



Commonwealth of Massachusetts

City/Town of Nantucket

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

A. Facility Information

B & D Real Estate Trust

Owner Name

94 Quidnet Road

Street Address

Nantucket

City

MA

State

21 / 107

Map/Lot #

02554

Zip Code

B. Site Information

1. (Check one) New Construction Upgrade Repair

2. Soil Survey Available? Yes No If yes: NRCS Source 293B/612C Soil Map Unit

Riverhead Nantucket complex / Hooksan sand

Soil Name

Eolian deposits

Geologic/Parent Material

well drained

Soil Limitations

outwash plains

Landform

3. Surficial Geological Report Available? Yes No If yes: Year Published/Source Publication Scale Map Unit

4. Flood Rate Insurance Map

Above the 500-year flood boundary? Yes No If Yes, continue to #5. Within the 100-year flood boundary? Yes No

5. Within a velocity zone? Yes No

6. Within a Mapped Wetland Area? Yes No

MassGIS Wetland Data Layer:

Wetland Type

7. Current Water Resource Conditions (USGS): Range: Above Normal Normal Below Normal

8. Other references reviewed:



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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: TP-1 Date: 1/6/2016 Time: 9am Weather: Sunny

1. Location

Ground Elevation at Surface of Hole: 18.6± feet Latitude/Longitude: /

Description of Location: adjacent to driveway

2. Land Use: lawn (e.g., woodland, agricultural field, vacant lot, etc.) None Surface Stones (e.g., cobbles, stones, boulders, etc.) 5 Slope (%)

3. Distances from: Open Water Body >100 feet Drainage Way Wetlands >100 feet Property Line >10 feet Drinking Water Well Other feet

4. Parent Material: Unsuitable Materials Present: [] Yes [x] No

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

5. Groundwater Observed: [] Yes [x] No If yes: N/A Depth Weeping from Pit N/A Depth Standing Water in Hole

Estimated Depth to High Groundwater: >120 inches <8.6± elevation



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C. On-Site Review (continued)

Deep Observation Hole Number: TP-1

Depth (in.)	Soil Horizon/ Layer	Soil Matrix: Color- Moist (Munsell)	Redoximorphic Features			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
18	A	10YR3/2				Loamy Sand					
40	B	10YR 6/6				Loamy Sand					
120	C	2.5Y 7/2				Sand					loose

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: TP-2 Date: 1/6/2016 Time: 9am Weather: Sunny

1. Location

Ground Elevation at Surface of Hole: 17.2± feet Latitude/Longitude: /

Description of Location: front of house by street

2. Land Use: lawn (e.g., woodland, agricultural field, vacant lot, etc.) None Surface Stones (e.g., cobbles, stones, boulders, etc.) 5 Slope (%)

3. Distances from: Open Water Body >100 feet Drainage Way feet Wetlands >100 feet Property Line >10 feet Drinking Water Well feet Other feet

4. Parent Material: Unsuitable Materials Present: [] Yes [x] No

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

5. Groundwater Observed: [] Yes [x] No If yes: N/A Depth Weeping from Pit N/A Depth Standing Water in Hole

Estimated Depth to High Groundwater: >148" inches <4.87± elevation



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C. On-Site Review (continued)

Deep Observation Hole Number: TP-2

Depth (in.)	Soil Horizon/ Layer	Soil Matrix: Color- Moist (Munsell)	Redoximorphic Features			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Structure	Soil Consistence (Moist)	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
34	A	10YR3/2				Loamy Sand					
43	B	10YR 6/6				Loamy Sand					
148	C	2.5Y 6/6				Loamy Sand					some silt

Additional Notes:



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D. Determination of High Groundwater Elevation

1. Method Used:	Obs. Hole # <u>TP-1</u>	Obs. Hole # <u>TP-2</u>
<input checked="" type="checkbox"/> Depth observed standing water in observation hole	<u>>120"</u> inches	<u>>148"</u> inches
<input type="checkbox"/> Depth weeping from side of observation hole	<u>N/A</u> inches	<u>N/A</u> inches
<input type="checkbox"/> Depth to soil redoximorphic features (mottles)	<u>N/A</u> inches	<u>N/A</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 # _____	S _c _____	S _r _____	OW _c _____	OW _{max} _____	OW _r _____	S _h _____	
Obs. Hole # _____	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? Upper boundary: 40 inches Lower boundary: 120 inches
- c. If no, at what depth was impervious material observed? Upper boundary: _____ inches Lower boundary: _____ inches

F. Board of Health Witness



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Artell Crowley
Name of Board of Health Witness

Nantucket
Board of Health

G. Soil Evaluator 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.

Daniel C. Mulloy

Signature of Soil Evaluator

1/6/2016

Date

Daniel C. Mulloy / #1702

6-30-23

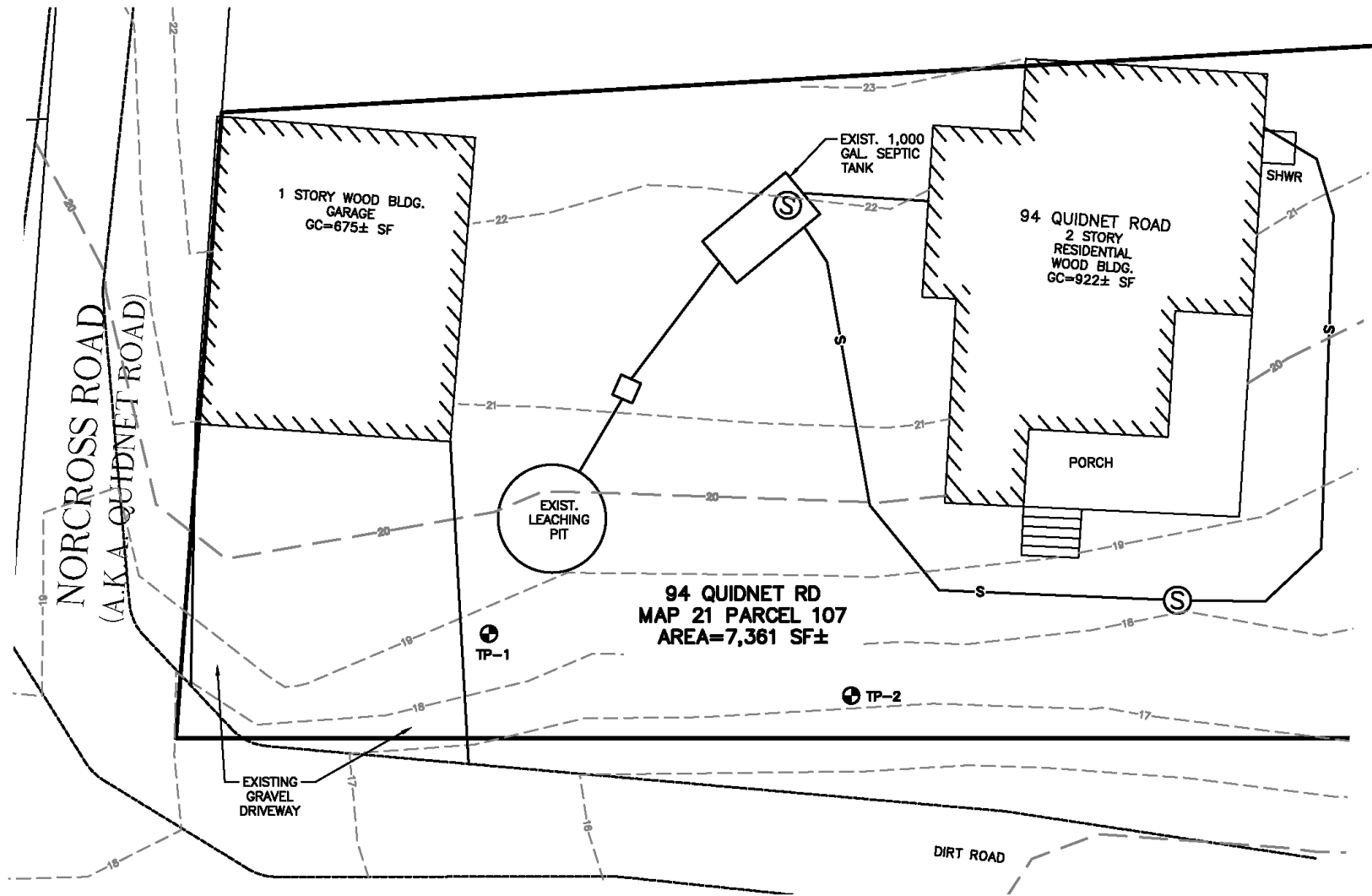
Typed or Printed Name of Soil Evaluator / License #

Expiration Date of License

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 sheet for field diagrams:





Commonwealth of Massachusetts
 City/Town of Nantucket
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

B & D Real Estate Trust

Owner Name

94 Quidnet Road

Street Address or Lot #

Nantucket

City/Town

MA

State

02554

Zip Code

Contact Person (if different from Owner)

Telephone Number

B. Test Results

	1/6/16 Date	9:00 am Time	Date	Time
Observation Hole #	TP-1			
Depth of Perc	36"			
Start Pre-Soak	9:00			
End Pre-Soak	25 gal			
Time at 12"	in less			
Time at 9"	than			
Time at 6"	15 min.			
Time (9"-6")				
Rate (Min./Inch)	<2		<2	
	Test Passed: <input checked="" type="checkbox"/>		Test Passed: <input type="checkbox"/>	
	Test Failed: <input type="checkbox"/>		Test Failed: <input type="checkbox"/>	

Daniel C. Mulloy

Test Performed By:

Artell Crowley

Board of Health Witness

Comments:

