

A.	Facility Information	CO CO	. 150	
	McLaughlin Family Living Trust		11 E	
	Owner Name 17 Rice Road		Map 63 Parcels 75 & 1	44
	Street Address	***	Map/Lot #	44
	Millbury	MA	01527	
	City	State	Zip Code	
B.	Site Information			1000
1.	(Check one) New Construction Upg	grade		04208
2.	Soil Survey Available?	If yes:		RCS 254B 5/4/202
	Merrimac	COLLEGE TO A SECOND	Sou	urce Soil Map Unit
	Soil Name	severe: poor filter Soil Limitations		
	outwash	uncertain		
	Soil Parent material	Landform		- A - A - A - A - A - A - A - A - A - A
3.	Surficial Geological Report Available? ☐ Yes ☒ No	If yes:	7.	
		Year Published	/Source Map	Unit
	Description of Geologic Map Unit:	Garage Control of the		
4.	Flood Rate Insurance Map Within a regulator	y floodway? 🔲 Yes 🛛 N	0	
5.	Within a velocity zone? ☐ Yes ☒ No			
6.	Within a Mapped Wetland Area? ☐ Yes ☐	No If yes, Mass	GIS Wetland Data Layer	
7.		May 4, 2021	Range: Above No	Wetland Type ormal ☐ Normal ⊠ Below Normal
8.	Other references reviewed:	Month/Day/ Year		
			*	
		*	No.	



C. On-Site Review (minimum of two holes required at every proposed primary and reserve disposal area)											
Deep Observation Hole Number: 20 Hole # Date 10100 18 CLOURS Latitude Lone											Longitude: **S / O Slope (%)
2. Soil Parent Material: OUTWASH UNCERTAIN Landform Position on Landscape (SU, SH, BS, FS, TS)) Es Ts)	
	3. Distances from: Open Water Body Feet Open Water Body Fill Material Position on Landscape (SU, SH, BS, FS, TS) Position on Landscape (SU, SH, BS, FS, TS) Feet Wetlands feet Other feet Other Feet Wetlands Feet Other Feet Wetlands Feet Feet Other Feet Wetlands Feet Feet Feet Wetlands Feet Feet Feet Wetlands Feet Feet Feet Wetlands Feet Feet Feet Feet Feet Feet Wetlands Feet Feet										
5. Groundwater Observed: Yes No If yes: Depth Weeping from Pit Depth Standing Water in Hole Soil Log											
Depth (in)	Soil Horizon /Layer	Soil Texture (USDA	Soil Matrix: Color- Moist (Munsell)	Redo	Oximorphic Fea	atures Percent	Coarse Fragments % by Volume Gravel Cobbles &		Soil Structure	Soil Consistence (Moist)	Other
0-56	FILL						,5.2.0	Stones		(WOISL)	
56-12	J C	SAND	104R 7/4				15				
	12										
Additional Notes: — NO REFUSAL CATION VARISO											



C. On-Site Review (r	ninimum of two	holes req	quired at ev	ery prop	osed p	rimary and	reserve disi	posal area)			
Deep Observation Hole	Number: 21	. Slu Date	1/21 10 Time);30 e	L(g Wea	3 CWD	Latitude				
1. Land Use: (e.g., woodland	nd, agricultural field, va	cant lot, etc.)	DBC (0) Vegetati	ion	WES.	Surface Stor	MB STO	stones, boulders,	Longitude: etc.) Slope (%)		
Land Use: Woodland, agricultural field, vacant lot, etc.) Description of Location: AT TOP OF PLOSE, BETWEN DH 5 3 8 14 Longitude: Some Stones (e.g., cobbles, stones, boulders, etc.) Slope (%)											
2. Soil Parent Material: UNCERTAIN Landform Position on Landscape (SU, SH, BS, FS, TS)											
3. Distances from: Open) (a) (a) (a) (a) (a) (a) (a) (a) (a) (a			Drainage	Way	feet	Wetla	nds \ \ \ \ \ \ \ \ \ \ fe	scape (SU, SH, BS, FS, TS)		
4. Unquitable	roperty Line <u>≈18</u>	3O _{feet}	Drink	king Water				her fe			
Materials Present: Yes No If Yes: Disturbed Soil Fill Material Weathered/Fractured Rock Bedrock 5. Groundwater Observed: Yes No If Yes: Depth Weeping from Pit Depth Standing Water in Hole											
Denth (in) Soil Horizon Soil Te	xture Soil Matrix:	Redoxin	norphic Feature	Soil Lo	Coarse F	ragments		2 ::			
Depth (in) /Layer (USD		Depth	7-0		% by V Gravel	Cobbles &	Soil Structure	Soil Consistence (Moist)	Other		
0-6 A SAL	100 100 7 h					Stones		(MOISE)			
6-24 B SAN	2 100 1000	6									
24"-96" C SAL	AM 10407/3				15	ID					
Additional Notes:	-w	T SUI	FICION 6 70 D	TI HIG	# 08	L WW (CARONA				
t5form11 a roy 3/45/40	- P	ORE	FUSA (- - - - - - 	~						



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

D. Determination of High Groundwater Elevation

1.	Method Used:	Obs. Hole # 20
	Depth observed standing water in observation hole	NOT OBSERVATIONES WT OBSERVATIONES
	Depth weeping from side of observation hole	WT OSSEWinches WT OSSEWinches
	Depth to soil redoximorphic features (mottles)	MT 0855005 inches NOT 0855006 inches
	☐ Depth to adjusted seasonal high groundwater (Sh) (USGS methodology)	inches inches
	Index Well Number Reading I	Date
	$S_h = S_c - [S_r \times (OW_c - OW_{max})/OW_r]$	
	Obs. Hole/Well# Sc Sr _	OWc OW _{max} OWr S _h
2. I	Estimated Depth to High Groundwater: inches	
Ε.	Depth of Pervious Material	
1.	Depth of Naturally Occurring Pervious Material	
	a. Does at least four feet of naturally occurring pervious n system? Yes No	naterial exist in all areas observed throughout the area proposed for the soil absorption
	b. If yes, at what depth was it observed (exclude A and O Horizons)?	inches
	c. If no, at what depth was impervious material observed?	Upper boundary: Lower boundary: inches



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F. Certification

I certify that I am currently approved by the Department of Environmental Protection pursuant to 310 CMR 15.017 to conduct soil evaluations and that the above analysis has been performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017. I further certify that the results of my soil evaluation, as indicated in the attached Soil Evaluation Form, are accurate and in accordance with 310 CMR 15.100 through

Signature of Soil Evaluator

Typed or Printed Name of Soil Evaluator / License

L L

Name of Approving Authority Witness

S 14 12

xpiration Date of License

Approving Authority

Note: In accordance with 310 CMR 15.018(2) this form must be submitted to the approving authority within 60 days of the date of field testing, and to the designer and the property owner with <u>Percolation Test Form 12</u>.

Field Diagrams: Use this area for field diagrams:

1000

Pour



A.	Facility Information	*		•		
	McLaughlin Family Living Trust		-0			
	Owner Name	4				
	17 Rice Road	***	Map 63 Parcels	75 2 111		
	Street Address		Map/Lot #	73 & 144		
	Millbury	ИA	01527			
	City	State	Zip Code			
					MANUFES A SALE OF	
В.	Site Information					
1.	(Check one) ⊠ New Construction □ Upgr	ade 🗌 Repai				DH'S ZZ&
2.	Soil Survey Available?	If yes:		NRCS	254	
	Merrimac	severe: poor filter		Source	Soil	Map Unit
	Soil Name	Soil Limitations				
	outwash					
	Soil Parent material	uncertain	200			
3.		Landform				To Late they
٥.	Surficial Geological Report Available? Yes No	If yes:	and the state of t			
		Υe	ear Published/Source	Map Unit		No.
	Description of Geologic Map Unit:					
				444	- 10 Sec. 10	and the second
4.	Flood Rate Insurance Map Within a regulatory	floodway?	⊠ No			
5.	Within a velocity zone? ☐ Yes ☒ No					
6.	Within a Mapped Wetland Area? Yes Yes	Jo If	yes, MassGIS Wetland Data	Layer:		
	0				Wetland Type	
١.		May 4, 2021	Range: Abo	ove Normal	☐ Normal	⊠ Below Normal
8.	Other references reviewed:	Ionth/Day/ Year				
		5.7	- 11			
			- 14	3.11.25L	The state of the s	. * * .



C. On-Site Rev	iew (minim	num of two hole	es requ	ired at eve	ery propo	sed prin	nary and r	eserve dist	osal area		
Deep Observation	n Hole Numb	er: Hole#	5/4 Date	/21	10°,4	5	48°	elousy	Letitude		
1. Land Use (e.g., v	voodland, agricultu	ural field, vacant lot, e	tc.)	VARIOUS Vegetation	BRUS	5 H	Surface Stone	es (e.g., cobbles,	stones, boulde	rs, etc.) Longitude: Slope (%)	
Deep Observation Hole Number: Hole # Date Time Weather Latitude Longitude: Surface Stones (e.g., cobbles, stones, boulders, etc.) Description of Location: Description of Location: Soil Parent Material: Description Hole Number: Hole # Date Time Weather Latitude VARIANT TOPE OF SLOPE NOAP RAIL ROAD PROFESSION Slope (%)											
2. Soil Parent Material: Landform Document Material: Landform Document Material: Document Material:											
4. Unsuitable Materia	Property Line feet Drinking Water Well feet Other feet 4. Unsuitable Materials Present: Yes No If Yes: Disturbed Soil Fill Material Weathered/Fractured Rock Bedrock										
5. Groundwater Obs			e sociality L				ping from Pit			☐ Bedrock	
			Dod		Soil Log		Fragments			The state of the s	
Depth (in) Soil Horizon /Layer	Soil Texture (USDA	Soil Matrix: Color- Moist (Munsell)	Redoximorphic Features Depth Color Percent		% by	Volume Cobbles &	Soil Structure	Soil Consistence (Moist)	Other		
0-7" A	SAVOY	10403/2					Stones		(molos)		
7-26 B	SANO	10-(n8/6									
26-112 C	SAUD	10107/4			HONE	10	2				
Additional Notes:			7 0								
t5form11 a roy 2/15/19	_	no ref	USH								



C. On-S	Site Rev	iew (minin	num of two	holes r	equired a	at every p	roposed i	orimary and	l reserve dis	nosal area)	
Deep	Observatio	n Hole Num	ber: 23	7 5	14/21	Time	4	80000		poddi dicaj	
Land U Descri	(e.g.		icultural field, va			ECIDUO getation	S TRE	ather Surface Sto	Latitude SOM 5 nes (e.g., cobbles, PALCO	stones, boulders	Longitude: Slope (%)
			DIWAS	2		,		XBUAL			ECTAIT
 Distand Unsuitate Materials 	ces from: ble s Present: [Open Wate	r Body ty Line 23 No If Yes:	feet feet		Drain Drinking W □ Fill Mate	age Way _ ater Well _ erial [feet feet Weathered	Wetla Ot Fractured Rock	Position on Land ands fe ther fe	Iscape (SU, SH, BS, FS, TS) eet eet
							il Log	_ Depth Weepin	g from Pit	Depth :	Standing Water in Hole
Depth (in)	Soil Horizon /Layer	Soil Texture (USDA)	Soil Matrix: Color-Moist	Redo	ximorphic Fe	0			0-1104	Soil	
~ ~ W	/Layer	<pre>COUD!</pre>	(Munsell)	Depth	Color	Percent	Gravel	Cobbles & Stones	Soil Structure	Consistence (Moist)	Other
0-1	A	LOAM	ro-res,	2							
7'-25	,5	COAM	DIESE	>							
25-138		SOUD	10/107/	1			5	2			
Additio	nal Notes:	- 1	20 RE	Fizire							
		- <	SOME W	1000	GLANE	owl !	STRATE	F			



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 Method Used: Depth observed standing water in observation hole Depth weeping from side of observation hole Depth to soil redoximorphic features (mottles) Depth to adjusted seasonal high groundwater (Sh) (USGS methodology) 	Obs. Hole # NOT OBSERVE inches > 112 inches inches	Obs. Hole # 73 NOT Observe inches 7138 inchesinches	
		OW _{max} OW _r	_ Sh
 Depth of Pervious Material Depth of Naturally Occurring Pervious Material a. Does at least four feet of naturally occurring pervious m system? Yes No b. If yes, at what depth was it observed (exclude A and O Horizons)? c. If no, at what depth was impervious material observed? 	Upper boundary:	ved throughout the area proposed fo 7	r the soil absorption



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Signature of Soil Evaluator

yped or Printed Name of Soil Evaluator / License #

Typed of Printed Name of Soil Evaluator / License #

SESYZ

21 _

xpiration Date of Licens

Name of Approving Authority Witness

Approving Authority

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