

Appendix C

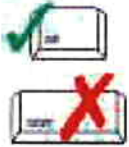
Test Pit and Perc Test Results for Sites 4 and 5



Commonwealth of Massachusetts
 City/Town of
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

Town of Falmouth
 Owner Name
 888 Sandwich Road *(Dupree Ball Field Site 5)*
 Street Address or Lot #
 East Falmouth
 City/Town
 Nate Weeks, P.E.
 Contact Person (if different from Owner)

Massachusetts
 State
 (508) 362-5680
 Telephone Number

02536
 Zip Code

B. Test Results

	June 14, 2010 Date TP-1	8:00 AM Time	June 14, 2010 Date TP-2	8:00 AM Time
Observation Hole #				
Depth of Perc	54"		53"	
Start Pre-Soak	8:41		9:29	
End Pre-Soak	8:56		9:44	
Time at 12"			9:44	
Time at 9"			9:57	
Time at 6"			10:16	
Time (9"-6")				
Rate (Min./Inch)	< 2 mins./inch		7 mins./inch	
	Test Passed:	<input checked="" type="checkbox"/>	Test Passed:	<input checked="" type="checkbox"/>
	Test Failed:	<input type="checkbox"/>	Test Failed:	<input type="checkbox"/>

Brian G. Yergatian, P.E.
 Test Performed By:

Witnessed By:

Comments:

TP-1: greater than 24 gallons drained during Pre-Soak



Commonwealth of Massachusetts
 City/Town of
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

Town of Falmouth
 Owner Name
 off Carriage Shop Road (Allen Property Site 4)
 Street Address or Lot #
 East Falmouth
 City/Town
 Nate Weeks, P.E.
 Contact Person (if different from Owner)

Massachusetts
 State
 (508) 362-5680
 Telephone Number

02536
 Zip Code

B. Test Results

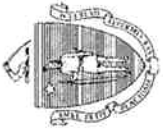
	June 14, 2010	10:30 AM		
	Date	Time	Date	Time
Observation Hole #	TP-3			
Depth of Perc	56"			
Start Pre-Soak	10:55			
End Pre-Soak	11:10			
Time at 12"				
Time at 9"				
Time at 6"				
Time (9"-6")				
Rate (Min./Inch)	< 2 mins./inch			
	Test Passed:	<input checked="" type="checkbox"/>	Test Passed:	<input type="checkbox"/>
	Test Failed:	<input type="checkbox"/>	Test Failed:	<input type="checkbox"/>

Brian G. Yergatian, P.E.
 Test Performed By:

Witnessed By:

Comments:

TP-3: greater than 24 gallons drained during Pre-Soak



Commonwealth of Massachusetts
City/Town of

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

A. Facility Information

Owner Name Town of Falmouth Map/Lot # 02536

Street Address 888 Sandwich Road Massachusetts Zip Code

East Falmouth State

B. Site Information

1. (Check one) New Construction Upgrade Repair 265A Soil Map Unit

2. Published Soil Survey Available? Yes No If yes: Web Soil Survey accessed 6/14/2010 Publication Scale

Enfield silt loam, 0 to 3% slopes Soil Limitations

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

Geologic Material Landform

4. Flood Rate Insurance Map

Above the 500-year flood boundary? Yes No Within the 100-year flood boundary? Yes No

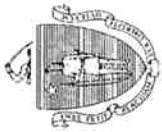
Within the 500-year flood boundary? Yes No Within a velocity zone? Yes No

5. Wetland Area: National Wetland Inventory Map Map Unit Name

Wetlands Conservancy Program Map Map Unit Name

6. Current Water Resource Conditions (USGS): Month/Year Range: Above Normal Normal Below Normal

7. Other references reviewed:



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: TP-1 June 14, 2010 8:00 AM 60 degrees, overcast
Date Time Weather

1. Location

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

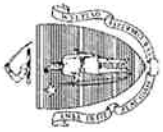
2. Land Use woodland none 0 to 5%
(e.g., woodland, agricultural field, vacant lot, etc.) Surface Stones Slope (%)
trees, brush outwash plain valley
Vegetation Landform Position on Landscape (attach sheet)

3. Distances from: Open Water Body _____ feet Drainage Way _____ feet Possible Wet Area _____ feet
Property Line _____ feet Drinking Water Well _____ feet Other _____ feet
Glacial outwash

4. Parent Material: _____ Unsuitable Materials Present: Yes No
If Yes: Disturbed Soil Fill Material Impervious Layer(s) Weathered/Fractured Rock Bedrock

5. Groundwater Observed: Yes No If yes: _____ inches _____ elevation _____ feet Depth Standing Water in Hole

Estimated Depth to High Groundwater: _____



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

C. On-Site Review (continued)

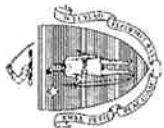
TP-1

Deep Observation Hole Number:

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			
0 - 7	A	10YR 2/1				SL			granular		
7 - 24	Bw	10YR 4/6				SL			blocky		
24 - 35	C1	5Y 6/3				Fine SL			massive		
35 - 96	C2	2.5Y 5/4				C. Sand	25%		single grain		

Additional Notes:

No groundwater or redoximorphic features observed.



Commonwealth of Massachusetts
City/Town of

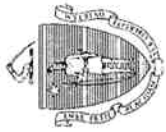
Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review (continued)

Deep Observation Hole Number: TP-2 Date: June 14, 2010 Time: 9:30 AM Weather: 60 degrees, overcast

- 1. Location: _____
- Ground Elevation at Surface of Hole: _____ Location (identify on plan): _____
- 2. Land Use: woodland (e.g., woodland, agricultural field, vacant lot, etc.) none Surface Stones 0 to 5%
trees, brush _____
Vegetation _____ Landform: outwash plain _____ Slope (%)
_____ Position on Landscape (attach sheet)

- 3. Distances from: Open Water Body _____ feet _____ Drainage Way _____ feet _____ Possible Wet Area _____ feet
Property Line _____ feet _____ Drinking Water Well _____ feet _____ Other _____ feet
Glacial outwash _____
- 4. Parent Material: _____ Unsuitable Materials Present: Yes No
If Yes: Disturbed Soil Fill Material Impervious Layer(s) Weathered/Fractured Rock Bedrock
- 5. Groundwater Observed: Yes No If yes: _____ Depth Weeping from Pit _____ Depth Standing Water in Hole _____
Estimated Depth to High Groundwater: _____ inches _____ elevation _____



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

C. On-Site Review (continued)

TP-2

Deep Observation Hole Number: _____

Depth (in.)	Soil Horizon/ Layer	Soil Matrix: Color- Moist (Munsell)	Redoximorphic Features (mottles)			Soil Texture (USDA)	Coarse Fragments % by Volume		Soil Consistence (Moist)	Soil Structure	Other
			Depth	Color	Percent		Gravel	Cobbles & Stones			
0 - 6	A	10YR 2/1				LS			granular		
6 - 18	Bw	10YR 5/8				LS			blocky		
18 - 39	C1	2.5Y 5/6				C. Sand	25%		single grain		
39 - 64	C2	5Y 6/3				Fine SL			massive		
64 - 102	C3	2.5Y 6/4				C. Sand	25%		single grain		

Additional Notes:

No groundwater or redoximorphic features observed.



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

D. Determination of High Groundwater Elevation

1. Method Used:

- Depth observed standing water in observation hole
- Depth weeping from side of observation hole
- Depth to soil redoximorphic features (mottles)
- Groundwater adjustment (USGS methodology)

A.	_____	inches	B.	_____	inches
A.	_____	inches	B.	_____	inches
A.	_____	inches	B.	_____	inches
A.	_____	inches	B.	_____	inches

2.

Index Well Number	_____	Reading Date	_____	Index Well Level	_____
Adjustment Factor	_____	Adjusted Groundwater Level	_____		

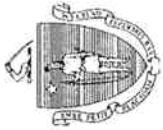
E. Depth of Pervious Material

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: _____ inches Lower boundary: _____ inches



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

A. Facility Information

Owner Name Town of Falmouth Map/Lot # 02536

Street Address off Carriage Shop Road State Massachusetts

City East Falmouth Zip Code _____

B. Site Information

1. (Check one) New Construction Upgrade Repair Repair

2. Published Soil Survey Available? Yes No If yes: Web Soil Survey accessed 6/14/2010 265A
 Enfield silt loam, 0 to 3% slopes Publication Scale Soil Map Unit

Soil Name _____ Soil Limitations _____

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

Geologic Material _____ Landform _____

4. Flood Rate Insurance Map

Above the 500-year flood boundary? Yes No Within the 100-year flood boundary? Yes No

Within the 500-year flood boundary? Yes No Within a velocity zone? Yes No

5. Wetland Area: National Wetland Inventory Map Map Unit _____ Name _____

Wetlands Conservancy Program Map Map Unit _____ Name _____

6. Current Water Resource Conditions (USGS): _____ Month/Year _____ Range: Above Normal Normal Below Normal

7. Other references reviewed: _____



Commonwealth of Massachusetts
City/Town of

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: TP-3 Date: June 14, 2010 Time: 10:30 AM Weather: 60 degrees, overcast

1. Location

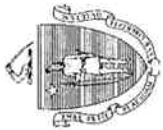
Ground Elevation at Surface of Hole: _____ Location (identify on plan): _____

2. Land Use power line easement none 5 to 10%
(e.g., woodland, agricultural field, vacant lot, etc.) Surface Stones Slope (%)
grass, brush outwash plain valley
Vegetation Landform Position on Landscape (attach sheet)

3. Distances from: Open Water Body _____ feet _____ Possible Wet Area _____ feet
Property Line _____ feet _____ Drinking Water Well _____ feet _____ Other _____ feet
Glacial outwash

4. Parent Material: _____ Unsuitable Materials Present: Yes No
If Yes: Disturbed Soil Fill Material Impervious Layer(s) Weathered/Fractured Rock Bedrock

5. Groundwater Observed: Yes No If yes: _____ Depth Weeping from Pit _____ Depth Standing Water in Hole _____
Estimated Depth to High Groundwater: _____ inches _____ elevation



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

C. On-Site Review (continued)

Deep Observation Hole Number: _____ TP-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			
0 - 6	A	10YR 2/1				SL			granular		
6 - 32	Bw	10YR 5/6				SL			blocky		
32 - 94	C	2.5Y 6/4				C. Sand	25%		single grain		

Additional Notes:

No groundwater or redoximorphic features observed.



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

D. Determination of High Groundwater Elevation

1. Method Used:

- Depth observed standing water in observation hole
- Depth weeping from side of observation hole
- Depth to soil redoximorphic features (mottles)
- Groundwater adjustment (USGS methodology)

A.	_____	_____	B.	_____
	inches			inches
A.	_____	_____	B.	_____
	inches			inches
A.	_____	_____	B.	_____
	inches			inches
A.	_____	_____	B.	_____
	inches			inches

2.

Index Well Number	_____	Reading Date	_____	Index Well Level	_____
Adjustment Factor	_____	Adjusted Groundwater Level	_____		

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: _____ inches Lower boundary: _____ inches



Commonwealth of Massachusetts
City/Town of

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

Brian G. Yergatian, P.E.

Typed or Printed Name of Soil Evaluator / License #

June 14, 2010

Date

October 2005

Date of Soil Evaluator Exam

Name of Board of Health Witness

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.



Commonwealth of Massachusetts
City/Town of

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

Field Diagrams

Use this sheet for field diagrams:

