

Bureau of Environmental Health

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SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: \_\_\_\_\_

Subdivision: Jacks Landing Lot: 1

<del>AO</del> Initial system:	Application rate: <u>1.2</u>	Effective area beginning depth: <u>5</u>	Bottom maximum depth: <u>8</u>
1 <sup>st</sup> Replacement:	Application rate: <u>0.8</u>	Effective area beginning depth: <u>5</u>	Bottom maximum depth: <u>8</u>
2 <sup>nd</sup> Replacement:	Application rate: <u>0.8</u>	Effective area beginning depth: <u>5 1/2</u>	Bottom maximum depth: <u>8</u>

Design Flow = 150 gallons per day per bedroom

Design flow ÷ application rate = square footage of drainfield required

Linear length of trench required = drainfield square footage x sidewall reduction percentage ÷ trench width

Sidewall reduction credit formula:

$$\frac{W + 2}{W + 1 + 2D} \times 100 = \text{Percent of length of standard trench where } W = \text{trench width and } D = \text{depth between effective area beginning depth and trench bottom.}$$

Standard design requirements:

- Trenches must be located to provide room for 3 systems in the disposal area
- All trenches must be equal length unless low pressure dosed
- All trenches must be on contour
- Minimum trench spacing: 10' for all trenches utilizing sidewall reduction credit. Additional spacing may be necessary for any trench using over 3.5' of effective sidewall. In those cases, the spacing formula is 2D + W up to a maximum spacing of 18'.
- Minimum trench spacing for trenches with no sidewall credit (bottom area only) is 6' for a 2' wide trench and 9' for a 3' wide trench (spacing is measured edge to edge)
- Maximum trench length is 100'
- Maximum pipe depth is 4'

Additional requirements:

★ - BAT unit required

Approved: [Signature] Date: 2/3/18

$$I \quad \frac{w+2}{w+1+2(\Delta)} \quad \frac{4}{9} = .44$$

$$1^{st} \quad \frac{2+2}{2+1+2(3)} \quad \frac{4}{9} = .44$$

2<sup>nd</sup>

↳

$$\frac{2+2}{2+1+2(2.5)} \quad \frac{4}{8} = .50$$

517922

COUNTY #

SOIL PROFILE (25)

Tan Lm 1'

Brn, tan micaceous Lm S 2'

Qtz frags 10-15% 4'

Lm S

Lateral Mn concretions on fr. saprolite faces - cherty % < 10%

Bottom 14'

(26) / (30)

Wk rd ybrn Fine micaceous Sand

Trace Rx

Bottom 14'

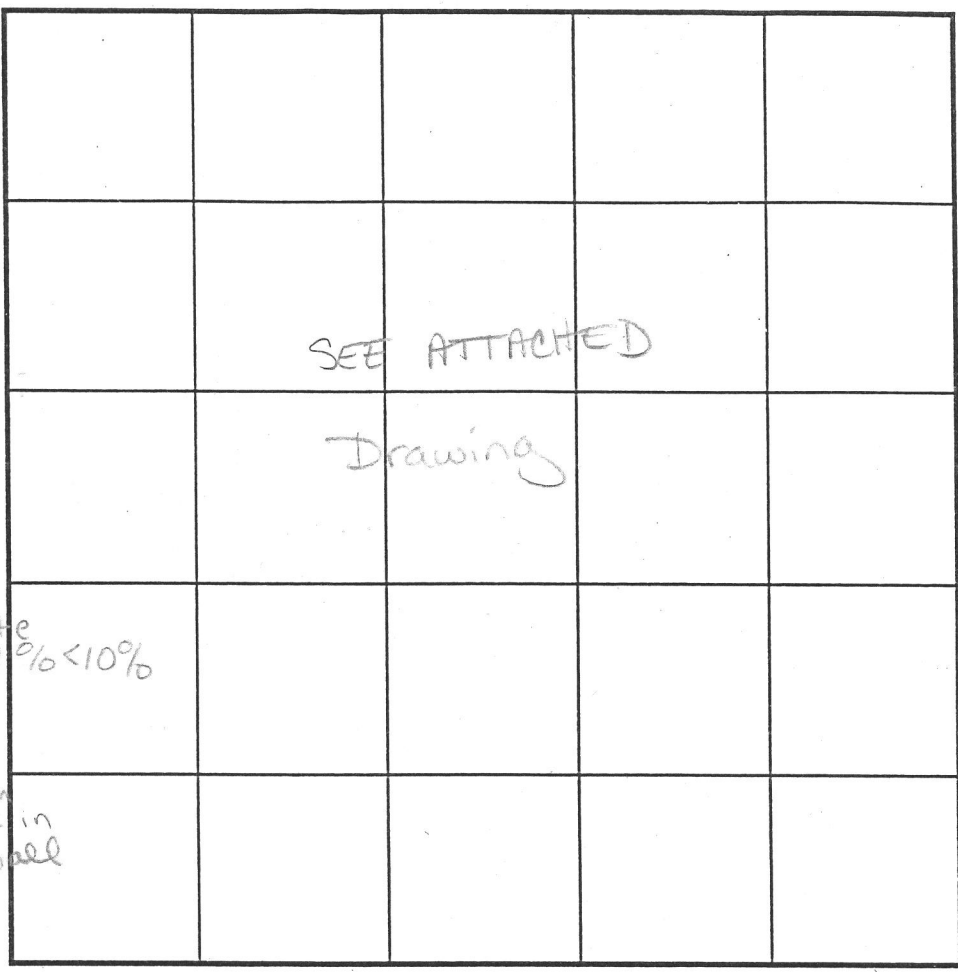
(24)

org brn lm

Strong brn micaceous med grained sand

saprolite ~10% with lateral Mn concretions

Bottom 14'



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

SOIL PROFILE (31)

0' Dense Rd S.Lm

4± brn, lbbrn fine sand with some white decom. Rock

Rx Frags 7 1/2' Rock pocket Small

Platy Soil Struct begins

mini boulders + cobbles ~30% Overall

13' (20) / (21)

red-brn silt lm

3' yellow-red fine sandy lm NO ROCK

13'

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		MIN TIME		
			START	STOP	START	STOP			
1-14-03	(25)	6' M / 14' V	10:58	11:01	11:01	11:05	4	OK	
	(24)	5' M / 14' V	11:06 <sup>50</sup>	11:07 <sup>26</sup>	11:07 <sup>26</sup>	11:08 <sup>10</sup>	1 min	Marginal	
	(27)	Compost to 12' deep below natural grade							(F)
1/16/03	(26)	14' V	(VISUAL OK SEE SOIL PRF)				NA	OK	
	(31)	4 1/2' S / 13' V	11:20 <sup>16</sup>	11:21 <sup>46</sup>		11:23 <sup>32</sup>	> 1 1/2	OK	
	(30)	SEE Soil Profile							OK
1/16/03	(21)	5' 4" T / 13' V	2:00 pm	2:04 pm	2:04 pm	2:10 pm	6 min	OK	
	(20)	4' 9" T / 14' 2" V	2:14 pm	2:16 pm	2:16 pm	2:22 pm	6 min	OK	

REMARKS \_\_\_\_\_

TYPE OF SOIL Manor / Glenclg

TESTED BY KN, SRK ALSO PRESENT Mr. Coleson & Justin Brendie

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME \_\_\_\_\_ TRENCH WIDTH \_\_\_\_\_

INLET DEPTH \_\_\_\_\_ MAXIMUM BOTTOM DEPTH \_\_\_\_\_ SQ. FT./BEDROOM \_\_\_\_\_

517922

COUNTY #

← North

Soil Profile



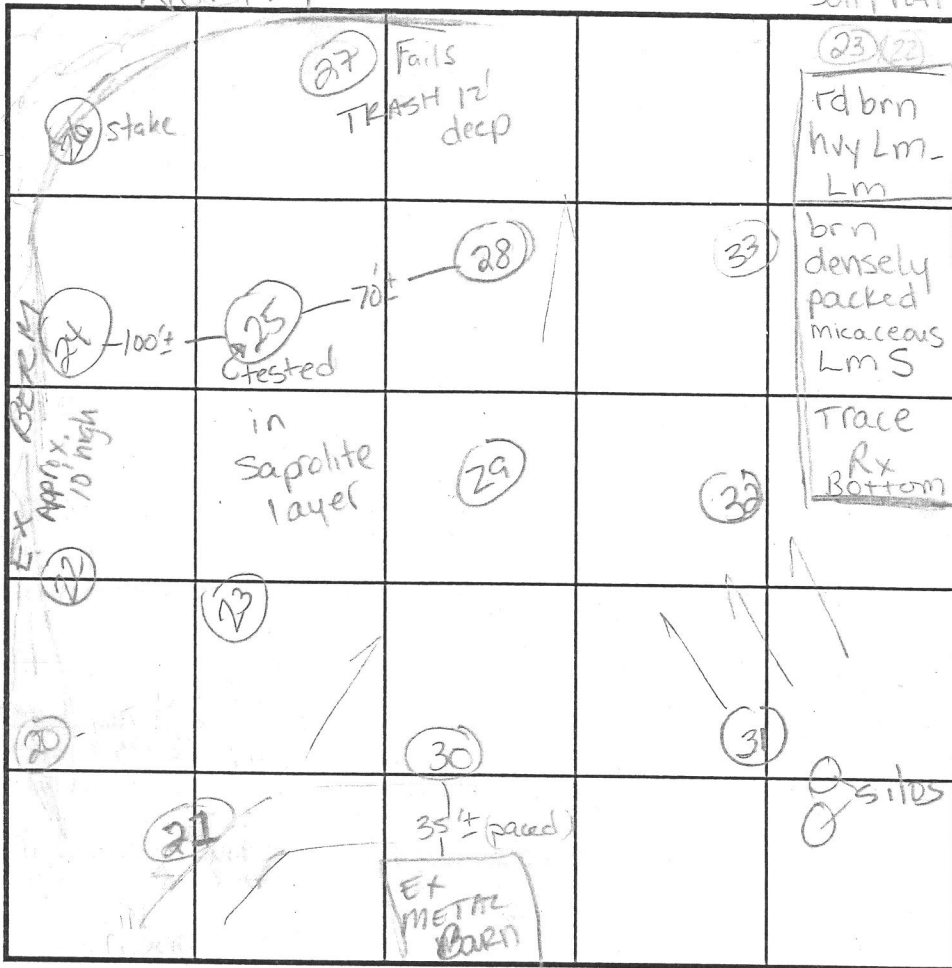
SOIL PROFILE

(29)  
 Strong brn hvy Lm  
 Cobblest 15%  
 tightly packed, v. micaceous  
 lmy Sand (fine)  
 Cherty frags. 5-10%  
 Bottom

(28)  
 tightly packed loam  
 w/ massive structure  
 Qtz + Gneiss frags 25-35%  
 Bottom

(32)  
 org brn tightly packed loam  
 micaceous  
 H brn org Skm  
 white coarse Lm S pocket  
 Bottom

(33)  
 Strong brn, org brn densely packed  
 Si Lm Cobblest 10%  
 fine Lm S  
 Trace Rx  
 Bottom



INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		MIN TIME	
			START	STOP	START	STOP		
1-14-03	(29)	5 1/2' S / 15' V	9:29:30	9:34:50		9:42 <sup>50</sup>	8 min	OK
	(28)	5 1/2' S / 13' V	9:38 <sup>44</sup>	9:41 <sup>21</sup>		9:49	8 min	OK
	post-hole digger size	DUG INTO Rx layer 7' perc	10:16 <sup>03</sup>	10:20 <sup>34</sup>		10:22 <sup>57</sup>	n 2 1/2	OK
	(32)	4 1/2' S / 14' V	9:47	9:55		10:11	10 min	OK
	(33)	4 1/2' S / 15' V	10:01 <sup>28</sup>	10:06 <sup>+</sup>		10:12	6 min	OK
	(23)	4' S / 14' V	10:28 <sup>35</sup>	10:31 <sup>20</sup>		10:34	n 3 1/2	OK
	(22)	Visual	See Soil Profile					OK
		Overall	micaceous, Rx frags < 10% with v. fr. saprolite					
		* Natural Grade well preserved.						

REMARKS: Some Holes not dug as staked due to road or berm  
 TYPE OF SOIL: ISSUES, SEE PAGE 2 of Shared Syst. Notes for additional  
 TESTED BY: KN percolation data. ALSO PRESENT Mr. Coleman + Justin  
 TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME \_\_\_\_\_ TRENCH WIDTH Brendle  
 INLET DEPTH \_\_\_\_\_ MAXIMUM BOTTOM DEPTH \_\_\_\_\_ SQ. FT./BEDROOM \_\_\_\_\_

MANOR

517722

COUNTY #

SOIL PROFILE

0'

4'

6'

15'

14'

(43)

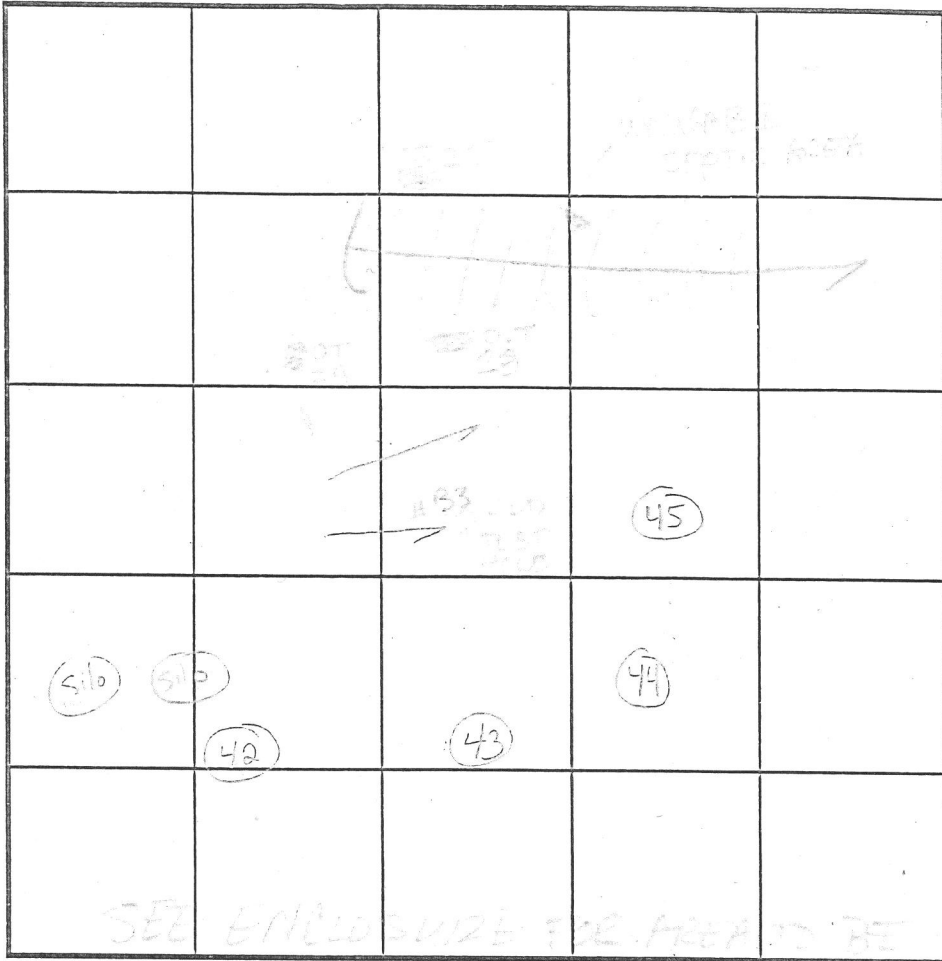
10'

15'

15'

12 1/2'

15'



SOIL PROFILE

0'

INDICATE NORTH - NAME ADJOINING ROADWAY AS BASE LINE.

DATE	TEST NO.	DEPTH	PRE-WET		TEST - 1" DROP		TIME
			START	STOP	START	STOP	
5-6-03	(42)	4' 1 1/4"	11:42 <sup>15</sup>	11:44 <sup>15</sup>	11:44 <sup>15</sup>	11:48 <sup>00</sup>	4 1/2"
	(43)	3' 3/4" (3' 3/4" to 3' 3/4")	11:53 <sup>15</sup>	11:55 <sup>15</sup>	11:55 <sup>00</sup>	11:57 <sup>00</sup>	2 1/2"
	(44)	4 1/2" (4 1/2" to 4 1/2")	12:05 <sup>15</sup>	12:07 <sup>15</sup>	12:07 <sup>15</sup>	12:11 <sup>00</sup>	4 1/2"
	(45)	4 1/2" (4 1/2" to 4 1/2")	12:20 <sup>15</sup>	12:25 <sup>15</sup>	12:20 <sup>15</sup>	12:22 <sup>00</sup>	4 1/2"

REMARKS Holes sealed and dug for...

TYPE OF SOIL \_\_\_\_\_

TESTED BY \_\_\_\_\_ ALSO PRESENT \_\_\_\_\_

TRENCH DESIGN DATA: AVERAGE PERCOLATION TIME \_\_\_\_\_ TRENCH WIDTH \_\_\_\_\_

INLET DEPTH \_\_\_\_\_ MAXIMUM BOTTOM DEPTH \_\_\_\_\_ SQ. FT/BEDROOM \_\_\_\_\_

