked to present at ANEP/EPA meetings. Examples from 2013 include presentation of LiDAR use for evaluating sea level rise in presentations at the Center for Coastal Studies Chase-Miller Forum, "Shifting Sands" (www.coastalstudies.org/whats-new/11-01-13.htm), and to a similar EPA sponsored meeting in January 2014 on resiliency to extreme events (www.horsleywitten.com/extremeevents/), and a presentation at a National Academy of Sciences Meeting in Woods Hole on BBNEP work toward bacteria and nutrient loading remediation in Buzzards Bay.
X	Scientific and technical reports produced by the NEP are peer reviewed.	The Buzzards Bay NEP sends technical reports to partner agencies, and where appropriate, scientists. The Buzzards Bay NEP does not generally conduct or fund basic research.
X	Program staff sits on state and national science boards and committees.	Program staff participate on an ad hoc basis on journal publication reviews and proposal review by agencies. Buzzards Bay NEP director is on the research advisory committee of the nearby Waquoit Bay NERR, and in the newly formed Buzzards Bay Coalition Science Advisory Committee.
GOOD PERFORMANCE MEASURES		EVIDENCE, WORK PLAN CITATION, CLARIFYING COMMENTS
X	Research is conducted by appropriate partners.	The Buzzards Bay NEP provides technical guidance and information to academics, researchers, undergraduate and graduate students conducting research in Buzzards Bay upon request on an ad hoc basis. For example, the Buzzards Bay NEP director and stormwater/wetland restoration specialist provided assistance and reviewed data associated with this 2012 project: dspace.smith.edu/handle/11020/24124
X	Research identifies significant, missing data that warrant additional monitoring or sampling.	In evaluating the results of monitoring funded by the Buzzards Bay NEP and others, the Buzzards Bay NEP evaluates data gaps and needs to guide monitoring programs and grants.
X	The Program uses research results to develop management options and implement solutions.	The Buzzards Bay NEP is using the results of the Massachusetts Estuaries Project studies to help towns implement recommended nitrogen TMDLs (buzzardsbay.org/nitrogen-pollution.htm). DMFs bacteria testing and shellfish bed closure statistics is important in the selection of grants in the

Core Element: Ecosystem Status and Trends

Sub-element: **Research***

		stormwater program (see buzzardsbay.org/bbnep-engineering-procurements.htm).
X	Results from research are combined and translated into plain English for reporting to the public.	Research project results are described and explained in program and partner newsletters. See program and partner web sites (buzzardsbay.org , www.savebuzzardsbay.org).
X	The Program or its partners have established a process to regularly reevaluate its research needs.	Discussions on program research needs are discussed at program staff meetings, and with agency program partners.
FULLY PERFORMING PERFORMANCE MEASURES: Baseline Expectations		EVIDENCE, WORK PLAN CITATION, CLARIFYING COMMENTS
X	The Program or its partners has a process to identify research needs.	The program is using the 2013 CCMP update and its participation in the newly formed Buzzards Bay Coalition Science Advisory Committee as a mechanism to redefine research needs in the bay and watershed.
X	The research needs are consistent with CCMP goals and actions.	Research needs are developed by staff, discussed at management committee meetings, and raised a workshops and meetings related to the State of the Bay.
X	The Program's research needs are approved by the Management Conference.	The updated 2013 CCMP identifies specific emerging issues and research needs
MINIMALLY PERFORMING PERFORMANCE MEASURES		EVIDENCE, WORK PLAN CITATION, CLARIFYING COMMENTS
	The Program does not meet all of the PERFORMANCE MEASURES in the Fully Performing level.	

Core Element: Ecosystem Status and Trends
Sub-element: **Assessment and Monitoring**

NOTE: The EPA expects that, in order to be a Fully Performing Program, all baseline expectations are met. PERFORMANCE MEASURES in the Good and Excellent levels are not required. They are benchmarks for what the Program can do to improve performance given the Program's priorities and organizational capacity.

EXCELLENT PERFORMANCE MEASURES		EVIDENCE, WORK PLAN CITATION, CLARIFYING COMMENTS
X	The monitoring plan produces sufficient data to support a comprehensive and integrated analysis of environmental conditions.	All research needs and associated revisions to the CCMP were reviewed and approved by the MC and with their active involvement in discussion committees. The new CCMP has updated monitoring plan guidance. See program web site www.buzzardsbay.org/newccmp-monitoring.htm . The BB NEP will participate in the new Buzzards Bay Coalition Science Advisory Committee. The stated purpose of the Coalition's Committee is to The Science Advisory Committee "provide advice and strategic direction to the Coalition on its current research activities, their future directions and expansion."
X	The Program or its partners seeks more efficient and cost-effective technologies for monitoring as appropriate.	Both wetlands assessment and invasive species monitoring efforts have attempted to produce valid, low cost data. As part of regional efforts to develop wetlands monitoring for restoration projects, the Program has contributed to the development of cost effective protocols for a minimal monitoring program to demonstrate restoration effectiveness. Similarly, for years the Program has worked to originally develop and then sponsor and promote the Buzzards Bay Coalition's volunteer monitoring programs to provide cost effective and valid citizen data. See program and partner web sites (buzzardsbay.org , www.savebuzzardsbay.org). The BBNEP's GIS related QAPPs for its cost-effective use of LiDAR data are found at: climate.buzzardsbay.org/flood-zone-expansion.html and climate.buzzardsbay.org/marsh-migration-methods.html
X	The Program trains volunteer groups to improve the quality of data collection.	The program 's Buzzards Bay Coalition partner has trained volunteers for monitoring water quality, marine invasive species, and wetlands. See www.savebuzzardsbay.org/ProtectBay/CleanWater/SoundScience/Baywatchers).
GOOD PERFORMANCE MEASURES		EVIDENCE, WORK PLAN CITATION, CLARIFYING COMMENTS
X	The Program uses monitoring data to assess and re-direct management actions and programs implemented under the CCMP as necessary.	The Buzzards Bay Coalition embayment eutrophication monitoring program (www.savebuzzardsbay.org/ProtectBay/CleanWater/SoundScience/BayHealthMap), together with Division of Marine Fisheries data for bacterial contamination of shellfish beds (www.mass.gov/eea/agencies/dfg/dmf/programs-and-projects/designated-shellfish-growing-areas.html), and board of health data on beach testing (mass.digitalhealthdepartment.com/public_21/index.cfm) are examples of data used to direct and redirect management action. The Coalition's water quality data is being used by MA DEP and their contractor to formulate watershed nitrogen TMDLs.
X	The monitoring plan has a schedule for review/updates that is approved by the Management Conference.	The new 2013 Buzzards Bay CCMP has an updated monitoring plan. The BBC's Science Advisory Committee plans to review the Coalition's monitoring program in 2014.
X	The Program uses monitoring data to identify gaps in knowledge.	The Buzzards Bay NEP funds studies to close information gaps (e.g. Rochester Sediment Sampling to evaluate dam removal or Marion Water Quality Testing and IDDE (Illicit Discharge Detection and Elimination) Program, or evaluates existing data sets (e.g. DMF shellfish water quality data) to identify where more testing is needed to identify upstream sources.
X	Available data is analyzed for ecosystem status and trends.	Available data is used in the development of State of the Bay efforts, as in 2003, 2007, and 2011. See State of the Bay Report on partner website. (www.savebuzzardsbay.org/document.doc?id=645).

Core Element: Ecosystem Status and Trends
Sub-element: **Assessment and Monitoring**

		Data is also available on the Buzzards Bay (at buzzardsbay.org/trends.htm and other pages).
X	The Program promotes the establishment of volunteer monitoring groups to supplement NEP monitoring efforts.	Twenty years ago, the Buzzards Bay NEP helped the two largest Buzzards Bay watershed citizen groups (Westport River Watershed Alliance and Buzzards Bay Coalition) establish their citizen water quality monitoring program. We continue to assist both organizations through either technical or financial assistance, or assist in the application of the data to management problems. We guide the use of volunteers where appropriate, but our partners maintain and oversee these vibrant water quality monitoring programs..
FULLY PERFORMING PERFORMANCE MEASURES: Baseline Expectations		EVIDENCE/WORK PLAN CITATIO
X	The Program has a Scientific and Technical Advisory Committee (STAC) or analogous structure to ensure that Program decision-making is tied to good science.	The Buzzards Bay NEP does not have standing STAC's, but consults with scientists on an ad hoc basis, or in the forum of workshops and meetings, to solicit input and guidance. In 2013, the BBNEP director agreed to participate in the Coalition's newly formed Science Advisory Committee.
X	The Program has indicators in use that are recognized by the Management Conference.	The Buzzards Bay NEP, with steering committee approval, adopted monitoring indicators on our status and trends web page (buzzardsbay.org/trends.htm) that also compliment indicators adopted by the Buzzards Bay Coalition (www.savebuzzardsbay.org/LearnTheIssues).
X	The Program has a monitoring plan in use that is recognized and/or approved by the Management Conference and: meets QA/QC requirements; <ul style="list-style-type: none"> • identifies various parties' roles and responsibilities for monitoring' • has a timetable for collecting and reporting on data; and • identifies funding needs and/or commitments for the monitoring program. 	The Program developed two QAPPs for the application of LiDAR and other GIS data to sea level rise and salt marsh expansion, approved by EPA (available at: climate.buzzardsbay.org/flood-zone-expansion.html and climate.buzzardsbay.org/marsh-migration-methods.html) The Buzzards Bay NEP also requires all recipients of all municipal grants where monitoring data is collected prepare a QAPP that is approved by EPA
MINIMALLY PERFORMING PERFORMANCE MEASURES		EVIDENCE, WORK PLAN CITATION, CLARIFYING COMMENTS
	The Program does not meet all of the PERFORMANCE MEASURES in the Fully Performing level.	

Core Element: Ecosystem Status and Trends

Sub-element: Reporting*

NOTE: The EPA expects that, in order to be a Fully Performing Program, all baseline expectations are met. PERFORMANCE MEASURES in the Good and Excellent levels are not required. They are benchmarks for what the Program can do to improve performance given the Program's priorities and organizational capacity.

*Refers to Reporting of Ecosystem Status and Trends in the Program study area.

EXCELLENT PERFORMANCE MEASURES		EVIDENCE, WORK PLAN CITATION, CLARIFYING COMMENTS
X	Reports discuss adaptive management strategies.	The Buzzards Bay NEP has been supporting adaptive management approaches to the adoption of TMDLs by municipalities given the large costs and technical uncertainties. Adaptive management principals are also promoted in our stormwater restoration efforts where there is always uncertainty in whether water quality improvements (such as shellfish bed openings) might result from specific efforts to treat stormwater.
X	Reports recognize new and emerging issues to be considered in updates or revisions to the CCMP.	New and emerging issues are discussed, with featured speakers, when appropriate at monthly BBAC meetings. New and emerging issues were added to the Buzzards Bay 2013 CCMP, including the monitoring action plan. The newly formed BBC Science Advisory Committee will meet to discuss these issues in 2014 See the program web site (buzzardsbay.org/newccmp.htm)
GOOD PERFORMANCE MEASURES		EVIDENCE, WORK PLAN CITATION, CLARIFYING COMMENTS
X	The Program has an environmental progress report that communicates ecosystem status and trends to the public every three to five years (e.g., "State of the Bay" report, Environmental Report Card, significant newspaper insert, newsletters, websites, etc.).	The BBC produced a State of the Bay report in 2003, 2007 and 2011. Additional reporting to the public occurs regularly on the NEP (buzzardsbay.org/trends.htm) and partner websites (www.savebuzzardsbay.org/document.doc?id=645).
X	Major reports: discuss the Program's goals and priorities, indicators in use, ecosystem status and trends, and maps of study area; discuss the health of the estuary (i.e., habitat, water quality, and living resources); and include conceptual models that represent the best understanding of current ecosystem processes.	Major reports are included on the web sites (buzzardsbay.org , climate.buzzardsbay.org , and www.savebuzzardsbay.org).
FULLY PERFORMING PERFORMANCE MEASURES: Baseline Expectations (REPORTING)		EVIDENCE, WORK PLAN CITATION, CLARIFYING COMMENTS and CLARIFYING COMMENTS if NECESSARY
X	The Program has an environmental progress report that communicates ecosystem status and trends to the public on a periodic basis (e.g., "State of the Bay" report, Environmental Report Card, significant newspaper insert, newsletters, websites, etc.).	The BBC produced its last State of the Bay report in 2011 (www.savebuzzardsbay.org/document.doc?id=645). Additional reporting to the public occurs regularly on the NEP and partner websites. See program and partner websites (buzzardsbay.org , www.savebuzzardsbay.org)

Core Element: Ecosystem Status and Trends

Sub-element: **Reporting***

X	Major reports: are linked to CCMP actions, goals, priorities, indicators, and monitoring systems; feature a narrative description of the Program's study area in plain English explaining the relationship between human activities and impacts on resources; and are approved by the Management Conference.	The new CCMP includes extensive citations and references to supporting documents (see http://buzzardsbay.org/newccmp.htm). Conversely, new reports include references to or links to the Buzzards Bay CCMP or website (see examples posted at climate.buzzardsbay.org/floodplain-expansion-results.html). In a related way, whenever one of our partner's ask for support letters on a grant proposal, the Buzzards Bay NEP now cites the specific action plan and CCMP in our letter so that the state or federal granting agency can better evaluate the relevance of the proposal (examples upon request).
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Section 3: Work plan Narrative Summary

EPA's Program Evaluation submissions guidance requires a synopsis of NEP activities for the review period that includes a narrative summary of work plan activities. EPA advises that NEP activities specified in their work plans be described in a narrative format that address the specific "work plan core elements" and sub-elements shown in Figure 7.

To meet this submission requirement, for work plans titled FY09, FY10, FY11, FY12, and FY13, we describe specific work plan tasks, goals, and activities, and stages of progress toward achieving the NEP's environmental milestones and targets. We have highlighted unique or innovative approaches or activities where appropriate. We have organized the work plan narrative summary using our past work plan structures for the most part and used EPA's recommended logic model to the extent possible. In this effort, we have conformed to EPA's terminology defined as follows:

<p>Definitions:</p> <p>Activities: NEP work plan projects</p> <p>Partnerships: local community partner agencies, organizations, and/or individuals</p> <p>Outputs: products and services, deliverables</p> <p>Short-term outcomes: changes in knowledge, learning, attitude, and skills, raising awareness amongst partners</p> <p>Intermediate outcomes: changes in behavior, practice, decisions, and involvement among partners</p> <p>Pressures: changes, positive and/or negative, related to specific quantitative targets</p> <p>Long-term outcomes: changes in condition of the state, when possible</p>
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To demonstrate habitat accomplishments related to work plan goals and activities, we have included GPRA pie charts showing total acreage protected and restored by habitat type for the years covered in the PE cycle using NEPORT and the Performance Indicator and Visualization Outreach Tool (PIVOT) data. We provide links to maps, data, and other information on our website. In our reporting, we use the definitions in the call-out above.

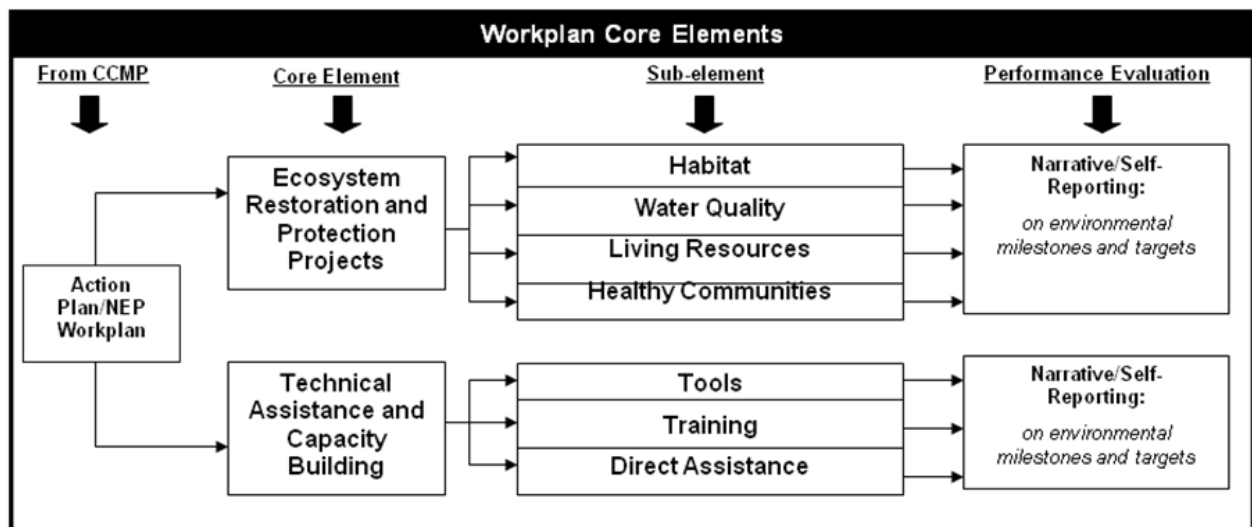


Figure 7 Work plan Core Elements and Sub-elements identified in EPA's 2011 NEP Program Evaluation Guidance.

When work plan goals and activities relate to the NEP involvement in state and local CWA activity, we include a description of the NEP role (primary, significant, support) in bringing about environmental improvements through WA implementation, as requested in the Annual Funding Guidance.

Where applicable we have included a description of external factors (e.g., institutional barriers, emerging issues) affecting the NEP work plan goals and/or progress, and related adaptive management strategies to address these issues. We have also identified ways EPA can support our efforts to address these obstacles.

To a large degree, all these aforementioned summaries already exist in each annual workplan. In this section, however, work plan tasks are organized under the headings described in Figure 7. Where more detail is sought, we refer the reader to the respective action plan or corresponding web link if provided.

Where appropriate, we highlight activities that support core Clean Water Act programs including:

- Strengthening Water Quality Standards
- Improving Water Quality Monitoring
- Developing Total Maximum Daily Loads (TMDLs)
- Controlling Nonpoint Source Pollution on a Watershed Basis
- Strengthening National Pollutant Discharge Elimination System (NPDES) Permits
- Supporting Sustainable Wastewater Infrastructure

WORK PLAN GOAL: Ecosystem Restoration & Protection

Sub Element: Habitats

Activities (summary of related work plan projects)

This section summarizes activities under Task 1 in the FY09-FY13 workplans: Wetlands and habitat protection and restoration. Related activities and supporting action to the category (like stormwater management or the herring atlas and eelgrass mapping work) can be found in the "water quality" and "living resources" sub element headings respectively. To avoid repetition and duplication of information, refer to the information and links contained in those sub elements. Some of the projects described in this section were funded all or in part by the Buzzards Bay municipal grant awards related to habitat restoration or land protection projects and grants (details and links at: buzzardsbay.org/grantsaw.htm). Other projects were the result of Buzzards Bay technical assistance, and some were the work of partners where the Buzzards Bay NEP provided some form of support or technical assistance. Some activities relate to updates or posting of inventories found at: buzzardsbay.org/wetlands.htm.

Partnerships

For wetland restoration and habitat protection projects, the lead partners were typically municipalities (see the grants awarded link above for those where we provided financial support), the Buzzards Bay Coalition, area land trusts, USDA NRCS or sometime the Massachusetts Wetland Restoration Program, CZM, or private land owners. The Coalition partnership is part of the Buzzards Bay work plan, providing match on various tasks, including in-kind services and resources for land protection, with the Buzzards Bay NEP providing GIS mapping and other technical support to the Coalition. In these projects, the Coalition is often the principal coordinator in bringing together municipal boards, land trusts, and private donors to achieve large land acquisitions. The USDA partnership is also an important one because USDA details a staff person to the Buzzards Bay NEP office and this person (Bernadette Taber; funded partially by Buzzards Bay NEP funds) works on both stormwater remediation projects and wetland restoration projects, and this position also helps leverage additional technical support from USDA NRCS.

With respect to our interconnectivity with our partners, some interesting interactions arise. For example, the Buzzards Bay Coalition led the charge to acquire and restore [Marsh Island in Fairhaven](#), with funding from the New Bedford Harbor Trustee Council. The Buzzards Bay NEP was involved with this effort, providing natural resource mapping that was used during the property acquisition process. Subsequently, these maps and graphics were used to secure a Conservation Restriction and in press releases. The Fairhaven Conservation Commission requested that the Buzzards Bay NEP review the permit application for the restoration plans.

Selected Outputs

Our efforts to help towns and applicants better comply with local, state, and federal wetland laws, and our efforts to help towns restore impaired wetlands continue to meet broad Clean Water Act goals. Our work focuses in improving local capacity, improved enforcement, and facilitating wetland and habitat protection and restoration efforts.

A Buzzards Bay NEP 2009 municipal grant to prepare designs for a tidally restricted salt marsh at Pico Beach, Mattapoisett ([newspaper article](#)), received a MEPA certificate in 2011 (see: www.env.state.ma.us/mepa/mepacerts/2011/sc/enf/14686enf.pdf). Funds have not been secured for construction.

In 2009, the Buzzards Bay NEP gave a \$7,500 design grant to restore wetlands in a mostly abandoned cranberry bog (Grassi bog) acquired by the town of Marion (see buzzardsbay.org/grassi-bog-restoration.htm). After a preliminary scoping of the effort, and with support of the Buzzards Bay NEP, the

town secured instead a \$100,000 USDA NRCS implementation grant, resulting in the return of the original grant to the Buzzards Bay NEP. In the end, the Buzzards Bay NEP stormwater and wetland restoration specialist helped oversee this grant and the program provided other technical support, such as preparation of LiDAR based elevation maps at resolutions of less than 1 foot. Similar restoration work was done at the Goldavitz bog, also in Marion. Both these projects involved restoring water flow through the bogs and changing standing water elevations so the bogs would eventually develop through succession into emergent marshes.

The Buzzards Bay NEP revised its online atlas of tidally restricted sites in 2009 and 2013 to include updated restoration sites identified in the original 2002 atlas (go to buzzardsbay.org/smatlasmain.htm). In 2013, the Buzzards Bay NEP provided its tidal restriction database to the Massachusetts Wetland Restriction Program, where they are merging it with other statewide databases (go to the [Massachusetts wetland restoration](#) page). In the future, the Buzzards Bay NEP is expecting the Wetland Restoration Program to be more involved with tracking wetland restoration efforts in Buzzards Bay.

Selected Outcomes

Short-term outcomes under this heading are principally defined as the number of habitat acres protected and restored, including the development of geographic information systems to enable tracking protected lands. Intermediate outcomes relate to the total number of wetland and habitat related goals and objectives in the Buzzards Bay Comprehensive Conservation and Management Plan that have been achieved, and the amount of leveraging and increased capacity to protect and restore important land and habitat. The long-term outcome is ultimately an increase of high-quality wetlands and coastal habitat in the Buzzards Bay watershed. In many ways, the outcomes support the Clean Water Act core programs, as well as state and local wetland protection and restoration efforts.

In March 2009, the Coalition received a \$49,000 grant from the American Rivers – National Oceanic and Atmospheric Administration (NOAA) River Grants Program, to kick-start the Sippican River Revitalization Initiative. The project sought to determine the best ecological options to restore the natural flow and improve habitat for a number of important fish species in the river, including severely depleted river herring populations. The project was the only one selected for funding in the Northeast region and was one of only seven funded nationally.

A large number of sites were also protected. In June of 2009, the Buzzards Bay Coalition and the Town of Fairhaven permanently protected 52 acres of forest land, called Nasketucket Woods, comprising a significant portion of the inland watershed to the Nasketucket River, Austin Pond, and downstream to Little and Nasketucket Bays. The Buzzards Bay NEP provided \$25,000 to the town of Fairhaven in 2009 toward this project, plus additional GIS mapping and other technical assistance. The Coalition and the town were able to leverage considerable state and local funds for the acquisition. The area is now owned and managed by the Fairhaven Conservation Commission. The land includes forest, freshwater wetlands, perennial streams, a vernal pool, and protected habitat for rare species, including the Eastern box turtle, in the immediate vicinity of the Nasketucket River. The property links to several other conservation areas, the Mariner Soccer Field complex and the East Fairhaven elementary school. The Coalition helped facilitate the transaction by securing the option to purchase from the landowner and assisting the town with raising the necessary funds through state and local sources. A local grassroots group, Friends of Nasketucket, helped with the acquisition by building support at Fairhaven town meeting. (www.savebuzzardsbay.org/document.doc?id=394).

The Weweantic River is the largest tributary of Buzzards Bay and contains a diverse ecosystem of plant and animal species. Development along the river has caused significant damage to these resources but starting in 2011 with the protection of 48 acres along the river in Wareham the Coalition began a plan to protect and restore the river.

In the fall of 2012, the Coalition collaborated with the Falmouth 300 Committee, Salt Pond Area Bird Sanctuaries, and community members to restore salt ponds overwhelmed by invasive *Phragmites*. Some of these projects were developed by the Buzzards Bay NEP under an earlier NAWCA grant that took years to complete (see buzzardsbay.org/nawca.htm).

Several sites were restored during the study period that involved technical or financial support or other partnership with the Buzzards Bay NEP. These included restoration of freshwater flows in wetlands in Wareham (274 Main Street Realty Trust), and two freshwater wetlands in Marion (Grassi and Goldavitz bog) through a USDA NRCS grant with Buzzards Bay NEP staff assistance or oversight, completed in 2013.

Intermediate outcome

The Buzzards Bay NEP technical support to the Coalition's efforts, area land trusts, and municipalities has only strengthened during the past 5 years. These successful collaborations have made Buzzards Bay watershed grants more competitive in the face of shrinking land protection budgets or redirection of funds to other geographic areas.

Pressures affecting outcomes

Changes in pressure targets in this category include state, local, and federal funding levels for land protection and restoration are now the chief limiting factor in these efforts. Both the short-term and long-term outcomes in this category are the same: long-term protection of wetlands and habitat, all the short-term accomplishments are also long-term accomplishments.

Additional Information

Grants awarded: buzzardsbay.org/grantsaw.htm

All GPRA sites: buzzardsbay.org/bbnep-gpra-reports.html

Buzzards Bay NEP wetlands page: buzzardsbay.org/wetlands.htm

WORK PLAN GOAL: Ecosystem Restoration & Protection

Sub Element: Water Quality

Activities

This section principally includes selected activities under Task 3 in the FY09-FY13 workplans, Task 6 - Buzzards Bay Citizens' Water Quality Monitoring, and Task 10 - Other Specialized Technical Assistance in the FY12 and FY13 work plans where the Buzzards Bay NEP provided support to Massachusetts DEP in the review and development of nitrogen TMDLs. Some of the projects described in this section were funded all or in part by the Buzzards Bay municipal grant awards related to habitat restoration or land protection projects and grants (details and links at: buzzardsbay.org/grantsaw.htm). Other projects were the result of Buzzards Bay technical assistance, and some were the work of partners where the Buzzards Bay NEP provided some form of support or technical assistance. Some activities relate to updates or posting of inventories found at: buzzardsbay.org/stormwater-remediation-projects.htm.

Partnerships

For water quality restoration projects, the lead partners were typically municipalities (see the grants awarded link above for those where we provided financial support). The USDA partnership was also essential in that the Buzzards Bay NEP stormwater specialist is on a USDA detail to the Buzzards Bay NEP office and this person (Bernadette Taber; funded partially by Buzzards Bay NEP funds) works on both stormwater restoration projects and wetland restoration projects, leveraging additional technical support from USDA NRCS.

Selected Outputs

The Buzzards Bay NEP's grant and technical assistance programs continue to fund or advance progress on EPA's Clean Water Act core programs. One of the most important outputs with respect to water quality is that through our grant and technical assistance programs, the Buzzards Bay NEP helps towns develop stormwater treatment designs. These designs lay the foundation for future support, financing, and implementation as described in the "outputs" heading.

For example, in partnership with the municipalities in the Buzzards Bay watershed, and as part of our municipal grant program, the Buzzards Bay NEP periodically seeks engineering services to assist the towns develop stormwater treatment designs to reduce stormwater volumes and pollutants contributing to water quality impairments in Buzzards Bay and its surrounding watershed. Whenever we seek such services, we post a Request for Responses (RFR) on the state's procurement website.

Besides stormwater issues, the Buzzards Bay NEP also helps our partners address nitrogen management issues. For example, between 2009 and 2012 (and actually going back to 2003), the Buzzards Bay NEP assisted the Wareham Board of Selectmen and Wareham Clean Water Committee develop revised draft bylaws to address nitrogen loading. The NEP also began a collaboration with the Buzzards Bay Coalition, where the citizen's group began hosting facilitated meetings involving town officials, cranberry growers, and other stakeholders. In the fall of 2010, the Chairman of the Clean Water Committee brought an article to town meeting to require that new development with wastewater exceeding 3,300 gpd meet a no-net-nitrogen increase standard. This bylaw, Article 80 on the town warrant, passed in November 2010. Specifically, the bylaw requires the Board of Health not to issue a permit for "any residential construction equal to or greater than ten (10) homes/units, totaling 3,300 GPD (Gallons per Day) or more, unless the standard of Nitrogen Net Zero has been met."

However, concerns were raised about how the no-net-nitrogen increase standard would be achieved on a single lot, and opponents successfully brought to the Wareham spring 2011 town meeting an article to repeal the bylaw (Article 42), which was still under review by the Attorney General's office. In a June 10, 2011 letter to the town, the Attorney General noted the original bylaw is now moot, but that she would have disapproved the bylaw "on grounds of vagueness" because it did not specify how an applicant could meet the nitrogen net zero performance standard.

The Buzzards Bay Coalition then began working with the Board of Health to develop regulations that meet the terms and goals of this bylaw (see www.savebuzzardsbay.org/document.doc?id=564). The draft was originally rejected, and a new draft was developed by the Clean Water Committee with support by the Buzzards Bay NEP. This new set of regulations passed in 2013. In July 2013, the Coalition awarded a guardian award to the Wareham Board of Health for passing the regulations.

Besides these direct design projects, between 2009 and 2012, the Buzzards Bay NEP worked with various towns to develop stormwater regulations. For example, in the spring of 2009 the Westport Board of Health approved stormwater regulations drafted by the Buzzards Bay NEP. In 2011, we helped the Westport Planning Board to develop LID stormwater regulations that complimented the Board of Health Stormwater Regulations. In 2012, the Buzzards Bay NEP helped the City of New Bedford with stormwater regulations in support of their MS4 permit. In 2011, the Buzzards Bay NEP drafted new stormwater regulations for the Marion Board of Health at their request, and they are currently under review by the town. In 2013, the Buzzards Bay NEP began reviewing stormwater regulations for the Town of Bourne at their request.

In partnership with the City of New Bedford Harbor Development Commission, the Buzzards Bay NEP awarded a \$16,500 contract to the firm Fuss & O'Neill for the creation of a stormwater plan for the city-owned piers along the New Bedford Harbor waterfront. The contract was awarded in December 2009 and work completed in by July 2010.

In the summer of 2011, a municipal minigrant for \$20,000 was awarded to the Town of Bourne for the preparations of designs for stormwater treatment at Buttermilk Way. At the Town of Bourne site, designs were needed to treat stormwater discharging bacteria and other pollutants to Cohasset Narrows at the mouth of Buttermilk Bay. In partnership with the Town of Bourne, the Buzzards Bay NEP oversaw and administered the engineering contract. Through meetings and a preliminary site investigation, the Buzzards Bay NEP determined there was inadequate space on the public road layout to treat stormwater for this site. The Buzzards Bay NEP and the town then reached out to the Massachusetts Maritime Academy to propose using one of their student parking lots as a site to treat stormwater. Once this approach was worked out, the Buzzards Bay NEP issued a RFR in April 2012, and selected a vendor. Designs were completed by October 2012 and the town received funds to implement the designs (see below).

In 2012, in partnership with the Town of Wareham's Community and Economic Development Authority (CEDA), the Buzzards Bay NEP used \$20,000 in federal funds to hire Green Seal Environmental, Inc. to develop stormwater treatment designs for the Main Street drainage system to reduce stormwater-related pollutants discharging to the Wareham River estuary on the Wankinco River. The ultimate goal of the completed project was to help reduce bacteria discharges to the upper estuary, which helps contribute to possible reductions or duration of current closures to shellfish resources. The Buzzards Bay NEP staff worked with Green Seal, Wareham Public Works, and CEDA, to decide upon the most practical stormwater management solutions, given the site conditions and drainage area. These designs were completed in 2013, and the town has sought state funding to implement the designs (see buzzardsbay.org/wareham-mainst-engineering-procurement.htm).

Currently (issued in 2013), the Buzzards Bay NEP awarded a \$20,000 grant to develop engineering designs to treat a stormwater discharge at Drift Road in Westport. The RFR was posted in April 2013, and in August 2013, the Buzzards Bay National Estuary Program awarded a \$20,000 contract to Polaris Consultants, LLC to develop the stormwater treatment plans for the Drift Road drainage system. The work is underway and will be completed by spring 2014. This project involves assessing drainage of a municipal stormwater system into the East Branch of the Westport River via Sam Tripp Brook. This section of the Westport River is on the state's 303(d) list of impaired waters for bacteria and nitrogen and is closed to shellfishing for portions of the year. Treatment of the discharge is expected to contribute to improvements in water quality. The river crossing was recently the site of a new river culvert installation. The Buzzards Bay NEP is now working with town officials, the Westport River Watershed Alliance, and landowners to develop conceptual designs or options for the site. These conceptual designs will be finalized after review and meetings with abutters. Go to our Westport Drift Road Stormwater page (buzzardsbay.org/drift-road-westport-stormwater.html) for more up-to-date information on this project. The Buzzards Bay NEP produced a flyer for this project for abutters (available at buzzardsbay.org/westport/bmp-potential-location-table.pdf). The Board of Selectmen liked this brochure and requested an additional 400 copies for distribution at their Fall 2013 Town Meeting.

Through CZM, the Buzzards Bay NEP also provides technical reviews of projects filed with MEPA that may affect water quality in the Buzzards Bay watershed.

Throughout the entire period, the Buzzards Bay NEP continued to fund and provide technical support to the citizens' water quality monitoring program, which is being used as the basis for updates to the state's water quality assessment and integrated list of waters standards. The data from this program is also being used to establish nitrogen total maximum daily loads (TMDLs) for Buzzards Bay embayment watersheds by the Massachusetts DEP. Each year the Coalition submits a data report and disk for the year's monitoring. In 2013, more than 132 volunteers participated in the Buzzards Bay Water Quality Monitoring Project's 21st water quality sampling season between May and September.

Additionally, our ongoing and expanding watershed stormwater atlas and data set initiative not only helps

towns map and evaluate their stormwater, but also is helping municipalities to better comply with the NPDES Phase II MS4 stormwater program, and even placing towns on the fast track to take action as compared to other communities around the Commonwealth. This work, together with our efforts with towns to evaluate sewer and nitrogen removal onsite technology that could be used to meet soon to be enacted nitrogen TMDLs, is helping municipalities better understand the need for sustainable wastewater infrastructure.

Selected Outcomes

The Buzzards Bay NEP's grant and technical assistance programs continue to fund or advance progress on EPA's Clean Water Act core programs. As noted above, the Buzzards Bay NEP financed stormwater treatment designs that lay the foundation for the construction and implementation of those designs through municipal funding, or through grant programs such as 319 non-point source grants, or MA CZM's CPR program. These projects all involve the Buzzards Bay NEP developing preliminary concepts to treat stormwater, developing the request for responses for engineering firms to develop the designs, then subsequently working with the towns to secure funds and implement the designs. Descriptions of these efforts can be found on our stormwater remediation projects page (buzzardsbay.org/stormwater-remediation-projects.htm) and our stormwater engineering design procurement page (buzzardsbay.org/bbnep-engineering-procurements.htm).

In 2009, the Town of Fairhaven received a \$278,100 grant from DEP 319 (Northern Fairhaven New Bedford Inner Harbor Drainage Area LID Stormwater Enhancements) based on some earlier work with the Buzzards Bay NEP. The Buzzards Bay NEP was a partner on the grant, and helped review and develop stormwater designs in 2010 and 2011. The work on this project was complete in 2012.

A similar success was achieved in 2011 when the Town of Westport, using stormwater designs developed with Buzzards Bay NEP guidance and funding from 2009 (see buzzardsbay.org/westport-engineering-procurement.htm), received a \$234,096 319 NPS grant to treat stormwater at the Westport Middle School using a variety of stormwater best management practices. The Buzzards Bay NEP collaborated with the Westport River Watershed Alliance and the Town of Westport on this project, and the history of the effort is described on this webpage: wrwa.com/whats-being-done/. Actual construction of the designs was completed in 2012.

For example, an important implementation success announced in 2012 was that the Town of Bourne, using stormwater designs developed with Buzzards Bay NEP guidance and funding, would received an initial \$24,013 Massachusetts CZM Coastal Pollution Remediation (CPR) grant to implement the first phase of designs, and in 2013, the town received an additional \$125,000 from CZM. The work is ongoing, and the MMA contributed funds and an education component to the work. This and other Buzzards Bay successes are also noted at: www.mass.gov/eea/agencies/czm/program-areas/coastal-water-quality/cpr/cpr-success-stories.html

At the request of the Town of Fairhaven DPW, the Buzzards Bay NEP prepared a buildout analysis for the town. The buildout analysis was used by the town to evaluate future sewer needs, determine needs for a new municipal Comprehensive Water Management Plan, and for the town to provide data to the Massachusetts Estuaries Project.

The Buzzards Bay NEP created a parcel level coverage for the Town of Gosnold. Such data is essential for land use planning, adopting environmental zoning regulations, identifying public lands to ensure their protection, and to help identify future acquisition and protection of sensitive wetlands and plant and animal wildlife.

Pressures affecting outcomes

State, local, and federal funding levels for stormwater treatment and other restoration initiatives are now

the chief limiting factor in these efforts. Of particular concern in the Buzzards Bay watershed are new rules that essentially preclude the awarding of 319 grants to MS4 areas, which in the case of the Buzzards Bay watershed covers most stormwater discharges. Municipal interest in developing a project and the availability of local match are also limiting factors. The Buzzards Bay NEP can handle requests for technical assistance depending upon workload and ongoing projects. Turnaround time in receiving data and data analysis from the Coalition's analytical laboratory. We provide technical assistance on a first come first serve basis and as allowed by available staff time.

Additional Information

CZM CPR success stories page at: www.mass.gov/eea/agencies/czm/program-areas/coastal-water-quality/cpr/cpr-success-stories.html.

DEP 319 2009-2012 grant summaries: www.mass.gov/eea/docs/dep/water/319sum12.pdf

Buzzards Bay NEP municipal grant awards summary on: buzzardsbay.org/grantsaw.htm

WORK PLAN GOAL: Ecosystem Restoration & Protection

Sub Element: Living Resources

Activities

Many of the wetland related activities have already been covered in the earlier section on habitats. This section summarizes selected activities under in the workplans including eelgrass mapping, herring atlas, and shellfish bed closure mapping and tracking. We omit discussion of accomplishments already included in the wetlands page. Water quality improvements that relate to opening shellfish beds are covered in the water quality section. In this section, we describe the posting of a herring atlas and eelgrass atlas pages on the Buzzards Bay NEP website. During this period, the Buzzards Bay NEP evaluated shellfish bed closures, shellfish catch, and shellfish bed closures for the Buzzards Bay Coalition's 2011 State of the Bay report.

Partnerships

Partnerships in this category include the Buzzards Bay municipalities, the Buzzards Bay Coalition, the Division of Marine Fisheries (who provide GIS data and maps of shellfish bed closures), and the Massachusetts Wetland Restoration Program.

Selected Outputs

The herring atlas page (impaired passages) and the eelgrass map page are posted at buzzardsbay.org/herring-atlas.htm and buzzardsbay.org/eelgrass.htm respectively, including a new eelgrass historic trend analysis at buzzardsbay.org/eelgrass-historical.htm.

At the same time, the Buzzards Bay NEP also analyzed for the first time, additional archival photographs from the 1950s, 1960s, and 1970s, and newer aerial photography from 2005-2010 to develop a more comprehensive trend of changing abundance of eelgrass in embayments around Buzzards Bay. This allowed us to define with more precision the historical recovery of eelgrass in Buzzards Bay after the wasting disease, detail trends for specific embayments and outer coast areas, and identifies new declines evident during the past 20 years. This new analysis helped us refine average abundance of eelgrass for each decade between the 1950s and today. All these new maps and aerial surveys will be contained in a new report of historical changes in eelgrass in Buzzards Bay to be released later in 2014, with additional maps showing assumed eelgrass boundaries on the original source photographs to facilitate comment and review of our approaches.

During 2009, the Buzzards Bay NEP worked with the Division of Marine Fisheries to update shellfish bed closure GIS coverages to cover the July 1, 2009 status maps.

A revised copy of the 1980s eelgrass GIS data set was posted on line with additional photographs of historical coverage.

Expanded watershed stormwater atlas and data were posted on Buzzards Bay NEP website.

Selected Outcomes

The Buzzards Bay Coalition issued its 2011 (triennial) State of the Bay report in March 2012. The Buzzards NEP gave technical support analyzing data and preparing maps for the report. In particular, the Buzzards Bay NEP was the lead in developing the measures for eelgrass abundance trends and bacteria pollution.

The measure of bacteria pollution is tracked by the state using shellfish bed closures. During the fall of 2011, the Buzzards Bay NEP worked with the Division of Marine Fisheries to update shellfish bed closure GIS coverages to cover the July 1, 2011 status maps.

Pressures affecting outcomes

Factors delaying the eelgrass atlas project included staff time needed for GIS work, data analysis, QA, and other technical assistance demands, unanticipated demands on staff time and need for other technical assistance demands and requests by watershed municipalities affects the program's abilities to meet these projects. Availability of simple web based mapping solutions (like Google maps API) precluded deployment of some of the interactive maps now posted online. In earlier versions of some atlas webpages, maps posted were most often static, or provided as kml files. In 2012 and 2013, many of the maps were converted to more versatile interactive maps.

With respect to calculating an eelgrass index score for the State of the Bay report, because there was an insufficient number of embayments with eelgrass mapped by DEP for a new score for the 2011 State of the Bay report, the Buzzards Bay NEP undertook a review of other publically available recent aerial imagery, to expand the geographic extent of eelgrass maps on which to estimate a new eelgrass score, as described in more detail at buzzardsbay.org/eelgrass-historical.htm.

Additional Information

Buzzards Bay NEP wetlands page: buzzardsbay.org/wetlands.htm

WORK PLAN GOAL: Ecosystem Restoration & Protection

Sub Element: Healthy Communities

Activities

The U.S. EPA's "Healthy Communities" goals relate to efforts to reduce environmental risks to protect and improve human health and the quality of life. Specific actions may include actions to assess, understand, and reduce environmental and human health risks, increase collaboration through community-based projects, build institutional, and community capacity to understand and solve environmental and human health problems, and achieve measurable environmental and human health benefits.

Some of the elements mentioned above are incorporated in some of the other workplan goals, so in this section discuss only a few tasks, including Task 13 - Climate Change Vulnerability (expansion of the flood plain) in the FY12 Workplan, and Task 14 - New Bedford climate ready estuary task in the FY13 workplan. Both of these tasks relate to increased vulnerability of coastal populations, including environmental justice communities in New Bedford, to potential loss of property and life that may relate to increased risks of damage from coastal storms and extreme weather related to climate change and sea

level rise.

We also touch upon some of our work related to the NRDA process for the Bouchard oil spill because it related to legal settlements with property owners and the state, and the overall quality of living of coastal property owners affected by the spill.

Also related to this Healthy Communities sub-element is our work to open closed shellfish beds and swimming beaches contaminated by bacteria, and which pose a human health risk. To avoid duplication, we refer the reader to efforts described in the previously water quality element, and to the water quality trends showing a continued decline in permanently closed shellfish beds in Buzzards Bay due to the continued progress of municipalities to reduce pathogen discharges in coastal waters (buzzardsbay.org/shellfish_closures_buzzards_bay.htm).

Partnerships

BBAC and municipalities for floodplain expansion studies. Acushnet, New Bedford, and Fair haven for climate ready estuaries study of New Bedford area, as well as floodplain expansion in all other communities. Partnership also with CZM and the FEMA liaison at the Division of Conservation and Recreation, and MassGIS.

Selected Outputs

Reports for six communities were prepared showing the 100-year floodplain with sea level rise (go to climate.buzzardsbay.org/floodplain-expansion-results.html). This work was undertaken in partnership with MCZM. Originally this work was to be accomplished for just one community through a solicitation, but because Massachusetts CZM had a similar pilot project in its workplan, and because this project could be easily extrapolated to other communities, the Buzzards Bay NEP and MCZM agreed to work together to conduct this effort for all communities in the Buzzards Bay watershed. The Buzzards Bay NEP drafted a QAPP based on techniques developed in the preliminary analysis. The QAPP was approved in the fall of 2012. By January 2013, the Buzzards Bay National Estuary Program completed town-reports using LIDAR data to extrapolate the 100-year flood plain by 1-, 2- and 4-foot increases in elevation to illustrate the expansion of the flood zone. FEMA never issued draft maps for Bourne or Falmouth, so they were not included. Draft reports were sent to all the towns earlier this year and all draft reports and data sets area available online on this page: buzzardsbay.org/floodzone-expansion-slr.html.

Selected Outcomes

An important outcome of this effort was that we identified numerous errors in the new FEMA flood insurance maps. Essentially, some properties were included in the flood plain when they were not, and vice versa. FEMA retracted and corrected areas on two maps because of our work. The state's Hazard Mitigation Officer has asked us to produce a report and GIS data set summarizing all discrepancies between our analysis and the floodplain maps. We hope to finish this report in May 2014. The FY12 task to identify the expansion of salt marshes with sea level rise began in early 2013. This task is ongoing, and should be completed by July 1, 2014. This work was to identify how marshes might expand and migrate inland with sea level rise. We are particularly focusing on areas identified in our atlas of tidally restricted salt marshes. Specifically, the Buzzards Bay NEP using LiDAR data sets, particularly the digital elevation models, to evaluate the existing salt marsh high marsh boundary elevations based on field GPS position data. To that, we are adding site-specific elevation and 1-, 2-, and 4-foot increases in elevations to illustrate the likely inland migration of salt marshes with sea level rise. This project is explained more fully on this webpage: buzzardsbay.org/salt-marsh-expansion-slr.html.

Pressures Affecting Outcomes

Targets include staff time limitations due to other projects and unanticipated new tasks. In the long-term, agency funding and engagement will be important to move the climate related activities forward.

Coalition Outcomes

We want to highlight in this section two activity events conducted annually by the Buzzards Bay Coalition because they are a clever nexus between human health, healthy outdoor living, show the value of clean water, and the overall benefits of a healthy ecosystem. The first of these events are the Buzzards Bay Annual Swim that has been held every year for the past 20 years. A 1.2-mile open-water swim across outer New Bedford Harbor, the swim is the largest annual fundraising event held by the Buzzards Bay Coalition, and is used to increase awareness and support for the restoration, protection, and sustainable use and enjoyment the bay and its watershed. For more than a decade, hundreds of swimmers from ages 12 to 83 have proven that the Swim is for every age, ability, shape, size, and fitness level. The course draws serious competitors, first-timers, families, teams, and everyone in between (www.savebuzzardsbay.org/Support/BuzzardsBaySwim). The Buzzards Bay Coalition has also held a "Ride Buzzards Bay" for the past 7 years where residents can enjoy the natural beauty of the watershed. Press releases, newsletter articles, and educational materials are available before, after, and during each event.

Additional Information

Buzzards Bay NEP climate study of New Bedford, Fairhaven, and Acushnet:
climate.buzzardsbay.org/new-bedford-climate-adaptation.html.

WORK PLAN GOAL: Technical Assistance and Capacity Building ***Sub-element: Tools***

Activities

This section summarizes selected activities under Task 12 - Website Maintenance and Innovation in the FY09-FY13 workplans. We also highlight the interactive mapping tools that relate to sea level rise at climate.buzzardsbay.org. Other tools can also be found on various webpages at buzzardsbay.org.

Partnerships

Municipalities, Buzzards Bay Coalition, Buzzards Bay Action Committee, and Massachusetts DCR state hazard coordinator

Selected Outputs

The Buzzards Bay NEP's website remains one of the principal communication tools for the Buzzards Bay NEP. We use the site to promote new approaches, receive feedback, communicate successes, track trends in water quality, track performance of government in implementing the CCMP, express the views and concerns of the NEP Steering Committee, create a forum for new initiatives and ideas of our partners, and support other obligations and tasks identified in our work plan. The website is also used to post results of the bay indicators and documents relating to the oil spill, and post procurement notices and grant announcements. The Buzzards Bay NEP has also been systematically scanning all old Buzzards Bay NEP reports and gray literature related to Buzzards Bay and posting it on our website. We post tools and databases that improve local capacity to manage and protect the natural resources of Buzzards Bay. Throughout the review period, we continued to implement major revisions and streamlining of the Buzzards Bay website, including pages on the new CCMP, with review comment submission pages, and pages to track municipal actions to implement low impact development. Currently there are more than 500 pages, nearly 700 downloadable pdf files and reports, as well as numerous graphic files and maps, for a total space use of 4.9 GB. The website currently receives more than 1200 visitors per day, and it remains a major resource for information about Buzzards Bay.

Some of the tools include the online atlas of tidally restricted salt marshes

(buzzardsbay.org/smatlasmain.htm). We also periodically update our stormwater atlas files at buzzardsbay.org/stormatlas.htm. These and our other online atlases continue to drive funding and restoration efforts around Buzzards Bay.

In some cases, we also fund municipalities to create tools for their own websites. For example, in 2010, the Buzzards Bay NEP provided a grant to the Town of Dartmouth to implement an on-line mapping tool that showed parcels, wetlands, flood zones, and other information (available at: www.mapgeo.com/dartmouthma/).

In 2013, we launched the new sub-domain climate.buzzardsbay.org. This new website includes many tools related to the Buzzards Bay NEP's climate adaptation and sea level rise projects of the past three workplans. Examples include interactive Google Earth maps showing updated FEMA maps with their potential expansion with sea level rise, and migration of salt marshes and the high tide line with sea level rise.

Selected Outcomes

The tools posted in the short-term improve public and governmental understanding of Buzzards Bay environmental issues, increase productivity of partners needing information or Buzzards Bay documents, and increase public and financial support for action to protect and restore Buzzards Bay. In the intermediate term our expectation is that there will be increased citizen and government actions to protect and restore water quality and living resources. This is often seen where projects in one of our impaired wetland or stormwater atlases are selected by municipalities as a priority for work, or by agencies as a priority for funding. Ultimately, the long-term benefit of these tools is in meeting the goals and objectives of the Buzzards Bay Comprehensive Conservation and Management Plan.

In some of the other categories covered under this review, such as training, tools are created by Buzzards Bay NEP staff. For example, between 2011 and 2013, the Buzzards Bay NEP wetland specialist created three pocket field guides covering wetland regulations, ferns, and hydric soil evaluations. These pocket guides are available at buzzardsbay.org/wetlands-delineation.htm.

The Buzzards Bay NEP distributed 2-ft contour LiDAR data and LiDAR digital elevation models to the municipalities and engineering firms. This data is being used by communities to identify areas susceptible to sea level rise and storm surge. Using this data, MA CZM prepared sea level rise inundation maps for 6 Buzzards Bay towns. The Buzzards Bay NEP is also using this data to determine stormwater flow at sites where we are working with engineers to design stormwater treatment systems. The use of the LiDAR data in this way will illustrate the value of the data for the development of similar stormwater treatment design projects around the watershed.

Pressures affecting outcomes

One of the primary pressure affecting outcomes under this category is the availability of the executive director (webmaster) and staff to maintain and update website information, and staff to create tools.

WORK PLAN GOAL: Technical Assistance and Capacity Building

Sub-element: Training

Activities

This section principally summarizes the wetland training activities under Task 1 in most workplans: - Wetland Restoration and Open Space Protection and Restoration and Task 10 - Other Specialized Technical Assistance.

Partnerships

Buzzards Bay Coalition, MCZM, municipalities

Selected Outputs

Each year, the Buzzards Bay NEP wetland specialist has and continues to provide training to area conservation commissions and others. These included specialized training to agents and commission members, and generally two workshops in the Buzzards Bay watershed conducted through the Massachusetts Association of Conservation Commissions. The Buzzards Bay NEP staff also work with the Buzzards Bay Action Committee, EEA, and MCZM on workshops for watershed communities (see BBAC speakers at buzzardsbayaction.org/agenda.html). Some of the training relates to implementation or developing regulations.

In 2009 and 2010, the Buzzards Bay Coalition held “Nitrogen Consensus” meetings in the Town of Wareham to educate town officials about nitrogen management and build support for concrete measures to reduce nitrogen pollution from both residential septic systems and cranberry bogs. As previously mentioned, the Buzzards Bay NEP worked with the town and the Coalition on these issues. These meetings resulted in an agreement entitled The Wareham Nitrogen Consensus: An Action Plan 2010. (www.savebuzzardsbay.org/Document.Doc?id=498). The Buzzards Bay NEP provided technical support and analyses for these meetings, and created several presentation maps (this news story shows a map produced by the Buzzards Bay NEP Regional Planner. newenglandboating.com/news/wareham-ma-steels-for-nitrogen-reduction-battle.html).

In partnership with the BBAC, EEA, and MCZM, in February of 2011 the Buzzards Bay NEP cosponsored a Storm Smart Coasts workshop (buzzardsbay.org/stormsmart-workshop.htm).

During the latter half of 2012, the wetland specialist provided training to the MCZM regional coordinator to help implement the combined MCZM-NEP effort to map the expansion of the 1% floodplain with sea level rise.

Selected Outcomes

Short-term: Increased information availability for use by Buzzards Bay community leaders, environmental managers, scientific and education community, Commonwealth of Massachusetts, federal officials, and the general public to make better management decisions and actions related to the restoration, protection, and sustainable use and enjoyment of Buzzards Bay and its watershed.

Intermediate: The advancement in knowledge on the effects of nitrogen pollution and documentation of the condition of localized water quality throughout Buzzards Bay harbors in relation to nutrient loads from the watersheds. Long-term: Increased citizen and government actions to protect and restore water quality and living resources in Buzzards Bay and its surrounding watershed through the implementation of the Buzzards Bay Comprehensive Conservation and Management Plan.

Coalition Outcomes

We want to note that the Coalition's capacity to conduct their training has appreciably been enhanced when in 2010, the Buzzards Bay Coalition open their newly renovated office building. The Buzzards Bay Center is more than just the headquarters for the Buzzards Bay Coalition. It is a learning center, community resource, and a vision for sustainable design in the watershed. The building, originally built in 1832, underwent a thorough green renovation and opened in 2010. In addition to staff offices, the Center is home to the Richard C. Wheeler Bay Learning Center, the Emerson Riggs Laboratory (home of the Baywatchers program), and the Croll Conference Room, a community meeting space.

The Buzzards Bay Coalition held some workshops in 2011, 2012 and 2013 that we wish to call attention to because they helped advance Buzzards Bay CCMP goals. The annual workshop series is for decision makers in government, business, and agriculture. These workshops provide real-world solutions for people whose daily decisions affect the health of Buzzards Bay and the local environment. Topics have included Reducing Nitrogen Pollution in Wastewater, Making Restoration Happen, Restoration and the Community, Why Restore? Solutions to Nitrogen Pollution, Technology Solutions: Innovations in Wastewater Treatment, Landscape Solutions: Strategies for effective stormwater management and fertilizer use, and Planning and Funding Solutions: How to make nitrogen reduction happen. (www.savebuzzardsbay.org/ProtectBay/EngageTheCommunity/TrainingDecisionMakers)

The Buzzards Bay Coalition holds annual training sessions for the volunteers in its Baywatchers Program. This annual training refreshes the procedures for the returning volunteers and gives hands on training for those new to the program. Typically there are more than 100 persons participate in this training. The Coalition has also training for volunteers for their River Herring Monitoring (March-June) and year round Stream Flow Monitoring Programs.

The Buzzards Bay Coalition also conducts hands-on programs to help students discover and explore the Bay and its watershed with field programs such as: Making a Mess in the Marsh, The Forest and the Bay, Beyond the Beach, The Wonder of Wetlands, Water, and Weather and Climate. The BBC Schoolyard Ecology Programs and Learning Center Programs offer additional opportunities for watershed residents of all ages. (www.savebuzzardsbay.org/DiscoverBay/ExploreWithUs).

Pressures affecting outcomes

We provide technical assistance on a first come first serve basis and as allowed by available staff time.

Additional Information

CWA implementation information: Data from Coalition monitoring is being used as the basis of TMDLs and is prompting towns and the state to take action on nitrogen discharges.

WORK PLAN GOAL: Technical Assistance and Capacity Building

Sub-element: Direct Assistance

Activities

This section principally summarizes activities under Task 4 in most workplans: Buzzards Bay NEP technical assistance and municipal grant program. With respect to financial assistance, all together, five municipal grant rounds were issued resulting in the award of 36 grants totaling \$835,921.25 (see buzzardsbay.org/grantsaw.htm). During the period covered by this review, the Buzzards Bay National Estuary Program produced hundreds of maps, completed numerous GIS evaluations, conducted site evaluations, or provided other types of assistance to the Buzzards Bay Coalition, area land trusts, and municipalities.

Partnerships

Principally, partnerships with municipalities and with the Buzzards Bay Coalition provide excellent support capacity in organizing complex collaborations between municipalities, lands trusts and Community Preservation Act committees.

Selected Outputs

In this section, the short-term benefits of our technical and financial assistance programs include increased citizen and government actions to protect and restore water quality and living resources in specific projects. An intermediate effect is the building or partnerships, increased capacity, and increased

leveraging of resources committed to initiating actions. The long-term outcomes are meeting a wide range of goals and objectives in the Buzzards Bay Comprehensive Conservation and Management Plan.

The specific outputs in this category include scopes for solicitations developed, grants and contracts awarded, projects completed, press releases prepared, website updated with projects, projects overseen, projects completed, match documents received, and contracts closed. Annually the Buzzards Bay National Estuary Program produces hundreds of new or revised maps and fulfills dozens of requests for data, calculations, or graphics to be used for newsletters, grants, etc. Numerous maps and GIS evaluations were prepared for the Buzzards Bay Coalition, area lands trusts, and municipalities (see Appendix A for just the list from the Buzzards Bay Regional Planner). Examples include the Buzzards Bay Coalition's "Watershed Ride" maps and fundraising maps, maps used by municipalities in open space reports and their grant applications, maps used for area legislators in support of the rail extension to Wareham, maps used in the volunteer monitoring program, and for other purposes.

Selected Outcomes

In the fall of 2008, the Buzzards Bay NEP through the Massachusetts Coastal Zone Management office and the Executive Office of Energy and Environmental Affairs, awarded \$131,500 in grants to seven Buzzards Bay watershed municipalities (buzzardsbay.org/grants-fall-2008.htm).

In the fall of 2009, the Buzzards Bay NEP through the Massachusetts Office of Coastal Zone Management and the Executive Office of Energy and Environmental Affairs, awarded \$167,000 in grants to eight Buzzards Bay watershed municipalities. More information on the grant awards is available at buzzardsbay.org/grants-2009.htm.

With respect to the damage assessment activities related to the 2003 Bouchard No. 120 oil spill, Between 2009 and 2012, the Buzzards Bay NEP continued to work with state and federal agencies, and the state attorney general's office in reviewing and evaluating the environmental impacts of the 2003 Bouchard No. 120 oil spill in Buzzards Bay, and defining the terms for the final state-federal Natural Resources Damage Assessment. The Buzzards Bay NEP had been the state's representative on the aquatic resources technical advisory committee. The damage assessment concluded in most ways by 2010 (the endangered species damage assessment is still incomplete as of 2014). In March 2011, the Buzzards Bay NEP director prepared testimony for the Massachusetts Attorney General's office about the cleanup costs of the Bouchard oil spill for the case American Waterways Operators, et al., versus Deval Patrick. By 2012, the state had settled on a dollar amount with the responsible party. In 2012 and 2013, the Buzzards Bay NEP participated in DEP meetings to formulate a restoration plan for natural resources. The Buzzards Bay NEP expects to be involved with guiding restoration projects in the Buzzards Bay watershed that will follow the final NRDA restoration plan.

In the fall of 2010, the Buzzards Bay NEP through the Massachusetts Office of Coastal Zone Management and the Executive Office of Energy and Environmental Affairs, awarded \$282,512 in grants to seven Buzzards Bay watershed municipalities (buzzardsbay.org/grants-2010.htm.)

The Buzzards Bay NEP continues to provide technical guidance on nitrogen management issues to the Buzzards Bay Coalition and Town of Wareham. The Buzzards Bay Coalition hosted and facilitated meetings with the Town that resulted in draft Board of Health regulations to require nitrogen removal septic systems for new construction. These regulations have continued to be discussed and debated in the Board of Health meetings in 2011 and 2012. In a separate initiative, meant to support the Board of Health regulations, the Wareham Clean Water Committee filed a bylaw for vote in the spring 2012, also mandating nitrogen removal septic systems for new construction. The failure of both these initiatives illustrates the challenges that must be met to comply with watershed nitrogen TMDLs.

During the latter half of 2011, the Wetland Specialist updated outdated GIS parcel maps for the Towns of

Marion and Mattapoisett. These maps were needed for reports and analyses conducted by the towns. In addition, the Wetland Specialist had the town scan sewer and stormwater as-builts and plans so that they can be georeferenced to aerial orthophotography. Using this information, the Buzzards Bay NEP created a GIS coverage of these sewer and stormwater lines which are now being used for stormwater planning in the town.

In the fall of 2011, the Buzzards Bay NEP announced that \$180,958 in grants was being awarded to eight Buzzards Bay watershed municipalities (buzzardsbay.org/grants-2011.htm).

In the fall of 2012, the Buzzards Bay National Estuary Program announced that it was awarding \$122,000 in grants to five Buzzards Bay watershed municipalities. Funded by the U.S. Environmental Protection Agency (EPA) and administered by our program, these grants aid towns in funding land conservation and infrastructure improvement projects designed to conserve open space and rare species habitat, protect drinking water resources, restore wetlands, study nitrogen uptake in cranberry bogs and help open shellfish beds.

Our continuing stormwater atlas and data set initiative, together with the use of new LiDAR data, not only helps towns map and evaluate their stormwater, but it is helping municipalities better comply with the NPDES Phase II MS4 stormwater program, and even placing towns on the fast track to take action as compared to other communities around the Commonwealth. This work, together with our efforts with towns to evaluate sewer and nitrogen removal onsite technology that could be used to meet soon to be enacted nitrogen TMDLs, is helping municipalities better understand the need for sustainable wastewater infrastructure. Finally, our efforts to help towns and applicants better comply with local, state, and federal wetland laws and our efforts to help towns restore impaired wetlands continue to meet broad Clean Water Act goals and new MS4 requirements expected in the coming year.

At the request of the Town of Marion DPW, the Buzzards Bay NEP prepared a sewer map for the town. The map will be used by the Town of Marion to evaluate future sewer needs, determine needs for a new municipal Comprehensive Water Management Plan, and for the town to provide data to the Massachusetts Estuaries Project.

Buzzards Bay NEP also updated and corrected the Town of Mattapoisett's parcel data. Such data is essential for land use planning, adopting environmental zoning regulations, identifying public lands to ensure their protection, and to help identify future acquisition and protection of sensitive wetlands and plant and animal wildlife.

The Buzzards Bay NEP's grant and technical assistance programs continue to fund or advance progress on EPA's Clean Water Act core programs. For example, the Buzzards Bay NEP continues to fund and provide technical support to the citizen water quality monitoring program, which is being used as the basis for updates to the state's water quality assessment and integrated list of waters standards, and nitrogen total maximum daily loads being developed for Buzzards Bay embayment watersheds by the Massachusetts DEP. Our work with towns to require nitrogen removal septic systems for new development, or to treat and remediate stormwater discharges to open shellfish beds and prevent beach closures (through technical assistance and grants) directly supports EPA goals to better control non-point source pollution on a watershed basis.

The Buzzards Bay National Estuary Program continues to provide technical assistance to non-profits and municipalities in preparing permits for wetland restoration projects around Buzzards Bay.

Municipalities are not the only recipients of Buzzards Bay technical assistance. A special success of the Buzzards Bay NEP during the review period was that the MA Department of Environmental Protection asked the Buzzards Bay NEP Executive Director to provide technical assistance to the Massachusetts

Estuary Project to conduct certain GIS analyses for watersheds in Buzzards Bay. Specifically, the Buzzards Bay NEP agreed to re-evaluate parcel data, assessor's data, and water department data to accurately estimate the number of commercial and residential units in subwatersheds, and to identify properties served by septic systems or sewer for TMDL reports. Initial reviews covered New Bedford Harbor, Wareham River, Slocums River, and Little River estuaries. Subsequent reviews covered embayments in and out of Buzzards Bay. This information is one of the most critical components in the MEP's nitrogen loading analysis. The Buzzards Bay NEP also helped develop estimates of impervious surfaces in the watershed. The work requires appreciable allocation of the executive director's time.

At the request of Town of Rochester officials, the Buzzards Bay National Estuary Program prepared a Community Preservation Act brochure. We printed 4,000 copies of their brochure for general distribution. (buzzardsbay.org/rochest/rochester-cpa-brochure2.pdf).

Many tasks and projects arise that are not explicitly identified in workplans. Some examples include:

- In 2009, assisted a water committee with an interview prepared for a public access TV show on nitrogen pollution for the Town of Wareham.
- In 2009, created nitrogen loading worksheets for the Buzzards Bay NEP website at: buzzardsbay.org/bbpnitro-interactive.htm.
- In 2009, the Buzzards Bay NEP regional planner provided the base mapping for a 3-D model of Buzzards Bay that is housed in the Richard C. Wheeler Learning Center at the Buzzards Bay Coalition's new green headquarters. The Buzzards Bay NEP also provided various maps of the watershed that were used as wall hangings in the Learning Center. (this will be included as a site visit, see www.savebuzzardsbay.org/DiscoverBay/LearningCenters/WheelerCenter).
- In 2010, at EPA's request, the Buzzards Bay NEP participated in EPA's Southern Massachusetts Coastal Wetland Review, including hosting site visits to wetland restoration sites. Work and information from the Buzzards Bay NEP is contained in the final report document issued by EPA (see EPA-843-R-10-005C).
- In 2010, The BBNEP staff assisted MCZM staff on review and development of Oak Bluff flood zone bylaws (tech transfer out of the watershed).
- In 2010 and 2011, the Director participated on the Waquoit Bay National Estuarine Research Reserve science advisory committee.
- Three Buzzards Bay NEP staff also serve on storm damage teams for the Massachusetts Emergency Management Office for Buzzards Bay communities. After a severe coastal storm, staff conducted early reconnaissance missions and submitted photos and reports on the state's Storm Reporter site. The information gathered was sometimes added to the Buzzards Bay NEP website as in this 2011 Hurricane Irene page: buzzardsbay.org/tropical-storm-irene-buzzards-bay.htm.
- In 2011 and 2012, the Buzzards Bay NEP worked with the state hazard mitigation coordinator on a wide range of floodplain and LiDAR issues where we discovered discrepancies between FEMA base flood elevation and LiDAR data. These findings resulted in FEMA enacting map changes on specific FIRMs, and they were included in a report (see sidebar on climate.buzzardsbay.org/flood-zone-expansion-methods.html).
- Between 2012 and 2014, the director participated in meetings, conference calls, and emails on the

formulation, development, and implementation of the Southern New England Coastal Watershed Restoration Partnership.

- Buzzards Bay NEP staff provided tech transfer assistance and training to CZM on sea level rise expansion of the flood plain in Massachusetts communities along Mount Hope Bay in the Narragansett Bay watershed.
- In 2012, at the request of the Buzzards Bay Action Committee, the director wrote, designed, and coded in HTML a website for the organization (see buzzardsbayaction.org).
- Not explicitly mentioned in the workplan, beginning in 2013 the Buzzards Bay NEP initiated a monthly meeting of watershed conservation agents to discuss common problems, interspersed with occasional workshops.
- In 2012 and 2013, participation in meetings related to assessing oil spill risks in Buzzards Bay.
- As a result of the Buzzards Bay NEP's work on sea level rise, in December 2013 the director was an invited speaker at the Center for Coastal Studies 2013 Chase-Miller Forum, "Shifting Sands" (www.coastalstudies.org/whats-new/11-01-13.htm), and to a similar EPA sponsored meeting in January 2014 on resiliency to extreme events (www.horsleywitten.com/extremeevents/).
- In 2013, at the request of the EPA Region 1 administrator, the director participated in the Climate Leaders Summit, and agreed to provide technical support and guidance to the group on matters relating to the application of LiDAR data to sea level rise.
- In 2013, the Director made a presentation to the presentation at a National Academy of Sciences Meeting in Woods Hole on BBNEP work toward bacteria and nutrient loading remediation in Buzzards Bay.
- Although touched upon in the GPRA leveraging 2011 report, there has been follow-up work on the project titled "Douglas S Westgate Conservation Area and River Walk - Wareham." This 49-acre property was acquired by the Town of Wareham for conservation purposes in 2011. The BBC was instrumental in securing grants to fund the acquisition. The Buzzards Bay NEP provided natural resource and other required mapping and data calculations for the necessary grant applications. Then in 2013, at the request of the Wareham Conservation Commission, the Buzzards Bay NEP created trail and property maps, which were displayed at the official opening of the property. These trail and property maps are also being installed on a permanent kiosk at the property's trailhead. (related information can be found at: www.savebuzzardsbay.org/GetConnected/UpcomingEvents?&ceid=90 and wareham-ma.villagesoup.com/p/new-public-conservation-area-opened-in-west-wareham/1079566).

Pressures affecting outcomes

There are two principal issues that can delay this effort. First, the state may delay the award or release of funds for various reasons. Second, municipalities may have problems meeting grant schedules for various reasons and request extensions in their grant agreements.

Additional Information

sippicanlandtrust.org/property-map/

www.mattlandtrust.org/wp-content/uploads/2012/07/protected-properties-2012.pdf

falpt.org/blog/?page_id=346

[Press release from Massachusetts EEA](#) on Buzzards Bay NEP municipal grants

Section 4: Budget Summary

For the FY09 through FY13 work plans, we show a tabular and graphic summary of budget expenditures by Buzzards Bay NEP programmatic categories in Table 1 and Figure 8. Refer to the appended work plans for more detailed budget breakdowns.

Table 1 Summary of Buzzards Bay NEP work plan budgets.

Category (a)	2009	2010	2011	2012	2013 (b)
Technical assistance staff	\$275,620	\$286,657	\$295,145	\$317,628	\$326,591
Fringe	\$68,260	\$87,908	\$89,709	\$80,762	\$79,099
Indirect	\$66,446	\$69,853	\$72,499	\$60,567	\$35,745
Municipal grants & stormwater designs	\$108,500	\$261,707	\$75,678	\$71,550	\$25,234
Rent, utilities, supplies	\$34,555	\$30,111	\$31,869	\$33,043	\$34,381
Coalition water testing	\$25,000	\$50,000	\$25,000	\$25,000	\$25,000
State fees, repairs, and communication	\$11,619	\$8,864	\$4,200	\$4,952	\$7,252
Travel	\$10,000	\$4,900	\$4,700	\$3,698	\$3,698
Total	\$600,000	\$800,000	\$598,800	\$597,200	\$537,000

(a) There were some slight variations with how fees, repairs, supplies, and utility costs were aggregated in the original work plans, they are presented here in a more consistent way.

(b) This summary includes an amendment for \$25,000 for the New Bedford area climate ready estuary funding.

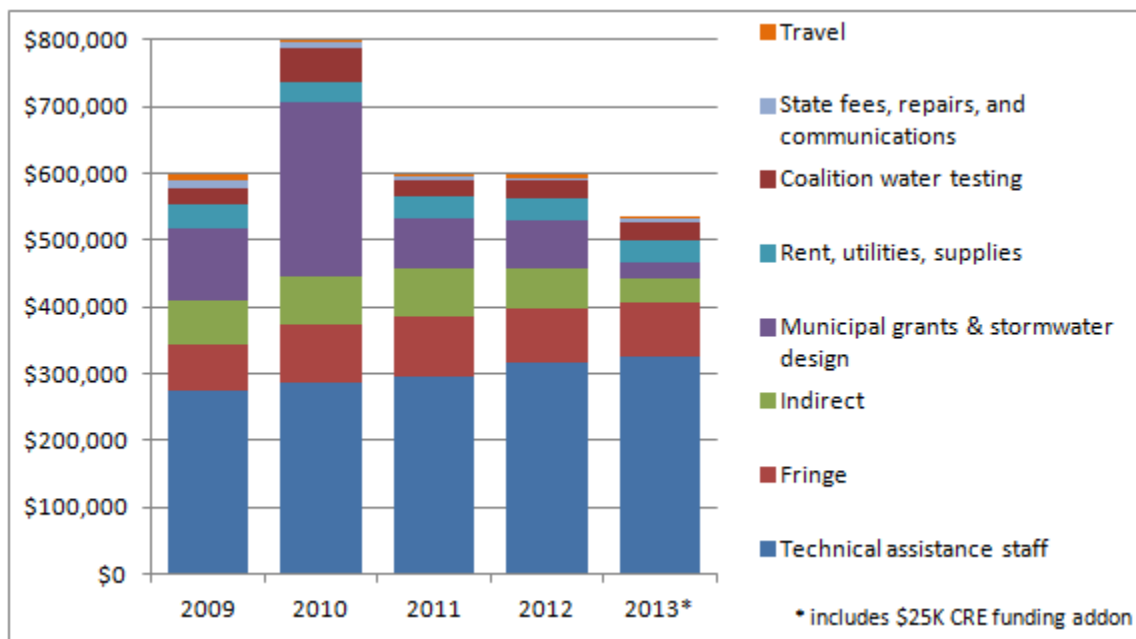


Figure 8 Summary of Buzzards Bay NEP budgets (FY09-FY13) by budget category.

There are some important trends evident in Table 1 and Figure 8. First, EPA Section 320 funding levels have been largely static except for FY 2010 where the Buzzards Bay NEP received an additional \$200,000 related to the Federal Stimulus package that year, and the \$88,000 cut in FY13 that resulted from the Federal Sequester. The cut was ameliorated somewhat by a \$25,000 grant amendment award received by the Buzzards Bay NEP from the U.S. EPA to conduct a climate ready estuary project in the greater New Bedford area.

Of particular importance is the fact that during this funding period, inflation driven cost of living increases plus changes in fringe rate costs have cumulatively and steadily increased. This has resulted in spending reductions in the more flexible funding categories such as municipal grants. Note, however, that in the one year of extra funding (FY10), the Buzzards Bay NEP was able to put all extra funds into municipal grants and water quality testing, more than doubling those categories combined.

Section 5: Budget Matches

Match to Buzzards Bay NEP Cooperative Agreements is met through either cash or in-kind contributions related to the Buzzards Bay NEP municipal grant program, or through in-kind contributions from the Buzzards Bay Coalition. Table 2 below shows a summary of the match for the FY09 through FY13 Buzzards Bay NEP workplans.

Table 2 Summary of Match contributions to FY09-FY13 Cooperative Agreements

FY 09	
Buzzards Bay Coalition Water Quality Monitoring Program	\$141,750.00
Municipal support to BBAC	\$10,000.00
BBAC, CCMP, and workshop meetings	\$14,300.00
Coalition land protection efforts	\$97,200.00
Municipal match to Buzzards Bay NEP grants	\$220,000.00
Other Coalition support	\$92,500.00
TOTAL (Actual needed: \$575,000)	\$575,750.00
FY10	
Buzzards Bay Coalition Water Quality Monitoring Program	\$67,500.00
Municipal support to BBAC	\$10,000.00
BBAC, CCMP, and workshop meetings	\$10,400.00
Coalition land protection efforts	\$147,500.00
Municipal match to Buzzards Bay NEP grants	\$516,000.00
TOTAL (Actual needed: \$750,000)	\$751,400
FY11	
Buzzards Bay Coalition Water Quality Monitoring Program	\$157,902
BBAC dues	\$10,000
BBAC, other municipal meetings, workshops	\$10,400
Municipal match to Buzzards Bay NEP minigrants	\$285,000
SRPEDD Plymouth Carver Aquifer Protection Initiative	\$5,000
Coalition education and land conservation programs	\$106,498
TOTAL (Actual needed: \$573,800)	\$574,800
FY12	
Buzzards Bay Coalition Water Quality Monitoring Program	\$157,902
BBAC dues	\$10,400
BBAC, other municipal meetings, workshops	\$14,300
Municipal match to Buzzards Bay NEP minigrants	\$287,000
Coalition education and land conservation programs	\$103,598
TOTAL (Actual needed: \$572,200)	\$573,200
FY13	
Buzzards Bay Coalition Water Quality Monitoring Program	\$157,902
BBAC dues	\$10,400
BBAC, other municipal meetings, workshops	\$14,300
Municipal match to Buzzards Bay NEP minigrants (3)	\$201,757
Coalition education and land conservation programs (2)	\$103,398
TOTAL (Actual needed: \$487,000)	\$487,757

Section 6. Buzzards Bay NEP Leveraging Summary Data

Besides matching funds, the Buzzards Bay NEP tracks projects where the Buzzards Bay NEP leveraged resources (in-kind or cash) from other agencies or partners. Many of the larger leveraged funds relate to large land projects by the Buzzards Bay Coalition, who often coordinates many partners for land acquisition projects. In a typical example, the Buzzards Bay Coalition may work with a municipality to secure a Buzzards Bay NEP municipal grant to fund a land survey or legal work which might be used as a basis of a land acquisition and to leverage other sources of funds such as local municipal community preservation act (CPA) funds, or larger state LANDS grant program funds. In the various intermediate steps the Buzzards Bay NEP may support the municipality, local lands trust, or the Coalition in the preparation of maps or documents used in applications, or to present to Town Meeting. In a few cases, the Buzzards Bay NEP might assist with wetlands delineations or permitting of projects. It is these kinds of collaborations, particularly with the strong coordination efforts of the Coalition that has led to some of the larger successful land projects in the Buzzards Bay watershed during the past decade.

Table 3 Funds leveraged as reported by the Buzzards Bay NEP on GPRA reports on the NEPORT system.

Year	Primary	Significant
2009	\$3,034,080	\$3,784,500
2010	\$1,200,000	\$4,052,625
2011	\$3,336,407	\$1,096,764
2012	\$1,033,347	\$3,523,700
2013	\$759,511	\$2,522,300
Totals	\$9,363,345	\$14,979,889

Table 3 and Figure 9 below show a summary of past match leveraging according to their classification (only primary and significant are shown, leveraged funds categorized as "support" are omitted because it was not always consistently reported). These figures represent the values reported on NEPORT in conformance with GPRA requirements.

Some of the variability of leveraging funds can be understood by examining the source and uses of leveraged funds in specific years. Figure 9 shows that in 2009, the year of the largest combined primary and significant leverage, by far the greatest percent use of funds related to land acquisition. In stark contrast, in 2010, leveraged funds represented a larger range of activities.

The five-year trend illustrated in Figure 9 shows two important points. First, whether certain large leveraged projects succeed in any particular year is serendipitous. For example, the larger amount of leveraging in the primary category shown in 2011 reflected the Buzzards Bay NEPs technical support to CZM to develop a grant application with the Department of Conservation Department of Conservation and Recreation that resulted in the receipt of a \$2 million NOAA Coastal and Estuarine Land Conservation Program (CELCP) grant for the Great Neck Wildlife Sanctuary.

Second, the capacity to leverage funds has diminished overall because of cutbacks that were initiated in 2009 by all levels of government because of the prolonged economic recession since 2008. In simple terms, funding for state and federal environmental grant programs, including the large land and habitat and restoration programs that are so important to the Buzzards Bay watershed have greatly diminished, which in turn has resulted in a reduced ability to leverage local and private funds, which have also greatly diminished.

Similarly, the sources of leveraged funds is highly variable and again reflects serendipitous factors as to what grants were successfully funded in the Buzzards Bay watershed, how much federal and state grant funds were available, and whether municipal budgets had the capacity to accommodate environmental protection related expenditures. Figure 10 shows the source of leveraged funds (left), and whether or not those funds represented cash or in kind contributions (right). In that year, much of federal and state leveraged funds represented cash from state, federal and local sources, with much of the in-kind contributions accounted for by the work of the Buzzards Bay Coalition, the Buzzards Bay Action Committee, and municipalities.

How the leveraged funds were used was again highly variable and depended upon what particular projects were completed during the reporting year. This is well illustrated by Figure 11 that shows two extremes. In 2009, nearly all the leveraged funds related to land protection and acquisition (a large part accounted for by a large restoration project on a NAWCA grant that we helped develop and contribute to), whereas in 2010, leveraged funds were more evenly distributed in a diverse set of categories.

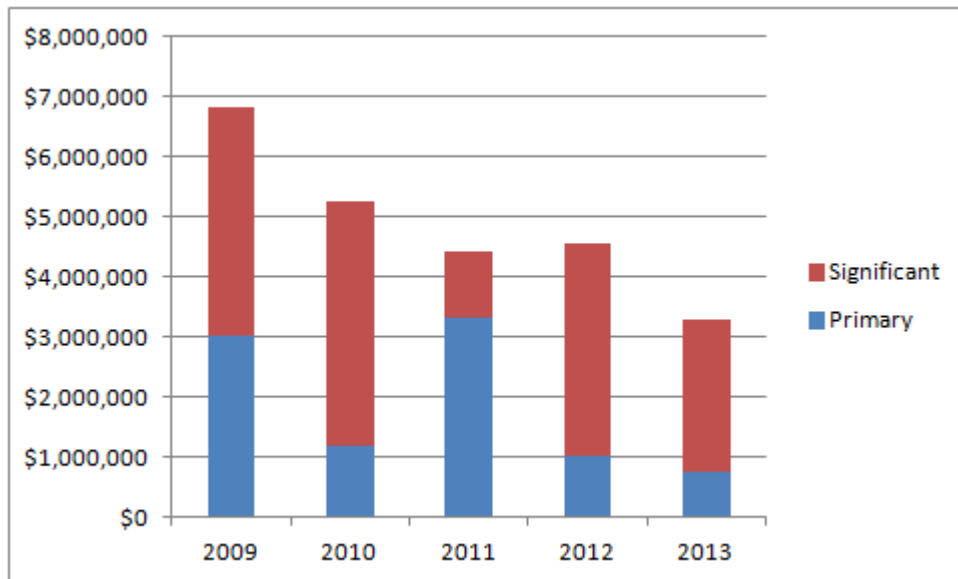


Figure 9 Funds leveraged as reported by the Buzzards Bay NEP on GPRA reports on the NEPORT system.

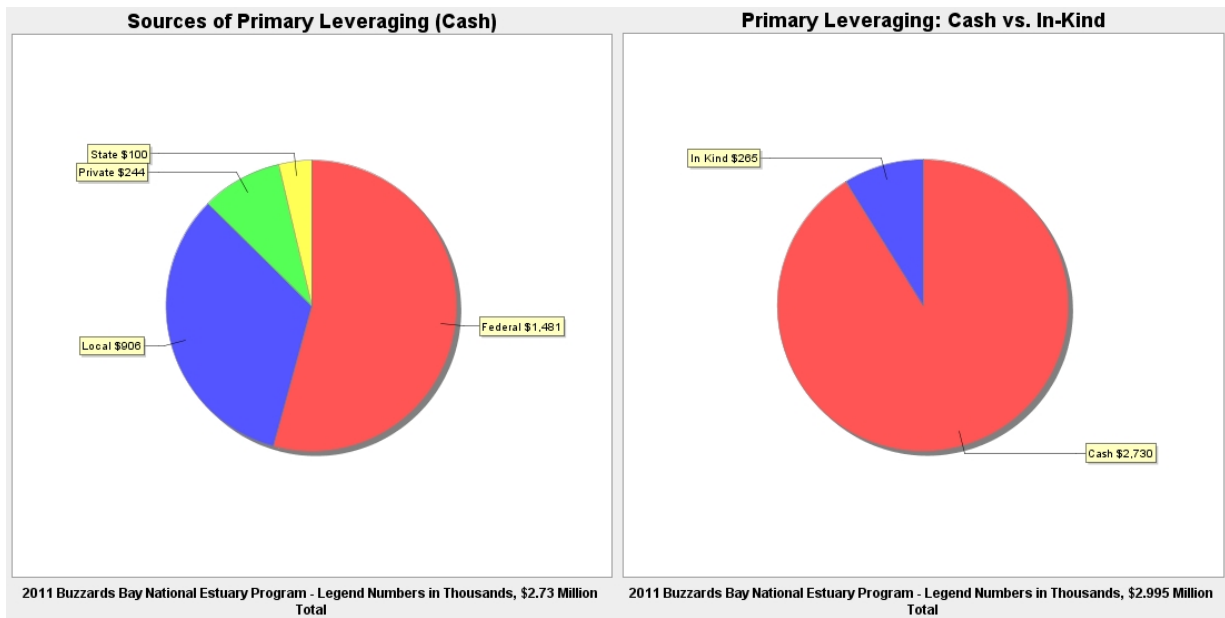


Figure 10 The source of leveraged funds (left) and the type (right) reported in 2011 for the Buzzards Bay NEP (chart exported from NEPORT).

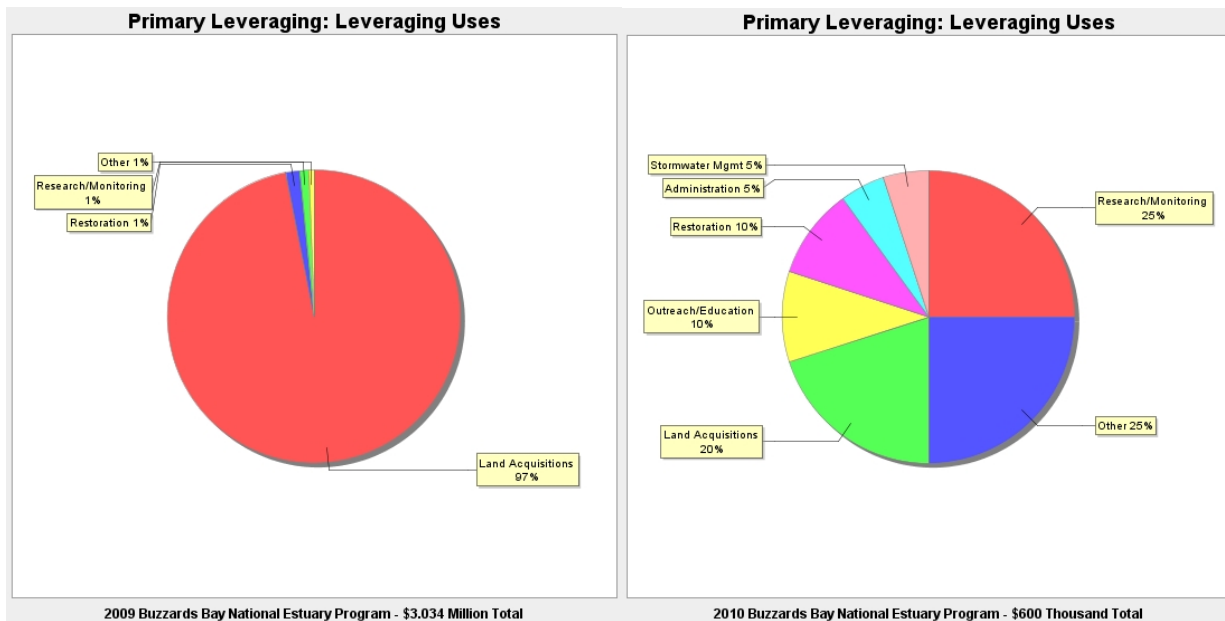


Figure 11 The use of leveraged funds in 2009 versus 2010 for the Buzzards Bay NEP (chart exported from NEPORT).

Section 7: NEPORT Habitat Reporting

To comply with the Government Performance and Results Act (GPRA), the U.S. Environmental Protection Agency requires that each NEP report the number of priority actions initiated across the NEP, and the number of acres of wetlands and other habitat protected and restored. The projects listed are those where the Buzzards Bay NEP contributed some level of funding, technical assistance, or some other form of support or partnership in the effort. On many of the larger land projects, municipalities, a land trust, or the Buzzards Bay Coalition were the actual project leads. The Buzzards Bay NEP has posted all projects since 2003 on an interactive map found at: buzzardsbay.org/bbnep-gpra-reports.html, and as captured in Figure 12 below. By clicking sites on this page the user can see a description of projects that we were involved with to protect or restore habitat, wetlands, and water quality in the Buzzards Bay watershed.

Like the types of projects funded in our municipal grant program, or those projects listed in the leveraged funds report, the number of acres or stream feet protect or restored in the Buzzards Bay varies greatly from year to year depending upon the types of projects funded by the Buzzards Bay NEP or its partners, as shown in Figure 13. Like the preceding graphs, there has been a genuine decline in land protection and

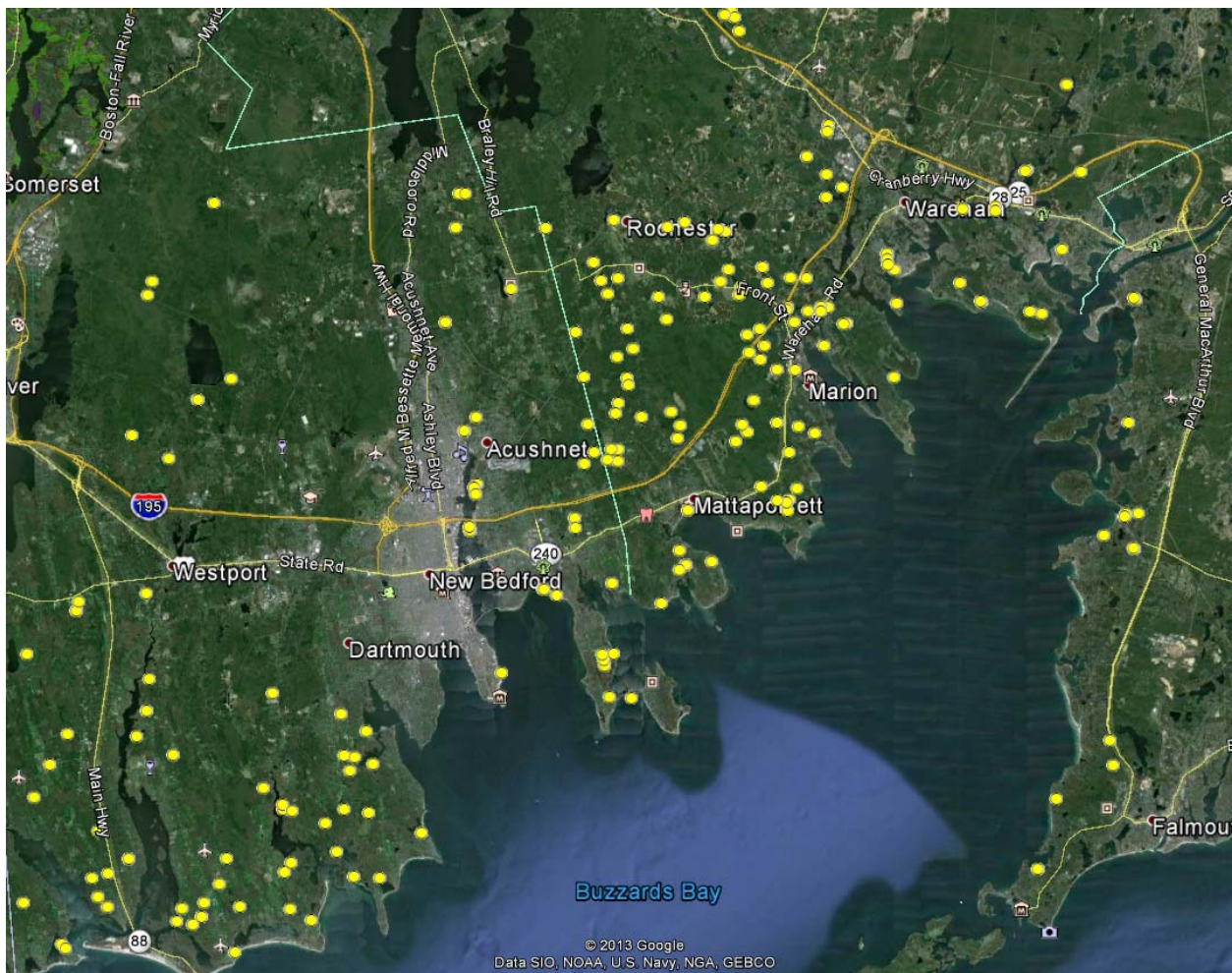


Figure 12 Interactive map on the Buzzards Bay NEP website showing locations of GPRA reported projects. Clicking on the dot reveals details about the project.

habitat restoration achievements because of poor economic conditions during the past five year that have resulted in declines in state and federal grant program funding, private donations, municipal funding, and NEP funds.

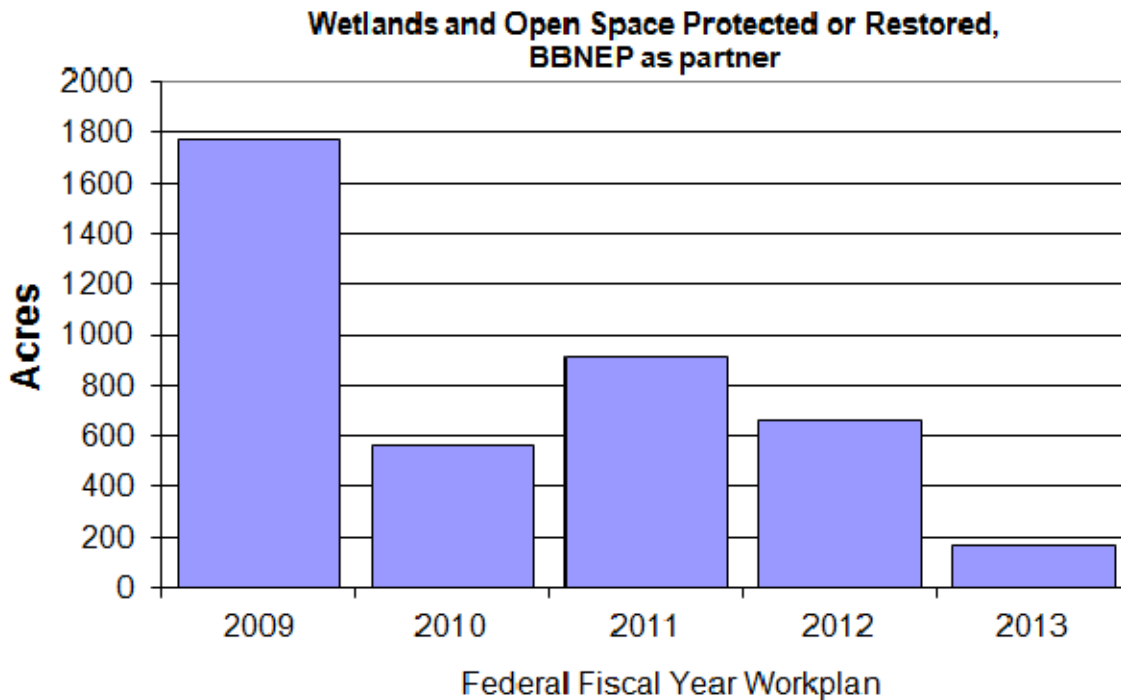


Figure 13 Wetlands and open space protected or restored where the Buzzards Bay NEP was a partner or had a role.

Because of the variability of types of projects that are implemented from year to year, the acres of open space protected, or wetlands, and plant and animal habitat protected or restored varies greatly among projects and years. In most years, because undeveloped lands largely consisted of either forested upland or forested wetland (with other important species habitat interspersed), the largest category of habitat falls in the NEPORT "forest and woodland" category as shown in the pie chart breakdown for 2010 (Figure 14, top). In other years, if a project involved restoration or improvement of anadromous fish to a pond, the breakdown of wetland categories might look like the results for 2011 (Figure 14, bottom).

Similar variability is observed in the types of restoration techniques used and the mechanism of restoration. For example, in 2009 (Figure 15), an atypical year compared to most, large portions of shellfish resource growing areas between New Bedford and Fairhaven were opened for the first time in decades because of the treatment of stormwater and CSO retrofits (partly funded by the Buzzards Bay NEP) reducing sewage overflows. Water quality improvements led the Massachusetts Division of Marine Fisheries to change the classifications for two large areas.

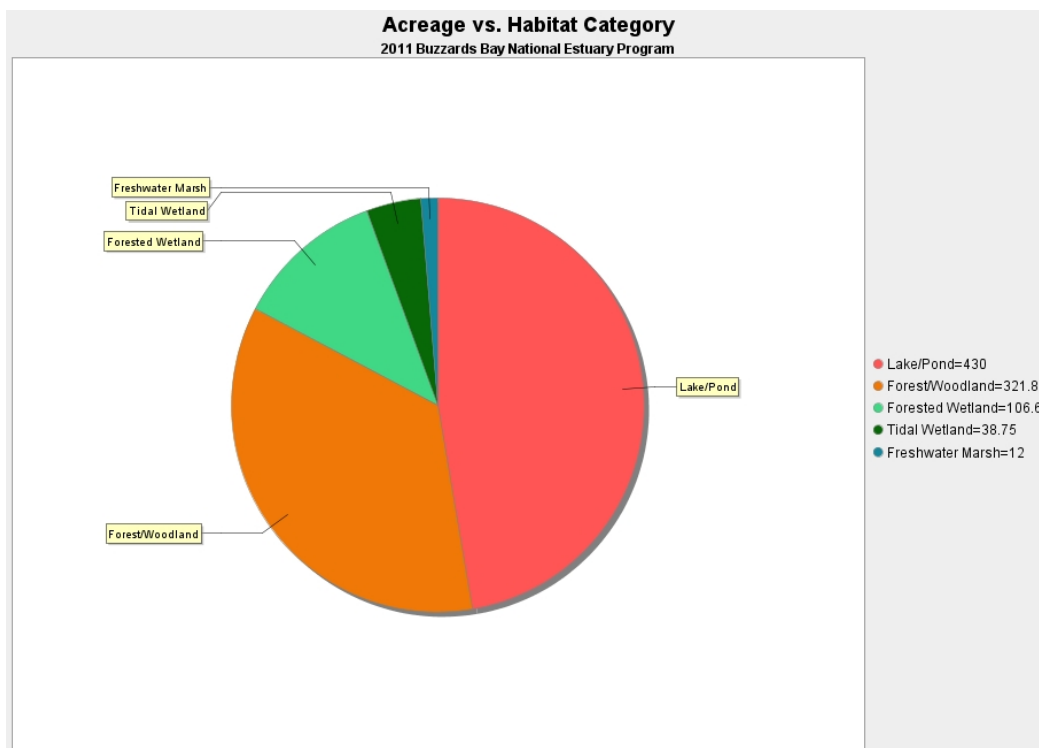
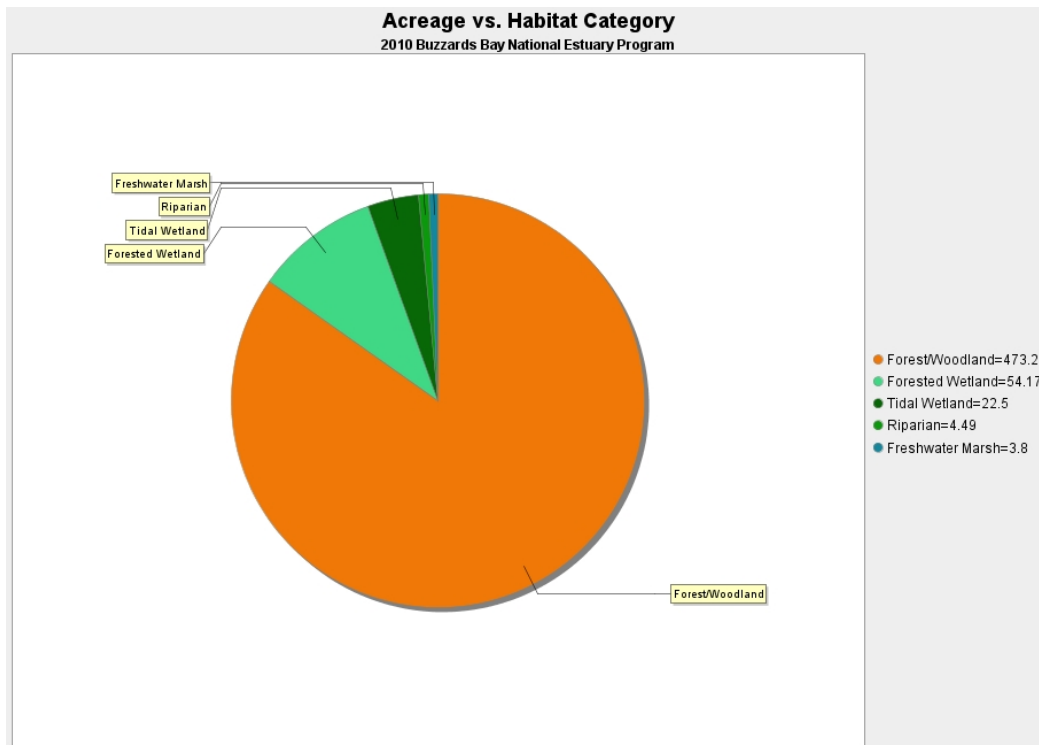


Figure 14 Relative amounts of habitat protected or restored in 2010 (top) versus 2011 (bottom).

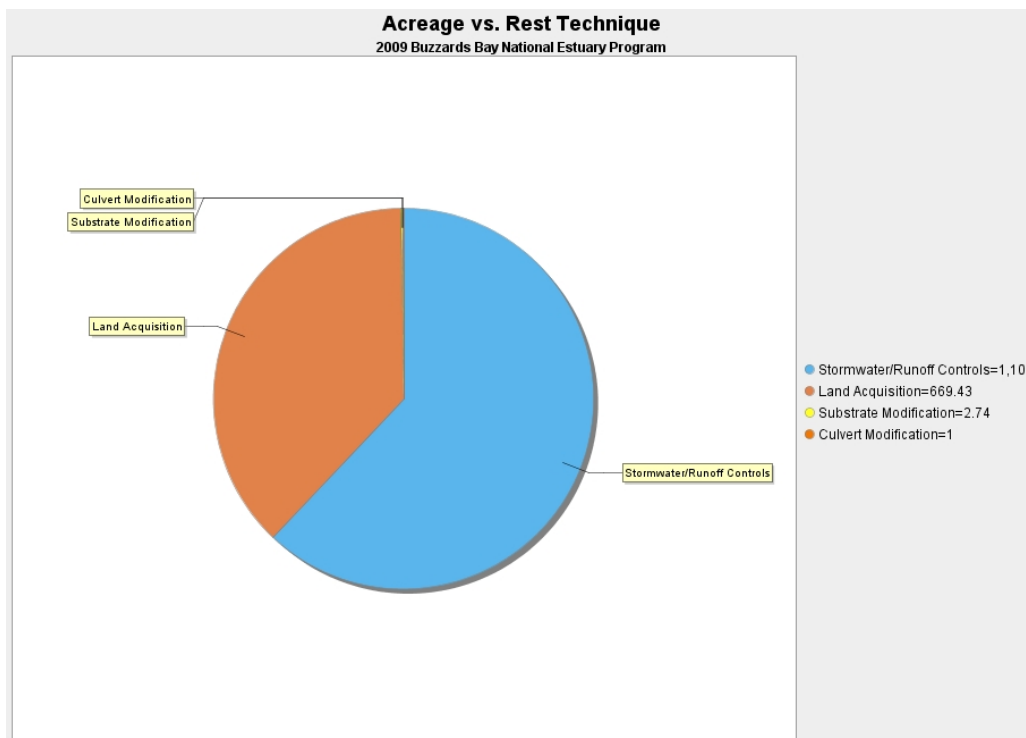
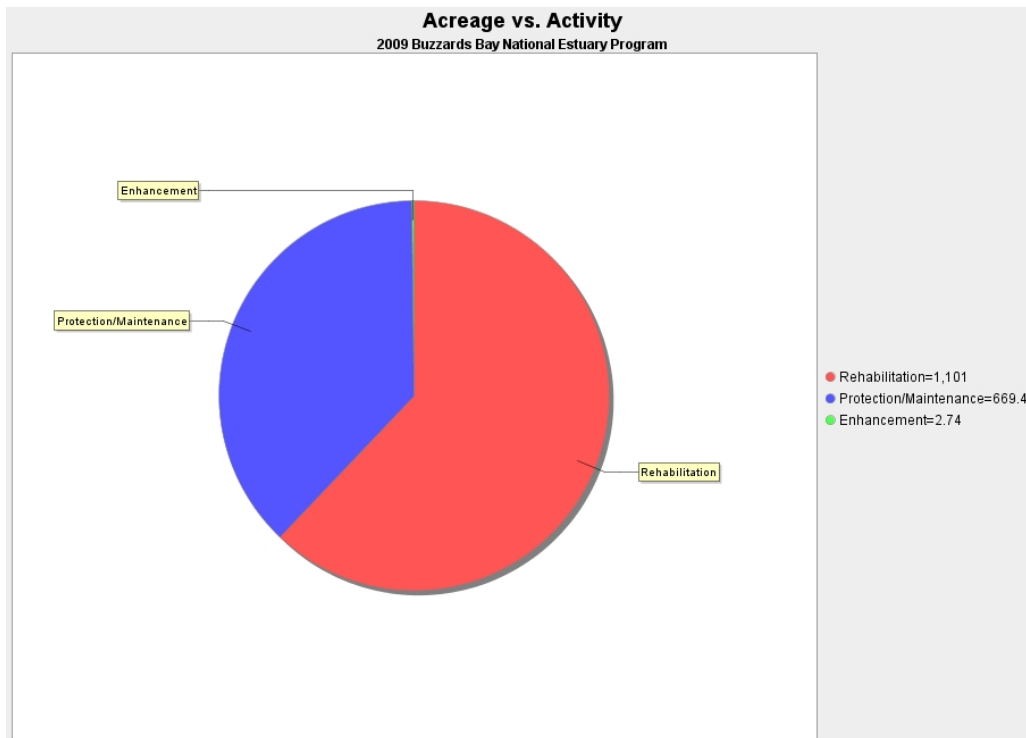


Figure 15 The 2009 habitat restoration report was dominated by the opening of 1100 acres of shellfish beds for the first time in decades because of CSO control repairs, partly funded by the Buzzards Bay NEP, and other stormwater control measures and sewerage in Fairhaven.

Section 8: List of Supporting Documents in the file BBNEP-Section-8-attachments2014.pdf

Buzzards Bay NEP FY09 Work Plan
Buzzards Bay NEP FY10 Work Plan
Buzzards Bay NEP FY11 Work Plan
Buzzards Bay NEP FY12 Work Plan
Buzzards Bay NEP FY13 Work Plan
Buzzards Bay Coalition 2008 Annual Report
Buzzards Bay Coalition 2009 Annual Report
Buzzards Bay Coalition 2010 Annual Report
Buzzards Bay Coalition 2011 Annual Report
Buzzards Bay Coalition 2012 Annual Report
2005 Buzzards Bay MOU
2009 EPA Program Evaluation Comments
The Coalition's 2011 State of the Bay report
2009 municipal grants
2010 municipal grants
2011 municipal grants
2012 municipal grants
2013 municipal grants
2013 municipal grant RFR
Buzz Bay E-News
BBAC 2013 Lawn Brochure
Buzzards Bay Coalition 2013 Campaign Report
October, 2013 CZM CZMail
Rochester 2013 CPA Brochure
Westport Drift Road Stormwater Brochure
Buzzards Bay Current, Fall 2010
Fairhaven Land Preservation Trust Newsletter
Massachusetts Association of Conservation Commissions Workshop Announcement
BBAC Earth Day Flyer

Appendix B: Mapping & Data Requests Fulfilled by BBNEP's Regional Planner - July 1, 2009 - December 27, 2013)

Date	Person/Organization Making Request	Description of Request
7/1/09	Allen Decker - CBB	Email Rounseville property acquisition to MassGIS as required by DEP grant award
7/1/09	Gary Johnson - Mattapoissett Land Trust	8.5x11 of Dunn property for Mattapoissett Harbor Days Festival flyer
7/1/09	Dave Janik - CZM	Data calculations for Chapter 91 jurisdiction and non-jurisdiction area within New Bedford Harbor DPA
7/2/09	Allen Decker - CBB	8.5x11 topo of Acushnet Sawmill CR for DCS submittal
7/2/09	Jess Whittaker - Sippican Lands Trust	8.5x11 map of Sippican Harbor Woods - landscape aerial
7/7/09	Allen Decker - CBB	Email shapefile of Acushnet Sawmill CR to MassGIS as required
7/9/09	Jess Whittaker - Sippican Lands Trust	8.5x11 topo of Sippican Harbor Woods for NHESP evaluation
7/9/09	Brendan Annett - CBB	8.5x11 aerial of Goldberg property in Dartmouth
7/9/09	Allen Decker - CBB	three 8.5x11 maps of Linhares, Mahoney and Hawkes properties
7/9/09	Brendan Annett - CBB	Edits to Tinkham Pond Land Conservation project map
7/14/09	Jess Whittaker - Sippican Lands Trust	Size E aerial of protected open space in Marion
7/15/09	Brendan Annett - CBB	Edits to Goldberg map - Dartmouth
7/16/09	Jess Whittaker - Sippican Lands Trust	Size E aerial of SLT lands in Marion
7/16/09	Jess Whittaker - Sippican Lands Trust	Size C aerial of SippicanHarbor Woods
7/21/09	Tony Williams - CBB	3 size E maps of CBB monitoring stations on topos for MBL lab
7/22/09	Allen Decker - CBB	NAWCA closeout maps for Field Farm, Marsh Island and Popes Beach (6 maps)
7/22/09	Allen Decker - CBB	NAWCA closeout maps for Flume Pond and Quaker Road (4 maps)
7/27/09	Allen Decker - CBB	Wetland Calculations for Quaker Rd and Flume Pond NAWCA grant closeout reports
7/27/09	Brendan Annett - CBB	8.5x11 aerial of Ellis Property in Falmouth
7/27/09	Dave Janik - CZM	Data calculatons for New Bedford Harbor DPA, Chapter 91 jurisdiction
8/4/09	Brendan Annett - CBB	Significant edits/re-make Mattapoissett River (Tinkham Pond) map to include new properties and areas
8/10/09	Korrin Petersen - CBB	Size E map of land use data in Little River Watershed for review of MEP report
8/11/09	Brendan Annett - CBB	8.5x11 aerial of Animal Rescue League property in Catumet
8/11/09	Allen Decker - CBB	two 8.5 x11 maps (aerial & topo) of MacPhail CR and data calculations for submittal to DCR
8/13/09	Mark Rasmussen - CBB	Reprint 3 copies of size E Buzzards Bay fundraising map and 11x17 copies as well
8/17/09	Allen Decker - CBB	4-map series of Decas land in Mattapoissett for DEP Drinking Water Supply Protection grant application
8/18/09	Korrin Petersen - CBB	2 Size E maps of land use data in Slocums and Apponagansett watersheds for review of MEP reports
8/19/09	Jess Whittaker - Sippican Lands Trust	Size E aerial of all open space in Marion and surrounding communities
8/20/09	Sarah Hewins - Carver Con Comm	Three 8.5x11 maps for Carver's Open Space Plan (Zoning, Env. Justice, Land Use)
9/1/09	Allen Decker - CBB	Edits to DEP Drinking Water Supply Protection grant maps (Decas - Mattapoissett) 4 maps
9/2/09	Allen Decker - CBB	8.5x11 map of Mahoney lands in Mattapoissett
9/9/09	Korrin Petersen - CBB	Two 8.5x11 maps for use in commenting on the Ocean Management Plan
9/9/09	Jess Whittaker - Sippican Lands Trust	7 trail maps for Sippican Lands Trust properties
9/21/09	Brendan Annett - CBB	Five 8.5x11 maps of various Mahoney properties in Mattapoissett, Fairhaven and Rochester
9/21/09	Allen Decker - CBB	USGS topo map of Viveiros CR in Fairhaven for application to DCS
9/22/09	Brendan Annett - CBB	Three 8.5x11 soils maps for Mahoney properties
9/22/09	Allen Decker - CBB	8.5x11 USGS topo map for Gurney property in Rochester for submittal to DCS for a CR
9/22/09	Allen Decker - CBB	8.5 x11 aerial of Fitzgerald property and other unprotected town lands in Fairhaven (Town Forest Expansion)

Date	Person/Organization Making Request	Description of Request
9/23/09	Heidi Blythe - Wareham Land Trust/CBB	Five 8.5x11 maps of Zine and Phinney CRs in Wareham
9/28/09	Allen Decker - CBB	Edits to Fairhaven Town Forest Expansion map
9/28/09	John Browning - Wareham Land Trust	Size E aerial of Agawam River
9/29/09	Dave Janik - CZM	Three 8.5x11 aerial maps of New Bedford Designated Port Area
9/30/09	Donna Cobert - CBB	Size E map for the CBB Bike Ride fundraiser
10/1/09	Korrin Petersen - CBB	8.5x11 aerial of Marion WWTP sewage lagoons and subwatersheds
10/6/09	Gary Johnson - Mattapoissett Land Trust	Two Size E maps of Mattapoissett open space - parcel and aerial
10/8/09	Brendan Annett - CBB	8.5x11 aerial of Morse properties in Falmouth
10/13/09	Tony Williams - CBB	Size E poster for Baywatchers Volunteer party
10/13/09	Korrin Petersen - CBB	Edits to Marion WWTP sewage lagoon map
10/13/09	Heidi Blythe - Wareham Land Trust/CBB	Edits/additions to Wareham Lands Trust property map
10/14/09	Brendan Annett - CBB	8.5x11 aerial of Salters/Teal Pond area of South Dartmouth with landowner information
10/15/09	Allen Decker - CBB	Edits to Decas maps (3) for submittal for Mattapoissett CPC funds
10/15/09	Teri Bernert - Dartmouth Open Space Committee	8.5x11 Unique Features map for Dartmouth Open Space Plan
10/19/09	Teri Bernert - Dartmouth Open Space Committee	Edits to Unique Features map of open space plan
10/20/09	Korrin Petersen - CBB	Buildout calculations for Little River watershed for MEP report review
10/26/09	Kerri Murphy - CBB	List of road names within Weweantic watershed for CBB mailing list
10/26/09	Brendan Annett - CBB	8.5x11 aerial of Nasketucket Fields in Fairhaven
10/26/09	Allen Decker - CBB	8.5x11 of Nasketucket Fields for CPC application for APR
10/26/09	Brendan Annett - CBB	8.5x11 of Mahoney lands in Mattapoissett and Fairhaven
10/26/09	Brendan Annett - CBB	3 maps for a grant application for the Decas property in Carver (wetlands, NHESP, and locus)
11/2/09	Korrin Petersen - CBB	Size E aerial of Marion sewage lagoons
11/3/09	Laurell Farinon - Matt. River Valley Advisory Comm.	Map and data of all town owned lands and protected lands in Mattapoissett and Rochester in the Matt. River Valley
11/4/09	Allen Decker - CBB	Wetland data calculations for 2 Dartmouth Natural Resources Trust properties
11/12/09	Mark Rasmussen - CBB	Size E map of land use and other features for a 3-D model of the Bay for the CBB's new office
11/19/09	Heidi Blythe - Wareham Land Trust/CBB	8.5x11 aerial of Agawam River expansion project with wetlands and river buffers
11/23/09	Heidi Blythe - Wareham Land Trust/CBB	3 Size E Strategic Planning maps for Wareham Land Trust
11/23/09	Brendan Annett - CBB	Wetland calculations for a parcel in Mattapoissett
11/30/09	Heidi Blythe - Wareham Land Trust/CBB	Size E aerial of Tucey Lands in Wareham
12/2/09	Joan Pierce - DFW	3 size C maps of Mattapoissett River Valley Land Protection Project
12/7/09	Allen Decker - CBB	Three 8.5x11 maps of Decas lands in Mattapoissett for a foundation funding request
12/7/09	Brendan Annett - CBB	8.5x11 aerial of Mahoney lands in Fairhaven and Mattapoissett
12/7/09	Brendan Annett - CBB	8.5x11 aerial of Tinkham property in Mattapoissett
12/8/09	John Darwin - Fairhaven/Acushnet Land Trust	8.5x11 map of FALPT lands for annual appeal mailing
12/10/09	Russ Keeler - Rochester land Trust	8.5x11 map of Rochester open space for annual appeal mailing
12/14/09	Brendan Annett - CBB	Two 8.5x11 maps of properties in Fairhaven - Egypt Lane and Bridge Street
12/14/09	Sarah Hewins - Carver Con Comm	Action Plan map for Carver Open Space Plan
12/30/09	Brendan Annett - CBB	8.5x11 aerial of Hathaway Pond area in Rochester
12/31/09	Kerri Murphy - CBB	Two size E maps for Wareham Nitrogen Meeting (Weweantic watershed & All town subwatersheds)
1/5/10	Allen Decker - CBB	Data calculations - stream length for Tinkham property for a grant proposal

Date	Person/Organization Making Request	Description of Request
1/12/10	Heidi Blythe - Wareham Land Trust/CBB	Data Calculatons for a potential Conservation Partnership grant for Robbins property in Wareham
1/12/10	Kerri Murphy - CBB	Three size E maps for Wareham Nitrogen Meeting (Onset Bay, Buttermilk Bay and Wareham River subs)
1/13/10	Allen Decker - CBB	8.5x11 aerial of Featherbead Lane property in Rochester
1/13/10	Korrin Petersen - CBB	Add assessors data to Slocums River and Little River land use maps
1/19/10	Kerri Murphy - CBB	Signifiant edits to all 5 Wareham Nitrogen Meeting maps
1/21/10	Mark Rasmussen - CBB	Size E map & digitization of USGS bottom geology for 3-D model of Buzzards Bay for New CBB building
1/25/10	Allen Decker - CBB	Maps and shapefiles for MassGIS to notify them of new CRs in Rochester
1/26/10	Laurell Farinon - Matt. River Valley Advisory Comm.	Size E aerial of lands protected using MRVWSPAC funds
1/27/10	Brendan Annett - CBB	8.5x11 aerial of Mahoney Winterbottom lands in Mattapoisett
1/27/10	Brendan Annett - CBB	8.5x11 aerial of Tripps Mill Brook Conservation Project
2/1/10	Heidi Blythe - Wareham Land Trust/CBB	3-map series and data calculations for a Conservation Partnership grant for the Robbins property in Wareham
2/2/10	Allen Decker - CBB	Five 8.5x11 maps (aerials/topos) for Slocums River NAWCA grant closeout package
2/8/10	Brendan Annett - CBB	7-map series of the Tripps Mill Brook Conservation Project in Mattapoisett for a PowerPoint presentation
2/9/10	Mark Rasmussen - CBB	Generalized sediment map for 3-D model of Buzzards Bay
2/9/10	Allen Decker - CBB	Two 8.5x11 aerials of Mahoney Land in Mattapoisett for Conservation Partnership grant
2/11/10	Allen Decker - CBB	Edits to Mahoney maps
2/16/10	Allen Decker - CBB	4-map series of Mahoney Property in Mattapoisett for Conservation Partnership grant
2/16/10	Brendan Annett - CBB	Print copies of Mattapoisett River Valley lands map that was requested by Laurell Farinon
2/16/10	Brendan Annett - CBB	Make edits to Tripps Mill Brook Conservation Project maps
2/16/10	Heidi Blythe - Wareham Land Trust/CBB	4-map series of lands owned by Alfred Edmunds in Wareham
2/17/10	Heidi Blythe - Wareham Land Trust/CBB	Additional map (topo) for Robbins Conservation Partnership grant
2/18/10	Allen Decker - CBB	13-map series for Dike Creek NAWCA grant closeout package
2/18/10	Heidi Blythe - Wareham Land Trust/CBB	Map of Edmunds land of conservation interest to the Wareham Land Trust
2/22/10	Laurell Farinon - Rochester Con Comm.	Edits to Rochester Open Space Plan Action Plan map
2/23/10	Jess Whittaker - Sippican Lands Trust	4-map/graphic series of Aucoot Cove and Mahoney projects for fundraising brochures
2/25/10	Brendan Annett - CBB	Size E map of lands protected in the Mattapoisett River Valley by the CBB and its partners
3/10/10	Tony Williams - CBB	8.5 x11 map of Baywatcher Sites for MET grant application
3/10/10	Brendan Annett - CBB	8.5 x 11 aerial of Walega property in Acushnet
3/10/10	Jess Whittaker - Sippican Lands Trust	Three 8.5x11 maps of Priority Habitat, BioMap, and SLCP on Mahoney/McIntyre lands for future grant proposals
3/11/10	Jim Gurney - Marion Open Space Acq. Comm.	Three maps for Bordens Brook Greenway CPC grant proposal
3/15/10	Heidi Blythe - Wareham Lands Trust/CBB	Edits to Robbins (Wareham) CPC grant maps
3/15/10	Heidi Blythe - Wareham Lands Trust/CBB	Data calculations for the Sacred Heart CELCP project
3/16/10	Joe Keough - Marion Open Space Acq. Comm.	7-map series for a LWCF grant for the Borden's Brook property in Marion.
3/16/10	Allen Decker - CBB	8.5x11 aerial of Carreiro property in Fairhaven
3/18/10	Kerri Murphy - CBB	Edits to Wareham watershed and sewers map for Wareham Nitrogen talks
3/18/10	Allen Decker - CBB	4 maps for Mahoney - Fairhaven LWCF grant application and data calcs.
3/18/10	Allen Decker - CBB	Edits to Mahoney soils map to make it conform to the LWCF grant application requirements
3/22/10	Tony Williams - CBB	Create a poster for a water quality monitoring conference in Denver
3/25/10	Allen Decker - CBB	Edits to 2 maps for Mahoney LWCF grant
3/29/10	Allen Decker - CBB	Edits to soils map for Mahoney LWCF grant
3/29/10	Allen Decker - CBB	Notify MassGIS of new CR in Fairhaven (Viverios)
3/30/10	Tony Williams - CBB	Edits to Denver conference map

Date	Person/Organization Making Request	Description of Request
4/1/10	Mark Rasmussen - CBB	Size E map of Watershed with open space and sewers for education exhibit at CBB's new office
4/6/10	Heidi Blythe - Wareham Lands Trust/CBB	2 size E maps of Robbins property in Wareham
4/7/10	Joe Keough - Marion Open Space Acq. Comm.	Assistance writing LAND grant application and making maps (5) for Bordens Brook property in Marion
4/8/10	Allen Decker - CBB	3-panel size E map (aerial, topo, parcels) of Acushnet River Estuarine Reserve
4/12/10	Tony Williams - CBB	Size E poster showing nutrient-related health of Buzzards Bay Embayments for presentation at a conference
4/13/10	Allen Decker - CBB	Edits to Acushnet River Reserve map
4/13/10	Dexter Mead - DNRT	Updated map of Dartmouth open space for use in newsletter
4/14/10	Jess Whittaker - Sippican Lands Trust	46-map series of all SLT lands for stewardship purposes
4/27/10	Brendan Annett - CBB	8.5x11 of Wankinquoah Rod & Gun Club in Middleborough
4/28/10	Brendan Annett - CBB	Size E 3-panel (aerial, topo, parcels) of Wankinquoah Rod & Gun Club
5/4/10	Laurell Farinon - Rochester Con Comm	Updated Size E map of open space in Rochester
5/5/10	Brendan Annett - CBB	8.5x11 aerial of Decas land in Mattapoissett for town meeting vote for CPA funds
5/6/10	Allen Decker - CBB	8.5x11 parcel map of Acushnet River Estuarine Reserve
5/10/10	Nick Nicholson - Mattapoissett Water/Sewer Dept.	Calculate shoreline miles and miles of sewerred shoreline
5/12/10	John Darwin - Fairhaven-Acushnet Land Trust	Updated 8.5x11 map of FALPT lands for newspaper article
5/13/10	Kerri Murphy - CBB	Digitize sewerred areas of Buzzards Bay and update basic watershed map for display at CBB's new office
5/13/10	Halima Tiffany - Rochester Land Trust	8.5x11 map for RLT's Barn Tour fundraiser
5/19/10	Lorraine Roy-Hawkes - Rochester resident	two 8.5x11 maps of landowner's properties in Rochester and Mattapoissett
5/19/10	Mark Rasmussen - CBB	Three size E maps of Buzzards Bay for display at new CBB office
5/19/10	Joan Pierce - DFW	Size D updated Red Brook map and make a new size D of Century bog (2 maps)
5/24/10	Mark Rasmussen - CBB	Edits to Buzzards Bay 3-D map
5/24/10	Halima Tiffany - Rochester Land Trust	Edits to Barn Tour map
5/24/10	Dexter Mead - DNRT	Edits to Destruction Brook shapefile
5/24/10	Mark Rasmussen - CBB	Edits to 3 maps for CBB education center
5/25/10	Jess Whittaker - Sippican Lands Trust	Updates to trail maps (digitize trails on, etc) - 7 maps
5/25/10	Allen Decker - CBB	Two 8.5x11 maps of Mahoney properties in Rochester and Mattapoissett
5/26/10	Allen Decker - CBB	Data calcs. for Mahoney properties for grant proposal
6/7/10	Gary Johnson - Mattapoissett Land Trust	Two Size E maps (aerial and parcel) of Mattapoissett open space for Harbor Days festival
6/7/10	Halima Tiffany - Rochester Land Trust	8.5x11 aerial of Leonards Pond for canoe/kayak event
6/14/10	Allen Decker - CBB	8.5x11 black and white map of Mahoney property in Mattapoissett for recording CR at the Registry
6/14/10	Brendan Annett - CBB	8.5x11 aerial of Horseshoe Pond property in Wareham
6/23/10	Allen Decker - CBB	Two 8.5x11 of properties along Acushnet River for NBHCT application and data calculations
6/23/10	Allen Decker - CBB	8.5 x11 of Carreiro property in Fairhaven, showing exclusion
6/28/10	Brendan Annett - CBB	Size E 3-panel map (aerial, topo, parcel) of Gayoski property in Rochester
7/1/10	Dexter Mead - Dartmouth Natural Resources Trust	Digitize 3 newly acquired open space parcels and send to MassGIS
7/8/10	Allen Decker - Coalition for Buzzards Bay	Four 8.5x11 maps of Decas land for Conservation Partnership grant application
7/12/10	Brendan Annett - Coalition for Buzzards Bay	8.5x11 aerial of Rentumis property in Rochester
7/15/10	Allen Decker - Coalition for Buzzards Bay	6-map series for NAWCA grant application for the Lower Weweantic River and data calculations
7/19/10	Allen Decker - Coalition for Buzzards Bay	6-map series for NAWCA grant application for the Little River and data calculations
7/20/10	Allen Decker - Coalition for Buzzards Bay	Edits to 4 Wareham NAWCA maps
7/20/10	Kerri Driscoll - Coalition for Buzzards Bay	Edits to Wareham Nitrogen maps
7/20/10	Allen Decker - Coalition for Buzzards Bay	Notify MassGIS of Tripps Mill Brook CR in Mattapoissett
7/21/10	Laurell Farinon - Rochester Con Comm	Create spreadsheet detailing open space by type with acreages in Rochester
7/26/10	Laurell Farinon - Rochester Con Comm	15-map series of trail maps for Rochester Open Space Committee

Date	Person/Organization Making Request	Description of Request
8/5/10	Brendan Annett - Coalition for Buzzards Bay	8.5x11 of Salters Point Improvement Assoc. properties in South Dartmouth
8/10/10	Jesse Ferreira - Coalition for Buzzards Bay	Size E and 8.5x11 topo of Weweantic Corridor project for WLT fundraising cruise & CPC Presentation
8/12/10	Brendan Annett - Coalition for Buzzards Bay	8.5x11 aerial of CBB priority protection area in Bourne
8/17/10	Allen Decker - Coalition for Buzzards Bay	Notify MassGIS of Fitzgerald CR in Fairhaven
8/18/10	Brendan Annett - Coalition for Buzzards Bay	Edits to CBB Priority Area map
8/24/10	Brendan Annett - Coalition for Buzzards Bay	8.5 x11 aerial map of land adjacent to MMR
8/24/10	Brendan Annett - Coalition for Buzzards Bay	8.5 x11 aerial map of Balderson property in Dartmouth
8/24/10	Brendan Annett - Coalition for Buzzards Bay	8.5 x11 aerial map of McCabe property in Wareham
8/26/10	Laurell Farinon - Rochester Con Comm	Calculate the percent of open space in Rochester
8/26/10	Tony Williams - Coalition for Buzzards Bay	3 individual Baywatcher maps for volunteers
8/26/10	Jesse Ferreira - Coalition for Buzzards Bay	8.5 x11 of Weweantic Corridor properties on aerial for CPC presentation
8/31/10	Jesse Ferreira - Coalition for Buzzards Bay	8.5x11 aerial of Nulands Neck CR in fairhaven
9/7/10	Anne Burnett - Sippican Lands Trust	Size E aerial of Mahoney/McIntyre property for annual meeting
9/8/10	Anne Burnett - Sippican Lands Trust	Size E parcel map of open space in Marion
9/9/10	Anne Burnett - Sippican Lands Trust	Size E map of all Marion open sapce as one color
9/9/10	Anne Burnett - Sippican Lands Trust	Size E aerial of SLT fee-owned lands
9/10/10	Jesse Ferreira - Coalition for Buzzards Bay	2 maps - 8.5x11s of Weweantic Corridor for grant proposal
9/13/10	Jesse Ferreira - Coalition for Buzzards Bay	3 maps - 8.5x11s of Gravelle Property in Wareham (parcels, wets, priority habitat)
9/13/10	Brendan Annett - Coalition for Buzzards Bay	8.5x11 aerial of Eagle Holt property in Wareham
9/13/10	Brendan Annett - Coalition for Buzzards Bay	8.5x11 aerial of Tripps Mill Brook - phase II in Mattapoisett
9/14/10	Brendan Annett - Coalition for Buzzards Bay	Size E parcel map of Mattapoisett River Conservation Project
9/15/10	Allen Decker - Coalition for Buzzards Bay	3maps for Decas - Mattapoisett DEP Drinking Water Supply Protection grant application
9/16/10	Brendan Annett - Coalition for Buzzards Bay	Edits to Mattapoisett River Conservation Project Map
9/17/10	Brendan Annett - Coalition for Buzzards Bay	Update Acushnet River Reserve map
9/20/10	Jesse Ferreira - Coalition for Buzzards Bay	8.5x11 aerial of 3 properties in Wareham
9/22/10	Gary Johnson - Mattapoisett Land Trust	Size E aerial of Brownell property for fundraising purposes
9/22/10	Nancy Durfee - SRPEDD	GIS open space data on disk
9/23/10	Laurell Farinon - Rochester Con Comm	2 trail maps for properties in Rochester
9/27/10	Gary Johnson - Mattapoisett Land Trust	Edits to Brownell property map
9/27/10	Jesse Ferreira - Coalition for Buzzards Bay	Update Nolan map, plus create 3 additional maps of Wetlands, Habitat and BioMap
9/29/10	John Darwin - Fairhaven-Acushnet Land Trust	8.5x11 map of FALPT lands for annual appeal letter
9/29/10	Kerri Driscoll - Coalition for Buzzards Bay	Size E of Mattapoisett wetlands with 25-foot setback
10/1/10	Brendan Annett - Coalition for Buzzards Bay	8.5x11 of McCabe property in Wareham for CPC vote
10/4/10	John Browning - Wareham Land Trust	Size D aerial of Weweantic Corridor Project
10/5/10	Jesse Ferreira - Coalition for Buzzards Bay	Three 8.5x11 aerials of properties in Wareham
10/6/10	Anne Burnett - Sippican Lands Trust	Edits to SLT lands map, Size E
10/8/10	Brendan Annett - Coalition for Buzzards Bay	Edits to Decas - Mattapoisett map
10/12/10	Martha Maguire - Wareham Land Trust	Map of WLT lands along the Agawam for newsletter graphic
10/13/10	Jesse Ferreira - Coalition for Buzzards Bay	Edits to Wareham CPC map for Agawam River
10/18/10	Marion Conservation Commission	9-map series of Con Comm land and CRs on aerials

Date	Person/Organization Making Request	Description of Request
10/20/10	Tony Williams - Coalition for Buzzards Bay	Layout and print spreadsheet of Baywatchers' data for volunteer party
10/21/10	Jesse Ferreira - Coalition for Buzzards Bay	8.5x11 aerial of Onset Water Department Lands
10/21/10	Russ Keeler - Rochester Land Trust	8.5x11 aerial of Church property in Rochester for potential acquisition
10/25/10	Brendan Annett - Coalition for Buzzards Bay	Two 8.5x11 maps and data calcs. For Mattapoissett River Wetlands NAWCA grant application
10/26/10	Allen Decker - Coalition for Buzzards Bay	Two 3-map series for CPA applications: Wolf Island in Fairhaven and North Woods in Mattapoissett
10/26/10	Jesse Ferreira - Coalition for Buzzards Bay	Two 8.5x11 topos of Fairhaven Town Forest for baseline document
11/2/10	Tony Williams - Coalition for Buzzards Bay	Map of sewerred areas in Buzzards Bay for ANEP conference presentation
11/3/10	Rob Hancock - Coalition for Buzzards Bay	GIS data on CD - open space, LIDAR, parcels
11/3/10	Anne Burnett - Sippican Lands Trust	Reprints of 4 maps
11/4/10	Jesse Ferreira - Coalition for Buzzards Bay	8-map series for baseline document for 2 Fairhaven properties
11/5/10	Jesse Ferreira - Coalition for Buzzards Bay	Three Size E watershed maps with open space, developed areas and counties
11/5/10	Gary Johnson - Mattapoissett Land Trust	8.5x11 aerial of Brownell property in Mattapoissett with BioMap for grant application
11/9/10	Brendan Annett - Coalition for Buzzards Bay	Graphic of CBB acquisitions in Mattapoissett River Vallet for CBB newsletter
11/9/10	Jesse Ferreira - Coalition for Buzzards Bay	3-map series, aerials of 3 counties
11/15/10	Ginette Castro - Rochester Open Space Comm.	Locus map of publically accessible lands in Rochester for trail map book
11/15/10	Brendan Annett - Coalition for Buzzards Bay	Provide GIS data on CD
11/17/10	Brendan Annett - Coalition for Buzzards Bay	8.5x11 aerial of property on Morse Lane in Acushnet
11/17/10	Brendan Annett - Coalition for Buzzards Bay	8.5x11 aerial of Atwood property in Wareham
11/19/10	Brendan Annett - Coalition for Buzzards Bay	Size E aerial of Acushnet River Conservation & Restoration Project
11/22/10	Anne Burnett - Sippican Lands Trust	Size E parcel map of Marion with SLT lands
11/22/10	Brendan Annett - Coalition for Buzzards Bay	Edits to Acushnet River Conservation & Restoration Project map
11/29/10	Brendan Annett - Coalition for Buzzards Bay	8.5x11 aerial of Eagle Holt property in Wareham
11/30/10	Jesse Ferreira - Coalition for Buzzards Bay	Three 8.5x11 aerials of Viveiros property in Fairhaven
11/30/10	Jesse Ferreira - Coalition for Buzzards Bay	8.5x11 of Gregory property in Wareham
12/1/10	Brendan Annett - Coalition for Buzzards Bay	3 CDs of BBNEP GIS data
12/2/10	Brendan Annett - Coalition for Buzzards Bay	8.5x11 of Acushnet River NBHTC project
12/2/10	Jesse Ferreira - Coalition for Buzzards Bay	7-map series of baseline document maps for Tripps Mill Brook in Mattapoissett
12/6/10	Jesse Ferreira - Coalition for Buzzards Bay	Weweantic Corridor map for CPC request
12/6/10	Jesse Ferreira - Coalition for Buzzards Bay	3-map series of Hedin property in Wareham (aerial, priority habitat, wetlands)
12/6/10	Jesse Ferreira - Coalition for Buzzards Bay	Weweantic Corridor map for CPC request
12/6/10	Brendan Annett - Coalition for Buzzards Bay	Edits to Acushnet River NBHTC map
12/7/10	Allen Decker - Coalition for Buzzards Bay	8.5x11 parcel map of Marsh Island in Fairahven for local newspaper article
12/9/10	Jim Gurney - Marion Open Space Acquisition Comm	Size E topo of Marion
12/9/10	Marion Conservation Commission	Size E map of all Marion open space
12/9/10	Anne Burnett - Sippican Lands Trust	Updates to Marion open space map
12/13/10	Allen Decker - Coalition for Buzzards Bay	Three 8.5x11 maps of potential Tinkham project in Mattapoissett
12/13/10	Brendan Annett - Coalition for Buzzards Bay	Size E map of mattapoissett River Valley Land Acquisitions
12/14/10	Brendan Annett - Coalition for Buzzards Bay	Edits to Mattapoissett River Valley Acquisition map
12/14/10	Allen Decker - Coalition for Buzzards Bay	Edits to Tinkham map
12/14/10	Jesse Ferreira - Coalition for Buzzards Bay	8.5x11 aerial of Hedin property in Wareham

Date	Person/Organization Making Request	Description of Request
12/17/10	Jesse Ferreira - Coalition for Buzzards Bay	8.5x11 aerial of Bryant Farm in Wareham
12/21/10	Allen Decker - Coalition for Buzzards Bay	8.5x11 topo of New Bedford Road tract in Fairhaven for baseline document
12/21/10	Jesse Ferreira - Coalition for Buzzards Bay	8.5x11 locus map for Tripps Mill Brook baseline document
12/29/10	Jesse Ferreira - Coalition for Buzzards Bay	8.5x11 aerial of Ninety Six LLC properties in Wareham for P&S
12/29/10	Russ Keeler - Rochester Land Trust	8.5x11 open space map of Rochester for distribution to new members
12/30/10	Jesse Ferreira - Coalition for Buzzards Bay	Edits to Ninety Six LLC P&S map
1/4/11	Brendan Annett - Coalition for Buzzards Bay	8.5x11 aerial of Welch property in Mattapoisett
1/4/11	Jesse Ferreira - Coalition for Buzzards Bay	8.5x11 aerial of New Boston Road properties in Fairhaven
1/10/11	Jesse Ferreira - Coalition for Buzzards Bay	Lat/long coordinates and map for New Boston Road properties in Fairhaven
1/11/11	Jesse Ferreira - Coalition for Buzzards Bay	8.5x11 aerial of Deitlin Woods parking area, Freetown
1/11/11	Jesse Ferreira - Coalition for Buzzards Bay	Lat/long coordinates and map for Tripps Mill Brook in Mattapoisett
1/13/11	Jesse Ferreira - Coalition for Buzzards Bay	Lat/long coordinates and map for Fitzgerald property in Fairhaven
1/13/11	Jesse Ferreira - Coalition for Buzzards Bay	Lat/long coordinates and map for Marks Cove/Columbia St Property in Wareham
1/14/11	Jesse Ferreira - Coalition for Buzzards Bay	Lat/long coordinates and map for Gregory property in Wareham
1/24/11	Jesse Ferreira - Coalition for Buzzards Bay	6 baseline maps for New Boston Conservation Road property, Fairhaven
1/25/11	Brendan Annett - Coalition for Buzzards Bay	8.5x11 map and data calcs of invasive species around Salters Pond in Dartmouth
1/27/11	Brendan Annett - Coalition for Buzzards Bay	8.5x11 aerial of Acusnet Sawmill Upland Management Plan and data calculations
1/27/11	Brendan Annett - Coalition for Buzzards Bay	All Buzzards Bay area digital assessors parcels on CD
1/28/11	Allen Decker - Coalition for Buzzards Bay	4 maps for New Boston Road LAND grant requirements
1/31/11	Jesse Ferreira - Coalition for Buzzards Bay	edits to two New Boston Road maps
2/1/11	Brendan Annett - Coalition for Buzzards Bay	8.5x11 aerial of Indian Cove Trust and Indian Cove Boatyard parcels
2/1/11	Allen Decker - Coalition for Buzzards Bay	8.5x11 topo map and shapefile for Fairhaven CR #11 (Marsh Island South) to send to MassGIS
2/3/11	Jesse Ferreira - Coalition for Buzzards Bay	Two aerials of New Boston Road property in Fairhaven for baseline document
2/3/11	Jesse Ferreira - Coalition for Buzzards Bay	Two aerials of Deitlin property in Freetown for baseline document
2/3/11	Allen Decker - Coalition for Buzzards Bay	Edits to Marsh Island South aerial
2/7/11	Dexter Mead - Dartmouth natural Resources Trust	Send shapefile of new CR to MassGIS
2/10/11	Allen Decker - Coalition for Buzzards Bay	Data calculations for Decas property in Mattapoisett for grant application
2/14/11	Kerri Driscoll - Coalition for Buzzards Bay	4 map series (size E) for Westport River Watersheds (wetlands, land use, open space, shellfish)
2/15/11	Allen Decker - Coalition for Buzzards Bay	Data calculations for Rentumis property in Rochester
2/16/11	Jesse Ferreira - Coalition for Buzzards Bay	Two 8.5x11 aerials of the Ninety-Six LLC property in Wareham
2/16/11	Jesse Ferreira - Coalition for Buzzards Bay	Map and spreadsheet of lat/long coordinates for Deitlin property in Freetown
2/18/11	Brendan Annett - Coalition for Buzzards Bay	8.5x11 aerial of lower Weweantic acquisition parcels
2/18/11	Brendan Annett - Coalition for Buzzards Bay	8.5x11 aerial of Sippewissett salt ponds, Falmouth
2/25/11	Allen Decker - Coalition for Buzzards Bay	8.5x11 topo of Rentumis property in Rochester for DCS CR application
2/25/11	Kerri Driscoll - Coalition for Buzzards Bay	8.5x11 map of Wareham for BOH to use with new net zero regulations
2/28/11	Brendan Annett - Coalition for Buzzards Bay	Two 8.5x11 maps of Horseshoe Pond damn and lower Weweantic Phase 2 properties
3/1/11	Jesse Ferreira - Coalition for Buzzards Bay	Five 8.5x11 baseline maps for Deitlin property in Freetown
3/2/11	Brendan Annett - Coalition for Buzzards Bay	Three 8.5x11 maps of Flume Pond, Wood Neck Beach Pond, and Gunning Point Pond in Falmouth
3/3/11	Brendan Annett - Coalition for Buzzards Bay	8.5x11 of Mattapoisett River Valley Land Protection Project highlighting North Woods Property
3/4/11	Brendan Annett - Coalition for Buzzards Bay	Edits to North Woods map for use in MLT newsletter

Date	Person/Organization Making Request	Description of Request
3/8/11	Brendan Annett - Coalition for Buzzards Bay	Size E 3-panel map of Westport open space
3/9/11	Kerri Driscoll - Coalition for Buzzards Bay	8.5x11 map of Wareham for MET grant application (nitrogen project)
3/10/11	Laurell Farinon - Rochester Conservation Comm	Size E open space map of Rochester
3/11/11	Jesse Ferreira - Coalition for Buzzards Bay	4-map series of Weweantic corridor for town meeting presentation
3/14/11	Jesse Ferreira - Coalition for Buzzards Bay	Edits to Weweantic corridor maps
3/15/11	Rob Hancock - Coalition for Buzzards Bay	4 graphics for Falmouth office exhibit
3/18/11	Allen Decker - Coalition for Buzzards Bay	4 map series for Conservation Partnership grant for Mahoney property in Mattapoisett
3/18/11	Allen Decker - Coalition for Buzzards Bay	Two maps of St. George Greek Orthodox Church Land in Dartmouth with BioMap, open space, and aerial
3/18/11	Brendan Annett - Coalition for Buzzards Bay	Aerial map of Shaw Farm in Fairhaven and data calculations
3/21/11	Gary Johnson - Mattapoisett Land Trust	4-map series of Brownell property in Mattapoisett for Conservation Partnership grant
3/21/11	Jesse Ferreira - Coalition for Buzzards Bay	Aerial of open space around Viveiros property in Fairhaven
3/28/11	Brendan Annett - Coalition for Buzzards Bay	8.5x11 of DeNormandie nasketucket lands in Fairhaven/Mattapoisett
3/29/11	Kerri Driscoll - Coalition for Buzzards Bay	Edits to Westport map series and 1 new map of CBB Priority Protection Area
3/30/11	Allen Decker - Coalition for Buzzards Bay	Edits to Mahoney Conservation Partnership grant application - add 200ft wetland buffer
4/4/11	Dave Janik - Coastal Zone Management	11 map series for Wareham Harbor Plan
4/6/11	Brendan Annett - Coalition for Buzzards Bay	Edits to DeNormandie/Nasketucket map
4/6/11	Jesse Ferreira - Coalition for Buzzards Bay	Edits to Weweantic corridor map
4/6/11	Brendan Annett - Coalition for Buzzards Bay	8.5x11 aerial of protected open space around Nasketucket Bay
4/7/11	Brendan Annett - Coalition for Buzzards Bay	8.5x11 aerial of Red Brick Farm - Mattapoisett River Valley
4/8/11	Brendan Annett - Coalition for Buzzards Bay	Sold map for Red Brick Farm
4/8/11	Sharon Baptiste - Sippican Lands Trust	Coordinates for all SLT lands
4/11/11	Dave Janik - Coastal Zone Management	Shellfish bed map for Wareham Harbor Plan
4/11/11	Allen Decker - Coalition for Buzzards Bay	Edit Mahoney map series (3 maps) for Worton Trust grant application
4/11/11	Merilees Kelly - Acushnet Con Comm	Size E map of Acusnet with town-owned lands
4/25/11	Jesse Ferreira - Coalition for Buzzards Bay	Size E map of lower Weweantic Phase II project
4/25/11	Sarah Ashley - Coalition for Buzzards Bay	Edits to Quissett Harbor trends map
4/26/11	Peter Newton - Mattapoisett Con Comm	3 size E maps of Mattapoisett natural resources for display at Sustainability Club fair
4/28/11	Allen Decker - Coalition for Buzzards Bay	Wetlands breakdowns for 3 NAWCA replacement properties
5/2/11	Brendan Annett - Coalition for Buzzards Bay	Nasketucket CELCP grant maps - 8 maps
5/5/11	Allen Decker - Coalition for Buzzards Bay	Open space map for DeNormandies Farm and Ranch LAND grant
5/6/11	Jesse Ferreira - Coalition for Buzzards Bay	Edits to Weweantic corridor map
5/9/11	Allen Decker - Coalition for Buzzards Bay	NAWCA substitution maps (replace Crooked River with North Woods/Brownell) - 7 map series
5/9/11	Dexter Mead - Dartmouth Natural Resources Trust	8.5x11 of Dartmouth open space for annual report
5/9/11	Laurell Farinon - Rochester Conservation Comm	Two 8.5x11 maps for town meeting - Arney & Wolf Island Road properties
5/10/11	Jesse Ferreira - Coalition for Buzzards Bay	Edits to lower Weweantic map for use at Town Meeting
5/11/11	Laurell Farinon - Rochester Conservation Comm	Edits to two town meeting maps
5/11/11	Allen Decker - Coalition for Buzzards Bay	Wetland calculations for NAWCA substitution projects - 2 projects
5/13/11	Allen Decker - Coalition for Buzzards Bay	3 NAWCA maps, Decas addition
5/17/11	Dexter Mead - Dartmouth Natural Resources Trust	Size D and Size E maps of Dartmouth open space
5/18/11	Allen Decker - Coalition for Buzzards Bay	8.5x11 of potential CR in Dartmouth - Spindler. Two maps

Date	Person/Organization Making Request	Description of Request
5/24/11	Laurell Farinon - Rochester Conservation Comm	Update Rochester open space plan maps - 12 map series
6/7/11	Allen Decker - Coalition for Buzzards Bay	8.5x11 of Exhibit B - Mahoney CR - Fairhaven for submission to the Registry of Deeds
6/13/11	Jesse Ferreira - Coalition for Buzzards Bay	3 maps for Horseshoe Pond Dam Conservation Partnership Grant
6/16/11	Allen Decker - Coalition for Buzzards Bay	3-panel Size E of DeNormandie Land
6/16/11	Gary Johnson - Mattapoisett Land Trust	Update aerial and parcel Size E open space maps of Mattapoisett for Harbor Days festival
6/21/11	Allen Decker - Coalition for Buzzards Bay	Four 8.5x11 maps - Matt. River, LaPalme, Nasketucket & Horseshoe Pond for grant submission
6/24/11	Allen Decker - Coalition for Buzzards Bay	Edits to 4 maps above
6/28/11	Jesse Ferreira - Coalition for Buzzards Bay	USGS topo map of Horseshoe Pond dam parcel for grant application, 8.5x11
6/29/11	Nancy Durfee - SRPEDD	Buzzards Bay open space GIS data on CD
7/11/11	Allen Decker - Buzzards Bay Coalition	5-map series for LaPalme LAND grant application
7/12/11	Allen Decker - Buzzards Bay Coalition	Water resources map for LaPalme LAND grant
7/15/11	Allen Decker - Buzzards Bay Coalition	4-map series for Brownell Conservation Partnership Grant application & data calculations
7/15/11	Allen Decker - Buzzards Bay Coalition	Edits to Town Line Conservation Partnership grant & data calculations
7/15/11	Jesse Ferierra - Buzzards Bay Coalition	4-map series for Horseshoe Pond Conservation Partnership grant & data calculations
7/19/11	Sarah Hewins - Carver Conservation Commission	Create census graphic for Carver Open Space Plan
7/25/11	Sarah Hewins - Carver Conservation Commission	Make edits to Carver Open Space Plan maps
7/27/11	Jesse Ferierra - Buzzards Bay Coalition	7-map Baseline series for Marsh Island North in Fairhaven
7/28/11	Brendan Annette - Buzzards Bay Coalition	8.5x11 aerial of protected open space in southern Bourne
7/28/11	Jesse Ferierra - Buzzards Bay Coalition	7-map Baseline series for Marsh Island South in Fairhaven
7/29/11	Jesse Ferierra - Buzzards Bay Coalition	Size E map of protected open space in Wareham for trail planning purposes
8/2/11	Allen Decker - Buzzards Bay Coalition	Make edits to Salter's Point CR map, southern portion
8/4/11	Allen Decker - Buzzards Bay Coalition	two 8.5x11 maps (aerial and parcel) of Gilmore property in Rochester for potential CR
8/4/11	Jesse Ferierra - Buzzards Bay Coalition	Provide GIS mapping project (.mxd) and all shapefiles used to make a Wareham open space map
8/11/11	Allen Decker - Buzzards Bay Coalition	3-map series for Papas property in Fairhaven, and 3-map series for Papas property in Mattapoisett
8/12/11	Anne Burnett - Sippican Lands Trust	Aerial map of Mahoney lands in Marion with wetlands
8/15/11	Jesse Ferierra - Buzzards Bay Coalition	6-map baseline series for Darman property in Wareham
8/16/11	Jesse Ferierra - Buzzards Bay Coalition	9-map baseline series for Gregory property in Wareham
8/25/11	Brendan Annette - Buzzards Bay Coalition	8.5x11 map of Sippican River Revitalization Effort
8/31/11	Allen Decker - Buzzards Bay Coalition	8.5x11 of Salters Point CR
8/31/11	Allen Decker - Buzzards Bay Coalition	Make size E map of Salters Point CR
9/1/11	Brendan Annette - Buzzards Bay Coalition	Major edits to Sippican River Revitalization map
9/7/11	Jess Whittaker - Sippican Lands Trust	4-map series of Marion Village Estates for CPA application
9/8/11	Jess Whittaker - Sippican Lands Trust	Edits to CPA maps
9/8/11	Betsy White - Westport River Watershed Alliance	Map of Westport River watersheds on a topo
9/16/11	Brendan Annette - Buzzards Bay Coalition	Updates to Lower Weweantic River map
9/19/11	Allen Decker - Buzzards Bay Coalition	4-map series of Robichaud property in Fairhaven (aerial, wets, open space & habitat)
9/19/11	Allen Decker - Buzzards Bay Coalition	Edits to Acushnet River Reserve map
9/21/11	Dave Janik - Coastal Zone Management	Map of Old South Wharf in Fairahven, aerial with parcels
9/23/11	Allen Decker - Buzzards Bay Coalition	Topo map and land cover calculations for Gilmore property in Rochester
10/5/11	Allen Decker - Buzzards Bay Coalition	6-map series for Decas Drinking Water Supply Protection grant application, Mattapoisett

Date	Person/Organization Making Request	Description of Request
10/7/11	Allen Decker - Buzzards Bay Coalition	Map of McCabe property in Wareham with Priority Habitat
10/12/11	Bob O'Connor - EEA	Spreadsheet of lands protected with BBNEP mini-grant funds, 5-year period
10/12/11	Gary Sherman - Town of Westport	Shoreline calculations for all of Westport
10/17/11	Brendan Annette - Buzzards Bay Coalition	Size E map of Westport south - 3-panel map
10/17/11	Brendan Annette - Buzzards Bay Coalition	Size E map of Westport West shore of Upper East branch, 3-panel
10/19/11	Allen Decker - Buzzards Bay Coalition	4-map series of Reservation Golf Course in Mattapoisett & data calculations
10/19/11	Allen Decker - Buzzards Bay Coalition	Edits to Decas Riverfront map
10/21/11	Dave Janik - Coastal Zone Management	2 maps of Eastern Fisheries in New Bedford
10/21/11	Allen Decker - Buzzards Bay Coalition	3-map series of Decas Mattapoisett Riverfront project for NAWCA grant application & data calculations
10/24/11	Allen Decker - Buzzards Bay Coalition	4-new NAWCA maps for Decas and data calculations
10/25/11	Dave Janik - Coastal Zone Management	8.5x11 serial of Maritime International property in New Bedford
10/31/11	Martha Maguire - Wareham Land Trust	Graphic of open space in Wewantice River corridor for WLT newsletter
11/3/11	Dave Janik - Coastal Zone Management	2 maps of Eastern Fisheries in New Bedford
11/3/11	Allen Decker - Buzzards Bay Coalition	2 maps of Denormandie property in Fairhaven for CPA application
11/4/11	Allen Decker - Buzzards Bay Coalition	Make edits to Nasketucket Fields map
11/7/11	Dave Janik - Coastal Zone Management	Aerial map of Fairhaven Shipyard
11/8/11	Allen Decker - Buzzards Bay Coalition	3 maps of Wolf Island Road CR in Mattapoisett & Rochester
11/10/11	Allen Decker - Buzzards Bay Coalition	Aerial map of City of New Bedford-owned property located in Dartmouth
11/14/11	Brendan Annette - Buzzards Bay Coalition	Create a mailing list of selected 5-acre or greater properties in Westport
11/15/11	Dave Janik - Coastal Zone Management	Aerial map of Maritime International in New Bedford
11/16/11	Bill Staltonstall - Sippican Lands Trust	Spreadsheet of coordinates and maps for all SLT properties - 26 maps total
12/1/11	Laurell Farinon - Rochester Conservation Commission	Basemap for Church Field property trail map
12/5/11	Allen Decker - Buzzards Bay Coalition	Edits to Mattapoisett Riverfront locus map for NAWCA grant
12/5/11	Halima Tiffany - Rochester Land Trust	Map of Rochester Land Trust properties
12/5/11	Laurell Farinon - Rochester Conservation Commission	Edits to open space maps - 14 maps total
12/5/11	Jesse Ferriera - Buzzards Bay Coalition	Tripps Mill Brook existing open space baseline map
12/8/11	Allen Decker - Buzzards Bay Coalition	Aerial and parcel maps of Greater South Meadow Cedar Swamp in Carver (2 maps)
12/8/11	Jesse Ferriera - Buzzards Bay Coalition	9-map baseline series for Murphy Freedom property in Wareham
12/9/11	Ozzy Ozenkowski - Mattapoisett Land Trust	Size E map of open space in Mattapoisett
12/12/11	Jesse Ferriera - Buzzards Bay Coalition	11-map baseline series for Baldwin property in Wareham, and spreadsheet of corner points
12/12/11	Jesse Ferriera - Buzzards Bay Coalition	11-map baseline series for Fearing Hill property in Wareham, and spreadsheet of corner points
12/14/11	Jesse Ferriera - Buzzards Bay Coalition	11-map baseline series for Fearing Hill Swamp property in Wareham, and spreadsheet of corner points
1/3/12	Jim Marot - Acushnet Building Inspector	Update zoning map for Acushnet
1/6/12	Joan Pierce - MA Division of Fish and Wildlife	Map of protected open space in the Mattapoisett River Valley
1/9/12	Allen Decker - Buzzards Bay Coalition	3 maps of Old Aucoot area in Mattapoisett for NAWCA substitution project
1/11/12	Shannon McManus - Buzzards Bay Coalition	2 spreadsheets of lat/long coordinates for boat ramps and beaches in Buzzards Bay
1/12/12	Allen Decker - Buzzards Bay Coalition	Edits to one NAWCA map, and create 2 new NAWCA maps
1/19/12	Allen Decker - Buzzards Bay Coalition	Edits to 5 NAWCA maps
1/20/12	Jim Marot - Acushnet Building Inspector	Two maps of different zoning areas of Acushnet
1/23/12	Allen Decker - Buzzards Bay Coalition	3 maps for NAWCA CR (Old Aucoot Property)

Date	Person/Organization Making Request	Description of Request
1/25/12	Pamela LaBonte - Acushnet Town Clerk	Size E Zoning map for Acushnet
1/25/12	Allen Decker - Buzzards Bay Coalition	Black and white CR map for Old Aucoot property
1/25/12	Laurell Farinon - Rochester Conservation Agent	Spreadsheet of protected open space in Rochester
1/30/12	Allen Decker - Buzzards Bay Coalition	Data calculations for Old Aucoot property in Mattapoisett for CR
1/30/12	Jesse Ferierra - Buzzards Bay Coalition	9-map Baseline series for Tripps Mill Brook II property in Mattapoisett
2/1/12	Allen Decker - Buzzards Bay Coalition	Parcel map of Old Aucoot property with parcel map/lot numbers
2/2/12	Allen Decker - Buzzards Bay Coalition	Notify MassGIS of Fairhaven CR - New Boston Road
2/6/12	Joe Keogh - Marion OS Acquisition Commission	8 trail maps of Town of Marion properties
2/7/12	Brendan Annette - Buzzards Bay Coalition	10-map series of various streams in Westport
2/8/12	Allen Decker - Buzzards Bay Coalition	Data calculations of Hathaway Pond Dam parcel
2/13/12	Joe Keogh - Marion OS Acquisition Commission	2 additional Marion trail maps
2/14/12	Brendan Annette - Buzzards Bay Coalition	2 maps of properties in Mattapoisett - Randall and Nichols
2/14/12	Jesse Ferierra - Buzzards Bay Coalition	8-map baseline series for Rentumis property in Rochester
2/14/12	Jesse Ferierra - Buzzards Bay Coalition	8-map baseline series for Old Haskell Swamp property in Rochester
2/14/12	John Darwin - Fair-Acushnet Land Preservation Trust	update FALPT maps with 3 new acquisitions
2/14/12	Brendan Annette - Buzzards Bay Coalition	Three 8.5x11 aerials of Sawford property in Middleboro (property map, BioMap, Priority Habitat)
2/27/12	Joe Keogh - Marion OS Acquisition Commission	3 additional Marion trail maps
2/27/12	Brendan Annette - Buzzards Bay Coalition	Acushnet River land use map - 8.5x11
2/28/12	Jesse Ferierra - Buzzards Bay Coalition	8.5x11 aerial and shapefile for Decas property in Mattapoisett
2/28/12	Allen Decker - Buzzards Bay Coalition	4-map series for Town Line CR in Mattapoisett - B&W CR map, Priority habitat, BioMap, Living Waters
3/2/12	Allen Decker - Buzzards Bay Coalition	8.5x11 map of Taylor property on West Island
3/5/12	Allen Decker - Buzzards Bay Coalition	Three 8.5x11 maps of Borden property in Westport
3/6/12	John Darwin - Fair-Acushnet Land Preservation Trust	2 trail maps of FALPT properties
3/7/12	Jesse Ferierra - Buzzards Bay Coalition	Five 8.5x11 maps of Hill Co. Minot/Agawam Lands in Wareham (natural resources)
3/7/12	Jesse Ferierra - Buzzards Bay Coalition	Two 8.5x11 maps of Tobey Hospital parcel in Wareham
3/7/12	Jesse Ferierra - Buzzards Bay Coalition	Three 8.5x11 maps of Galavotti Back parcel in Wareham
3/8/12	Brendan Annette - Buzzards Bay Coalition	Significant edits/updates and data calculations to Mattapoisett River Drinking Water Supply Lands map
3/12/12	Brendan Annette - Buzzards Bay Coalition	Additional edits and additions to Mattapoisett River Drinking Water Supply Lands map
3/12/12	Jesse Ferierra - Buzzards Bay Coalition	Three additional Galavotti Back maps
3/12/12	Jesse Ferierra - Buzzards Bay Coalition	Five additional Hill property maps
3/12/12	Jesse Ferierra - Buzzards Bay Coalition	8-map baseline series for Old Aucoot property in Mattapoisett
3/14/12	Jesse Ferierra - Buzzards Bay Coalition	2 soils maps - Marks Cove and Fearing Hill Swamp in Wareham
3/15/12	Sara Quintal - Buzzards Bay Coalition	Buzzards Bay open space GIS data
3/16/12	Joe Keogh - Marion OS Acquisition Commission	2 additional Marion trail maps
3/16/12	Jesse Ferierra - Buzzards Bay Coalition	calculate coordinates in decimal degrees for a property
3/19/12	Brendan Annette - Buzzards Bay Coalition	8.5x11 aerial of Tripps Mill Brook showing boundary issues
3/19/12	Brendan Annette - Buzzards Bay Coalition	8.5x11 aerial of selected open space properties in Rochester
3/20/12	Allen Decker - Buzzards Bay Coalition	4 maps of the Spindler property in Dartmouth
3/21/12	Jesse Ferierra - Buzzards Bay Coalition	Open sapce baseline map for Gregory parcel in Wareham
3/21/12	Jesse Ferierra - Buzzards Bay Coalition	Lat/long conversions for 5 properties

Date	Person/Organization Making Request	Description of Request
3/22/12	Allen Decker - Buzzards Bay Coalition	8.5x11 of Denormandie property showing habitat coverages
3/26/12	Brendan Annette - Buzzards Bay Coalition	4 Westport property maps - Gifford (2), Boyer and Marcus
3/27/12	Jesse Ferriera - Buzzards Bay Coalition	5-map series for Vlope property in Wareham (natural resources)
3/27/12	Jesse Ferriera - Buzzards Bay Coalition	9-maps baseline series for Town Line property in Mattapoisett
3/29/12	Allen Decker - Buzzards Bay Coalition	Edits to Town Line - Exhibit B map
3/29/12	Jesse Ferriera - Buzzards Bay Coalition	2-map series for Hamer property in Wareham
3/30/12	Brendan Annette - Buzzards Bay Coalition	Two 8.5x11 maps of Rocky Gutter Protected Wildlife Corridor
3/30/12	Jesse Ferriera - Buzzards Bay Coalition	Additional lat/long conversions
3/30/12	Debby Chormicle - Fair-Acushnet Land Preservation Trust	Lat/long coordinates for selected FALPT properties
4/3/12	Jesse Ferriera - Buzzards Bay Coalition	Convert three GPS files to lat/long coordinates
4/3/12	Gary Johnson - Mattapoisett Land Trust	2 maps - size E aerial and parcel maps of Mattapoisett open space for Harbor Days festival
4/5/12	Yelena Sheynin- Sippican Lands Trust	2 aerial maps of SLT properties
4/5/12	Debby Chormicle - Fair-Acushnet Land Preservation Trust	3 aerial maps of FALPT properties with coordinates
4/10/12	Gary Johnson - Mattapoisett Land Trust	3 trails maps for MLT properties
4/11/12	Jesse Ferriera - Buzzards Bay Coalition	2 maps of Ahern property in Wareham for Town Meeting presentation
4/12/12	Allen Decker - Buzzards Bay Coalition	8.5x11 aerial of potential Spindler CR in Dartmouth
4/23/12	Jesse Ferriera - Buzzards Bay Coalition	Edits to Wewiantic Corridor map for use in presentation at Town Meeting
4/23/12	Brendan Annette - Buzzards Bay Coalition	Edits to Mattapoisett River Valley map
4/23/12	Allen Decker - Buzzards Bay Coalition	2 maps of Simmons properties in Fairhaven
4/23/12	Brendan Annette - Buzzards Bay Coalition	Aerial map of Mitchell property in Mattapoisett
4/23/12	Allen Decker - Buzzards Bay Coalition	2 maps of Cerkovitz property in Marion
4/23/12	Yelena Sheynin- Sippican Lands Trust	Aerial map of Mahoney property in Marion showing abutter names
4/24/12	Jesse Ferriera - Buzzards Bay Coalition	8-map baseline series for McCabe property in Wareham
4/24/12	Dexter Mead - Dartmouth Natural Resources Trust	Update Dartmouth open space map with new acquisitions
4/25/12	Allen Decker - Buzzards Bay Coalition	4-map series of Welega , Coleho and LaPalme properties in Acushnet for New Bedford Harbor Trustee work
4/26/12	Brendan Annette - Buzzards Bay Coalition	8.5x11 of Mattapoisett River Valley - general map
4/26/12	Laurell Farinon - Rochester Conservation Agent	3 maps of new and old FIRM boundaries for a property on Snipatuit Pond
4/26/12	Joe Keogh - Marion OS Acquisition Commission	Edits to Marion trail maps
4/27/12	Ben Smith - MassGIS	provide shapefile to MassGIS of new open space acquisitions in Buzzards bay watershed
4/27/12	Laurell Farinon - Rochester Conservation Agent	Size E map of Q3 and new FIRM maps for Rochester for comparison purposes
4/30/12	Brendan Annette - Buzzards Bay Coalition	8.5x11 aerial of Georges Pond area of Dartmouth
5/2/12	Allen Decker - Buzzards Bay Coalition	Map of lands protected in the Mattapoisett River Valley
5/3/12	Jesse Ferreira - Buzzards Bay Coalition	Edits to McCabe baseline maps
5/4/12	Allen Decker - Buzzards Bay Coalition	Exhibit A map (CR) for Wankinquoah Road and Gun Club in Middleborough
5/4/12	Laurell Farinon - Rochester Con Comm	2 size E and 2 8.5x11 maps (parcel and aerial) of comparison between new and old FRMA maps for Rochester
5/4/12	Allen Decker - Buzzards Bay Coalition	5-map series of Wankinquoah Rod and Gun Club in Middleborough
5/7/12	Gary Johnson - Mattapoisett Land Trust	Edits to Walega-Livingstone trail maps
5/10/12	Brendan Annett - Buzzards Bay Coalition	4 Size E maps of Mattapoisett (ecological resources, FEMA, open space, and water resources)
5/11/12	Gary Johnson - Mattapoisett Land Trust	Edits to Old Aucoot District trail map
5/11/12	Brendan Annett - Buzzards Bay Coalition	Edits to Mattapoisett ecological resources map

Date	Person/Organization Making Request	Description of Request
5/14/12	Gary Johnson - Mattapoisett Land Trust	Additional edits to Old Aucoot trail map
5/14/12	Allen Decker - Buzzards Bay Coalition	15-map series of close out maps for Inner Bay NAWCA grant
5/14/12	Yelana Sheynin - Sippican Lands Trust	Provide GIS files of Sippican Lands Trust Lands
5/15/12	Dave Janik - CZM	Edits to Steamship Authority map
5/16/12	Halima Tiffany - Rochester Land Trust	2 Size E open space maps of Rochester (aerial/parcel) and edits to Barn Tour Guide map
5/21/12	Allen Decker - Buzzards Bay Coalition	Two 8.5x11 maps of Walega and Coelho, aerials - Acushnet
5/22/12	Allen Decker - Buzzards Bay Coalition	Topo map and shapefile of Dufficy-Lawrence CR in Rochester for MassGIS
5/22/12	Allen Decker - Buzzards Bay Coalition	Two 8.5 x11 parcel maps of Acushnet properties - Coelho and Walega
5/22/12	Brendan Annett - Buzzards Bay Coalition	Size E 3-panel map of Northeast Rochester
5/23/12	Allen Decker - Buzzards Bay Coalition	Transmit Dufficy-Lawrence CR in Rochester to MassGIS (map and shapefile)
5/30/12	Allen Decker - Buzzards Bay Coalition	Transmit Rentumis CR in Rochester to MassGIS (map and shapefile)
5/31/12	Allen Decker - Buzzards Bay Coalition	Transmit Old Haskell Farm CR in Rochester to MassGIS (map and shapefile)
6/1/12	Allen Decker - Buzzards Bay Coalition	Transmit Old Aucoot CR in Mattapoisett to MassGIS (map and shapefile)
6/7/12	Allen Decker - Buzzards Bay Coalition	8.5x11 black and white map of Westgate property (McCabe) in Wareham
6/7/12	Jesse Ferreira - Buzzards Bay Coalition	9-map baseline series for Dufficy-Lawrence CR in Rochester
6/12/12	Allen Decker - Buzzards Bay Coalition	Open space calculations for Mattapoisett Open Space and Recreation Plan update
6/12/12	Allen Decker - Buzzards Bay Coalition	Data calculations and 5 maps for Randall Farm CR in Mattapoisett
6/13/12	Brendan Annett - Buzzards Bay Coalition	Size E map for NBHTC Round VI projects
6/14/12	Joe Keough - Marion Open Space Acquisition Comm	Edits to Eastover Farm Trail map
6/15/12	Brendan Annett - Buzzards Bay Coalition	6-map series for Nasketucket Bay USFWS Coastal Wetlands Conservation Program grant
6/15/12	Brendan Annett - Buzzards Bay Coalition	Data calculations for USFWS CWCP grant - Nasketucket
6/15/12	Allen Decker - Buzzards Bay Coalition	6-map series and data calculations for Randall Woodlot CR in Mattapoisett
6/19/12	Jesse Ferreira - Buzzards Bay Coalition	8-map baseline series for Coelho - Acushnet
6/19/12	Jesse Ferreira - Buzzards Bay Coalition	8-map baseline series for Walega - Acushnet
6/22/12	Jesse Ferreira - Buzzards Bay Coalition	Convert GPS coordinates for Coelho in Acushnet to decimal degrees
6/22/12	Jesse Ferreira - Buzzards Bay Coalition	8-map basebine series for Lapalme - Acushnet
6/25/12	Brendan Annett - Buzzards Bay Coalition	Edits to 6 USFWS CWCP grants maps - Nasketucket
6/26/12	Paul Ozenkowski - Mattapoisett Land Trust	Reprints of 2012 open space map for stewardship committee
6/26/12	Jesse Ferreira - Buzzards Bay Coalition	8-map baseline series of Carreiro - Fairhaven
6/28/12	Dave Janik - CZM	Aerial map of Atlantic Red Crab Company property - New Bedford
7/6/12	Yelana Sheynin - Sippican Lands Trust	Aerial map of Brainard Marsh in Marion showing wetlands
7/6/12	Jesse Ferreira - Buzzards Bay Coalition	Convert GPS coordinates for Walega property in Acushnet to decimal degree spreadsheet
7/10/12	Laurell Farinon - Rochester Conservation Commission	Topo map of Southcoast rail priority protection areas
7/10/12	Allen Decker - Buzzards Bay Coalition	Map of area of Dexter Lane Fields for PARC grant
7/12/12	Brendan Annett - Buzzards Bay Coalition	4 maps of Sanford property in Middleborough for Conservation Partnership grant
7/13/12	Jesse Ferreira - Buzzards Bay Coalition	Convert GPS coordinates for Westgate property to decimal degree spreadsheet
7/18/12	Dave Janik - Coastal Zone Management	Edits to Atlantic Red Crab Company map
7/19/12	Allen Decker - Buzzards Bay Coalition	Send maps/shapefiles to MassGIS for Akins/Horseshoe Dam CR in Wareham & Townline CR in Mattapoisett
7/23/12	Brendan Annett - Buzzards Bay Coalition	Edits to Lower Weweantic map, update open space changes
7/23/12	Allen Decker - Buzzards Bay Coalition	Black & white map of Ninety-Six property

Date	Person/Organization Making Request	Description of Request
7/30/12	Allen Decker - Buzzards Bay Coalition	Shapefile of NAWCA Inner Bay properties to submit to US Fish and Wildlife
8/1/12	Brendan Annett - Buzzards Bay Coalition	4-map series, Size E - Watershed planning maps
8/3/12	Halima Tiffany - Rochester Land Trust	3 Size E maps of Rochester natural resources for Rochester Country Fair display
8/7/12	Halima Tiffany - Rochester Land Trust	Edits to Rochester Land Trust CR map
8/8/12	Laureen Gerrior - Rochester Land Trust	Size E map of historical cranberry bog expansion, 1971 - 2005
8/8/12	Jesse Ferreira - Buzzards Bay Coalition	3-map series of Southcoast Hospital Group's lands in Wareham and New Bedford
8/23/12	Jesse Ferreira - Buzzards Bay Coalition	Convert GPS coordinates for Dufficy-Lawrence property in Rochester to decimal degree spreadsheet
8/24/12	Jesse Ferreira - Buzzards Bay Coalition	3-map series of Phillips property in Wareham
8/30/12	Jesse Ferreira - Buzzards Bay Coalition	Convert GPS coordinates for LaPalme property in Acushnet to decimal degree spreadsheet
9/5/12	Brendan Annett - Buzzards Bay Coalition	10-map series of Bourne and Falmouth with property owners labeled.
9/6/12	Allen Decker - Buzzards Bay Coalition	Send maps and shapefiles to MassGIS for LaPalme CR in Acushnet & Wolf Island CR in Mattapoisett/Rochester
9/11/12	Brendan Annett - Buzzards Bay Coalition	Create shapefile of DeNormandie/Mitchell properties to submit to DCR for possible expansion of NB Reservation
9/14/12	Brendan Annett - Buzzards Bay Coalition	Significant edits to 3 watershed planning maps & create new priority protection area shapefile
9/17/12	Brendan Annett - Buzzards Bay Coalition	Significant edits to Bourne/Falmouth watershed planning maps and edit Priority Protection Area shapefile
9/18/12	Allen Decker - Buzzards Bay Coalition	2 maps of Carvalho Farm in Fairhaven (aerial and open space) for site visit
10/1/12	Elizabeth Leidhold - Mattapoisett Conservation Comm	3 size E maps of Mattapoisett - open space, wetlands, habitat
10/3/12	Allen Decker - Buzzards Bay Coalition	Land use calculations for McCabe property in Wareham and Lloyd Woods property in Dartmouth
10/3/12	Rachel Jakuba - Buzzards Bay Coalition	Update State of The Bay poster
10/4/12	Gary Johnson - Mattapoisett Land Trust	Update Nasketucket Bay State Reservation trail map
10/12/12	Dave Janik - Coastal Zone Management	Map of potential redevelopment areas in New Bedford on Acushnet River
10/12/12	Rachel Jakuba - Buzzards Bay Coalition	Edits to State of the Bay map
10/15/12	Dave Janik - Coastal Zone Management	Edits to redevelopment map
10/15/12	Brendan Annett - Buzzards Bay Coalition	Locus map showing New England estuaries
10/16/12	Allen Decker - Buzzards Bay Coalition	2 maps for Rocky Gutter (Middleborough) NAWCA Small Grants application
10/18/12	Allen Decker - Buzzards Bay Coalition	Shapefile of Rocky Gutter acquisition and match properties for NAWCA grant submission
10/24/12	Allen Decker - Buzzards Bay Coalition	Priority habitat and BioMap maps for Sanford/WRGC in Middleborough
10/24/12	Allen Decker - Buzzards Bay Coalition	Edits to wetlands and locus maps for Rocky Gutter NAWCA grant
10/24/12	Yelana Sheynin - Sippican Lands Trust	2 maps of SLT lands showing hunting areas
10/25/12	Brendan Annett - Buzzards Bay Coalition	Calculate acreage of Mattapoisett River Valley Zone II and acreage of open space
10/26/12	Jesse Ferreira - Buzzards Bay Coalition	Convert GPS coordinates to decimal degree spreadsheet
10/26/12	Allen Decker - Buzzards Bay Coalition	Aerial map of Lloyd Woods in Dartmouth
10/31/12	Allen Decker - Buzzards Bay Coalition	Wetland and upland calculations for DeNormandie property in Mattapoisett
11/2/12	Allen Decker - Buzzards Bay Coalition	Wetlands map of DeNormandie property in Mattapoisett
11/2/12	Allen Decker - Buzzards Bay Coalition	3-map series for Diddel property in Falmouth (BioMap, Priority Habitat, Aerial)
11/2/12	Brendan Annett - Buzzards Bay Coalition	Aerial map of Acushnet River estuary conservation lands
11/5/12	Allen Decker - Buzzards Bay Coalition	Additional Diddel map - open space
11/7/12	Brendan Annett - Buzzards Bay Coalition	11x17 map of Chappy/W Falmouth/Sippewissett area with wetlands, open space and landowner information
11/9/12	Brendan Annett - Buzzards Bay Coalition	3 Westport property maps - Bittersweet Farm, Lees and Sazaro
11/9/12	Brad Hathaway - Mattapoisett resident	Size C map of proposed CPA acquisition in Mattapoisett for presentation to Selectmen
11/13/12	Allen Decker - Buzzards Bay Coalition	Map of Jenney Farm, Viveiros Field and Beach Association in Fairhaven (3 maps)

Date	Person/Organization Making Request	Description of Request
11/14/12	Brendan Annett - Buzzards Bay Coalition	Edits to Lees - Westport map
11/14/12	Brendan Annett - Buzzards Bay Coalition	Standard property map of lot 54-44B & D in Westport
11/15/12	Mike Huguenin - Mattapoisett Land Trust	8 baseline maps for Indian Cove Preserve in Mattapoisett
11/16/12	Mike Huguenin - Mattapoisett Land Trust	Additional map for Indian Cove Preserve - soils map
11/27/12	Halima Tiffany - Rochester Land Trust	Update Rochester open space map to be included in newsletter
11/27/12	Allen Decker - Buzzards Bay Coalition	Edits to Carvalho Farm map - Fairhaven
11/28/12	Brendan Annett - Buzzards Bay Coalition	Data calculations for 4 properties in Westport
11/30/12	Allen Decker - Buzzards Bay Coalition	Topo map of proposed Peter's Creek CR in Dartmouth for submission to MA Historical for review
12/4/12	Mike Huguenin - Mattapoisett Land Trust	Edits to 2 baseline maps for Indian Cove Preserve
12/7/12	Allen Decker - Buzzards Bay Coalition	Black and white map of Peter's Creek in Dartmouth for CR submittal to State
12/10/12	Allen Decker - Buzzards Bay Coalition	Two maps for potential NAWCA proposal - Widemarsh in Fairhaven
12/13/12	Allen Decker - Buzzards Bay Coalition	Edits to 3 maps - Jenney Farm, Viveiros & Widemarsh - all in Fairhaven
12/13/12	Allen Decker - Buzzards Bay Coalition	Map of North Woods CR showing surrounding open space
12/13/12	Brendan Annett - Buzzards Bay Coalition	Aerial map of Trott property in Fairhaven
12/14/12	Brendan Annett - Buzzards Bay Coalition	Standard property map of NHT Corporation property in Rochester
12/17/12	Brendan Annett - Buzzards Bay Coalition	Edits to NHT Corp. property map
12/17/12	Brendan Annett - Buzzards Bay Coalition	Biomap/Priority Habitat maps of NHT Corp. property in Rochester
12/18/12	Allen Decker - Buzzards Bay Coalition	Two maps for Walega/Coelho/Riverside CR. Also wetlands data and river frontage calculations
12/18/12	Jesse Ferreira - Buzzards Bay Coalition	8-map baseline series of Lloyd Woods in Dartmouth
1/2/13	Brendan Annett - Buzzards Bay Coalition	Size E Strategic Plan 2013: Priority Protection Areas map
1/3/13	Brendan Annett - Buzzards Bay Coalition	Edits to Strategic Plan map
1/4/13	Brendan Annett - Buzzards Bay Coalition	Data calculations related to Strategic Plan map
1/4/13	Brendan Annett - Buzzards Bay Coalition	Additional edits to Strategic Plan map
1/8/13	Mike Huguenin - Mattapoisett Land Trust	5-map baseline series for Dexter Mill property
1/8/13	Mike Huguenin - Mattapoisett Land Trust	5-map baseline series for Dunseith Gardens property
1/9/13	Mike Huguenin - Mattapoisett Land Trust	5-map baseline series for Woodcock Preserve property
1/10/13	Mike Huguenin - Mattapoisett Land Trust	5-map baseline series for Munn Preserve property
1/10/13	Allen Decker - Buzzards Bay Coalition	Edits to Carvalho Map
1/11/13	Mike Huguenin - Mattapoisett Land Trust	5-map baseline series for Carins/Gergorie property
1/15/13	Ozzy Ozenkowski - Mattapoisett Land Trust	2 maps of Grace Pond preserve in Mattapoisett
1/15/13	Mike Huguenin - Mattapoisett Land Trust	5-map baseline series for Engelica Estates property
1/17/13	Jesse Ferreira - Buzzards Bay Coalition	Make updates to Westgate (Wareham) open space map for baseline series
1/17/13	Allen Decker - Buzzards Bay Coalition	Edits to Nasketucket Field map for presentation at a public meeting
1/17/13	Mike Huguenin - Mattapoisett Land Trust	5-map baseline series for Crowell Preserve property
1/18/13	Mike Huguenin - Mattapoisett Land Trust	5-map baseline series for Murray Preserve property
1/22/13	Mike Huguenin - Mattapoisett Land Trust	5-map baseline series for Ferreira Preserve property
1/22/13	Mike Huguenin - Mattapoisett Land Trust	5-map baseline series for Pine Island Pond property
1/23/13	Jesse Ferreira - Buzzards Bay Coalition	2 maps of Wareham Feed Company property in Wareham
1/23/13	Mike Huguenin - Mattapoisett Land Trust	5-map baseline series for Walega-Livingstone Preserve property
1/25/13	Dexter Mead - Dartmouth Natural Resources Trust	Update Dartmouth GIS open space data with new properties and forward updates to MassGIS

Date	Person/Organization Making Request	Description of Request
1/29/13	Laurell Farinon - Rochester Conservation Comm.	2 maps of Doggett Brook property for trail planning purposes
1/31/13	Jesse Ferreira - Buzzards Bay Coalition	2 maps of Hamer/Florindo properties in Wareham
1/31/13	Jesse Ferreira - Buzzards Bay Coalition	3 maps of Myers property in Wareham
1/31/13	Jesse Ferreira - Buzzards Bay Coalition	2 maps of Piers property in Wareham
2/4/13	Allen Decker - Buzzards Bay Coalition	Topo map of North Woods in Mattapoisett for State CR application
2/6/13	Brendan Annett - Buzzards Bay Coalition	11-map series of DeNormandie properties in Fairhaven and Mattapoisett
2/6/13	Laurell Farinon - Rochester Conservation Comm.	Edits to Doggett Brook property trail map
2/7/13	Brendan Annett - Buzzards Bay Coalition	Edits to 2 DeNormandie maps
2/7/13	Brendan Annett - Buzzards Bay Coalition	8.5 x11 aerial of Mitchell Property in Fairhaven and shapefiles for DeNormandie and Mitchell properties
2/13/13	Allen Decker - Buzzards Bay Coalition	Saltmarsh calculations for Town of Fairhaven property
2/14/13	Dexter Mead - Dartmouth Natural Resources Trust	Correct Dartmouth open space GIS layer to match new MassGIS Level 3 parcels
2/15/13	Mike Huguenin - Mattapoisett Land Trust	5-map baseline series for Shoolman Park property
2/19/13	Mike Huguenin - Mattapoisett Land Trust	5-map baseline series for Newman Preserve property
2/19/13	Mike Huguenin - Mattapoisett Land Trust	5-map baseline series for Munro Waterfront Preserve property
2/27/13	Allen Decker - Buzzards Bay Coalition	Edits to Nasketucket map for fairhaven CPC submittal
2/27/13	Gary Johnson - Mattapoisett Open Space Committee	Prepare Protected Open Space Inventory for draft Mattapoisett Open Space & Recreation Plan
3/5/13	Allen Decker - Buzzards Bay Coalition	2 maps of Acushnet River Reserve for CR purposes
3/6/13	Allen Decker - Buzzards Bay Coalition	Update MassGIS with Westgate CR, Wareham #27
3/6/13	Merilee Kelly - Acushnet Conservation Comm.	Size D map of Buzzards Bay watershed
3/7/13	Allen Decker - Buzzards Bay Coalition	3 maps for Falmouth properties - Shearer, Fugalister and Bowermans Beach condos
3/7/13	Allen Decker - Buzzards Bay Coalition	Edits to Nasketucket/DeNormandie map for presentation at Town Meeting
3/13/13	Brendan Annett - Buzzards Bay Coalition	Aerial map of proposed Shearer CR in Falmouth
3/13/13	Mike Huguenin - Mattapoisett Land Trust	5-map baseline series for Eustis Preserve property
3/14/13	Mike Huguenin - Mattapoisett Land Trust	5-map baseline series for Murphy Preserve property
3/14/13	Mike Huguenin - Mattapoisett Land Trust	5-map baseline series for Dupont Drive Preserve property
3/15/13	Mike Huguenin - Mattapoisett Land Trust	5-map baseline series for Morris Preserve property
3/19/13	Mike Huguenin - Mattapoisett Land Trust	5-map baseline series for McGowan/Farber Preserve property
3/20/13	Mike Huguenin - Mattapoisett Land Trust	5-map baseline series for Gorzka Preserve property
3/21/13	Dave Janik - Costal Zone Management	Spreadsheet of assessors data for properties in the New Bedford/Fairhaven DPA
3/12/13	Mike Huguenin - Mattapoisett Land Trust	5-map baseline series for Violette Preserve property
3/22/13	Mike Huguenin - Mattapoisett Land Trust	5-map baseline series for Bellenger property
3/26/13	Allen Decker - Buzzards Bay Coalition	Edits to Nasketucket Woods map
3/26/13	Dave Janik - Costal Zone Management	Additions made to NB/Fairhaven DPA spreadsheet
3/26/13	Allen Decker - Buzzards Bay Coalition	Boundary map for Decas property (Matt. Riverfront) in Mattapoisett for fundraising purposes
3/28/13	Allen Decker - Buzzards Bay Coalition	Edits to Mattapoisett Riverfront natural resources map for submittal with LWCF grant application
4/1/13	Brendan Annett - Buzzards Bay Coalition	Map of Nasketucket Bay project showing bike path
4/5/13	Allen Decker - Buzzards Bay Coalition	2 maps for a grant application for the Mattapoisett Wells properties (LWCF?)
4/5/13	Laurell Farinon - Rochester Conservation Comm.	Edits to Church's Field and Leonard's Pond trail maps
4/8/13	Jesse Ferreira - Buzzards Bay Coalition	4 maps of Onset Realty Asociation property in Warehan, plus provided deed and plan
4/8/13	Dave Janik - Costal Zone Management	Maps of properties in New Bedford DPA showing Chapter 91 jurisdiction

Date	Person/Organization Making Request	Description of Request
4/10/13	Brendan Annett - Buzzards Bay Coalition	Edits to Chapaquoit map
4/10/13	Laurell Farinon - Rochester Conservation Comm.	Trail maps for Haskell Ridge and Kirby Preserve
4/11/13	Liz Leidhold - Mattapoisett Open Space Committee	Size E open space map of Mattapoisett for Open Space Plan Public Meeting
4/12/13	Brendan Annett - Buzzards Bay Coalition	Edits to Nasketucket Bay project map with bike path
4/12/13	Allen Decker - Buzzards Bay Coalition	7-map series of Acushnet River Reserve CR for presentation to BOS in Acushnet and Fairhaven
4/12/13	Allen Decker - Buzzards Bay Coalition	Edits to Acushnet River Reserve parcel map
4/12/13	Liz Leidhold - Mattapoisett Open Space Committee	Size E subwatershed map of Mattapoisett for Open Space Plan Public Meeting
4/12/13	Brendan Annett - Buzzards Bay Coalition	Map of Nasketucket Bay properties in landscape format
4/16/13	Liz Leidhold - Mattapoisett Open Space Committee	Size E Land Use map of Mattapoisett for Open Space Plan Public Meeting
4/17/13	Allen Decker - Buzzards Bay Coalition	Calculate coordinates for Mattapoisett Riverfront property
4/17/13	Dexter Mead - Dartmouth Natural Resources Trust	8.5 x 11 map of open space in Dartmouth for use in landtrust newsletter
4/22/13	Laurell Farinon - Rochester Conservation Comm.	Edits to Haskell Ridge trail map
4/23/13	Brendan Annett - Buzzards Bay Coalition	Edits to Nasketucket project map for use in a fact sheet
4/26/13	Allen Decker - Buzzards Bay Coalition	7-map series for Gifford parcels in Westport for potential CR
4/26/13	Brendan Annett - Buzzards Bay Coalition	Edits to 2 Rocky Gutter maps
4/28/13	Allen Decker - Buzzards Bay Coalition	Edits to Gifford maps, plus map 2 additional maps (open space and zoom in of CR exclusion)
4/28/13	Brendan Annett - Buzzards Bay Coalition	Edits to Mattapoisett River Valley Drinking Water Supply Lands map
4/30/13	Laurell Farinon - Rochester Conservation Comm.	Edits to 5 Rochester trail maps
5/1/13	Brendan Annett - Buzzards Bay Coalition	Edits to Nasketucket trail/bike path map
5/1/13	Brendan Annett - Buzzards Bay Coalition	Change layout of Nasketucket map to landscape
5/1/13	Allen Decker - Buzzards Bay Coalition	5-map series of Widemarsh Beach Association property in Fairhaven
5/2/13	Brendan Annett - Buzzards Bay Coalition	Wetland map for Nasketucket project, plus wetland data calculations for the property
5/2/13	Gary Johnson - Mattapoisett Land Trust	Edits to Mattapoisett open space GIS layer, and print aerial and parcel open space maps for Harbor Days Fest
5/3/13	Allen Decker - Buzzards Bay Coalition	2 maps and data calculations for 2 CRs in Middleborough - Rocky Gutter area
5/7/13	Allen Decker - Buzzards Bay Coalition	Edits to 2 Rocky Gutter CR maps and creation of 2 new additional maps
5/8/13	Allen Decker - Buzzards Bay Coalition	Edits to 2 maps for use at Mattapoisett Town Meeting for acquisition of Mattapoisett Wells parcels
5/10/13	Allen Decker - Buzzards Bay Coalition	2 maps and data calculations for Sanford CR in Middleborough (exhibit map and topo map)
5/14/13	Allen Decker - Buzzards Bay Coalition	Landscape map of Gifford CR in Westport with data calculations
5/15/13	Dave Janik - MA Coastal Zone Management	6-map series of Chapter 91 jurisdiction within New Bedford/Fairhaven DPA
5/16/13	Jesse Ferreira - Buzzards Bay Coalition	Map of Volpe properties in Wareham
5/17/13	Sara Quintal - Buzzards Bay Coalition	GIS shapefile of Buzzards Bay open space
5/22/13	Allen Decker - Buzzards Bay Coalition	3 maps and data calculations for Duarte-Quintin property in Acushnet
5/22/13	Allen Decker - Buzzards Bay Coalition	Edits to Rocky Gutter NAWCA map
5/23/13	Brendan Annett - Buzzards Bay Coalition	Edits to Rocky Gutter CR exclusion map
5/28/13	Allen Decker - Buzzards Bay Coalition	Edits to Rocky Gutter CR Exhibit map
5/28/13	Brendan Annett - Buzzards Bay Coalition	4-map series of Papas property in Fairhaven and Mattapoisett
5/28/13	Kevin Ferrell - Buzzards Bay Coalition	Create shapefile of GIS open space data for Carver
5/29/13	Dave Pichette - Wareham Conservation Comm	Trail map for Westgate Conservation Area and Riverwalk
5/29/13	Brendan Annett - Buzzards Bay Coalition	Standard aerial map of Bowerman's Beach Club property in Falmouth
5/30/13	Allen Decker - Buzzards Bay Coalition	Create CR map sand send shapefile to MassGIS for Peter's Creek property in Dartmouth

Date	Person/Organization Making Request	Description of Request
5/31/13	Laurell Farinon - Rochester Conservation Comm.	2 size E maps (parcel and aerial) of Dexter Lane trail map
6/5/13	Jesse Ferreira - Buzzards Bay Coalition	Locus map for Tweedy and Barnes Expansion CPC grant application
6/5/13	Jesse Ferreira - Buzzards Bay Coalition	Locus map for Fearing Hill West CPC grant application
6/7/13	Jesse Ferreira - Buzzards Bay Coalition	2 maps for CPC application - Fearing Hill West and Tweedy and Barnes, each showing NHESP data
6/7/13	Jim Marot - Zoning/Building Inspector Acushnet	2 maps - 8x11s, aerial and parcels maps of new Acushnet Zoing. Digitize zoning.
6/11/13	Jesse Ferreira - Buzzards Bay Coalition	8-map baseline series for Acushnet River Reserve East
6/13/13	Brendan Annett - Buzzards Bay Coalition	Edits to Rocky Gutter CR Exclusion map - Middleborough
6/13/13	Allen Decker - Buzzards Bay Coalition	Edits to DeNormandies/Nasketucket Trail easement map
6/17/13	Allen Decker - Buzzards Bay Coalition	Black and white Exhibit B map and data calculations for Rocky Gutter CR - Midd for CR application to state
6/18/13	Allen Decker - Buzzards Bay Coalition	Quad version of Rocky Gutter CR showing BioMap
6/18/13	Dave Pichette - Wareham Conservation Comm	Trail map of Douglas S. Westgate property
6/24/13	Allen Decker - Buzzards Bay Coalition	Edits to Nasketucket map to highlight Mattapoissett side of acquisitions
6/25/13	Allen Decker - Buzzards Bay Coalition	locus map of all NAWCA and National Coastal Wetlands Conservation Funded sites for USFWS site visit
7/1/13	Allen Decker - Buzzards Bay Coalition	BioMap of Bowerman's beach Club in Falmouth
7/1/13	Brendan Annett - Buzzards Bay Coalition	Map of Bowerman's Beach CR with NHESP adaptation areas and natural resource calculations
7/11/13	Allen Decker - Buzzards Bay Coalition	5-map series for DeNormandie LAND Grant - Mattapoissett
7/12/13	Allen Decker - Buzzards Bay Coalition	Notify MassGIS of Sanford CR in Middleborough - Middleborough CR#19
7/12/13	Mark Rasmussen - Buzzards Bay Coalition	Base map for Strategic Plan for open space acquisition and several data calculations
7/15/13	Allen Decker - Buzzards Bay Coalition	Data calculations for DeNormandie (Mattapoissett) LAND grant
7/16/13	Allen Decker - Buzzards Bay Coalition	Remake all 5 LAND maps and make 2 additional maps due to a change in properties (2 dropped from grant)
7/16/13	Allen Decker - Buzzards Bay Coalition	Edits to 4 LAND maps
7/18/13	Brendan Annett - Buzzards Bay Coalition	Size E of watershed wide Strategic Planning map
7/19/13	Allen Decker - Buzzards Bay Coalition	6-map series of Nasketucket Fields (Fairhaven) for Conservation Partnership grant and data calculations
7/23/13	Brendan Annett - Buzzards Bay Coalition	2 aerial maps of 2 properties in Westport (Trepainer and Trecida)
7/31/13	Mark Rasmussen - Buzzards Bay Coalition	Map of new DCR acquisition in Plymouth
8/5/13	Yelana Sheynin - Sippican Lands Trust	6-map baseline series for Grace CR for Land Trust Alliance accreditation
8/7/13	Yelana Sheynin - Sippican Lands Trust	6-map baseline series for Tweedy and Barnes CR for Land Trust Alliance accreditation
8/7/13	Yelana Sheynin - Sippican Lands Trust	6-map baseline series for Marion Golf Course CR for Land Trust Alliance accreditation
8/7/13	Yelana Sheynin - Sippican Lands Trust	6-map baseline series for Baldwin CR for Land Trust Alliance accreditation
8/8/13	Mark Rasmussen - Buzzards Bay Coalition	Create GIS shapefile of Buzzards Bay WaterKeeper jurisdictional area to send to Waterkeeper Alliance
8/12/13	Yelana Sheynin - Sippican Lands Trust	6-map baseline series for Beaton CR for Land Trust Alliance accreditation
8/12/13	Yelana Sheynin - Sippican Lands Trust	6-map baseline series for Waterline CR for Land Trust Alliance accreditation
8/13/13	Brendan Annett - Buzzards Bay Coalition	8.5 x 11 property map of Tartufo property in Mattapoissett
8/13/13	Yelana Sheynin - Sippican Lands Trust	6-map baseline series for Moore-Tabor CR for Land Trust Alliance accreditation
8/13/12	Yelana Sheynin - Sippican Lands Trust	6-map baseline series for Kenney's Landing CR for Land Trust Alliance accreditation
8/14/13	Merilee Kelley - Acushnet Conservation Comm	Size E map of town-owned lands in Acushnet
8/23/13	Brendan Annett - Buzzards Bay Coalition	Update Shaw's Cove maps to show conceptual boundary change
8/27/13	Allen Decker - Buzzards Bay Coalition	make edits to NAWCA site visit map
9/3/13	Elizabeth Leidhold - Mattapoissett Conserv. Comm	Map of Brownell property in Mattapoissett showing wetlands data
9/3/13	Yelana Sheynin - Sippican Lands Trust	Individual shapefiles for all SLT conservation restrictions

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9/6/13	Brendan Annett - Buzzards Bay Coalition	Re-layout Strategic Planning map into an 8.5x11 version and an 11x17 version and export as PDFs
9/11/13	Yelana Sheynin - Sippican Lands Trust	2 maps for Baldwin CR for Land Trust Alliance accreditation
9/11/13	Jessica Whittaker - Attorney/Sippican Lands Trust	5-map series of potential Baywatch Realty Trust CR in Marion
9/12/13	Laurell Farinon - Rochester Conservation Comm	Edits to Doggett's Brook map for submission to NHESP for property restoration work approval
9/13/13	Jessica Whittaker - Attorney/Sippican Lands Trust	Create additional map (open space) for Bay Watch Realty Trust CR in Marion
9/17/13	Allen Decker - Buzzards Bay Coalition	Edits to the DeNormandie overall project map for title work purposes
9/20/13	Laurell Farinon - Rochester Conservation Comm	2 size E maps of Doggett's Brook and Town Forest trail systems for Rochester BOS meeting presentation
9/23/13	Jessica Whittaker - Attorney/Sippican Lands Trust	Vernal pool map for Bay Watch Realty Trust CR in Marion
9/24/13	Allen Decker - Buzzards Bay Coalition	Aerial map of Palmers Island in New Bedford
9/27/13	Brendan Annett - Buzzards Bay Coalition	2 maps showing different trail easement scenarios on DeNormandie property in Fairhaven/Mattapoisett
Date	Person/Organization Making Request	Description of Request
9/30/13	Brendan Annett - Buzzards Bay Coalition	Edits to trail easement maps
10/1/13	Elizabeth Leidhold - Mattapoisett Conserv. Comm	Calculate wetland loss in Mattapoisett from 1995-2009
10/3/13	Brendan Annett - Buzzards Bay Coalition	Aerial map of Trecida and Plant properties in Westport
10/8/13	Mark Rasmussen - Buzzards Bay Coalition	Aerial of Route 6 in Mattapoisett near Turks restaurant, showing landowner and acreage information
10/10/13	Brendan Annett - Buzzards Bay Coalition	Aerial of Wilson property in West Falmouth
10/11/13	Brendan Annett - Buzzards Bay Coalition	Edits to Nasketucket trail map
10/16/13	Brendan Annett - Buzzards Bay Coalition	Edits to Trecida/Plant (Westport) map
10/16/13	Mark Rasmussen - Buzzards Bay Coalition	Edits to Strategic Planning map
10/17/13	Dexter Mead - Dartmouth Natural Resources Trust	Notify MassGIS of new CR in Dartmouth - Dartmouth CR#82
10/21/13	Brendan Annett - Buzzards Bay Coalition	3-map series for Downey property in Mattapoisett (possible NAWCA small grants submission)
10/22/13	Brendan Annett - Buzzards Bay Coalition	Edits to Downey maps
10/22/13	Elizabeth Leidhold - Mattapoisett Conserv. Comm	Various data calculations for Mattapoisett Open Space Plan
10/23/13	Allen Decker - Buzzards Bay Coalition	Habitat map and data calculations for Plant property in Westport
10/23/13	Allen Decker - Buzzards Bay Coalition	Habitat map and data calculations for Wilson property in Falmouth
10/24/13	Mark Rasmussen - Buzzards Bay Coalition	Size E map of Mahoney/McIntyre/Hawes lands in watershed with habitat, Zone II, and BioMap areas
10/28/13	Allen Decker - Buzzards Bay Coalition	2 maps and data calculations for Downey property in Mattapoisett for NAWCA Small Grants submission
10/29/13	Brendan Annett - Buzzards Bay Coalition	Create Strategic Planning map for Westport
10/29/13	Mark Rasmussen - Buzzards Bay Coalition	Make edits to Mahoney/McIntyre/Hawes mapo
10/31/13	Allen Decker - Buzzards Bay Coalition	Make edits to Downey NAWCA maps
10/31/13	Dave Pichette - Wareham Conservation Comm	make edits to Westgate Trail map (Wareham)
11/1/13	Brendan Annett - Buzzards Bay Coalition	Standard property map of Craig property in Mattapoisett
11/1/13	Dave Pichette - Wareham Conservation Comm	Create large scale aerial map of Fearing Hill and Westgate properties in Wareham for trail head sign
11/5/13	Allen Decker - Buzzards Bay Coalition	Make edits to Downey NAWCA maps
11/7/13	Dave Pichette - Wareham Conservation Comm	Design a draft tri-fold brochure/trail map for Westgate property in Wareham
11/13/13	Allen Decker - Buzzards Bay Coalition	Make edits to 2 old DeNormandie maps for submittal to CPA grant
11/14/13	Allen Decker - Buzzards Bay Coalition	Make additional edits to one DeNormandie CPA map
11/18/13	Gary Johnson - Mattapoisett Open Space Comm	Create spreadsheet of all open space in Mattapoisett for Open Space Plan update
11/19/13	Gary Johnson - Mattapoisett Land Trust	Aerial map of Downey property for a fundraising brochure
11/20/13	Laurell Farinon - Rochester Conservation Comm	Calculate Mattapoisett River watershed figures for a MRVWSPAC brochure

Date	Person/Organization Making Request	Description of Request
11/20/13	Gary Johnson - Mattapoisett Land Trust	Make edits to Downey locus map and create a BioMap for the property
12/3/13	Gary Johnson - Mattapoisett Land Trust	Size E 2-frame map of Downey property (locus and BioMap)
12/5/13	Elizabeth Leidhold - Mattapoisett Conserv. Comm	Data calculations and 4 maps for Mattapoisett neck tidal restriction (MT3) for submission to DER
12/9/13	Dexter Mead - Dartmouth Natural Resources Trust	Calculate total acreage of open space in Dartmouth
12/10/13	Mark Rasmussen - Buzzards Bay Coalition	4-map series of the Knubble in Westport
12/11/13	Brendan Annett - Buzzards Bay Coalition	Size E map of cranberry bogs with the potential to be inundated with sea level rise
12/11/13	Allen Decker - Buzzards Bay Coalition	2 maps of the Powel property in Dartmouth
12/12/13	Allen Decker - Buzzards Bay Coalition	2 additional maps of Powel property in Dartmouth
12/16/13	Brendan Annett - Buzzards Bay Coalition	Standard property map of Rinta property in Onset
12/16/13	Brendan Annett - Buzzards Bay Coalition	Standard property map of Handy property in Pocasset
12/17/13	Dexter Mead - Dartmouth Natural Resources Trust	Investigate potential encroachment issue on the Tabors CR in Dartmouth
12/17/13	Brendan Annett - Buzzards Bay Coalition	Edits to Rinta and Handy property maps
12/18/13	Brendan Annett - Buzzards Bay Coalition	Additional edits to Rinta map - change view
12/18/13	Brendan Annett - Buzzards Bay Coalition	Standard property map of Bertrand property in Mattapoisett
12/19/13	Allen Decker - Buzzards Bay Coalition	Map of properies surrounding the Zine CR in Wareham
12/20/13	Allen Decker - Buzzards Bay Coalition	Notify MassGIS of Mattapoisett CR#16 - North Woods
12/20/13	Brendan Annett - Buzzards Bay Coalition	Map of landowners surrounding Gibbs Brook in Onset
12/27/13	Allen Decker - Buzzards Bay Coalition	Priority habitat map for area surrounding the Zine CR in Wareham
12/27/13	Allen Decker - Buzzards Bay Coalition	4-map series for Quahog Hill CR in Fairhaven
12/27/13	Brendan Annett - Buzzards Bay Coalition	2 standard property maps - Rhodes property & 274 Main Street in Wareham