

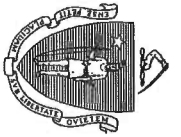
Commonwealth of Massachusetts
City/Town of GROTON
Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

A. Facility Information

GROTON AFFORDABLE HOUSING TRUST
Owner Name
COW POND BROOK RD. & HOYTS WARF RD.
Street Address
GROTON
City
249/57, 249/51
Map/Lot #
MA
01450
State
Zip Code

B. Site Information

1. (Check one)	<input checked="" type="checkbox"/> New Construction	<input type="checkbox"/> Upgrade	<input type="checkbox"/> Repair
2. Soil Survey Available?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	If yes: USDA Source 653 Soil Map Unit
UDORTHENTS, SANDY			
Soil Name			
3. Surficial Geological Report Available?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	If yes: Year Published/Source Publication Scale Map Unit
LOAMY ALLUVIUM AND/OR SANDY GLACIOFLUVIAL DEPOSITES			
Landform			
4. Flood Rate Insurance Map			
Above the 500-year flood boundary?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	Within the 100-year flood boundary? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Within the 500-year flood boundary?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Within a velocity zone? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5. Wetland Area:	Wetlands Conservancy Program Map		
Map Unit Name			
6. Current Water Resource Conditions (USGS):	Range: <input type="checkbox"/> Above Normal <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Below Normal		
2/22 Month/Year			
7. Other references reviewed:			



Commonwealth of Massachusetts
City/Town of GROTON
Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review *(minimum of two holes required at every proposed primary and reserved disposal area)*

Deep Observation Hole Number: _____ **Date** 3/22/22 **Time** 9:00 AM **Weather** SUNNY-60's

1. Location

Ground Elevation at Surface of Hole: _____ **Location (Identify on plan):** _____

2. Land Use WOODS, FORMER GRAVEL PIT NONE 3-8%+/-
(e.g., woodland, agricultural field, vacant lot, etc.) PINE AND OAK TREES KAME TERRACE SIDE SLOPE Slope (%)

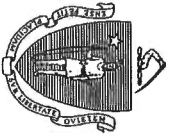
Vegetation Open Water Body 100'+ Drainage Way 100'+ Possible Wet Area VARIES
feet feet feet feet feet feet

3. Distances from: Property Line 50'+ Drinking Water Well 100'+ Other feet
feet feet feet feet feet feet

4. Parent Material: PROGLACIAL OUTWASH Unsuitable Materials Present: ☐ Yes ☒ No

If Yes: ☐ Disturbed Soil ☐ Fill Material ☐ Impervious Layer(s) ☐ Weathered/Fractured Rock ☐ Bedrock

5. Groundwater Observed: ☐ Yes ☒ No **SEE LOGS** **SEE LOGS** **SEE LOGS** **SEE LOGS**
Estimated Depth to High Groundwater: SEE LOGS SEE LOGS SEE LOGS SEE LOGS
inches elevation Depth Weeping from Pit Depth Standing Water in Hole



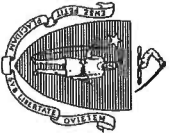
Commonwealth of Massachusetts
City/Town of GROTON
Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review (continued)

Deep Observation Hole Number: P-1

Depth (in.)	Soil Horizon/ Layer	Soil Matrix: Color- Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
15	A	10YR 3/3				S.L.			CRUMB	FRIABLE	
24	B	10YR 5/6				L.S.			S.A.B.	FRIABLE	
84	C	2.5Y 5/4	36"	7.5YR6/8		C.S.+G			MASSIVE	FRIABLE	
				7.5YR6/1							

Additional Notes: NO REFUSAL
GWO@44"



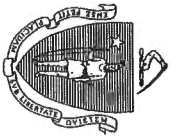
Commonwealth of Massachusetts
City/Town of GROTON
Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review (continued)

Deep Observation Hole Number: P-2

Depth (in.)	Soil Horizon/ Layer	Soil Matrix: Color- Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
8	A	10YR 3/2				S.L.			CRUMB	FRIABLE	
16	B	10YR 5/6				L.F.S.			S.A.B.	FRIABLE	
84	C	2.5Y 5/4	48"	7.5YR6/8		M.C. SAND			MASSIVE	FRIABLE	
				7.5YR6/1							

Additional Notes: NO REFUSAL
GWO@60"



Commonwealth of Massachusetts
City/Town of GROTON
Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review (continued)

Deep Observation Hole Number: P-3

Depth (in.)	Soil Horizon/ Layer	Soil Matrix: Color- Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
8	A	10YR 3/3				S.L.			CRUMB	FRIABLE	
16	B	10YR 5/4				S.L.			S.A.B.	FRIABLE	
52	C	10YR 5/3	48"	7.5YR6/8		S.L.			MASSIVE	FRIABLE	
				7.5YR6/1							

Additional Notes: BOULDERS @ 52"
NGWO



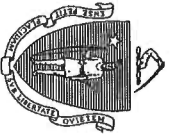
Commonwealth of Massachusetts
City/Town of GROTON
Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review (continued)

Deep Observation Hole Number: P-4

Depth (in.)	Soil Horizon/ Layer	Soil Matrix: Color- Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
10	A	10YR 3/2				S.L.			CRUMB	FRIABLE	
16	B	10YR 5/6				S.L.			S.A.B.	FRIABLE	
52	C1	2.5Y 5/4	52"	7.5YR6/8		F.S.			MASSIVE	FRIABLE	
80	C2	10YR 5/4		7.5YR6/1		L.C.S+G			MASSIVE	FRIABLE	

Additional Notes: NO REFUSAL
GWO@60"



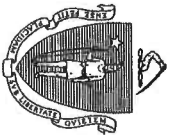
Commonwealth of Massachusetts
City/Town of GROTON
Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review (continued)

Deep Observation Hole Number: P-5

Depth (in.)	Soil Horizon/ Layer	Soil Matrix: Color- Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
10	A	10YR 3/3				S.L.			CRUMB	FRIABLE	
12	B	10YR 5/4				S.L.			S.A.B.	FRIABLE	
42	C1	2.5Y 5/3	42"	7.5YR6/8		F.S.			MASSIVE	FRIABLE	
84	C2	10YR 5/4		7.5YR6/1		L.F.S.			MASSIVE	FRIABLE	

Additional Notes: NO REFUSAL
GWO@60"



Commonwealth of Massachusetts
City/Town of GROTON
Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review (continued)

Deep Observation Hole Number: P-6

Depth (in.)	Soil Horizon/ Layer	Soil Matrix: Color- Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
12	A	10YR 5/3				S.L.			CRUMB	FRIABLE	
18	B	10YR 5/4				L.S.			S.A.B.	FRIABLE	
90	C	10YR 5/3	84"	7.5YR6/8		F.M.S.			MASSIVE	FRIABLE	
				7.5YR6/1							

Additional Notes: NO REFUSAL
GWO@86"



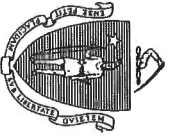
Commonwealth of Massachusetts
City/Town of GROTON
Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review (continued)

Deep Observation Hole Number: P-7

Depth (in.)	Soil Horizon/ Layer	Soil Matrix: Color- Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
10	A	10YR 3/3				S.L.			CRUMB	FRIABLE	
64	C1	2.5Y 5/3				M-C.S.			S.A.B.	FRIABLE	
86	C2	10YR 5/4	64"	7.5YR6/8		L.F.S.			MASSIVE	FRIABLE	
				7.5YR6/1							

Additional Notes: NO REFUSAL
GWO@86"



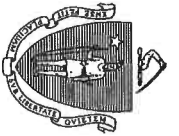
Commonwealth of Massachusetts
City/Town of GROTON
Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review (continued)

Deep Observation Hole Number: P-8

Depth (in.)	Soil Horizon/ Layer	Soil Matrix: Color- Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
10	A	10YR 3/3				S.L.			CRUMB	FRIABLE	
24	B	10YR 5/4				L.S.			S.A.B.	FRIABLE	
80	C	2.5Y 5/3	4G"	7.5YR6/8		C.S.			MASSIVE	FRIABLE	
				7.5YR6/1							

Additional Notes: NO REFUSAL
GWO@60"



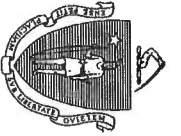
Commonwealth of Massachusetts
City/Town of GROTON
Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review (continued)

Deep Observation Hole Number: P-9

Depth (in.)	Soil Horizon/ Layer	Soil Matrix: Color- Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
9	A	10YR 3/3				S.L.			CRUMB	FRIABLE	
36	B	2.5Y 5/3				F.M.S.			S.A.B.	FRIABLE	
72	C	10YR 3/3	24"	7.5YR6/8		C.S.			MASSIVE	FRIABLE	
				7.5YR6/1							

Additional Notes: NO REFUSAL
GWO@36"



Commonwealth of Massachusetts
City/Town of GROTON
Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review (continued)

Deep Observation Hole Number: P-10

Depth (in.)	Soil Horizon/ Layer	Soil Matrix: Color- Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
24	A	10YR 3/3				S.L.			CRUMB	FRIABLE	
72	C	2.5Y 5/4				F.S.			S.A.B.	FRIABLE	
			36"	7.5YR6/8							
				7.5YR6/1							

Additional Notes: NO REFUSAL
GWO@48"



1. Method Used:

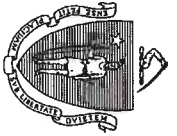
- 2.

1. Depth of Naturally Occurring Pervious Material

- a. Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system?

☒ Yes ☐ No

- Form 11 – Soil Suitability Assessment for On-Site Sewage Disposal • Page 6 of 8



Commonwealth of Massachusetts
City/Town of GROTON
Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

F. Certification

I certify that I am currently approved by the Department of Environmental Protection pursuant to 310 CMR 15.017 to conduct soil evaluations and that the above analysis has been performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017. I further certify that the results of my soil evaluation, as indicated in the attached Soil Evaluation Form, are accurate and in accordance with 310 CMR 15.100 through 15.107.

Signature of Soil Evaluator

WILLIAM J. "JACK" MALONEY, JR.

Typed or Printed Name of Soil Evaluator / License #

N/A

Name of Board of Health Witness

4/14/2022

Date

7/13

Date of Soil Evaluator Exam

NONE

Board of Health

Note: In accordance with 310 CMR 15.018(2) this form must be submitted to the approving authority within 60 days of the date of field testing, and to the designer and the property owner with [Percolation Test Form 12](#).