



Commonwealth of Massachusetts
City/Town of Dover

Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

A. Facility Information

Robert Recchia

Owner Name

Troutbrook Road

Street Address

Dover

City

MA
State

Map 5, Lot 78 – Lot 4 on Site Plan

Map/Lot #

02030

Zip Code

B. Site Information

1. (Check one) New Construction Upgrade

2. Soil Survey NRCS WebSoilSurvey Raynham silt loam 30
Source Soil Map Unit Soil Series

Depressions
Landform

More than 80 inches
Soil Limitations

Hard coarse-silty glaciolacustrine deposits
Soil Parent material

3. Surficial Geological Report 2018. Stone Flood-plain alluvium
Year Published/Source Map Unit

Sand, gravel, silt and some organic material, stratified and well sorted to poorly sorted, beneath the flood plains of modern streams
Description of Geologic Map Unit:

4. Flood Rate Insurance Map Within a regulatory floodway? Yes No

5. Within a velocity zone? Yes No

6. Within a Mapped Wetland Area? Yes No If yes, MassGIS Wetland Data Layer:

7. Current Water Resource Conditions (USGS): 10/5/2022 Range: Above Normal Normal Below Normal
Month/Day/ Year

8. Other references reviewed:
(Zone II, IWPA, Zone A, EEA Data Portal, etc.) MA-DVW 10R DOVER, MA U.S. Geological Survey



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

Deep Observation Hole Number:	TP4-1 Hole #	10/6/2022 Date	9:30 AM Time	Partly Cloudy, low 70s Weather	42.25955 Latitude	-71.28573 Longitude
1. Land Use	Woodland, vacant lot (e.g., woodland, agricultural field, vacant lot, etc.)	Trees and Shrubs Vegetation	None	Surface Stones (e.g., cobbles, stones, boulders, etc.)	1% Slope (%)	
Description of Location: West side of parcel (closer to Troutbrook Rd)						
2. Soil Parent Material:	Hard coarse-silty glaciolacustrine deposits	Depressions Landform	Plain Position on Landscape (SU, SH, BS, FS, TS, Plain)			
3. Distances from:	Open Water Body 50+ feet	Drainage Way 50+ feet	Wetlands 50+ feet			
	Property Line 10+ feet	Drinking Water Well 100+ feet	Other _____ feet			
4. Unsuitable Materials Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If Yes: <input type="checkbox"/> Disturbed Soil/Fill Material <input type="checkbox"/> Weathered/Fractured Rock <input type="checkbox"/> Bedrock				
5. Groundwater Observed:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes: _____ Depth to Weeping in Hole	_____ Depth to Standing Water in Hole			

Soil Log

Depth (in)	Soil Horizon /Layer	Soil Texture (USDA)	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features			Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
				Depth	Color	Percent	Gravel	Cobbles & Stones			
0-12	FILL	NA	NA		Cnc :				NA	NA	
					Dpl:						
12-19	A	Sandy Loam	10YR2/1		Cnc :				Granular	Friable	
					Dpl:						
19-29	B	Sandy Loam	10YR4/4		Cnc :				Massive	Friable	
					Dpl:						
29-96	C	Fine Sand	5Y7/2	29"	Cnc : 7.5YR5/8	35%			Single Grain	Loose	
					Dpl:						

Additional Notes:

No Refusal. Alternatively the Fill layer would be deducted from the depth of the Soil Horizons.



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

Deep Observation Hole Number:	TP4-2	Date	10/6/2022	Time	9:40 AM	Weather	Partly cloud, low 70s	Latitude	42.25955	Longitude	-71.28573	
1. Land Use:	Woodland, vacant lot (e.g., woodland, agricultural field, vacant lot, etc.)	Vegetation	grass, trees	None	Surface Stones (e.g., cobbles, stones, boulders, etc.)						1%	
Description of Location: Towards the center of the parcel (farther away from Troutbrook Rd)												
2. Soil Parent Material:	Hard coarse-silty glaciolacustrine deposits	Landform	Depressions	Plain	Position on Landscape (SU, SH, BS, FS, TS, Plain)							
3. Distances from:	Open Water Body	50+ feet	Drainage Way	50+ feet	Wetlands	50+ feet						
	Property Line	10+ feet	Drinking Water Well	100+ feet	Other	feet						
4. Unsuitable Materials Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If Yes:	<input type="checkbox"/> Disturbed Soil/Fill Material	<input type="checkbox"/> Weathered/Fractured Rock	<input type="checkbox"/> Bedrock							
5. Groundwater Observed:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes:		Depth to Weeping in Hole	Depth Standing Water in Hole							

Soil Log

Depth (in)	Soil Horizon /Layer	Soil Texture (USDA)	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features			Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
				Depth	Color	Percent	Gravel	Cobbles & Stones			
0-22	FILL	NA	NA		Cnc :				NA	NA	
					Dpl:						
22-28	A	Sandy Loam	10YR2/1		Cnc :				Granular	Friable	
					Dpl:						
28-36	B	Sandy Loam	10YR5/6		Cnc :				Massive	Friable	
					Dpl:						
36-96	C1	Fine Sand	5Y7/2	36"	Cnc : 7.5YR5/8	35%			Single Grain	Loose	
					Dpl:						
96-108	C2	Very Fine Loamy Sand	5Y7/1	96"	Cnc : 7.5YR5/8	25%			Massive	Very Friable	
					Dpl:						

Additional Notes:

No Refusal. Alternatively the Fill layer would be deducted from the depth of the Soil Horizons.



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Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

D. Determination of High Groundwater Elevation

1. Method Used (Choose one):

- | | | |
|--|--------------------------|--------------------------|
| <input checked="" type="checkbox"/> Depth to soil redoximorphic features | Obs. Hole # <u>TP4-1</u> | Obs. Hole # <u>TP4-2</u> |
| <input type="checkbox"/> Depth to observed standing water in observation hole | <u>29</u> inches | <u>36</u> inches |
| <input type="checkbox"/> Depth to adjusted seasonal high groundwater (S_h)
(USGS methodology) | inches | inches |

Index Well Number

Reading Date

$$S_h = S_c - [S_r \times (OW_c - OW_{max})/OW_r]$$

Obs. Hole/Well# S_c S_r OW_c OW_{max} OW_r S_h

E. Depth of Pervious Material

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

- b. If yes, at what depth was it observed (exclude O, A, and E Horizons)?

Upper boundary: 36 inches Lower boundary: 108 inches

- c. If no, at what depth was impervious material observed?

Upper boundary: inches Lower boundary: inches



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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

Scott Goddard, 893

Typed or Printed Name of Soil Evaluator / License #

Mike Angieri

Name of Approving Authority Witness

11/9/22

Date

6/30/2025

Expiration Date of License

Dover Board of Health

Approving Authority

Field Diagrams: Use this area for field diagrams:



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Percolation Test

Form 12

Percolation test results must be submitted with the Soil Suitability Assessment for On-site Sewage Disposal. DEP has provided this form for use by local Boards of Health. Other forms may be used, but the information must be substantially the same as that provided here. Before using this form, check with the local Board of Health to determine the form they use.

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



A. Site Information

Robert Recchia

Owner Name

Troutbrook Rd (Assessors Map 5, Lot 78) - Lot 4 on Site Plan

Street Address or Lot #

Dover

City/Town

MA

State

02030

Zip Code

Scott Goddard

Contact Person (if different from Owner)

508-393-3784

Telephone Number

B. Test Results

	10/6/22 Date	9:40 am Time	10/6/22 Date	9:33 am Time
Observation Hole #	TP4-2		TP4-1	
Depth of Perc	62"		42"	
Start Pre-Soak	9:40 am		9:33 am	
End Pre-Soak	Perc doesn't hold water		Perc doesn't hold water	
Time at 12"				
Time at 9"				
Time at 6"				
Time (9"-6")				
Rate (Min./Inch)	< 2 MPI		< 2 MPI	
	Test Passed: <input checked="" type="checkbox"/>	Test Failed: <input type="checkbox"/>	Test Passed: <input checked="" type="checkbox"/>	Test Failed: <input type="checkbox"/>

Scott Goddard, 893

Test Performed By:

Mike Angieri, Dover Board of Health

Board of Health Witness

Comments:



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Landform

More than 80 inches
Soil Limitations

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Soil Parent material

3. Surficial Geological Report 2018, Stone Flood-plain alluvium
Year Published/Source Map Unit

Sand, gravel, silt and some organic material, stratified and well sorted to poorly sorted, beneath the flood plains of modern streams
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4. Flood Rate Insurance Map Within a regulatory floodway? Yes No

5. Within a velocity zone? Yes No

6. Within a Mapped Wetland Area? Yes No If yes, MassGIS Wetland Data Layer:

7. Current Water Resource Conditions (USGS): 2018, Stone Range: Above Normal Normal Below Normal
Month/Day/ Year

8. Other references reviewed:
(Zone II, IWPA, Zone A, EEA Data Portal, etc.) MA-DVW 10R DOVER, MA U.S. Geological Survey



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

Deep Observation Hole Number:	TP4-3 Hole #	10/6/2022 Date	9:30AM Time	Partly cloudy, low 70s Weather	42.25955 Latitude	-71.28573 Longitude
1. Land Use	Woodland, vacant lot (e.g., woodland, agricultural field, vacant lot, etc.)	Trees and Shrubs Vegetation	None	Surface Stones (e.g., cobbles, stones, boulders, etc.)	1% Slope (%)	
Description of Location: West side of parcel						
2. Soil Parent Material:	Hard coarse-silty glaciolacustrine deposits	Depressions Landform	Plain Position on Landscape (SU, SH, BS, FS, TS, Plain)			
3. Distances from:	Open Water Body 50+ feet	Drainage Way 50+ feet	Wetlands 50+ feet			
	Property Line 10+ feet	Drinking Water Well 100+ feet	Other _____ feet			
4. Unsuitable Materials Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If Yes: <input type="checkbox"/> Disturbed Soil/Fill Material <input type="checkbox"/> Weathered/Fractured Rock <input type="checkbox"/> Bedrock				
5. Groundwater Observed:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: 84" Depth to Weeping in Hole	Depth to Standing Water in Hole			

Soil Log

Depth (in)	Soil Horizon /Layer	Soil Texture (USDA)	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features			Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
				Depth	Color	Percent	Gravel	Cobbles & Stones			
0-8	A	Sandy Loam	10YR2/1		Cnc :				Granular	Friable	
					Dpl:						
8-20	B	Sandy Loam	10YR5/6		Cnc :				Massive	Friable	
					Dpl:						
20-96	C	Fine Sand	5Y7/1	20"	Cnc :7.5YR5/8	35%			Single Grain	Loose	
					Dpl:						
					Cnc :						
					Dpl:						
					Cnc :						
					Dpl:						

Additional Notes:



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

Deep Observation Hole Number:	TP4-4 Hole #	10/6/2022 Date	9:40 AM Time	Partly cloudy, low 70s Weather	42.25955 Latitude	-71.28573 Longitude
1. Land Use:	Woodland, vacant lot (e.g., woodland, agricultural field, vacant lot, etc.)	grass Vegetation	None	Surface Stones (e.g., cobbles, stones, boulders, etc.)	1% Slope (%)	
Description of Location: North portion of parcel						
2. Soil Parent Material:	Hard coarse-silty glaciolacustrine deposits	Depressions Landform	Plain	Position on Landscape (SU, SH, BS, FS, TS, Plain)		
3. Distances from:	Open Water Body 50+ feet	Drainage Way 50+ feet	Wetlands 50+ feet			
	Property Line 10+ feet	Drinking Water Well 100+ feet	Other _____ feet			
4. Unsuitable Materials Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If Yes: <input type="checkbox"/> Disturbed Soil/Fill Material <input type="checkbox"/> Weathered/Fractured Rock <input type="checkbox"/> Bedrock				
5. Groundwater Observed:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes: 88" Depth to Weeping in Hole	Depth Standing Water in Hole			

Soil Log

Depth (in)	Soil Horizon /Layer	Soil Texture (USDA)	Soil Matrix: Color-Moist (Munsell)	Redoximorphic Features			Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
				Depth	Color	Percent	Gravel	Cobbles & Stones			
0-6	A	Sandy Loam	10YR2/1		Cnc :				Granular	Friable	
					Dpl:						
6-14	B	Sandy Loam	10YR5/6		Cnc :				Massive	Friable	
					Dpl:						
14-28	C1	Very Fine Sandy Loam	5Y7/2	14	Cnc :7.5YR5/8	35%			Massive	Friable	
					Dpl:						
28-88	C2	Fine Loamy Sand	5Y7/1	28	Cnc :7.5YR5/8	25%			Single Grain	Loose	
					Dpl:						

Additional Notes:



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D. Determination of High Groundwater Elevation

1. Method Used (Choose one):

Depth to soil redoximorphic features

Obs. Hole # TP4-3

Obs. Hole # TP4-4

Depth to observed standing water in observation hole

20 inches

14 inches

Depth to adjusted seasonal high groundwater (S_h)
(USGS methodology)

 inches

 inches

Index Well Number

Reading Date

$$S_h = S_c - [S_r \times (OW_c - OW_{max})/OW_r]$$

Obs. Hole/Well# S_c S_r OW_c OW_{max} OW_r S_h

E. Depth of Pervious Material

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

b. If yes, at what depth was it observed (exclude O, A, and E Horizons)?

Upper boundary: 14
inches

Lower boundary: 88
inches

c. If no, at what depth was impervious material observed?

Upper boundary:
inches

Lower boundary:
inches



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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

Scott Goddard, 893

Typed or Printed Name of Soil Evaluator / License #

Mike Angieri

Name of Approving Authority Witness

11/9/22

Date

6/30/2025

Expiration Date of License

Dover Board of Health

Approving Authority

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](#).

Field Diagrams: Use this area for field diagrams: