

NARRATIVE

Request for Determination of Applicability 347 Dutton Road, Sudbury, Massachusetts October 30, 2019

On behalf of the owner of 347 Dutton Road, Doucette Engineering submits this narrative to accompany the Request for Determination of Applicability.

Design Plan: Sewage Disposal System Upgrade Design for 347 Dutton Road, Sudbury, Massachusetts, by Doucette Engineering, Ted P. Doucette, P.E. dated 300CT2019

Background

The property on Dutton Road is located between two wetland areas, one is across the street from a wetland, and the other is to the rear of the property. MassGIS mapping shows that both of these areas are potential vernal pools. As shown on the Design Plan the related buffer zones nearly meet near the middle of the property. The home was constructed in around 1950, includes four bedrooms on about an acre of land. During the soil evaluation for the proposed septic system the parent soil was found to be medium sand with groundwater at a depth of 110 inches. The existing septic system includes a 1,500-gallon septic tank installed around 2002, and a single leach pit. The existing leach pit is in failure and backs up until the surrounding area is saturated.

Proposed project

The design of a new Title 5 compliant system is shown on the design plan and includes only the replacement of the soil absorption system which is proposed beyond the 50-foot offset from the wetland. The system is nearly against the 50-foot offset, this is due to the location of the existing septic tank and other parameters. Other areas on the property were considered prior to deciding on this location. No reasonable place on the property can be found outside of the buffer zone. The rear of the yard is not feasible because the grade increase from the front to the back which would require a pump system or the depth of the system would be greater than allowed by Title 5 (and the system would still be in the buffer zone). The side of the yard is not desirable due to the location of the existing water service; relocating the service would increase the cost and not move the system considerably further from the resource area. The length of the work will be approximately two days.

The environmental benefits of this project include replacing the non-compliant leach pit with a Title-5 compliant system that will provide better treatment in the soil. The proposed design also increases the offset between the bottom of the soil absorption system and the seasonal high groundwater elevation.

The WPA performance standards are met, as there is no work proposed within a resource area, and the work in the buffer zone is proposed to be located in a manner that minimized a threat to the resource area.

Mitigation and minimizing impacts

There is no mitigation proposed for the project becuase no work is proposed in a resource area; the lot is already developed and the lawn will be returned to the current state,

There are a few potential impacts that are being addressed or considered in this design.

The materials for the soil absorption system includes plastic chambers that can be carried into the property by hand, rather than a conventional system that would require truckloads of stone.

Erosion control will be installed between the work area and the resource area, nine-inch straw wattles are proposed.

There are no impervious areas proposed for this project as it is only a soil absorption system and no structures or paving.



Sudbury City/Town

WPA Form 1- Request for Determination of Applicability

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

A. General Information

Important: When filling out 1. forms on the computer, use only the tab key to move your cursor - do not use the return key.





1.	Applicant:				
	Nicolas & Elisa deBeco	elisadebeco E-Mail Address	elisadebeco@yahoo.com		
	Name				
	347 Dutton Road				
	Mailing Address	B.4.A	0.4.770		
	Sudbury	MA State	<u>01776</u> Zip Code		
	City/Town	State	Zip Code		
	857-389-2554 Phone Number	Fax Number (if	applicable)		
2.	Representative (if any):				
	Doucette Engineering				
	Firm Ted Doucette	doucette en	gineering@comcast.net		
	Contact Name	E-Mail Address			
	152 Whitcomb Ave				
	Mailing Address				
	Littleton	MA	01460		
	City/Town	State	Zip Code		
	978-621-2138				
	Phone Number Fax Number (if applicable)				
B.	I request the Sudbury make the following determination(s). Check any that apply:				
	a. whether the area depicted on plan(s) and/or map(s) referenced below 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 below are accurately delineated.				
	c. whether the work depicted on plan(s) referenced below is subject to the Wetlands Protection Act.				
	d. whether the area and/or work depicted on plan(s) referenced below is subject to the jurisdiction of any municipal wetlands ordinance or bylaw of:				
	Name of Municipality				
	e. whether the following scope of alternatives is adequate for work in the Riverfront Area as depicted on referenced plan(s).				

wpaform1.doc Page 1 of 4



Sudbury City/Town

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

C. Project Description

1.	a. Project Location (use maps and plans to identify the location of the area subject to this request):					
	347 Dutton Road	Wayland				
	Street Address	City/Town				
	4 Assessors Map/Plat Number	7 Parcel/Lot Number				
	b. Area Description (use additional paper, if necessary):					
	Residential area, with a developed lot and a wetland across the Dutton Road. See narrative					
	c. Plan and/or Map Reference(s):					
	Sewage Disposal System Design for 347 Dutton	Road,	30OCT2019			
	Sudbury, Massachusetts	,	Date			
	Title		Date			
			Date			
	Title		Date			
2.	a. Work Description (use additional paper and/o	or provide plan(s) of work, if n	ecessary):			
	Replacement of the soil absorption system with a Title-5 compliant system, see narrative					

wpaform1.doc Page 2 of 4



Sudbury City/Town

WPA Form 1- Request for Determination of Applicability

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

C. Project Description (cont.)

fr	 Identify provisions of the Wetlands Protection Act or regulations which may exempt the applicant rom having to file a Notice of Intent for all or part of the described work (use additional paper, if necessary). 			
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a R	. If this application is a Request for Determination of Scope of Alternatives for work in the liverfront 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			
	Dublic 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 dee 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 a	. Provide evidence (e.g., record of date subdivision lot was recorded) supporting the classification bove (use additional paper and/or attach appropriate documents, if necessary.)			

wpaform1.doc Page 3 of 4



Sudbury City/Town

WPA Form 1- Request for Determination of Applicability

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

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.

Name and address of the property owner: Nicolas & Elisa deBeco Name 347 Dutton Road Mailing Address Sudbury City/Town MA 01460 Zip Code State 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. Signature of Applicant Date Signature of Representative (if any) Date

wpaform1.doc Page 4 of 4

