Commonwealth of Massachusetts
City/Town of Burlington

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

A. Facility Information

Burlington Public Schools
Owner Name

114 Winn Street
Street Address

Map/Lot #

Burlington
City

MA
State

01803
Zip Code

B. Site Information

1. (Check one) ☐ New Construction ☐ Upgrade

2. Soil Survey
USDA WEeb Soil Survey
Source

420B and 73B
Soil Map Unit

Canton Fine Sandy Loam and Whitman F.S.L.
Soil Series

Moraines
Landform

Area includes filled soils 656- Udorthents - Urban Land Complex
Soil Limitations

Fine Sandy Loam
Soil Parent material

3. Surficial Geological Report
2025
Year Published/Source

Map Unit

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:
Wetland Type

7. Current Water Resource Conditions (USGS): 12/2/25
Month/Day/ Year
Range: ☐ Above Normal ☒ Normal ☒ Below Normal

8. Other references reviewed:
(Zone II, IWPA, Zone A, EEA Data Portal, etc.)
Winchester is normal, Waltham is below normal. No data point for Burilington per USGS.

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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: 1 (Hole #) | 12/2/25 (Date) | 8:00 am (Time) | 30s cloudy (Weather) | _____ (Latitude) | _____ (Longitude)

1. Land Use: Athletic Field (e.g., woodland, agricultural field, vacant lot, etc.) | Grass (Vegetation) | None (Surface Stones (e.g., cobbles, stones, boulders, etc.)) | 2% (Slope (%))

Description of Location: Curner of proposed field by existing track

2. Soil Parent Material: Sandy Loam | Moraines (Landform) | TS (Position on Landscape (SU, SH, BS, FS, TS, Plain))

3. Distances from: Open Water Body 500 feet | Drainage Way 100 feet | Wetlands 100+ feet | Property Line 250+ feet | Drinking Water Well 250+ feet | Other _____ feet

4. Unsuitable Materials Present: ☒ Yes ☐ No If Yes: ☒ Disturbed Soil/Fill Material ☐ Weathered/Fractured Rock ☐ Bedrock

5. Groundwater Observed: ☒ Yes ☐ No If yes: _____ Depth to Weeping in Hole | 62" 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			
0-15	A(fill)	Sandy Loam	10YR 3/2	n/a	Cnc :n/a Dpl:	n/a	0-2%	0%	Granular	friable	
15-42	C1(fill)	Sandy Loam	10YR 5/6	n/a	Cnc :n/a Dpl:	n/a	2-5%	5-10%	Subangular	firm	
42-62	C2(fill)	Sandy Loam	G1-5/10Y	n/a	Cnc :n/a Dpl:	n/a	2-5%	5-10%	Subangular	firm	
62-66+	A(buried)	Sandy Loam	G1-2.5/N	n/a	Cnc : Dpl:	n/a	0-2%	0%	Massive	friable	
					Cnc : Dpl:						
					Cnc : Dpl:						

Additional Notes:
Standing water at 10:30 am. depth of standing water at 62" perched high ground water estimated at 42" at the interface of C1 and C2 soils due to depletion.

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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: 2 (Hole #) | 12/2/25 (Date) | 8:30 am (Time) | 30s cloudy (Weather) | (Latitude) | (Longitude)

1. Land Use: Athletic Field (e.g., woodland, agricultural field, vacant lot, etc.) | Grass (Vegetation) | None (Surface Stones (e.g., cobbles, stones, boulders, etc.)) | 2% (Slope (%))

Description of Location: Backyard of Residence

2. Soil Parent Material: Sandy Loam | Moraines (Landform) | TS (Position on Landscape (SU, SH, BS, FS, TS, Plain))

3. Distances from: Open Water Body 400 feet | Drainage Way 50 feet | Wetlands 50 feet | Property Line 250+ feet | Drinking Water Well 250+ feet | Other _____ feet

4. Unsuitable Materials Present: ☒ Yes ☐ No If Yes: ☒ Disturbed Soil/Fill Material ☐ Weathered/Fractured Rock ☐ Bedrock

5. Groundwater Observed: ☐ Yes ☒ 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			
0-8	A(fill)	Sandy Loam	10 YR 3/2	na	Cnc :n/a Dpl:	n/a	0-2%	0%	granular	friable	
8-36	C1(fill)	Sandy Loam	10 YR 5/6	n/a	Cnc :n/a Dpl:	n/a	2-5%	5-10%	Subangular	firm	
36-64	C2(fill)	Sandy Loam	G1-5/10Y	n/a	Cnc :n/a Dpl:	n/a	2-5%	5-10%	Subangular	firm	
64-70+	A(buried)	Sandy Loam	G1-2.5/N	n/a	Cnc : Dpl:		0-2%	0%	massive	friable	
					Cnc : Dpl:						
					Cnc : Dpl:						

Additional Notes:
High ground water estimated at 36" at the interface of C1 and C2 soils due to depletion.

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

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

Deep Observation Hole Number: 3 (Hole #) | 12/2/25 (Date) | 9:00 am (Time) | 30s cloudy (Weather) | _____ (Latitude) | _____ (Longitude)

1. Land Use: Athletic Field (e.g., woodland, agricultural field, vacant lot, etc.) | Grass (Vegetation) | None (Surface Stones (e.g., cobbles, stones, boulders, etc.)) | 2% (Slope (%))

Description of Location: Curner of proposed field by existing track

2. Soil Parent Material: Sandy Loam | Moraines (Landform) | TS (Position on Landscape (SU, SH, BS, FS, TS, Plain))

3. Distances from: Open Water Body 300 feet | Drainage Way 50 feet | Wetlands 50 feet | Property Line 100 feet | Drinking Water Well 250+ feet | Other _____ feet

4. Unsuitable Materials Present: ☒ Yes ☐ No If Yes: ☒ Disturbed Soil/Fill Material ☐ Weathered/Fractured Rock ☐ Bedrock

5. Groundwater Observed: ☐ Yes ☒ 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			
0-10	A(fill)	Sandy Loam	10YR 3/2	n/a	Cnc :n/a Dpl:	n/a	0-2%	0%	Granular	friable	
10-27	C1(fill)	Sandy Loam	10YR 5/6	n/a	Cnc :n/a Dpl:	n/a	2-5%	5-10%	Subangular	firm	
27-55	C2(fill)	Sandy Loam	G1-5/10Y	n/a	Cnc :n/a Dpl:	n/a	2-5%	5-10%	Subangular	firm	
55-58+	A(buried)	Sandy Loam	G1-2.5/N	n/a	Cnc : Dpl:	n/a	0-2%	0%	Massive	friable	
					Cnc : Dpl:						
					Cnc : Dpl:						

Additional Notes:
Perched high water table estimated at 27" at the interface between C1 and C2

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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: 4 (Hole #) | 12/2/25 (Date) | 9:30 am (Time) | 30s cloudy (Weather) | _____ (Latitude) | _____ (Longitude)

1. Land Use: Athletic Field (e.g., woodland, agricultural field, vacant lot, etc.) | Grass (Vegetation) | None (Surface Stones (e.g., cobbles, stones, boulders, etc.)) | 2% (Slope (%))

   Description of Location: Backyard of Residence

2. Soil Parent Material: Sandy Loam | Moraines (Landform) | TS (Position on Landscape (SU, SH, BS, FS, TS, Plain))

3. Distances from: Open Water Body 110 feet | Drainage Way 50 feet | Wetlands 50 feet | Property Line 75 feet | Drinking Water Well 250+ feet | Other _____ feet

4. Unsuitable Materials Present: ☒ Yes ☐ No If Yes: ☒ Disturbed Soil/Fill Material ☐ Weathered/Fractured Rock ☐ Bedrock

5. Groundwater Observed: ☐ Yes ☒ 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			
0-8	A(fill)	Sandy Loam	10 YR 3/2	na	Cnc :n/a Dpl:	n/a	0-2%	0%	granular	friable	
8-24	C1(fill)	Sandy Loam	10 YR 5/6	n/a	Cnc :n/a Dpl:	n/a	2-5%	5-10%	Subangular	firm	
24-50	C2(fill)	Sandy Loam	G1-5/10Y	n/a	Cnc :n/a Dpl:	n/a	2-5%	5-10%	Subangular	firm	
50-52+	A(buried)	Sandy Loam	G1-2.5/N	n/a	Cnc : Dpl:		0-2%	0%	massive	friable	
					Cnc : Dpl:						
					Cnc : Dpl:						

Additional Notes:
Weeping at 50" high ground water estimated at 24" at the interface of C1 and C2 soils due to depletion.

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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: 5 (Hole #) | 12/2/25 (Date) | 10:00 am (Time) | 30s cloudy (Weather) | _____ (Latitude) | _____ (Longitude)

1. Land Use: Athletic Field (e.g., woodland, agricultural field, vacant lot, etc.) | Grass (Vegetation) | None (Surface Stones (e.g., cobbles, stones, boulders, etc.)) | 2% (Slope (%))

Description of Location: Curner of proposed field by existing track

2. Soil Parent Material: Sandy Loam | Moraines (Landform) | TS (Position on Landscape (SU, SH, BS, FS, TS, Plain))

3. Distances from: Open Water Body 300 feet | Drainage Way 50 feet | Wetlands 50 feet | Property Line 100 feet | Drinking Water Well 250+ feet | Other _____ feet

4. Unsuitable Materials Present: ☒ Yes ☐ No If Yes: ☒ Disturbed Soil/Fill Material ☐ Weathered/Fractured Rock ☐ Bedrock

5. Groundwater Observed: ☐ Yes ☒ 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			
0-8	A(fill)	Sandy Loam	10YR 3/2	n/a	Cnc :n/a Dpl:	n/a	0-2%	0%	Granular	friable	
8-28	C1(fill)	Sandy Loam	10YR 5/6	n/a	Cnc :n/a Dpl:	n/a	2-5%	5-10%	Subangular	firm	
28-53	A(buried)	Sandy Loam	G1-2.5/N	n/a	Cnc :n/a Dpl:	n/a	0-2%	0%	Subangular	firm	
53-55+	Glay	Sandy Loam	G1-5/10Y	n/a	Cnc : Dpl:	n/a	0-2%	0%	Massive	friable	
					Cnc : Dpl:						
					Cnc : Dpl:						

Additional Notes:
Seasonal High Groundwater at 53" (Glay Soil under buried topsoil)

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D. Determination of High Groundwater Elevation

1. Method Used (Choose one): Obs. Hole #_____ Obs. Hole #_____

☐ Depth to soil redoximorphic features _____ inches _____ inches

☐ Depth to observed standing water in observation hole _____ inches _____ 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: _____ inches Lower boundary: _____ 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.

Arsen Hambardzumian	12/2/25
Signature of Soil Evaluator	Date
Arsen Hambardzumian	6/30/26
Typed or Printed Name of Soil Evaluator / License #	Expiration Date of License
Christine Mathis	Burlington BOH
Name of Approving Authority Witness	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:

See updated existing conditiosn plan with surveyed test pit locations and elevations.

Note: Additional witnesses at the time of test pits include Eileen Coleman (Town of Burlington) and Stephen Cadorette (GM2)