

Commonwealth of Massachusetts

Executive Office of Environmental Affairs ■ MEPA Office

ENF

Environmental Notification Form

Septic system For Office Use Only Executive Office of Environmental Affairs	
EOEA No.:	<u>12731</u>
MEPA Analyst:	<u>Jay Wickersham</u>
Phone:	617-626- <u>1022</u>

The information requested on this form must be completed to begin MEPA Review in accordance with the provisions of the Massachusetts Environmental Policy Act, 301 CMR 11.00.

Project Name: Wings Neck Road Marsh Restoration		
Street: Wings Neck Road		
Municipality: Bourne	Watershed: Buzzards Bay	
Universal Tranverse Mercator Coordinates:	Latitude:	Longitude:
Estimated commencement date: May '02	Estimated completion date: May '02	
Approximate cost: \$40,000	Status of project design: 100 % complete	
Proponent: Town of Bourne Conservation Commission		
Street: 24 Perry Avenue		
Municipality: Bourne	State: MA	Zip Code: 02532
Name of Contact Person From Whom Copies of this ENF May Be Obtained: Barbara Frappier		
Firm/Agency: Warwick & Associates, Inc.	Street: 63 County Road – P. O. Box 801	
Municipality: North Falmouth	State: MA	Zip Code: 02556
Phone: (508) 563-7777	Fax: (508) 563-2638	E-mail: warwick@adelphia.net

- Does this project meet or exceed a mandatory EIR threshold (see 301 CMR 11.03)?
 Yes No
- Has this project been filed with MEPA before?
 Yes (EOEA No. _____) No
- Has any project on this site been filed with MEPA before?
 Yes (EOEA No. _____) No
- Is this an Expanded ENF (see 301 CMR 11.05(7)) requesting:
- a Single EIR? (see 301 CMR 11.06(8)) Yes No
 - a Special Review Procedure? (see 301 CMR 11.09) Yes No
 - a Waiver of mandatory EIR? (see 301 CMR 11.11) Yes No
 - a Phase I Waiver? (see 301 CMR 11.11) Yes No

Identify any financial assistance or land transfer from an agency of the Commonwealth, including the agency name and the amount of funding or land area (in acres): EOEA Wetlands Restoration Program \$19,000.

Are you requesting coordinated review with any other federal, state, regional, or local agency?
 Yes. Specify: _

Which ENF or EIR review threshold(s) does the project meet or exceed (see 301 CMR 11.03):

- | | | |
|---------------------------------|---|--|
| <input type="checkbox"/> Land | <input type="checkbox"/> Rare Species | <input checked="" type="checkbox"/> Wetlands, Waterways, & Tidelands |
| <input type="checkbox"/> Water | <input type="checkbox"/> Wastewater | <input type="checkbox"/> Transportation |
| <input type="checkbox"/> Energy | <input type="checkbox"/> Air | <input type="checkbox"/> Solid & Hazardous Waste |
| <input type="checkbox"/> ACEC | <input checked="" type="checkbox"/> Regulations | <input type="checkbox"/> Historical & Archaeological Resources |

Summary of Project Size & Environmental Impacts	Existing	Change	Total	State Permits & Approvals
LAND				<input checked="" type="checkbox"/> Order of Conditions <input type="checkbox"/> Superseding Order of Conditions <input checked="" type="checkbox"/> Chapter 91 License <input checked="" type="checkbox"/> 401 Water Quality Certification <input type="checkbox"/> MHD or MDC Access Permit <input type="checkbox"/> Water Management Act Permit <input type="checkbox"/> New Source Approval <input type="checkbox"/> DEP or MWRA Sewer Connection/ Extension Permit <input type="checkbox"/> Other Permits <i>(including Legislative Approvals) – Specify:</i> <u>These are permits required for the project but not yet received.</u> _____ _____ _____ _____
Total site acreage	10.07+-			
New acres of land altered		0		
Acres of impervious area	≤ .1	≤ .03	≤ .1	
Square feet of new bordering vegetated wetlands alteration		0		
Square feet of new other wetland alteration		545+- S.F.		
Acres of new non-water dependent use of tidelands or waterways		0		
STRUCTURES				
Gross square footage				
Number of housing units				
Maximum height (in feet)				
TRANSPORTATION				
Vehicle trips per day	N/A	N/A	N/A	
Parking spaces	N/A	N/A	N/A	
WATER/WASTEWATER				
Gallons/day (GPD) of water use	N/A	N/A	N/A	
GPD water withdrawal	N/A	N/A	N/A	
GPD wastewater generation/ treatment	N/A	N/A	N/A	
Length of water/sewer mains (in miles)	N/A	N/A	N/A	

CONSERVATION LAND: Will the project involve the conversion of public parkland or other Article 97 public natural resources to any purpose not in accordance with Article 97?

- Yes (Specify _____) No

Will it involve the release of any conservation restriction, preservation restriction, agricultural

preservation restriction, or watershed preservation restriction?

Yes (Specify _____) No

RARE SPECIES: Does the project site include Estimated Habitat of Rare Species, Vernal Pools, Priority Sites of Rare Species, or Exemplary Natural Communities?

Yes (Specify *Estimated Habitat per Natural Heritage 2000 – 2001 Map*) No

HISTORICAL /ARCHAEOLOGICAL RESOURCES: Does the project site include any structure, site or district listed in the State Register of Historic Place or the inventory of Historic and Archaeological Assets of the Commonwealth?

Yes (Specify _____) No

If yes, does the project involve any demolition or destruction of any listed or inventoried historic or archaeological resources?

Yes (Specify _____) No

AREAS OF CRITICAL ENVIRONMENTAL CONCERN: Is the project in or adjacent to an Area of Critical Environmental Concern?

Yes (Specify _____) No

PROJECT DESCRIPTION: The project description should include (a) a description of the project site, (b) a description of both on-site and off-site alternatives and the impacts associated with each alternative, and (c) potential on-site and off-site mitigation measures for each alternative (*You may attach one additional page, if necessary.*)

Wings Neck Road, the only road providing access to the Wings Neck area in the Town of Bourne, crosses a man-made causeway that bisects a salt marsh. The existing 24-inch diameter culvert under and through the causeway is in disrepair and its inadequate size restricts the tidal flow to and fresh water drainage from the upgradient salt marsh. The proposed project will replace the existing culvert with two 3' x 4' concrete box culverts. Associated work includes the construction of rip-rap aprons at the culvert openings, removal of approximately 225 c.f. of sand/sediment build-up, replacement of the guardrail, resurfacing of the roadway, and some planting on the banking. The resource areas in the vicinity of the project site include Coastal Bank, Land Under Ocean, Salt Marsh, Land Containing Fisheries and Shellfisheries, and Land Subject to Coastal Storm Flowage. A portion of the site is also within an Estimated Habitat as mapped by the Natural Heritage & Endangered Species Program. A portion of the work site is owned by the Town of Bourne while the remainder is owned by private parties who have advocated for this work for some time.

This project has been accepted into the GROWetlands Initiative by EOEAs Wetlands Restoration Program as a viable and meaningful step in the effort to rehabilitate or reclaim lost wetlands, particularly salt marshes, throughout the Commonwealth. This project is also a Coastal America project and is supported by each of the Coastal America partners.

The tidally-restricted portion of the marsh is approximately eight acres in area. Over the years the restriction of tidal flow has resulted in a loss of some salt marsh around the perimeter and the encroachment of woody vegetation and invasive species such as common reed (*Phragmites australis*) onto the marsh. A significant problem is that the restrictive culvert hinders the ability of the

upper marsh to properly drain at each tide cycle. This slow drainage has created a shoaling of sand at the mouth of the culvert which only exacerbates the overall situation. More importantly, the estuarine and coastal waters are being deprived of vital detritus and dissolved organics. In addition to enhancing the ability of this marsh to act as an important spawning and nursery habitat for finfish, its rehabilitation is critical to the nekton that utilize the tidal pools.

Due to the specific nature of the project, two options were considered. The first option is to do nothing. This alternative will only lead to further functional loss of the upper salt marsh, depriving the estuarine and coastal waters of important nutrients and allowing upland and/or invasive plant species to continue to encroach onto the marsh. The proposed alternative is based on the results of hydraulic/hydrologic modeling performed for the site by the Natural Resources Conservation Service and is the only viable alternative that will restore/enhance tidal flows to, and improve fresh water drainage from, the tidally-restricted marsh. The proposed work will not lead to any additional flooding of adjacent developments.

Preliminary discussions with design engineers and contractors indicate that all of the work can be accomplished within one week. Prior to the start of construction a siltation / turbidity barrier will be installed to prevent the migration of any disturbed soils beyond the immediate work site. At no time will any excavated soils or other materials be stockpiled in a wetland resource area or allowed to erode into a resource area. Once the barriers have been installed it will be necessary to remove the roadway over the existing culvert. This will be done in ¼ sections. As each new culvert is positioned the roadway will be replaced. The proposed rip-rap apron will prevent the erosion of the banking at either end of the culvert. All heavy equipment will operate from the roadway. There will be on-site hazardous spill absorbent pads and containment booms in the event of an accident or emergency. During construction, traffic flow on Wings Neck Road will be maintained.

The goal of the project is to restore a more normal tidal hydrology to enhance the functions provided by this tidally-restricted salt marsh. There will be unavoidable permanent loss of approximately 130 s.f. of salt marsh at the culvert openings. This is a small sacrificial loss leading to a significant gain in quality and function of the eight-acre salt marsh and its associated marine environment.