Commonwealth of Massachusetts
Executive Office of Environmental Affairs ■ MEPA Office

ENF Environmental Notification Form

For Office Use Only
Executive Office of Environmental Affairs
EOEA No.: 13422
MEPA Analyst: Bill Gage
Phone: 617-626-1025

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: Brandt Beach Sewer Extension Project		
Street: Various streets in the Brandt Beach area of Mattapoisett		
Municipality: **Mattapoisett**	Watershed: **Buzzard's Bay**	
Universal Tranverse Mercator Coordinates: **351550 4612500**	Latitude: **41° 38' 30"** Longitude: **70° 49' 50"**	
Estimated commencement date: **6/05**	Estimated completion date: **9/06**	
Approximate cost: **$2,728,000**	Status of project design: **100**%complete	
Proponent: **Board of Water & Sewer Commissioners**		
Street: **33 Church Street**		
Municipality: **Mattapoisett**	State: **MA**	Zip Code: **02739**
Name of Contact Person From Whom Copies of this ENF May Be Obtained: **Ronald A. Michalski, P.E.**		
Firm/Agency: **Tighe & Bond**	Street: **53 Southampton Road**	
Municipality: **Westfield**	State: **MA**	Zip Code: **01085**
Phone: **413-572-3203**	Fax: **413-562-5317**	E-mail: **ramichalski@tighebond.co**

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 301CMR 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):
An application for an SRF loan from DEP totaling $2,728,000 has been filed

Are you requesting coordinated review with any other federal, state, regional, or local agency?
☐Yes(Specify_____) ☒No

List Local or Federal Permits and Approvals:

Mattapoisett Conservation Commission NOI Process

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

☐ Land
☐ Rare Species
☒ Wetlands, Waterways, & Tidelands
We do not believe a threshold is exceeded
☐ Water
☐ Wastewater
☐ Transportation
☐ Energy
☐ Air
☐ Solid & Hazardous Waste
☐ ACEC
☐ Regulations
☐ Historical & Archaeological Resources

Summary of Project Size & Environmental Impacts	Existing	Change	Total
LAND			
Total site acreage	0		
New acres of land altered		.1 Acre	
Acres of impervious area	0	0	0
Square feet of new bordering vegetated wetlands alteration		0	
Square feet of new other wetland alteration		0	
Acres of new non-water dependent use of tidelands or waterways		0	
STRUCTURES			
Gross square footage	0	500 ft^2	500 ft^2
Number of housing units	0	0	0
Maximum height (in feet)	0	15 ft.	
TRANSPORTATION			
Vehicle trips per day	0	0	0
Parking spaces	0	0	0
WATER/WASTEWATER			
Gallons/day (GPD) of water use	0	0	0
GPD water withdrawal	0	0	0
GPD wastewater generation/ treatment	425,000	47,190*	472,190*
Length of water/sewer mains (in miles)	24 mi.	3.7	27.7

State Permits & Approvals

☒ Order of Conditions
☐ Superseding Order of Conditions
☐ Chapter 91 License
☐ 401 Water Quality Certification
☐ MHD or MDC Access Permit
☐ Water Management Act Permit
☐ New Source Approval
☒ DEP or MWRA Sewer Connection/ Extension Permit
☐ Other Permits (*including Legislative Approvals*) – Specify:

*** Projected sewage flows based on 110 gallons per day per bedroom and 429 bedrooms. Additional discussion provided in the Wastewater Section.**

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_____) ☒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.*)

The Brandt Beach Sewer Extension project will provide sewer service to existing homes in an isolated coastal area of Mattapoisett on Buzzards Bay where small lots, high groundwater and poor soils dominate the area. A Site Locus (USGS map) is provided in Appendix A. On-site sewage problems in Brandt Beach are complicated by the fact that there is no municipal water system. Each homeowner has a private drinking water well with the separation between some wells and on-site septic systems less than 75 feet. The need for sewers in the Brandt Beach area is not a recent finding. On the contrary, Comprehensive Wastewater Planning completed in 1983 recognized the needs for municipal sewer service with a priority rating of 2 based on an overall rating system of 1 to 4 with 4 being areas where sewer service was not promptly needed to address failing septic systems. Extending sewers to Brandt Beach will greatly improve conditions for the 118 existing homes as well as provide broader environmental benefits to the area.

The project includes about 8,700 feet of gravity sewer pipe, 1,800 feet of low pressure sewer, 9,200 feet of force main, a number of grinder pumps and one wastewater pumping station. The proposed Highland Ave. pumping station will be a suction lift facility enclosed within a building designed to be compatible with the surrounding residential neighborhood. The facility will be equipped with the following:

- **Pumps capable of pumping 185 gpm of sewage into the main Mattapoisett force main located about 9,200 feet away that transports sewage to the Fairhaven collection system.**
- **Bioxide chemical storage and metering pumps for odor and corrosion control.**
- **Standby propane driven engine to maintain facility operation during power outages.**
- **Appropriate controls and alarms to operate and monitor operations on a continuous basis.**

All proposed sewer work will be within existing paved or gravel roads with one exception. Approximately 20 grinder pumps will be installed on private property because existing topography is not compatible with gravity sewer connections. The grinder pumps will be located in the field based on dialogue between the Town, the engineer and the homeowner with recognition that the pumps should be located relatively close to the existing house as well as the existing septic tank.

The Brandt Beach sewer project has been designed and plans plus project specifications have been forwarded to DEP for review and approval. In addition, a Wetlands Notice of Intent (NOI)

has been submitted to the local Conservation Commission, a public hearing help and an Order of Conditions for the construction of the project anticipated by December 15, 2004. In addition, a Sewer Extension Permit has been submitted to DEP and a tentative decision to approve has been made and publicized in a local paper. Finally, two additional state agencies have been contacted about the project: the Massachusetts Historical Commission and Coastal Zone Management. Each agency has provided a positive response to the project.

As the Brandt Beach project was being developed, coastal flood plain and velocity zone issues were reviewed. A conceptual sewer layout of the project is provided in Appendix B that provides topography and includes the approximate location of floodplain and velocity zone limits based on a FEMA Flood Insurance Rate Map (Mattapoisett – Panel #2552140015E, revised July 15, 1992). The plan shows that only 9 of the existing homes proposed for sewers are within the 100 year floodplain. The plan also shows that only 8 of the existing homes proposed for sewers are within the velocity zone. No structures are proposed within the flood or velocity zones other than sewer pipes, manholes and grinder pumps: facilities that are buried in the ground. Grinder pump covers will extend about 2 inches above ground but will be both waterproofed and flood proofed.

The only structure that will be built as part of the Brandt Beach sewer extension project is the main wastewater pumping station that will not be within the flood plain or velocity zone. The conceptual sewer layout notes the prime pump station location. However, the site has not been officially acquired. An alternate site located on the north side of Highland Ave. is also being considered. The site is also not in the flood or velocity zone.

The Brandt Beach Sewer Extension project will only serve existing homes and existing open lots that have frontage on a sewered street. A plan provided in Appendix C actually identifies lots with existing homes, lots that can be potentially sewered and lots that cannot be sewered. The plan will be used by the Mattapoisett Board of Water & Sewer Commissioners to control connections to the new sewerage system.

Finally, the only alternate to the proposed sewer extension includes a combination "tight" tanks or "raised mound systems" for sewage disposal with lot sizes and groundwater the determining factors. Some existing homes have small lots that cannot support a "raised mound system".