

104  
 dk brn sl  
 2 v f s bk  
 0.6' brn sl, 2 f s bk  
 2' brn l, 2 f s bk  
 3.5' yel-red sl, Ø m  
 9.5' yel-red & yel-brn sl, Ø m  
 12' brn chls

105  
 dk brn sl  
 0.9' Ø m to 1- f s bk  
 22' yel-brn sl, 2 f s bk, few stones  
 yel-red & dk brn ls  
 many mice  
 75' brn chls Ø m  
 many mice  
 12' pale brn ls Ø m  
 water, many mice

106  
 dk brn sl  
 0.5' 1 f s bk to 2 v f s bk  
 1.5' yel-red l  
 2 f s bk  
 3.2' yel-red chl  
 1 m s bk  
 red & brn l

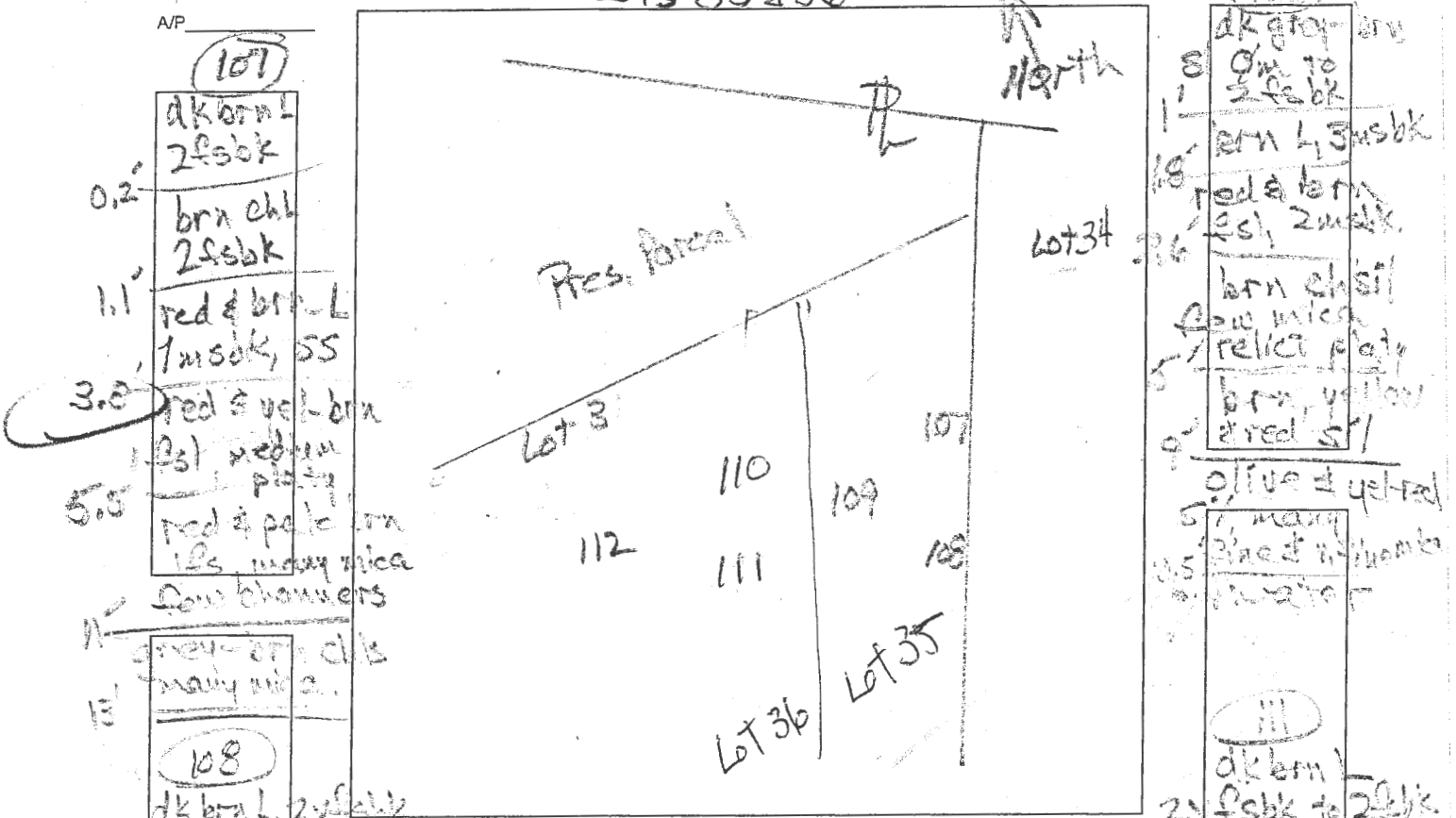
4.2' Ø m  
 red, yellow  
 pale brn & blk  
 many mice  
 1' few channels  
 8' brn chls Ø m  
 14' many mice

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
11/5/14	104	5' 12"	1:24	1:26	1:30	4	P
11/5/14	105	3' 7" 12"	1:47	1:49	1:52	3	P
11/5/14	106	6' 14"	2:05	2:06	2:09	3	P

REMARKS  
 SANITARIAN K. Erickson BACKHOE H. Feld's (owner) OTHERS R. Rowe  
 TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE S/W \_\_\_\_\_

Lots 35 & 36

AP



107  
0.2' dk brn L 2fsbk  
brn chl 2fsbk  
1.1' red & brn L 1msbk, SS  
3.8' red & vel brn (B) medium platy  
5.5' red & pale brn 1/2s many mica  
Low channels  
1' grey-brn chls many mica  
13' dk brn L 2fsbk to 2.8sbk  
0.8' brn L 2fsbk  
1.9' brn sl, 1msbk common mica  
2.5' red & brn 1/2s, many mica  
8' brn chls + 10% fibs  
13.5' common mica

108  
0.8' dk brn L 2fsbk to 2.8sbk  
1.9' brn L 2fsbk  
2.5' brn sl, 1msbk common mica  
8' red & brn 1/2s, many mica  
brn chls + 10% fibs  
13.5' common mica  
109  
3.8' dk brn sl, 2fsbk to 1fsbk  
3.8' brn sl, 1msbk common mica to many mica  
3' red & yellow sil, few channels  
6.6' grey-brn gravel's  
13.5' water

110  
1.8' dk gray brn  
1.8' dk gray brn  
1.8' brn L, 3msbk  
1.8' red & brn 1/2s, 2msbk  
2.6' brn chsl  
5' low mica  
5' relic platy  
9' brn, yellow & red sl  
5' olive & yellow  
5' many  
13.5' Brn & white mica  
13.5' water  
111  
2.5' dk brn L 2fsbk to 2.8sbk  
0.6' brn sl common mica  
3' csbk  
2.5' dk brn, red  
4.8' yellow chsil  
4.8' Hired, red  
4.8' pale brn  
4.8' chsil many  
4.8' to  
4.8' of white mica  
10-12% mica  
10-12% mica  
10-12% mica  
channels

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
11/5/14	107	5' / 13'	2:21	2:35	2:55	20	P
11/5/14	107	13'	Visual			5.5	P
11/5/14	108	3.8' / 13.5'	2:52	2:55	2:59	4	P
11/5/14	109	7.5' / 12.5'	3:10	3:13	3:17	4	P
11/5/14	110	6.5' / 10.5'	3:26	3:29	3:32	3	H
11/5/14	111	4.4' / 14'	3:45	3:48	3:55	7	P

REMARKS: Hold # 110, see lower 8'-10.5'

SANITARIAN: [Signature] BACKHOE: [Signature] OTHERS: [Signature]

TEST HOLES USED IN SDA: \_\_\_\_\_ AVG. PERC TIME: \_\_\_\_\_ SQ. FT/BR: \_\_\_\_\_

TRENCH WIDTH: \_\_\_\_\_ INLET DEPTH: \_\_\_\_\_ MAX. BOT DEPTH: \_\_\_\_\_ EFFECTIVE S/W: \_\_\_\_\_

Lot 30

# Simpson Property

AP

192

dk brn  
2 fsl  
brn chl  
2 fsl  
0.8 yel-red  
2 fsl, s  
few channels  
& angular cobbles  
2.5 yel-red col  
2 fsl, s  
few mica  
3.5 yel-red, brn  
& pale brn s  
many fine mica

4

red-ye & brn

1s, thin platy  
many coarse mica

8' sidewalk yel-red  
covered in & grey-brn  
chkl. many mica  
9.5' - water level

190

0.2' dk brn fsl  
2 fsl  
brn & pale brn  
fsl, thin platy

brn fsl  
to pale brn fsl

thick platy

1.5' pale brn  
& red-ye

2' fsl, thick platy

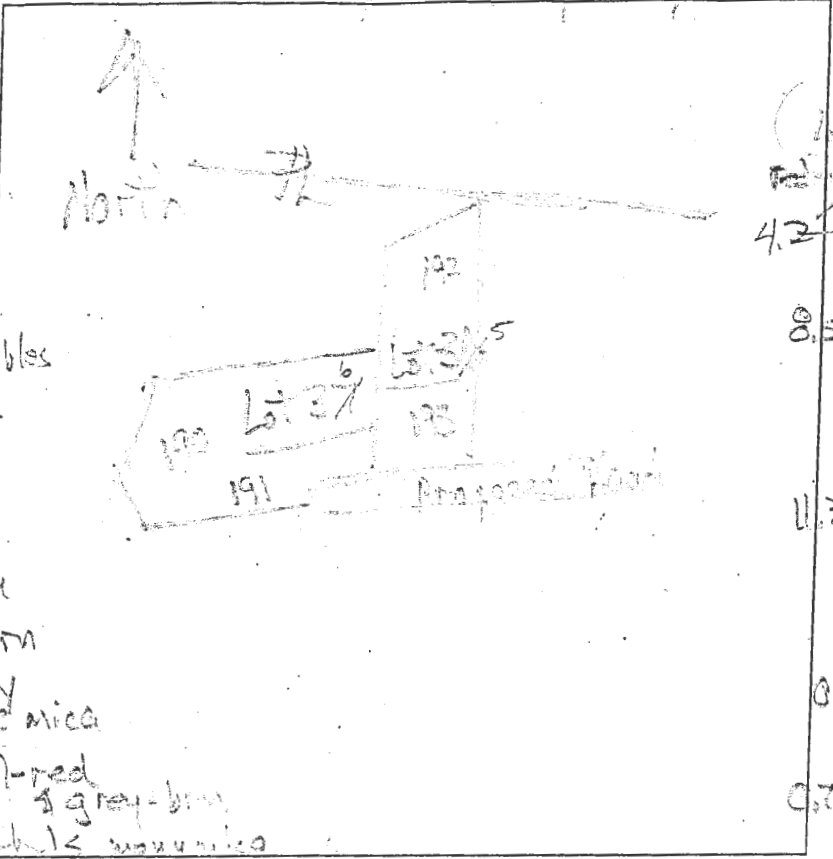
pale brn &  
pale yellow

1s, thick platy  
many fine mica

plates dip near vertical

9.7' water

many fine  
mica  
through  
profile



192

dk brn fsl  
2 fsl  
brn fsl  
1 fsl

4.2' red-ye & pale yellow  
thick platy

0.5' 1s, thick platy

pale yellow  
1s, thick platy

common  
black-coated  
fine channels

11.3' water

191

0.2' dk brn fsl  
2 fsl

brn & yel-red  
fsl, 2 fsl

0.7' brn & yel-red  
fsl, thick platy

to 2-inch  
layer red-ye fsl

at boundary

3.8' pale brn &  
pale yellow fsl

thick platy

13.3'

many fine  
mica  
through  
profile

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
7/8/15	192	4/8'	12:05	12:07	12:10	3	P
7/8/15	193	3.5/11'	12:26	12:35	12:44	9	P
7/8/15	190	4/9.0'	12:53	12:55	12:59	4	P
7/8/15	191	4.7/13.3'	1:10	1:13	1:16	3	P

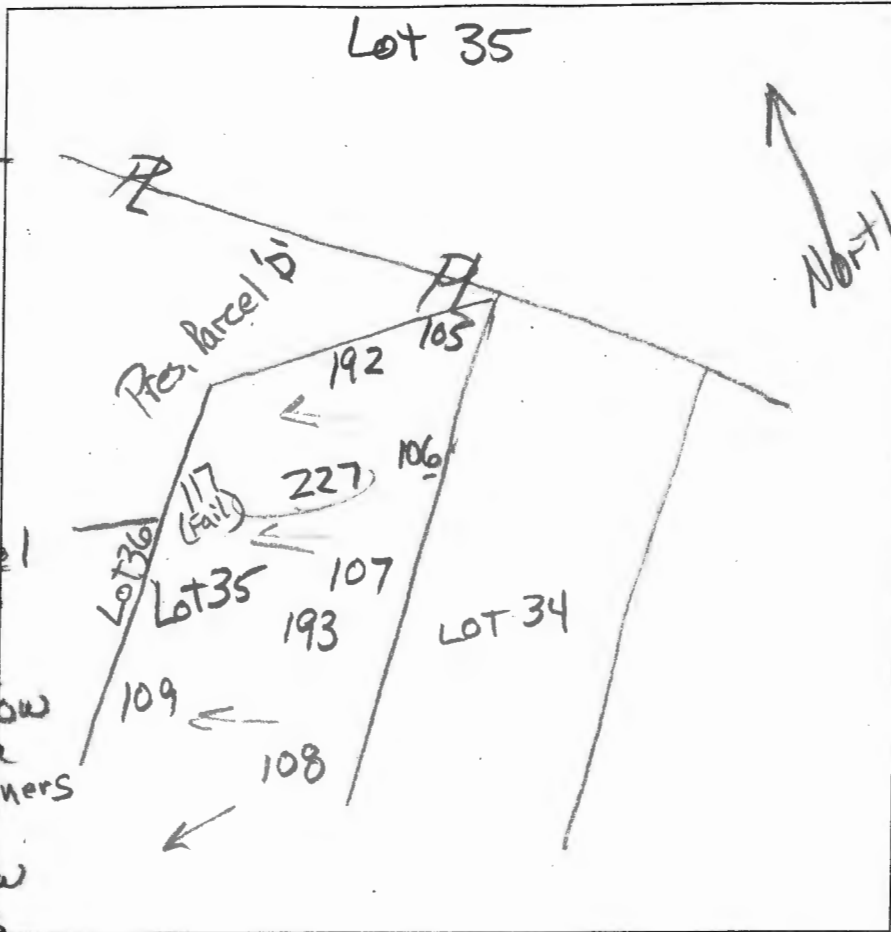
REMARKS

SANITARIAN R Bricker BACKHOE Hotfield's OTHERS Art Leonard

TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_

TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

# Lot 35



227  
 0.5' dk brn L  
 12lg → 2v sbk  
 1.2' brn L  
 2v sbk, ss  
 few mica  
 3.5' (circled) yel-red  
 chl, 2v sbk  
 few mica  
 clay silts  
 4' brn & red-yel  
 ls, thin platy  
 many mica  
 12' red-yel & yellow  
 ls, few mica  
 few channers  
 thin platy  
 dk brn, yellow  
 & H grey ls  
 thin platy  
 moist

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
11/23/15	227	4.7/12'	12:05	12:07	12:10	3	P

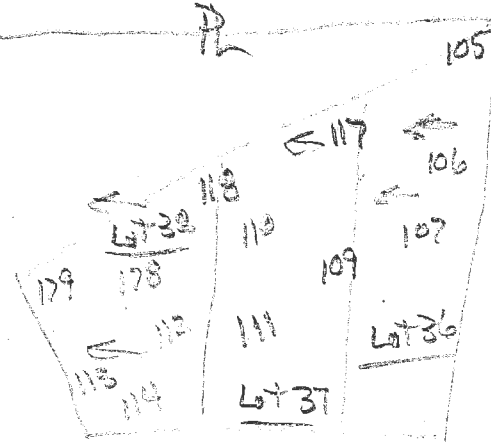
REMARKS \_\_\_\_\_  
 SANITARIAN R Bricker BACKHOE Hatfield's OTHERS Jason Alexander  
Donnie Jason Van Kirk  
 TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

AP

proposed 47 37

118

117  
 0.9' dk grey-brn  
 L, 2fsbk  
 1.5' brn L,  
 2fsbk, SS } 10%  
 few mica } channels  
 2.7' vel-red  
 & brn L, SS } few  
 thin platy } mica  
 6' vel-red  
 & brn fs }  
 thin platy }  
 common mica  
 water



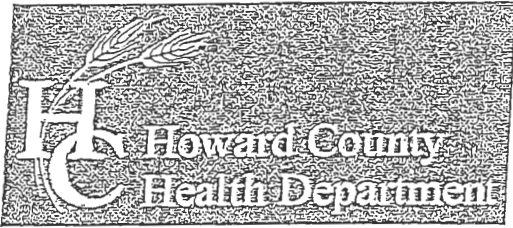
0.9' dk brn fs  
 2fsbk  
 2.4' brn loam  
 2msbk, few  
 mica  
 3.7' vel-red  
 & brn fs  
 thick platy  
 many mica  
 5.2' vel & dk brn  
 fs, thin platy  
 common mica  
 dk grey-brn  
 fs, thick  
 platy  
 CSP (red-yel)  
 saturated  
 water keeps

110  
 0.8' dk brn sl  
 2fsbk  
 1.5' brn L, 2msbk  
 few mica  
 few channels  
 SS, dense  
 2.5' vel-red & brn  
 fs, 1msbk  
 common mica  
 3.5' vel-red  
 & vel-brn  
 sl, thick platy  
 many mica  
 5.3' vel-red & brn  
 many mica  
 common mica  
 thin platy

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
3/19/15	117	6'	Visual	1'-2'	slightly sticky loam	slightly sticky platy	F
3/19	110	6'	Visual	1'-2'	s.s. sticky dense	slightly sticky platy	F
3/19	118	5.2'	Visual	100'	chromo water below	no matter below 5.2'	F

REMARKS \_\_\_\_\_  
 SANITARIAN \_\_\_\_\_ BACKHOE \_\_\_\_\_ OTHERS \_\_\_\_\_  
 TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

\* dk grey-brn, pale yellow & red-yellow chls, thick platy  
 \* water



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Maura J. Rossman, M.D., Health Officer

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

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

Subdivision: Simpson & Denault Properties Lot: 33

Initial system: Application rate: 1.2 Effective area beginning depth: 4 Bottom maximum depth: 7

<sup>105, 106 ↗</sup>  
<sup>192, 107 ↗</sup> 1<sup>st</sup> Replacement: Application rate: 1.2 Effective area beginning depth: 3.5 Bottom maximum depth: 4

<sup>227, 117 ↗</sup> 2<sup>nd</sup> Replacement: Application rate: 1.2 Effective area beginning depth: 3.5 Bottom maximum depth: 4

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:

- 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:

Pump / Pump Tank required  
see SWM facilities' locations

Approved: R. Bricker

Date: 2/12/2018