170 ORCHARD STREET
SOIL TESTING
(PRELIMINARY)

AUGUST 30, 2021
(DAY 1)

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-1 **Date:** 8/30/2021 **Time:** _____ **Weather:** 75°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** 53+/-

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Grass **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 12	Ap	SL	--	--	--
--	Bw	SL	--	25"	--
--	C1	C. Sand	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: Yes If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: 44 inches

Estimated Seasonal High Groundwater: 51+/- feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-2 **Date:** 8/30/2021 **Time:** _____ **Weather:** 75°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Hay **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 14	Ap	--	--	--	--
14 - 31	Bw	--	--	--	--
31 +	C1	SiL	--	32"	Heavily Mottled, V. Firm
					Water buddling in @ 54"

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: Yes If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: 48 inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-3 **Date:** 8/30/2021 **Time:** _____ **Weather:** 75°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Hay **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 12	Ap	SL	--	--	--
12 - 30	Bw	VF SL	--	30"	--
30 +	C1	SiL	--	--	V. Firm

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: Yes If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: 50 inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-4 **Date:** 8/30/2021 **Time:** _____ **Weather:** 75°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Hay **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 14	Ap	SL	--	--	--
14 - 30	FSL	--	--	18"	--
30 - 70	C. Sand	--	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: Yes If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: 52 inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

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Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-5 **Date:** 8/30/2021 **Time:** _____ **Weather:** 75°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Hay **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 16	Ap	--	--	--	--
16 - 42	Bw	FSL	--	--	--
42 - 84	C1	C. Sand	--	44"	Hole caving in

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: Yes If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: 75 inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-6 **Date:** 8/30/2021 **Time:** _____ **Weather:** 75°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Hay **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 20	Ap	SL	--	--	--
20 - 36	Bw	FSL	--	--	--
36+	C1	L	--		--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: Yes If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: 64 inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-7 **Date:** 8/30/2021 **Time:** _____ **Weather:** 75°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Hay **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 19	Ap	--	--	--	--
19 - 36	Bw	FSL	--	32"	--
36 - 60	C1	LS	--	--	--
66 - 72	C2	SiL	--	--	Water bubbling thru broken layer
72 - 86	C3	Sand	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: Yes If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: 66 inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A_____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-8 **Date:** 8/30/2021 **Time:** _____ **Weather:** 75°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Hay **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 18	Ap	--	--	--	--
18 - 36	Bw	LS	--	--	--
36 - 80	C1	C. Sand	--	--	Hole caving in

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: Yes If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: 64 inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

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Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-9 **Date:** 8/30/2021 **Time:** _____ **Weather:** 75°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Hay **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 15	Ap	--	--	--	--
15 - 30	Bw	LS	--	--	--
30 - 80	C1	C. Sand	--	--	Hole caving in

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: Yes If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: 72 inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-10 **Date:** 8/30/2021 **Time:** _____ **Weather:** 75°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Hay **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 12	Ap	--	--	--	--
12 -	Bw	SiL	--	18"	--
- 90	C1	SiL	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: Yes If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: 88 inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

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Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-11 **Date:** 8/30/2021 **Time:** _____ **Weather:** 75°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Hay **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 10	Ap	--	--	--	--
10 -	Bw	SiL	--	20"	Heavily Mottled
- 88	C1	SiL	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: Yes If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: 88 inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-12 **Date:** 8/30/2021 **Time:** _____ **Weather:** 75°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Hay **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 36		Sand & VFSL			

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: Yes If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: 12 inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-13 **Date:** 8/30/2021 **Time:** _____ **Weather:** 75°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Hay **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 10	Ap	SL	--	--	--
10 - 40	Bw	VFSL	--	21"	--
40 - 80	C1	C. Sand	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: Yes If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: 46 inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

170 ORCHARD STREET
SOIL TESTING
(PRELIMINARY)

MAY 6, 2022
(DAY 2)

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-1-22 **Date:** 5/6/2022 **Time:** _____ **Weather:** 65°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Grass / Weeds **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body _____ feet Drainage Way _____ feet

Possible Wet Area _____ feet Property Line _____ feet

Drinking Water Well _____ feet Other _____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 32	FILL	--	--	--	Bricks, Topsoil
32 - 48	C1	C. Sand	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: Yes If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: 42 inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-2-22 **Date:** 5/6/2022 **Time:** _____ **Weather:** 65°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** _____

Vegetation: Grass / Weeds **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	_____ feet	Drainage Way	_____ feet
Possible Wet Area	_____ feet	Property Line	_____ feet
Drinking Water Well	_____ feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 32	FILL	--	--	--	Topsoil / fill
32 - 54	B/C	C. Sand	--	--	--
54+	C2	V FSL	--	--	Heavily Mottled

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: Yes If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: 56 inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

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Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-3-22 **Date:** 5/6/2022 **Time:** _____ **Weather:** 65°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Grass / Weeds **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 18	Ap	--	--	--	--
18 - 60	B/C	C. Sand	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: Yes If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: 60 inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

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Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-4-22 **Date:** 5/6/2022 **Time:** _____ **Weather:** 65°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Grass / Weeds **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 36	Ap	FILL	--	--	Topsoil, Brick
36 - 60	B/C	SL	--	--	More fill
60 - 84	C2	C. Sand	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: _____ If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-5-22 **Date:** 5/6/2022 **Time:** _____ **Weather:** 65°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Grass / Weeds **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 24	Ap	FILL	--	--	--
24 - 70	B/C	C. Sand	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: Yes If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: 60 inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-6-22 **Date:** 5/6/2022 **Time:** _____ **Weather:** 65°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Hay **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 12	Ap	--	--	--	--
12 - 34	Bw	FLS	--	--	--
34 - 80	C1	C. Sand	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: Yes If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: 64 inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-7-22 **Date:** 5/6/2022 **Time:** _____ **Weather:** 65°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Hay **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 12	Ap	--	--	--	--
12 - 36	Bw	FLS	--	--	--
36 - 42	C1	FSL - L	--	--	V. Firm
42 - 80	C2	C. Sand	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: Yes If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: 64 inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A_____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-8-22 **Date:** 5/6/2022 **Time:** _____ **Weather:** 65°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Hay **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 12	Ap	--	--	--	--
12 - 34	Bw	FLS	--	--	--
34 - 75	C1	C. Sand	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: Yes If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: 60 inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-9-22 **Date:** 5/6/2022 **Time:** _____ **Weather:** 65°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Hay **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 10	Ap	--	--	--	--
10 - 27	Bw	FLS	--	--	--
27 - 84	C1	C. Sand	--	52"	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: Yes If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: 80 inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-10-22 **Date:** 5/6/2022 **Time:** _____ **Weather:** 65°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Hay **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 12	Ap	--	--	--	--
12 - 38	Bw	FLS	--	--	--
38 - 78	C1	C. Sand	--	50"	--
78 - 88	C2	SiL	--	--	--
88 - 102	C3	C. Sand	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: _____ If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: 100 inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-11-22 **Date:** 5/6/2022 **Time:** _____ **Weather:** 65°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Hay **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100	feet	Drainage Way	>100	feet
Possible Wet Area	>100	feet	Property Line	_____	feet
Drinking Water Well	>100	feet	Other	_____	

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 14	Ap	--	--	--	--
14 - 36	Bw	FLS	--	--	--
36 - 60	C1	C. Sand	--	--	--
60 - 100	C2	SiL	--	--	Heavily mottled

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: _____ If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-12-22 **Date:** 5/6/2022 **Time:** _____ **Weather:** 65°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Hay **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100	feet	Drainage Way	>100	feet
Possible Wet Area	>100	feet	Property Line	_____	feet
Drinking Water Well	>100	feet	Other	_____	

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 12	Ap	--	--	--	--
12 - 40	Bw	SL	--	36"	--
40 - 66	C1	C. Sand	--	--	--
66+	C2	SiL	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: Yes If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: 66 inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

170 ORCHARD STREET
SOIL TESTING
(ON-FILE w/ BOH)

NOVEMBER 8, 2022
(DAY 3)

Commonwealth of Massachusetts
City/Town of Newbury

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

A. Facility Information

Estate of Lewis Bulgaris
Owner Name

170 Orchard Street
Street Address

R20 / 43A
Map/Lot #

Newbury
City

MA
State

01922
Zip Code

B. Site Information

1. (Check one) ☒ New Construction ☐ Upgrade

2. Soil Survey — Web Soil Survey (Source); 225A (Soil Map Unit); Belgrade Very Fine Sandy Loam (Soil Series)

   Valleys (Landform); High Groundwater (Soil Limitations)

   Friable coarse-silty eolian deposits over soft coarse-silty glaciolacustrine deposits derived from metamorphic rock
   Soil Parent material

3. Surficial Geological Report — MassGIS (Year Published/Source); Sand & Gravel; Fine Grained Deposits (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: N/A (Wetland Type)

7. Current Water Resource Conditions (USGS): -- (Month/Day/ Year) Range: ☐ Above Normal ☐ Normal ☐ Below Normal

8. Other references reviewed: (Zone II, IWPA, Zone A, EEA Data Portal, etc.) DEP Searchwell

Commonwealth of Massachusetts
City/Town of Newbury

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-1N (Hole #) 11/8/22 (Date) 8:30 (Time) _____ (Weather) _____ (Latitude) _____ (Longitude)

1. Land Use: Agricultural Field (e.g., woodland, agricultural field, vacant lot, etc.) | Bare Soil / Corn (Vegetation) | None (Surface Stones (e.g., cobbles, stones, boulders, etc.)) | 0 - 3 (Slope (%))

Description of Location: Lot 1

2. Soil Parent Material: _____ Landform _____ Position on Landscape (SU, SH, BS, FS, TS, Plain) _____

3. Distances from: Open Water Body >100 feet | Drainage Way _____ feet | Wetlands >100 feet | Property Line 57 feet | Drinking Water Well >100 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 94" 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 - 13	Ap	SL	10YR 3/2		Cnc : Dpl:		<2	<2	Gran.	Fr.	
13 - 28	Bw	FSL	10YR 5/6		Cnc : Dpl:		<2	<2	Ma.	Fr.	
28 - 88	C1	C. Sand	10YR 6/3	36+/-	Cnc : Dpl:		<2	<2	S.G.	Loose	
88 - 98	C2	FSL	10YR 5/6		Cnc : Dpl:		<2	<2	Ma.	Firm	Damp
					Cnc : Dpl:						
					Cnc : Dpl:						

Additional Notes:
BOE @ 98"; No Refusal

Commonwealth of Massachusetts
City/Town of Newbury

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-2N (Hole #) 11/8/22 (Date) ____ (Time) ____ (Weather) ____ (Latitude) ____ (Longitude)

1. Land Use: Agricultural Field (e.g., woodland, agricultural field, vacant lot, etc.) | Bare Soil / Corn (Vegetation) | None (Surface Stones (e.g., cobbles, stones, boulders, etc.) | 0 - 3 (Slope (%))

   Description of Location: Lot 1

2. Soil Parent Material: ____ Landform ____ Position on Landscape (SU, SH, BS, FS, TS, Plain)

3. Distances from: Open Water Body >100 feet | Drainage Way ____ feet | Wetlands >100 feet | Property Line 77 feet | Drinking Water Well >100 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 90" 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 - 18	Ap	SL	10YR 3/2		Cnc : Dpl:		<2	<2	Gran.	Fr.	
18 - 34	Bw	FSL	10YR 5/6		Cnc : Dpl:		<2	<2	Ma.	Fr.	
34 - 42	C1	SL	10YR 6/2	36"+/-	Cnc : Dpl:		<2	<2	S.G.	Loose	
42 - 92	C2	C. Sand	10YR 6/3		Cnc : Dpl:		<2	<2	Ma.	Fr.	
92 - 102	C3	FSL	10YR 5/6		Cnc : Dpl:		<2	<2	Ma.	Fr.	
					Cnc : Dpl:						

Additional Notes:
BOE @ 102"; No Refusal

Commonwealth of Massachusetts
City/Town of Newbury

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

D. Determination of High Groundwater Elevation

1. Method Used (Choose one):	Obs. Hole #TP-1N	Obs. Hole #TP-2N
☐ Depth to soil redoximorphic features	36 inches	36 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: 28 inches Lower boundary: 92 inches

   c. If no, at what depth was impervious material observed? Upper boundary: _____ inches Lower boundary: _____ inches

Commonwealth of Massachusetts
City/Town of Newbury

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-3N (Hole #) 11/8/22 (Date) ____ (Time) ____ (Weather) ____ (Latitude) ____ (Longitude)

1. Land Use: Agricultural Field (e.g., woodland, agricultural field, vacant lot, etc.) | Bare Soil / Corn (Vegetation) | None (Surface Stones (e.g., cobbles, stones, boulders, etc.) | 0 - 3 (Slope (%))

Description of Location: Lot 1

2. Soil Parent Material: ____ Landform: ____ Position on Landscape (SU, SH, BS, FS, TS, Plain): ____

3. Distances from: Open Water Body >100 feet | Drainage Way ____ feet | Wetlands >100 feet | Property Line 60 feet | Drinking Water Well >100 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 | 88" 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	Ap	SL	10YR 3/2		Cnc : Dpl:		<2	<2	Gran.	Fr.	
12 - 36	Bw	FSL	10YR 5/6		Cnc : Dpl:		<2	<2	Ma.	Fr.	
36 - 104	C1	C. Sand	10YR 6/3	36"+/-	Cnc : Dpl:		<2	<2	S.G.	Loose	
104 - 110	C2	FSL	10YR 5/6		Cnc : Dpl:		<2	<2	Ma.	Fr.	
					Cnc : Dpl:						
					Cnc : Dpl:						

Additional Notes:
BOE & 110"; No Refusal

Commonwealth of Massachusetts
City/Town of Newbury

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-4N (Hole #) 11/8/22 (Date) ____ (Time) ____ (Weather) ____ (Latitude) ____ (Longitude)

1. Land Use: Agricultural Field (e.g., woodland, agricultural field, vacant lot, etc.) | Bare Soil / Corn (Vegetation) | None (Surface Stones (e.g., cobbles, stones, boulders, etc.) | 0 - 3 (Slope (%))

   Description of Location: Lot 1

2. Soil Parent Material: ____ Landform ____ Position on Landscape (SU, SH, BS, FS, TS, Plain)

3. Distances from: Open Water Body >100 feet | Drainage Way ____ feet | Wetlands >100 feet | Property Line 78 feet | Drinking Water Well >100 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 96" 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 - 15	Ap	SL	10YR 3/2		Cnc : Dpl:		<2	<2	Gran.	Fr.	
15 - 34	Bw	FSL	10YR 5/6		Cnc : Dpl:		<2	<2	Ma.	Fr.	
34 - 104	C1	C. Sand	10YR 6/3	36"+/-	Cnc : Dpl:		<2	<2	S.G.	Loose	
104 - 114	C2	FSL	10YR 5/6		Cnc : Dpl:		<2	<2	Ma.	Fr.	
					Cnc : Dpl:		<2	<2			
					Cnc : Dpl:						

Additional Notes:
BOE @ 114"; No Refusal

Commonwealth of Massachusetts
City/Town of Newbury

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

D. Determination of High Groundwater Elevation

1. Method Used (Choose one):	Obs. Hole #TP-3N	Obs. Hole #TP-4N
☒ Depth to soil redoximorphic features	36 inches	36 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: 34 inches Lower boundary: 104 inches

   c. If no, at what depth was impervious material observed? Upper boundary: _____ inches Lower boundary: _____ inches

Commonwealth of Massachusetts
City/Town of Newbury

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-5N (Hole #) 11/8/22 (Date) ____ (Time) ____ (Weather) ____ (Latitude) ____ (Longitude)

1. Land Use: Agricultural Field (e.g., woodland, agricultural field, vacant lot, etc.) | Bare Soil / Corn (Vegetation) | None (Surface Stones (e.g., cobbles, stones, boulders, etc.)) | 0 - 3 (Slope (%))

Description of Location: Lot 2

2. Soil Parent Material: ____ Landform ____ Position on Landscape (SU, SH, BS, FS, TS, Plain) ____

3. Distances from: Open Water Body >100 feet | Drainage Way ____ feet | Wetlands >100 feet | Property Line 68 feet | Drinking Water Well >100 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 - 16	Ap	SL	10YR 3/2		Cnc : Dpl:		<2	<2	Gran.	Fr.	
16 - 36	Bw	SL	10YR 5/6	24"+/-	Cnc : Dpl:		<2	<2	Ma.	Firm	Mottles throughout
36 - 104	C1	C. Sand	10YR 6/3		Cnc : Dpl:		<2	<2	S.G.	Loose	
104 - 110	C2	FLS	10YR 5/6		Cnc : Dpl:		<2	<2	MA	Fr.	Heavily Mottled
					Cnc : Dpl:						
					Cnc : Dpl:						

Additional Notes:
BOE @ 110; No Refusal; No Water

Commonwealth of Massachusetts
City/Town of Newbury

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-6N (Hole #) 11/8/22 (Date) ____ (Time) ____ (Weather) ____ (Latitude) ____ (Longitude)

1. Land Use: Agricultural Field (e.g., woodland, agricultural field, vacant lot, etc.) | Bare Soil / Corn (Vegetation) | None (Surface Stones (e.g., cobbles, stones, boulders, etc.)) | 0 - 3 (Slope (%))

Description of Location: Lot 2

2. Soil Parent Material: ____ Landform ____ Position on Landscape (SU, SH, BS, FS, TS, Plain)

3. Distances from: Open Water Body >100 feet | Drainage Way ____ feet | Wetlands >100 feet | Property Line 74 feet | Drinking Water Well >100 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 108" 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 - 15	Ap	SL	10YR 3/2		Cnc : Dpl:		<2	<2	Gran.	Fr.	
15 - 48	Bw	SL	10YR 5/6		Cnc : Dpl:		<2	<2	Ma.	Firm	
48 - 102	C1	C. Sand	10YR 6/3	48"+/-	Cnc : Dpl:		<2	<2	S.G.	Loose	
102 - 108	C2	FSL	10YR 5/6		Cnc : Dpl:		<2	<2	Ma.	Fr.	
					Cnc : Dpl:						
					Cnc : Dpl:						

Additional Notes:
BOE @ 108; No Refusal

Commonwealth of Massachusetts
City/Town of Newbury

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

D. Determination of High Groundwater Elevation

1. Method Used (Choose one):	Obs. Hole #TP-5N	Obs. Hole #TP-6N
☒ Depth to soil redoximorphic features	24 inches	48 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: 36 inches Lower boundary: 104 inches

   c. If no, at what depth was impervious material observed? Upper boundary: _____ inches Lower boundary: _____ inches

Commonwealth of Massachusetts
City/Town of Newbury

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-7N (Hole #) 11/8/22 (Date) ____ (Time) ____ (Weather) ____ (Latitude) ____ (Longitude)

1. Land Use: Agricultural Field (e.g., woodland, agricultural field, vacant lot, etc.) | Bare Soil / Corn (Vegetation) | None (Surface Stones (e.g., cobbles, stones, boulders, etc.) | 0 - 3 (Slope (%))

Description of Location: Lot 2

2. Soil Parent Material: ____ Landform ____ Position on Landscape (SU, SH, BS, FS, TS, Plain) ____

3. Distances from: Open Water Body >100 feet | Drainage Way ____ feet | Wetlands >100 feet | Property Line 61 feet | Drinking Water Well >100 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: 90" 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 - 14	Ap	SL	10YR 3/2		Cnc : Dpl:		<2	<2	Gran.	Fr.	
14 - 42	Bw	SL	10YR 5/6		Cnc : Dpl:		<2	<2	Ma.	Firm	
42 - 100	C1	C. Sand	10YR 6/3	42"+/-	Cnc : Dpl:		<2	<2	S.G.	Loose	
100 - 106	C2	FSL	10YR 5/6		Cnc : Dpl:		<2	<2	Ma.	Fr.	Mottled
					Cnc : Dpl:						
					Cnc : Dpl:						

Additional Notes:
BOE @ 106"; No Refusal

Commonwealth of Massachusetts
City/Town of Newbury

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-8N (Hole #) 11/8/22 (Date) ____ (Time) ____ (Weather) ____ (Latitude) ____ (Longitude)

1. Land Use: Agricultural Field (e.g., woodland, agricultural field, vacant lot, etc.) | Bare Soil / Corn (Vegetation) | None (Surface Stones (e.g., cobbles, stones, boulders, etc.) | 0 - 3 (Slope (%))

   Description of Location: Lot 2

2. Soil Parent Material: ____ Landform ____ Position on Landscape (SU, SH, BS, FS, TS, Plain)

3. Distances from: Open Water Body >100 feet | Drainage Way ____ feet | Wetlands >100 feet | Property Line 75 feet | Drinking Water Well >100 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: 104" 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 - 14	Ap	SL	10YR 3/2		Cnc : Dpl:		<2	<2	Gran.	Fr.	
14 - 36	Bw	SL	10YR 5/6		Cnc : Dpl:		<2	<2	Ma.	Firm	
36 - 92	C1	C. Sand	10YR 6/3	36"+/-	Cnc : Dpl:		<2	<2	S.G.	Loose	
92 - 112	C2	FSL	10YR 5/6		Cnc : Dpl:		<2	<2	Ma.	Fr.	Heavily Mottled; Damp
					Cnc : Dpl:						
					Cnc : Dpl:						

Additional Notes:
BOE @ 112; No Refusal

Commonwealth of Massachusetts
City/Town of Newbury

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

D. Determination of High Groundwater Elevation

1. Method Used (Choose one):	Obs. Hole #TP-7N	Obs. Hole #TP-8N
☒ Depth to soil redoximorphic features	42 inches	36 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: 36 inches Lower boundary: 100 inches

   c. If no, at what depth was impervious material observed? Upper boundary: _____ inches Lower boundary: _____ inches

170 ORCHARD STREET
SOIL TESTING
(PRELIMINARY)

NOVEMBER 10, 2022
(DAY 4)

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-9N **Date:** 11/10/2022 **Time:** _____ **Weather:** 65°, Sunny

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 10	Ap	SL	--	--	--
10 - 22	Bw	SL	--	--	--
22 - 50	C1	C. Sand	--	--	--
50 +	C2	SiL	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: _____ If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-10N **Date:** 11/10/2022 **Time:** _____ **Weather:** 65°, Sunny

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 15	Ap	SL	--	--	--
15 - 27	Bw	SL	--	--	--
27 - 50	C1	C. Sand	--	--	--
50+	C2	SiL	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: _____ If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-11N **Date:** 11/10/2022 **Time:** _____ **Weather:** 65°, Sunny

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 10	Ap	SL	--	--	--
10 - 24	Bw	SL	--	--	--
24 - 50	C1	C. Sand	--	--	--
50+	C2	SiL	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: _____ If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-12N **Date:** 11/10/2022 **Time:** _____ **Weather:** 65°, Sunny

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 15	Ap	SL	--	--	--
15 - 36	Bw	SL	--	--	--
36 - 64	C1	C. Sand	--	--	--
64 - 70	C2	SL	--	--	Thin layer
70 - 96	C3	C. Sand	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: No If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A_____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-13N **Date:** 11/10/2022 **Time:** _____ **Weather:** 65°, Sunny

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 10	Ap	SL	--	--	--
10 - 33	Bw	SL	--	--	--
33 - 40	C1	SL	--	36"	--
40 - 50	C2	C. Sand	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: _____ If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-14N **Date:** 11/10/2022 **Time:** _____ **Weather:** 65°, Sunny

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 15	Ap	SL	--	--	--
15 - 33	Bw	SL	--	--	--
33 - 60	C1	SL/C. Sand	--	36"	Alt layers of SL & C. Sand

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: _____ If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-15N **Date:** 11/10/2022 **Time:** _____ **Weather:** 65°, Sunny

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: _____ If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-16N **Date:** 11/10/2022 **Time:** _____ **Weather:** 65°, Sunny

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: _____ If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-17N **Date:** 11/10/2022 **Time:** _____ **Weather:** 65°, Sunny

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 12	Ap	--	--	--	--
12 - 29	Bw	--	--	--	--
29 -	C1	--	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: _____ If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-18N **Date:** 11/10/2022 **Time:** _____ **Weather:** 65°, Sunny

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 13	Ap	SL	--	--	--
13 - 39	Bw	SL/FSL	--	--	--
39 - 56	C1	C. Sand	--	44"	--
56 - 132	C2	Loam	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: No If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-19N **Date:** 11/10/2022 **Time:** _____ **Weather:** 65°, Sunny

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 10	Ap	--	--	--	--
10 - 22	Bw	--	--	--	--
22 - 52	C1	C.Sand	--	36"	--
52+	C2	SiL	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: No If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-20N **Date:** 11/10/2022 **Time:** _____ **Weather:** 65°, Sunny

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 12	Ap	--	--	--	--
12 - 26	Bw	--	--	--	--
26 - 50	C1	C. Sand	--	38"	--
50+	C2	SiL	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: No If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-21N **Date:** 11/10/2022 **Time:** _____ **Weather:** 65°, Sunny

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 18	Ap	SL	--	--	--
18 - 36	Bw	SL	--	--	--
36 - 71	C1	C. Sand	--	49"	--
71+	C2	SiL	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: No If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-22N **Date:** 11/10/2022 **Time:** _____ **Weather:** 65°, Sunny

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 14	Ap	--	--	--	--
14 - 34	Bw	FSL	--	--	--
34 - 50	C1	C. Sand	--	42"	--
50+	C2	SiL	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: No If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-23N **Date:** 11/10/2022 **Time:** _____ **Weather:** 65°, Sunny

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 12	Ap	--	--	--	--
12 - 28	Bw	FSL	--	--	Pockets of L (mottled)
28 - 58	C1	C. Sand	--	42"	--
58+	C2	SiL	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: No If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-24N **Date:** 11/10/2022 **Time:** _____ **Weather:** 65°, Sunny

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 15	Ap	--	--	--	--
15 - 30	Bw	FSL	--	--	--
30 - 52	C1	C. Sand	--	--	w/ SiL striations
52+	C2	SiL	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: No If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-25N **Date:** 11/10/2022 **Time:** _____ **Weather:** 65°, Sunny

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 15	Ap	--	--	--	--
15 - 33	Bw	FSL	--	33"	--
33 - 56	C1	C. Sand	--	--	--
56+	C2	SiL	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: No If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-26N **Date:** 11/10/2022 **Time:** _____ **Weather:** 65°, Sunny

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 15	Ap	--	--	--	--
15 - 36	Bw	FSL	--	--	--
36 - 74	C1	C. Sand	--	40"	w/ SiL striations (minor)

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: No If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

170 ORCHARD STREET
SOIL TESTING
(PRELIMINARY)

NOVEMBER 15, 2022
(DAY 5)

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-27N **Date:** 11/15/2022 **Time:** _____ **Weather:** 40°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 14	Ap	SL	--	--	--
14 - 44	Bw	FSL	--	32"	--
44 - 106	C1	C. Sand	--	--	--
106 - 110	C2	VFSL	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: _____ If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-28N **Date:** 11/15/2022 **Time:** _____ **Weather:** 40°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 14	Ap	SL	--	--	--
14 - 43	Bw	FSL	--	36"	--
43 - 84	C1	C. Sand	--	--	--
84 - 90	C2	SiL	--	--	--
90 - 104	C3	VFSL	--	--	Mottled, damp

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: No If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: -- inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-29N **Date:** 11/15/2022 **Time:** _____ **Weather:** 40°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 15	Ap	SL	--	--	--
15 - 46	Bw	FSL	--	--	--
46 - 96	C1	C. Sand	--	54"	--
96 - 112	C2	VFSL	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: No If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-30N **Date:** 11/15/2022 **Time:** _____ **Weather:** 40°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 15	Ap	SL	--	--	--
15 - 44	Bw	FSL	--	36"	--
44 - 78	C1	C. Sand	--	--	--
78 - 90	C2	SiL	--	--	--
90 - 100	C3	C. Sand	--	--	--
100 - 108	C4	VFSL	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: _____ If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-31N **Date:** 11/15/2022 **Time:** _____ **Weather:** 40°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100	feet	Drainage Way	>100	feet
Possible Wet Area	>100	feet	Property Line	_____	feet
Drinking Water Well	>100	feet	Other	_____	

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 24	Ap	--	--	--	Fill / Previous TP
24 - 36	Bw	FSL	--	36"	--
36 - 98	C1	C. Sand	--	--	--
98 - 100	C2	VFSL	--	--	Mottled

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: _____ If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-32N **Date:** 11/15/2022 **Time:** _____ **Weather:** 40°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 15	Ap	--	--	--	--
15 - 46	Bw	FSL	--	40"	--
46 - 82	C1	C. Sand	--	--	--
82 - 94	C2	SiL	--	--	--
94 - 116	C3	C. Sand	--	--	--
116 - 120	C4	VFSL	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: _____ If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-33N **Date:** 11/15/2022 **Time:** _____ **Weather:** 40°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn / Woods **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 10	Ap	SL	--	--	--
10 - 24	Bw	FSL	--	--	--
24 - 44	C1	C. Sand	--	--	
44 - 84	C2	SiL	--	--	Dense; mixed w/ layers of Sand

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: No If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A_____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-34N **Date:** 11/15/2022 **Time:** _____ **Weather:** 40°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 10	Ap	SL	--	--	--
10 - 26	Bw	FSL	--	--	--
26 - 58	C1	C. Sand	--	36"	--
58 +	C2	SiL	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: _____ If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-35N **Date:** 11/15/2022 **Time:** _____ **Weather:** 40°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100	feet	Drainage Way	>100	feet
Possible Wet Area	>100	feet	Property Line	_____	feet
Drinking Water Well	>100	feet	Other	_____	

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
0 - 10	Ap	SL	--	--	--
10 - 26	Bw	FSL	--	--	--
26 - 58	C1	C. Sand	--	--	2" Th. Layer of SiL @ 40"
58 - 78	C2	SiL	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: _____ If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-36N **Date:** 11/15/2022 **Time:** _____ **Weather:** 40°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
48+	C1	SiL	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: _____ If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-37N **Date:** 11/15/2022 **Time:** _____ **Weather:** 40°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
--	--	--	--	38"	--
42+	C1	SiL	--	--	Mixed SiL & Sand layers

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: _____ If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-38N **Date:** 11/15/2022 **Time:** _____ **Weather:** 40°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
58 +	C1	SiL	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: _____ If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-39N **Date:** 11/15/2022 **Time:** _____ **Weather:** 40°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn / Woods **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
40 +	C1	SiL	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: _____ If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-40N **Date:** 11/15/2022 **Time:** _____ **Weather:** 40°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
53 +	C1	SiL	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: _____ If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-41N **Date:** 11/15/2022 **Time:** _____ **Weather:** 40°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
56 +	C1	SiL	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: _____ If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-42N **Date:** 11/15/2022 **Time:** _____ **Weather:** 40°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
56 +	C1	SiL	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: _____ If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-43N **Date:** 11/15/2022 **Time:** _____ **Weather:** 40°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
54 +	C1	SiL	--	--	SiL ribbon in sand @ 36"

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: _____ If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-44N **Date:** 11/15/2022 **Time:** _____ **Weather:** 40°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
30 - 77+	C1	SiL	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: _____ If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

Location Address 170 Orchard Street, Newbury

On-site Review

Deep Hole Number: TP-45N **Date:** 11/15/2022 **Time:** _____ **Weather:** 40°, Cloudy

Location: (see site plan) **Ground Elevation at Surface of Hole:** _____

Land Use: Agricultrual Field **Surface Stones:** None

Vegetation: Corn **Landform:** _____

Slope(%): 0 - 5%

Distance from:

Open Water Body	>100 feet	Drainage Way	>100 feet
Possible Wet Area	>100 feet	Property Line	_____ feet
Drinking Water Well	>100 feet	Other	_____

DEEP OBSERVATION HOLE LOG

Depth from Surface (inches)	Soil Horizon/ Layer	Soil Texture (USDA)	Soil Color (Munsell)	Redoximorphic Features	Other Other (Structure, Kind & Grade, Consistency, % Gravel, Stones, Boulders …..)
20+	C1	SiL	--	--	--

Parent Material (geologic): _____ **Depth of Bedrock:** No Refusal

Groundwater Observed: _____ If Yes: Depth of Weeping from Pit: _____

Depth Standing Water in Hole: _____ inches

Estimated Seasonal High Groundwater: _____ feet

Does at least 4-ft of naturally occurring pervious material exist: N/A

Upper Boundary (inches) : N/A Lower Boundary (inches): N/A

Certification

I certify that on ___N/A____ I have passed the soil evaluator examination approved by the Department of Environmental Protection and that the above analysis was performed by me consistent with the required training, expertise, and experience des

Signature _____ Date _____

170 ORCHARD STREET
SOIL TESTING
(ON-FILE w/ BOH)

DECEMBER 1, 2022
(DAY 6)

Commonwealth of Massachusetts
City/Town of Newbury

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-1D (Hole #) 12/1/22 (Date) 9:30 (Time) _____ (Weather) _____ (Latitude) _____ (Longitude)

1. Land Use: Agricultural Field (e.g., woodland, agricultural field, vacant lot, etc.) | Bare Soil / Corn (Vegetation) | None (Surface Stones (e.g., cobbles, stones, boulders, etc.) | 0 - 3 (Slope (%)

Description of Location: Lot 3

2. Soil Parent Material: _____ Landform _____ Position on Landscape (SU, SH, BS, FS, TS, Plain) _____

3. Distances from: Open Water Body >100 feet | Drainage Way _____ feet | Wetlands >100 feet | Property Line 109 feet | Drinking Water Well >100 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 - 17	Ap	FSL	10YR 3/2		Cnc : Dpl:		<2	<2	Gran.	Fr.	
17 - 48	Bw	FSL		36"	Cnc : Dpl:		<2	<2	Ma.	Fr.	
48 - 96	C1	C. Sand			Cnc : Dpl:		<2	<2	S.G.	Loose	
96 - 104	C2	FSL			Cnc : Dpl:		<2	<2	Ma.	Fr.	Heavily Mottled
					Cnc : Dpl:						
					Cnc : Dpl:						

Additional Notes:
BOE @ 104"; No Refusal; No Water

Commonwealth of Massachusetts
City/Town of Newbury

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-2D (Hole #) 12/1/22 (Date) ____ (Time) ____ (Weather) ____ (Latitude) ____ (Longitude)

1. Land Use: Agricultural Field (e.g., woodland, agricultural field, vacant lot, etc.) | Bare Soil / Corn (Vegetation) | None (Surface Stones (e.g., cobbles, stones, boulders, etc.) | 0 - 3 (Slope (%))

   Description of Location: Lot 3

2. Soil Parent Material: ____ Landform ____ Position on Landscape (SU, SH, BS, FS, TS, Plain)

3. Distances from: Open Water Body >100 feet | Drainage Way ____ feet | Wetlands >100 feet | Property Line 109 feet | Drinking Water Well >100 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 - 15	Ap	FSL	10YR 3/2		Cnc : Dpl:		<2	<2			
15 - 45	Bw	FSL		36"	Cnc : Dpl:		<2	<2			
45 - 98	C1	C. Sand			Cnc : Dpl:		<2	<2			
98 - 106	C2	FSL			Cnc : Dpl:		<2	<2			Heavily Mottled
					Cnc : Dpl:						
					Cnc : Dpl:						

Additional Notes:
BOE @ 106; No Refusal

Commonwealth of Massachusetts
City/Town of Newbury

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

D. Determination of High Groundwater Elevation

1. Method Used (Choose one):	Obs. Hole #TP-1D	Obs. Hole #TP-2D
☒ Depth to soil redoximorphic features	36 inches	36 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: 45 inches Lower boundary: 98 inches

   c. If no, at what depth was impervious material observed? Upper boundary: _____ inches Lower boundary: _____ inches

Commonwealth of Massachusetts
City/Town of Newbury

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-3D (Hole #) 12/1/22 (Date) ____ (Time) ____ (Weather) ____ (Latitude) ____ (Longitude)

1. Land Use: Agricultural Field (e.g., woodland, agricultural field, vacant lot, etc.) | Bare Soil / Corn (Vegetation) | None (Surface Stones (e.g., cobbles, stones, boulders, etc.) | 0 - 3 (Slope (%))

Description of Location: Lot 3

2. Soil Parent Material: ____ Landform: ____ Position on Landscape (SU, SH, BS, FS, TS, Plain): ____

3. Distances from: Open Water Body >100 feet | Drainage Way ____ feet | Wetlands >100 feet | Property Line 136 feet | Drinking Water Well >100 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 | 96" 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	Ap	FSL	10YR 3/2		Cnc : Dpl:		<2	<2	Gran.	Fr.	
12 - 54	Bw	FSL		28"	Cnc : Dpl:		<2	<2	Ma.	Fr.	
54 - 110	C1	C. Sand			Cnc : Dpl:		<2	<2	S.G.	Loose	
					Cnc : Dpl:						
					Cnc : Dpl:						
					Cnc : Dpl:						

Additional Notes:
BOE @ 110; No Refusal

Commonwealth of Massachusetts
City/Town of Newbury

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-4D (Hole #) 12/1/22 (Date) ____ (Time) ____ (Weather) ____ (Latitude) ____ (Longitude)

1. Land Use: Agricultural Field (e.g., woodland, agricultural field, vacant lot, etc.) | Bare Soil / Corn (Vegetation) | None (Surface Stones (e.g., cobbles, stones, boulders, etc.) | 0 - 3 (Slope (%))

   Description of Location: Lot 3

2. Soil Parent Material: ____ Landform ____ Position on Landscape (SU, SH, BS, FS, TS, Plain)

3. Distances from: Open Water Body >100 feet | Drainage Way ____ feet | Wetlands >100 feet | Property Line 135 feet | Drinking Water Well >100 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 108" 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 - 13	Ap	FSL	10YR 3/2		Cnc : Dpl:		<2	<2	Gran.	Fr.	
13 - 54	Bw	FSL		26"	Cnc : Dpl:		<2	<2	Ma.	Fr.	
54 - 108	C1	C. Sand			Cnc : Dpl:		<2	<2	S.G.	Loose	
					Cnc : Dpl:						
					Cnc : Dpl:						
					Cnc : Dpl:						

Additional Notes:
BOE @ 108; No Refusal

Commonwealth of Massachusetts
City/Town of Newbury

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

D. Determination of High Groundwater Elevation

1. Method Used (Choose one):	Obs. Hole #TP-3D	Obs. Hole #TP-4D
☒ Depth to soil redoximorphic features	28 inches	26 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: 54 inches Lower boundary: 110 inches

   c. If no, at what depth was impervious material observed? Upper boundary: _____ inches Lower boundary: _____ inches

Commonwealth of Massachusetts
City/Town of Newbury

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-9D (Hole #) 12/1/22 (Date) ____ (Time) ____ (Weather) ____ (Latitude) ____ (Longitude)

1. Land Use: Agricultural Field (e.g., woodland, agricultural field, vacant lot, etc.) | Bare Soil / Corn (Vegetation) | None (Surface Stones (e.g., cobbles, stones, boulders, etc.) | 0 - 3 (Slope (%))

Description of Location: Lot 4

2. Soil Parent Material: ____ Landform: ____ Position on Landscape (SU, SH, BS, FS, TS, Plain): ____

3. Distances from: Open Water Body >100 feet | Drainage Way ____ feet | Wetlands >100 feet | Property Line 57 feet | Drinking Water Well >100 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 - 15	Ap	FSL	10YR 3/2		Cnc : Dpl:		<2	<2	Gran	Fr.	
15 - 40	Bw	FSL		32"	Cnc : Dpl:		<2	<2	Ma.	Fr.	
40 - 89	C1	C. Sand			Cnc : Dpl:		<2	<2	S.G.	Loose	
89 - 96	C2	FSL			Cnc : Dpl:		<2	<2	Ma.	Fr.	Mottled
					Cnc : Dpl:						
					Cnc : Dpl:						

Additional Notes:
BOE @ 96"; No Refusal

Commonwealth of Massachusetts
City/Town of Newbury

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-10D (Hole #) 12/1/22 (Date) ____ (Time) ____ (Weather) ____ (Latitude) ____ (Longitude)

1. Land Use: Agricultural Field (e.g., woodland, agricultural field, vacant lot, etc.) | Bare Soil / Corn (Vegetation) | None (Surface Stones (e.g., cobbles, stones, boulders, etc.) | 0 - 3 (Slope (%))

Description of Location: Lot 4

2. Soil Parent Material: ____ Landform ____ Position on Landscape (SU, SH, BS, FS, TS, Plain)

3. Distances from: Open Water Body >100 feet | Drainage Way ____ feet | Wetlands >100 feet | Property Line 85 feet | Drinking Water Well >100 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 - 16	Ap	FSL	10YR 3/2		Cnc : Dpl:		<2	<2	Gran.	Fr.	
16 - 40	Bw	FSL		32"	Cnc : Dpl:		<2	<2	Ma.	Fr.	
40 - 90	C1	C. Sand			Cnc : Dpl:		<2	<2	S.G.	Loose	
90 - 100	C2	FSL			Cnc : Dpl:		<2	<2	Ma.	Fr.	Mottled
					Cnc : Dpl:						
					Cnc : Dpl:						

Additional Notes:
BOE @ 100"; No Refusal

Commonwealth of Massachusetts
City/Town of Newbury

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

D. Determination of High Groundwater Elevation

1. Method Used (Choose one):	Obs. Hole #TP-9D	Obs. Hole #TP-10D
☒ Depth to soil redoximorphic features	32 inches	32 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: 40 inches Lower boundary: 90 inches

   c. If no, at what depth was impervious material observed? Upper boundary: _____ inches Lower boundary: _____ inches

Commonwealth of Massachusetts
City/Town of Newbury

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-11D (Hole #) 12/1/22 (Date) ____ (Time) ____ (Weather) ____ (Latitude) ____ (Longitude)

1. Land Use: Agricultural Field (e.g., woodland, agricultural field, vacant lot, etc.) | Bare Soil / Corn (Vegetation) | None (Surface Stones (e.g., cobbles, stones, boulders, etc.) | 0 - 3 (Slope (%)

Description of Location: Lot 4

2. Soil Parent Material: ____ Landform: ____ Position on Landscape (SU, SH, BS, FS, TS, Plain): ____

3. Distances from: Open Water Body >100 feet | Drainage Way ____ feet | Wetlands >100 feet | Property Line 58 feet | Drinking Water Well >100 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 - 15	Ap	FSL	10YR 3/2		Cnc : Dpl:		<2	<2	Gran.	Fr.	
15 - 40	Bw	FSL		40"	Cnc : Dpl:		<2	<2	Ma.	Fr.	
40 - 90	C1	C. Sand			Cnc : Dpl:		<2	<2	S.G.	Loose	
90 - 98	C2	FSL			Cnc : Dpl:		<2	<2	Ma.	Fr.	
					Cnc : Dpl:						
					Cnc : Dpl:						

Additional Notes:
BOE @ 98"; No Refsual

Commonwealth of Massachusetts
City/Town of Newbury

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-12D (Hole #) 12/1/22 (Date) ____ (Time) ____ (Weather) ____ (Latitude) ____ (Longitude)

1. Land Use: Agricultural Field (e.g., woodland, agricultural field, vacant lot, etc.) | Bare Soil / Corn (Vegetation) | None (Surface Stones (e.g., cobbles, stones, boulders, etc.) | 0 - 3 (Slope (%))

Description of Location: Lot 4

2. Soil Parent Material: ____ Landform ____ Position on Landscape (SU, SH, BS, FS, TS, Plain)

3. Distances from: Open Water Body >100 feet | Drainage Way ____ feet | Wetlands >100 feet | Property Line 85 feet | Drinking Water Well >100 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 - 17	Ap	FSL	10YR 3/2		Cnc : Dpl:		<2	<2	Gran.	Fr.	
17 - 36	Bw	FSL		40"	Cnc : Dpl:		<2	<2	Ma.	Fr.	
36 - 80	C1	C. Sand			Cnc : Dpl:		<2	<2	S.G.	Loose	
80 - 116	C2	FSL			Cnc : Dpl:		<2	<2	Ma.	Fr.	
					Cnc : Dpl:						
					Cnc : Dpl:						

Additional Notes:
BOE @ 116; No Refusal; No Water

Commonwealth of Massachusetts
City/Town of Newbury

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

D. Determination of High Groundwater Elevation

1. Method Used (Choose one):

	Obs. Hole #TP-11D	Obs. Hole #TP-12D
☐ Depth to soil redoximorphic features	40 inches	40 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: 36 inches Lower boundary: 90 inches

   c. If no, at what depth was impervious material observed? Upper boundary: _____ inches Lower boundary: _____ inches