



Massachusetts Department of Environmental Protection

Bureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability Hingham

Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

Municipality

B. Project Description (cont.)

2. a. Activity/Work Description (use additional paper and/or provide plan(s) of Activity, if necessary):

The replacement of a failing field is being proposed in the backyard of the property. The existing 1500 gallon Septic Tank and existing 1500G Pump Chamber are to be left in place and reused. The old system was pressure distribution into a stone field. The new system being proposed is a d-box gravity fed Geomat Leaching system. Under the remedial use permit the Geomat system is considered an alternative SAS with treatment.

- b. Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant from having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary).

outside the 50' Buffer and in pre-existing lawn

3. a. If this application is a Request for Determination of Scope of Alternatives for work in the Riverfront Area, indicate the one classification below that best describes the project.

- Single family house on a lot recorded on or before 8/1/96
- Single family house on a lot recorded after 8/1/96
- Expansion of an existing structure on a lot recorded after 8/1/96
- Project, other than a single-family house or public project, where the applicant owned the lot before 8/7/96
- New agriculture or aquaculture project
- Public project where funds were appropriated prior to 8/7/96
- Project on a lot shown on an approved, definitive subdivision plan where there is a recorded deed restriction limiting total alteration of the Riverfront Area for the entire subdivision
- Residential subdivision; institutional, industrial, or commercial project
- Municipal project
- District, county, state, or federal government project
- Project required to evaluate off-site alternatives in more than one municipality in an Environmental Impact Report under MEPA or in an alternatives analysis pursuant to an application for a 404 permit from the U.S. Army Corps of Engineers or 401 Water Quality Certification from the Department of Environmental Protection.

- b. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification above (use additional paper and/or attach appropriate documents, if necessary.)

House Built in 2005



C. Determinations

1. I request the Hingham Conservation Commission make the following determination(s). Check any that apply:

- a. whether the **area** depicted on plan(s) and/or map(s) referenced above is an area subject to jurisdiction of the Wetlands Protection Act.
- b. whether the **boundaries** of resource area(s) depicted on plan(s) and/or map(s) referenced above are accurately delineated.
- c. whether the **Activities** depicted on plan(s) referenced above is subject to the Wetlands Protection Act and its regulations.
- d. whether the area and/or Activities depicted on plan(s) referenced above is subject to the jurisdiction of any **municipal wetlands' ordinance** or **bylaw** of:

Hingham

Name of Municipality

- e. whether the following **scope of alternatives** is adequate for Activities in the Riverfront Area as depicted on referenced plan(s).

Proposed Septic System 10 Great Rock Road Hingham, Massachusetts

D. Signatures and Submittal Requirements

I hereby certify under the penalties of perjury that the foregoing Request for Determination of Applicability and accompanying plans, documents, and supporting data are true and complete to the best of my knowledge.

I further certify that the property owner, if different from the applicant, and the appropriate DEP Regional Office were sent a complete copy of this Request (including all appropriate documentation) simultaneously with the submittal of this Request to the Conservation Commission.

Failure by the applicant to send copies in a timely manner may result in dismissal of the Request for Determination of Applicability.

Signatures:

I also understand that notification of this Request will be placed in a local newspaper at my expense in accordance with Section 10.05(3)(b)(1) of the Wetlands Protection Act regulations.

Linda and James MacIntyre

Signature of Applicant

07/24/2024

Date

Colin McSweeney

Signature of Representative (if any)

07/24/2024

Date

10 Great Rock Road Hingham MA

Narrative:

The Site is located at 10 Great Rock Road in Hingham MA 02043. The property currently has a 4 Bedroom existing dwelling located on site. The work being proposed is a field replacement to a failing field.

Wetland Details:

Bordering Vegetated Wetland:

Hingham GIS has a wetland called out to be a Wooded Swamp Deciduous. In July of 2024 Colin McSweeney delineated the low laying wetland with flags labeled A1-A5.

Hydrography:

The Weir river runs along the north side of the property. Location was taken off Hingham GIS.

FEMA Flood Zone:

A flood zone AE (elevation 23.7') is located to the north of the property. Location of this flood zone was taken off the Hingham GIS flood layer effective 07/03/2024.

Work Description:

The replacement of a failing field is being proposed in the backyard of the property. The existing 1500 gallon Septic Tank and existing 1500G Pump Chamber are to be left in place and reused. The old system was pressure distribution into a stone field. The new system being proposed is a d-box gravity fed Geomat Leaching system. Under the remedial use permit the Geomat system is considered an alternative SAS with treatment.

Location Narrative:

The location of the field was chosen for the following reasons. The first one is that when the house was built the proposed area was the engineered reserve area for the lot. But over time the wetland has moved up closer to the lot putting the reserve area now within the 100' Buffer Zone as well as within the 200' Riverfront. Along with this when the house was built at that time per order of the Board of Health the reserve had to be dug out and filled in with title V sand. This was to prepare an area on the lot for replacing a failing system. Along with these reasons, the proposed area is pre-existing lawn where no vegetation needs to be removed.

Practicable and Substantially Equivalent Economic Alternatives:

Under 10.58 (4)(c)(1) four things are to be considered. The first one being cost and when the reserve area was prepared (per order BOH) they brought in thousands of dollars' worth of sand and by moving our proposed location it would be costing the homeowner thousands of more dollars to prepare the new area. The second is existing technology and by replacing a stone and pipe field with a more modern system there is a significant increase in the property as well as the wetlands and river. The third is proposed use, the house is a pre-existing house with a failing

system on site and replacing that field will benefit the lot. The last one being logistics, since this area was originally designed to be the reserve area for the lot to replace a failed septic system, the logical move is to use that area for its intended purpose. The field has a total of 249 S.F. of area within the 200' Riverfront area which will be returned to grass after installation.

Overall, we consider there to be no significant negative impact to the riverfront area or wetlands with the proposed work.