Attachment H:

Site Soil Sampling Information

Commonwealth of Massachusetts
City/Town of Devens

270 Barnum Road

Soil Evaluator:
John D. Sullivan III
Lic #: 2378

Form 11 - Soil Suitability Assessment [redacted]

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

Deep Observation Hole Number: TP-1 (Hole #) | 10/14/21 (Date) | 10:00 am (Time) | 70 Degrees (Weather) | Latitude | Longitude: 2-4 (Slope (%))

1. Land Use: developed site (e.g., woodland, agricultural field, vacant lot, etc.) | grassed (Vegetation) | None (Surface Stones (e.g., cobbles, stones, boulders, etc.))

Description of Location: see attached soil testpit ~~map~~ MAP

2. Soil Parent Material: Sandy Glaciofluvial Deposit | Terrace (Landform) | Position on Landscape (SU, SH, BS, FS, TS)

3. Distances from: Open Water Body >200 feet | Property Line >20 feet | Drainage Way N/A feet | Drinking Water Well N/A feet | Wetlands > 200 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 Weeping from Pit _____ 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	SL	10 YR 3/3						Massive		
6-16	Bw	LS	10 YR 6/8								
16-84	C1	SAND	2.5 Y 5/4						Coarse		
84-120	C2	SAND	2.5 Y 5/4								

Additional Notes: C-LAYER TO USE RAWLS RATE FOR SAND - CLASS 1 SOIL

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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: TP-2 (Hole #) | 10/14/21 (Date) | 10:00 AM (Time) | 70 Degrees (Weather) | _____ (Latitude) | _____ (Longitude:)

1. Land Use: developed site (e.g., woodland, agricultural field, vacant lot, etc.) | grassed (Vegetation) | none (Surface Stones (e.g., cobbles, stones, boulders, etc.)) | 2-4 (Slope (%))

   Description of Location: see attached test pit location sketch

2. Soil Parent Material: Sandy Glaciofluvial Deposit | Terrace (Landform) | _____ (Position on Landscape (SU, SH, BS, FS, TS))

3. Distances from: Open Water Body _____ feet | Drainage Way _____ feet | Wetlands _____ feet
   Property Line _____ feet | Drinking Water Well _____ 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 Weeping from Pit _____ 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			
0-48	FILL										
48-52	RESTRICTIVE LAYER (FINE SANDY LOAM) TO BE REMOVED										
52-80	C1	LS	2.5 Y 6/4	80							
80-96	C2	SL	2.5 Y 6/3	80					FINE		

Additional Notes:
REMOVE RESTRICTIVE LAYER

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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-3 (Hole #) | 10/14/21 (Date) | 10:00 AM (Time) | 70 Degrees (Weather) | Latitude | Longitude:

1. Land Use: Developed (e.g., woodland, agricultural field, vacant lot, etc.) | Grassed (Vegetation) | none (Surface Stones (e.g., cobbles, stones, boulders, etc.)) | 2-4 (Slope (%))

Description of Location: See attached sketch

2. Soil Parent Material: Sandy Glaciofluvial Deposit | Terrace (Landform) | Position on Landscape (SU, SH, BS, FS, TS)

3. Distances from: Open Water Body > 200 feet | Property Line 30 feet | Drainage Way n/a feet | Drinking Water Well n/a feet | Wetlands > 200 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 Weeping from Pit _____ 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			
0-56	FILL										
56-62	A	SL	10 YR 3/3								
62-72	B	LS	10 YR 6/8	72							
72-84	C	SL	2.5 Y 6/4	72					Fine		

Additional Notes: No groundwater observed;

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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: TP 4 (Hole #) | 10/14 (Date) | 10:00 AM (Time) | 70 degrees (Weather) | _____ (Latitude) | _____ (Longitude:)

1. Land Use: Developed Site (e.g., woodland, agricultural field, vacant lot, etc.) | grassed (Vegetation) | none (Surface Stones (e.g., cobbles, stones, boulders, etc.)) | 2-4 (Slope (%))

Description of Location: see attached sketch

2. Soil Parent Material: Sandy Glaciofluvial Deposit | Terrace (Landform) | _____ (Position on Landscape (SU, SH, BS, FS, TS))

3. Distances from: Open Water Body > 200 feet | Drainage Way n/a feet | Wetlands > 200 feet
Property Line 25 feet | Drinking Water Well _____ feet | Other _____ feet

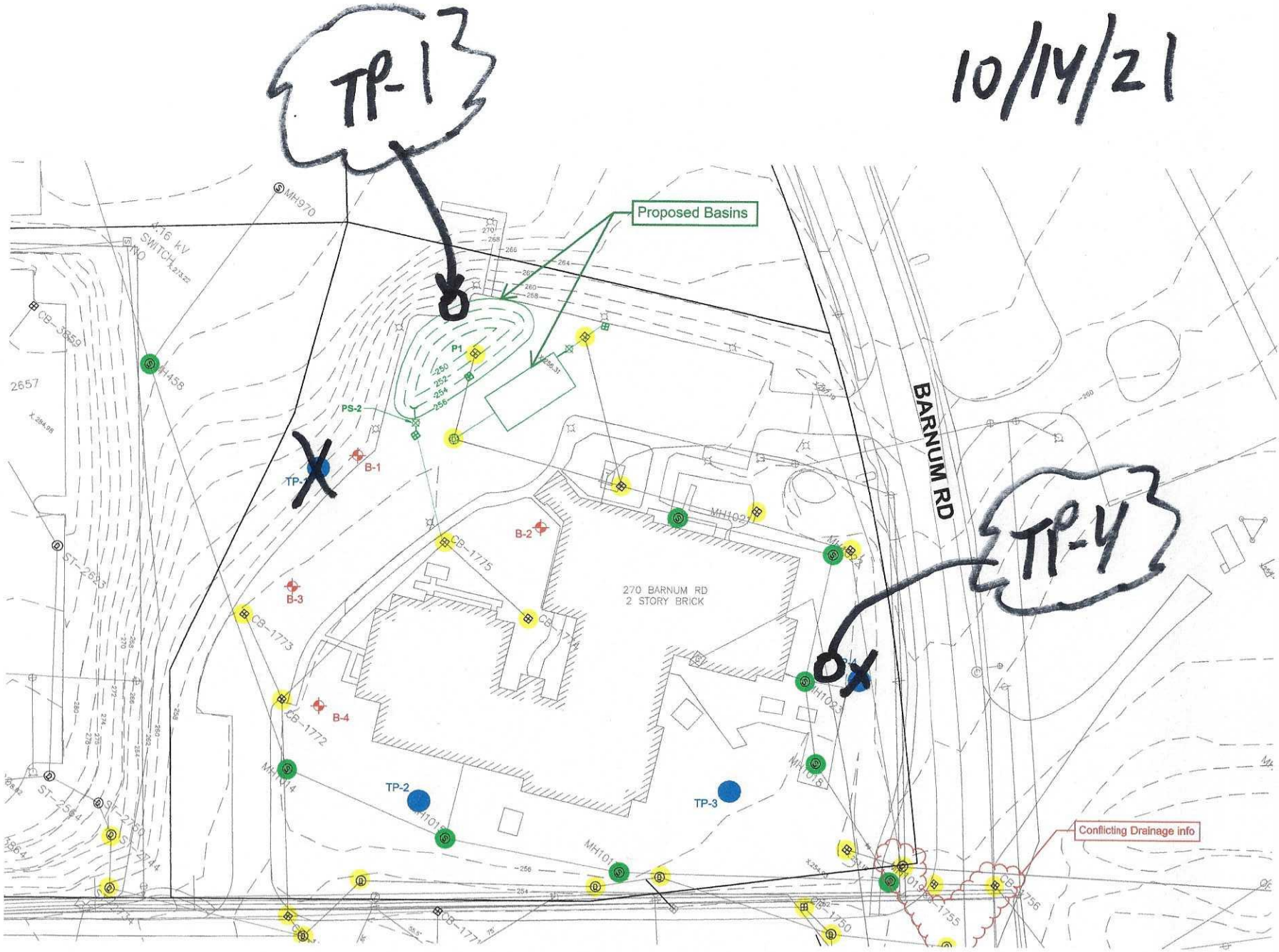
4. Unsuitable Materials Present: ☒ Yes ☐ No If Yes: ☐ Disturbed Soil ☒ Fill Material ☐ Weathered/Fractured Rock ☐ Bedrock

5. Groundwater Observed: ☐ Yes ☒ No If yes: _____ Depth Weeping from Pit _____ 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			
0-48	Fill										
48-72	C	SL		48					Fine		

Additional Notes: No groundwater observed; the C-Layer is extremely fine


TP-1
10/14/21
Proposed Basins
BARNUM RD
TP-4
270 BARNUM RD
2 STORY BRICK
TP-1
TP-2
TP-3
B-1
B-2
B-3
B-4
PS-2
P1
MH970
MH458
CB-3859
ST-2682
CB-1775
CB-1773
CB-1772
CB-1774
MH1021
MH1023
MH1015
MH1014
MH1013
MH1012
ST-2644
ST-2700
ST-2744
CB-1750
CB-1755
CB-1756
Conflicting Drainage info