REQUEST FOR DETERMINATION OF APPLICABILITY

FILED UNDER: MASSACHUSETTS WETLANDS PROTECTION ACT MGL c131 §40

PROJECT:

PROPOSED TEST PITTING PROGRAM AND REPLACEMENT SEPTIC SYSTEM CONSTRUCTION 7 NEWBURY ROAD ROWLEY, MASSACHUSETTS 01969

PREPARED FOR:
STEPHEN DEANGELIS
7 NEWBURY ROAD
ROWLEY, MASSACHUSETTS 01969

PREPARED BY:



28 Lynnbrook Road • Lynnfield, Massachusetts 01940

Phone: (617) 640-7949

JANUARY 12, 2024

TABLE OF CONTENTS

MA WPA FORM 1 REQUEST FOR DETERMINATION OF APPLICABILITY

MASSACHUSETTS WETLANDS PROTECTION ACT M.G.L. C. 131, §40

TOWN OF ROWLEY RDA CHECKLIST

TOWN OF ROWLEY WETLAND FEE CALCULATION FORM

ATTACHMENT A NARRATIVE

1.0 INTRODUCTION

2.0 EXISTING SITE CONDITIONS

3.0 PROPOSED WORK

4.0 BEST MANAGEMENT PRACTICES

6.0 SUMMARY

ATTACHMENT B FIGURES

FIGURE 1: AERIAL IMAGE

FIGURE 2: USGS TOPOGRAPHIC MAP FIGURE 3: FLOOD INSURANCE RATE MAP

FIGURE 4: MA NATURAL HERITAGE ENDANGERED SPECIES (EH AND PH)

FIGURE 5: CRITICAL AREAS (ORWs, ACECs, etc.)

FIGURE 6: NRCS SOILS SURVEY FIGURE 7: ASSESSORS MAP

WPA FORM 1

TEST PITTING PROGRAM AND REPLACEMENT SEPTIC SYSTEM CONSTRUCTION



Massachusetts Department of Environmental ProtectionBureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability

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

Municipality

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





Λ.	General Information						
1.	Applicant:						
	First Name	Last Name					
	Address						
	City/Town	State	Zip Code				
	Phone Number	Email Address					
2.	Property Owner (if different from Applicant):						
	First Name	Last Name					
	Address						
	City/Town	State	Zip Code				
	Phone Number	Email Address (if kn	own)				
3.	Representative (if any)						
	First Name	Last Name					
	Company Name						
	Address						
	City/Town	State	Zip Code				
	Phone Number	Email Address (if kn	own)				
В.	Project Description						
1.	a. Project Location (use maps and plans to iden	tify the location of the a	rea subject to this request):				
	Street Address	City/Town					
	Latitude (Decimal Degrees Format with 5 digits after decimal e.g. XX.XXXXX)	Longitude (Decimal decimal e.gXX.XX	Degrees Format with 5 digits after XXX)				
	Assessors' Map Number	el Number					
	b. Area Description (use additional paper, if necessary):						
	c. Plan and/or Map Reference(s): (use addition	al paper if necessary)					
	Title		Date				
	Title		Date				

How to find Latitude and Longitude

and how to convert to decimal degrees



Massachusetts Department of Environmental Protection Bureau of Water Resources - Wetlands WPA Form 1- Request for Determination of Applicability Massachusetts Wetlands Protection Act M.G.L. c. 131, §40

		ality	

B. Project Description (conf

2.	a.	Activity/Work Descrip	otion (use ad	ditional paper	and/or provide	plan(s)	of Activity	. if necessar	v):

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



Massachusetts Department of Environmental Protection Bureau of Water Resources - Wetlands

WPA Form 1- Request for Determination of Applicability Rowley Massachusetts Wetlands Protection Act M.G.L. c. 131, §40 Rowley Municipality

C.		Detern	ninations					
1.	l re	quest the	Rowley Conservation Com	nmission	make the followin	ng determination(s). Check any that	at 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.						
	X	b. whether above are	on plan(s) and/or map(s) referen	ced				
	c. whether the Activities depicted on plan(s) referenced above is subject to the Wetlands Protection Act and its regulations.							
		d. whethe	r the area and of any muni	referenced above is subject to the	е			
		Town of						
		Name of Mu		THE CONTRACTOR	Description of the last of the		100.00	
	e. whether the following scope of alternatives is adequate for Activities in the River depicted on referenced plan(s).						Area as	
D.		Signat	ures and	Submittal	Requiremen	nts		
and	aco	y certify un companying dge.	der the penalt g plans, docur	ies of perjury t ments, and sup	hat the foregoing Reporting data are tr	Request for Determination of Appli rue and complete to the best of my	icability y	
Offi	ce v	vere sent a	complete cop	y of this Requ	est (including all a	cant, and the appropriate DEP Repropriate documentation) ation Commission.	gional	
			licant to send applicability.	copies in a tim	nely manner may re	esult in dismissal of the Request for	or	
Sigi	natu	res:						
l als	o ui	nderstand t	that notification Section 0.0	n of this Reque 5(3)(b)(1) of th	est will be placed in e Wetlands Protec	n a local newspaper at my expens ction Act regulations.	se	
٧		A A	_ M	1//	1/3	30/24		
^	Sign	ature of Appli	bent	The state of the last	Date		V150-0.5	
	the	enin E.N	اد لماء		1/1	12/24		
19	01	atura of Dans	pagetative (if any)		Date	2		

RDA CHECKLIST

TEST PITTING PROGRAM AND REPLACEMENT SEPTIC SYSTEM CONSTRUCTION



Town of Rowley

Conservation Commission Phone: (978) 948-2330 Fax: (978) 948-7196 Conservation@townofrowley.org

REQUEST TO DETERMINE APPLICABILITY CHECKLIST

Send the following by certified mail, return receipt requested, or hand deliver to: Rowley Conservation Commission, PO Box 24, or 39 Central Street, Room #4, Rowley MA 01969

▼ Two copies of the Application including:

- ▼ Completed WPA Form 1 revised July 2020 4/28/23
- Section of U.S. Geologic Survey (USGS) quadrangle locating site (8 1/2" x 11")
- M An appropriately sized section of the Assessor's map clearly identifying the property and all others within a hundred feet
- M Plans and calculations clearly describing the location and the nature of the proposed work
- ▼ Proof of mailing or hand delivery of Application to DEP NE regional office (address below)
- M One copy of permission to enter form with original signature of property owner
- ☐ Proof of mailing or delivery of Application to property owner if not applicant
- ☑ One electronic submission in "PDF" form of all Application documents and plans.
- M One copy of the Wetland Bylaw Fee Calculation Form with check for appropriate fee.

Send by certified mail, return receipt requested, or hand deliver to: DEP NERO, Wetlands Division, 150 Presidential Way, Woburn, MA 01801

☑ One copy of the Application including:

- Section of U.S. Geologic Survey (USGS) quadrangle locating site (8 1/2" x 11").
- An appropriately sized section of the Assessor's map clearly identifying the property and all others within a hundred feet.
- ☑ Plans and calculations clearly describing the location and the nature of the proposed work.

	PERMISSION TO ENTER	
I. Stephen Deangelis	hereby grant the Rowley Con	servation Commission and its
WHAT OF DOODEDTY OWNED	upon my property at / Newbury Road,	Rowley to
leaved Determination of An	Determine Applicability and future sit plicability. The sole purpose of this control of the sole purpose of this control of the sole purpose of this control of the sole purpose of the sole purpose of this control of the sole purpose of the sole purpose of this control of the sole purpose of this control of the sole purpose of the sole purpose of this control of the sole purpose of this control of the sole purpose of this control of the sole purpose of the sole purpose of this control of the sole purpose of the sole p	document is to allow Commissioners
and their officials to perform	n their duties under the Wetlands Pro	tection Act (M.G.L. c. 131 s. 40) and
the Town of Rowley Wetlan Signed:	ds Profection Bylaw /	1/30/24
0191104.	PROPERTY OWNER)	(DATE)

Town Hall Annex • Room 4 • 39 Central Street • P.O. Box 24 • Rowley, MA 01969

WETLAND FEE CALCULATION FORM

TEST PITTING PROGRAM AND REPLACEMENT SEPTIC SYSTEM CONSTRUCTION



Town of Rowley Conservation Department

Town Hall Annex – Room 4 39 Central St, P.O. Box 24, Rowley, MA 01969 Phone: 978-948-2330 Fax: 978-948-7196

conservation@townofrowley.org

WETLAND BYLAW FEE CALCULATION FORM

Property Address:	Мар:	Parcel:	Lot:
		# of Activities	
ADDI ICATION NAME / ACTIVITY	LOCAL BYLAW FEE	Or Macaurament	Cubtotal
APPLICATION NAME / ACTIVITY	LOCAL BYLAW FEE	Measurement	Subtotal
Request for a Determination of Applicability (RDA)	\$75	1	\$75
Abbrev. Notice of Resource Area Delineation (ANRAD)			<u> </u>
	\$1/linear foot, first 100'; \$0.50/lf,		
O' als Fault Hans Bullet	second 100'; \$0.10/lf, each		
Single Family House Project	i		
	*\$1/linear foot, first 1000'; \$0.50/lf,		
All Other Projects	second 1000'; \$0.10/lf, each additional foot		
-			
Notices of Intent (NOI)	V/////////////////////////////////////	///////////////////////////////////////	<u> </u>
Category 1 Activity Category 2 Activity	\$100 \$250		
Category 2 Activity Category 3 Activity			
Category 3 Activity Category 4 Activity	\$725		
Category 4 Activity Category 5 Activity			
Category 6 Activity - If no ANRAD was filed for the project			
site, then a local Cat. 6 fee must be paid in accordance with			
the ANRAD fee schedule			
Request to Amend an OOC (RAOC)	\$100		
Resource Area Alterations (for NOI & RAOC)			
	\$0.05 / assures fact	///////////////////////////////////////	<u> </u>
Buffer Zone, 50'-100' from resource area boundary Buffer Zone, 25'-50' from resource area boundary	\$0.05 / square foot \$0.10 / square foot		
Buffer Zone, 0'-25' from resource area boundary	\$0.25 / square foot		
Bordering Vegetated Wetlands & Salt Marsh	\$0.35 / square foot		
Bordening vegetated Wellands & Gait Marsh Bank	\$5 / linear foot		
Land Under Water & Waterways			
Bordering Land Subject to Flooding & CLSSF**	\$0.05 / square foot		
***Riverfront Area only			
Isolated Vegetated Wetlands			
Land within Groundwater Protection Area Zone I	\$0.25 / square foot		
Land within Groundwater Protection Area Zone II	\$0.05 / square foot		
Other Local-only Jurisdictional Resource Areas	\$0.05 / square foot		
Extension Permit	\$100		
Certificate of Compliance	Projects under one acre in size:		
Certificate of Compilative	\$100 - over an acre in size \$250		
For filings resulting from enforcen	nent action, double the Local Ordir	nance Fee Total	
	LOCAL ORDINAN	CE FEE TOTAL	\$75
As Determined by the Commission, Fee Total no	t to exceed \$15,000 except Enforce	ement	
NOTES:			
*Local Bylaw Fee maximum of \$100, if, when determined necessary	by Commission, applicant agrees to AN	RAD review by out	side consultant under
M.G.L. Ch. 44, sec. 53G			
**Coastal Land Subject to Storm Flowage			
***Local Bylaw Fees for RDA, NOI, & RAOC increase 50% when pro		Area	
Local Bylaw Fees passed by a Unanimous vote of the Commission of	on 10/1/2019, effective 10/2/2019		

ATTACHMENT A

NARRATIVE

TEST PITTING PROGRAM AND REPLACEMENT SEPTIC SYSTEM CONSTRUCTION

INTRODUCTION

In accordance with the Massachusetts Wetlands Protection Act (MGL 131 Section 40); and its implementing Regulations (310 CMR 10.00 et seq.). Lynnbrook Consulting, on behalf of Mr. Stephen Deangelis, the property owner, is submitting this Request for Determination of Applicability (RDA) to the Rowley Conservation Commission for a two-phase project related to the replacement of a failing septic system. The two project phases are as follows:

- Phase 1 The completion of a deep soil test pitting program with associated percolation tests in accordance with Massachustts Title V (310 CMR 15.00); and
- Phase 2 The construction of a new septic system to replace a failing system that serves the single-family home. The final location of the disposal system portion of the septic system will be in the location of the test pit that is found to have the preferred results.

The proposed project will occur within a Zone II Wellhead Protection Area.

EXISTING SITE CONDITIONS

The property at 7 Newbury Road is a 0.69-acre residential property located at the corner of Newbury Road and Boxford Road Rowley, Massachusetts. The property is occupied by a 2,954 square foot single family residence with a swimming pool and a paved driveway/parking area.

No wetland resource areas are located within the proposed project area and no work is planned within a regulated buffer area.

The most recent Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM Panel 25009C0254F; effective 07/04312) shows the property to be located within an Area of minimal Flood Hazard (Zone X) (Attachment B: Figure 3).

According to the Natural Heritage and Endangered Species Program's (NHESP) Massachusetts Natural Heritage Atlas (15th Edition, August 2021), the site is not located within a Priority Habitat of Rare Species or an Estimated Habitat of Rare Wildlife. No Certified Vernal Pools under the jurisdiction of the Wetlands Protection Act Regulations or the Massachusetts Endangered Species Act (321 CMR 10.00 et seq.) are located near the Project (Attachment B: Figure 4).

The property is not within an Area of Critical Environmental Concern or other Critical Areas such as an Ordinary Resource Water (Zone A or B). However, the entire project site <u>IS</u> located in a Zone II Wellhead Protection Area. (Attachment B: Figure 5).

PROPOSED WORK

The current septic system that services the single-family home is failing and in need of replacement. The new system is currently under design in accordance with the Massachusetts septic system code Title V (310 CMR 15.000), and as a component of those requirements, the completion of deep soil observation test pits and percolation tests will be required to aid in the siting of the new system. Since the test pit program will need to be performed within a Zone II Wellhead Protection area, the filing of this RDA is required, and along with the test pitting program, Lynnbrook is requesting that the construction of the new septic system also be considered under this one RDA. Therefore, the RDA includes two project phases as follows:

- Phase 1 The completion of a deep soil test pitting program with associated percolation tests in accordance with Massachustts Title V (310 CMR 15.00); and
- Phase 2 The construction of a new septic system to replace a failing system that serves the single-family home. The final location of the disposal system portion of the septic system will be in the location of the test pit that is found to have the preferred results.

After the test pits are completed they will immediately backfilled and the area returned to prior conditions. Similarly, with the construction of the replacement septic system, after construction is completed, the area will be restored.

BEST MANAGEMENT PRACTICES

Construction Best Management Practices will be used to avoid sediment transport during construction. This is expected to include the installation of compost silt socks throughout construction and will be removed after the areas are stabilized. Paved areas will be swept after work is complete.

SUMMARY

The project is intended to replace a failing septic system at a single-family residence with the new septic system complying with Massachusetts Title V (310 CMR 15.000) requirements. The Phase 1- Test Pitting Program and Phase 2 – Construction of a replacement septic system involves work within a Zone II Wellhead Protection Area. No new impacts to wetland resource areas, buffer zones or other critical areas will occur.

Best Management Practices will be put into place to avoid impacts to nearby areas. Sedimentation and erosion controls will be installed prior to the start of the work and will remain in place until the area is stabilized.

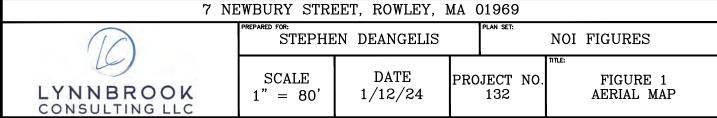
Lynnbrook, on behalf of the Applicant, is requesting the issuance of a Negative Determination of Applicability with a determination from the Conservation Commission that the proposed activities will not impact resource areas.

ATTACHMENT B

FIGURES

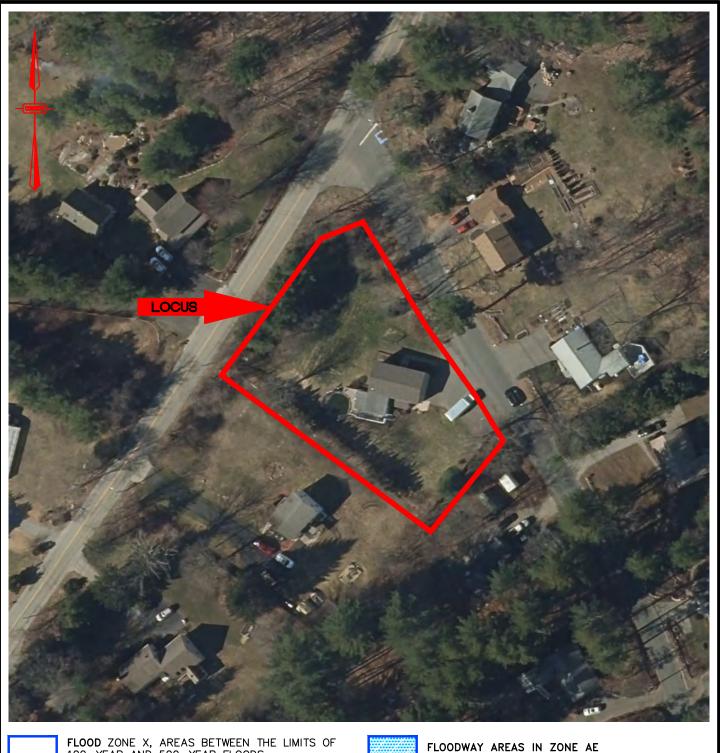
TEST PITTING PROGRAM AND REPLACEMENT SEPTIC SYSTEM CONSTRUCTION







7 NEWBURY STREET, ROWLEY, MA 01969							
	PREPARED FOR: STEPHE	N DEANGELIS	PLAN SET: NOI FIGURES				
LYNNBROOK CONSULTING LLC	SCALE 1" = 200'	DATE 1/12/24	PROJECT NO. 132	FIGURE 2 USGS TOPOGRAPHIC MAP			





FLOOD ZONE X, AREAS BETWEEN THE LIMITS OF 100-YEAR AND 500-YEAR FLOODS





FLOOD ZONE AE, AREAS OF 100-YEAR FLOOD, BASE FLOOD ELEVATIONS DETERMINED



FLOOD ZONE A, AREAS OF 100-YEAR FLOOD, BASE FLOOD ELEVATIONS NOT DETERMINED

NOTE:

FLOOD BOUNDARY INFORMATION ON THIS PLAN WAS FOUND ON FEMA FLOOD INSURANCE RATE MAP FOR ESSEX COUNTY COMMUNITY MAP NO. 25009C0254F, EFFECTIVE JULY 3, 2012.

7 NEWBURY STREET, ROWLEY, MA 01969 PLAN SET: STEPHEN DEANGELIS NOI FIGURES FIGURE 3 DATE **SCALE** PROJECT NO FLOOD INSURANCE LYNNBROOK CONSULTING LLC 1/12/24 1" = 80'132 RATE MAP



PRIOR

PRIORITY HABITAT OF RARE SPECIES

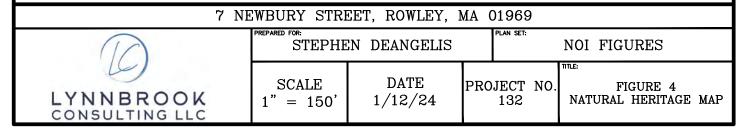
CERTIFIED VERNAL POOLS

ESTIMATED HABITATS OF RARE WILDLIFE

POTENTIAL VERNAL POOLS

NOTES:

- 1. ESTIMATED HABITATS OF RARE WILDLIFE AND PRIORITY HABITATS OF RARE SPECIES CAME FROM MASSGIS DATABASE LAST UPDATED AUGUST 2021.
- CERTIFIED VERNAL POOL LOCATIONS WERE TAKEN FROM MASSGIS DATABASE ON JANUARY 12, 2024. THIS DATA IS UPDATED CONTINUALLY AND SHOWN CONDITIONS MAY VARY FROM THIS DATA.
- 3. POTENTIAL VERNAL POOL LOCATIONS WERE TAKEN FROM MASSGIS DATABASE LAST UPDATED JULY 2013.
- 4. THERE ARE NO ESTIMATED HABITATS OF RARE WILDLIFE, PRIORITY HABITATS OF RARE SPECIES, POTENTIAL VERNAL POOLS, OR CERTIFIED VERNAL POOLS ON THE PROJECT SITE.





AREAS OF CRITICAL ENVIRONMENTAL CONCERN



WELLHEAD PROTECTION AREAS

OUTSTANDING RESOURCE WATERS



SURFACE WATER SUPPLY PROTECTION AREAS

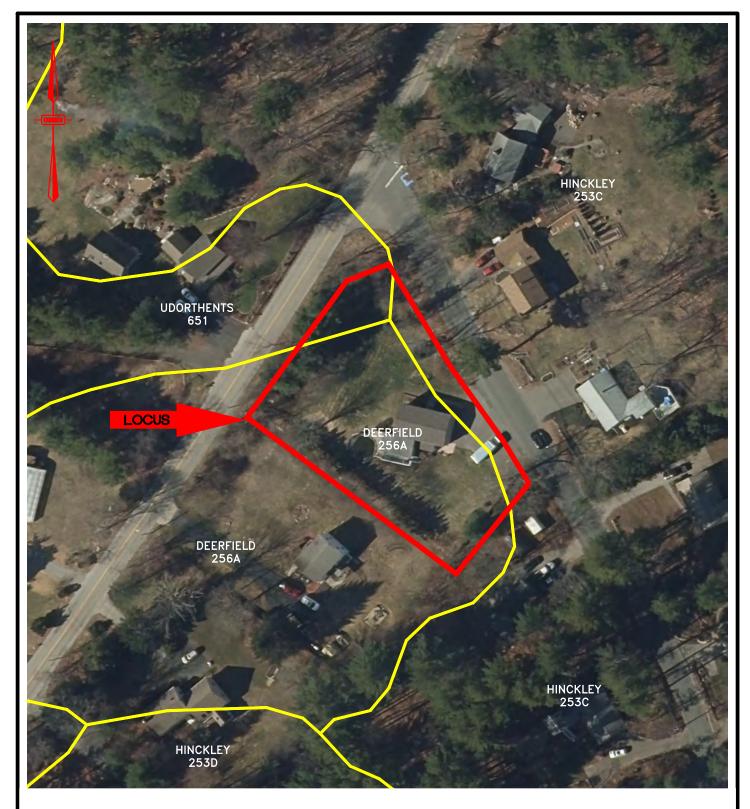
NOTES:

- AREAS OF CRITICAL ENVIRONMENTAL CONCERN WERE TAKEN FROM MASSGIS DATABASE, LAST UPDATED APRIL 2009.
- 2. WELLHEAD PROTECTION AREAS WERE TAKEN FROM MASSGIS DATEBASE, LAST UPDATED XXXX 20##.

RESOURCE WATERS, OR SURFACE WATER SUPPLY PROTECTION AREAS ON THIS PROJECT SITE.

- 3. OUTSTANDING RESOURCE WATERS WERE TAKEN FROM MASSGIS DATEBASE, LAST UPDATED MARCH 2010.
- 4. SURFACE WATER SUPPLY PROTECTION AREAS WERE TAKEN FROM MASSGIS DATEBASE, LAST UPDATED APRIL 2017 5. THERE ARE NO AREAS OF CRITICAL ENVIRONMENTAL CONCERN, WELLHEAD PROTECTION AREAS, OUTSTANDING

7 NEWBURY STREET, ROWLEY, MA 01969 PREPARED FOR: STEPHEN DEANGELIS NOI FIGURES SCALE 1" = 150' 1/12/24 PROJECT NO. 132 FIGURE 5 CRITICAL AREAS



NOTE: INFORMATION ON THIS PLAN WAS OBTAINED FROM THE MASSGIS DATABASE, NRCS SSURGO — CERTIFIED SOILS WHICH WAS LAST UPDATED NOVEMBER 2012.

7 NEWBURY STREET, ROWLEY, MA 01969						
	PREPARED FOR: STEPHE	N DEANGELIS	PLAN SET:	NOI FIGURES		
LYNNBROOK CONSULTING LLC	SCALE 1" = 80'	DATE 1/12/24	PROJECT N 132	IO. FIGURE 6 SOIL SURVEY MAP		

