

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

September 5, 2019

TO: James Frazier, Applicant

RE: 2730 Jennings Chapel Road, percolation test results and data

Dear Mr Frazier,

Percolation tests were conducted, as scheduled, at 2730 Jennings Chapel Road on August 20 & 21, 2019. These tests were conducted to establish 10,000 sq-ft sewage disposal area (SDA) for three proposed lots and the existing residence within (T.M. 13) Parcel 109 Parcel 1, and for Parcel 109, Parcel 2. The creation of SDA is required in support of a proposed 5-lot subdivision.

Twenty-five percolation test locations were planned and staked. As several locations failed on proposed Lots 1 and 2, four percolation test locations were added off-plan. In all, 29 percolation test locations were judged and or tested. Staked locations 2, 4, 5, and 6 'FAIL', and added location 27 is a 'FAIL'. These locations that fail are all due to shallow rock. Staked locations 1, and 7 thru 25 'PASS', and added locations 26, 28, and 29 'PASS'.

Locations of percolation tests that 'PASS' are used to define the soils that are suitable for inclusion in an SDA proposed on the Percolation Certification Plan. The results and suitable areas for wastewater discharge may be certified by the Approving Authority's signature of the Percolation Certification Plan. After the Percolation Certification Plan is signed by the Approving Authority, the Health Department staff may consider review of a septic system installation plan and/or various permit proposals for the subject property.

The number of lots having adequate area which may be certified for wastewater disposal is unknown at this time. It is possible that additional testing may be required to identify area for all five lots.

If you have questions related to this report, you may reply to me via email, [rbricker@howardcountymd.gov](mailto:rbricker@howardcountymd.gov) , or call my desk, 410-313-2691.

Respectfully,



Robert Bricker, CPSS, REHS/RS, L.E.H.S.  
Environmental Sanitarian II  
Well and Septic Program

Enclosures: Percolation Test Field Worksheets

Copy: Mark Potter, Benchmark Engineering, Inc.  
Jeffrey Williams, Supervisor, Well & Septic Program  
file

AP 565588

Savage Property  
Proposed Lot 3

P-13

P-15

0.3' dk grey brn sil, 2vrsbk  
 0.6' brn & grey chsil, 2vrsbk  
 1.7' brn chsil 2rsbk  
 red-yel sil thick platy many v.f. mica  
 4.3' red-yel vchsil 35-40% channers  
 6' red-yel sil thin platy many v.f. mica 5-15% channers



(P-27)  
Swale

0.3' dk brn sil 2vrsbk  
 1.2' brn vchsil 30-40% rock 1vrsbk  
 2' yellow sil thin platy, v.f. mica  
 4' h. red sil thin platy many v.f. mica  
 6' red-yel chsil platy 30-40% rock  
 8' dk red chsil 15-25% rock  
 14.5'

P-12

0.4' dk grey sil, 2vrsbk  
 0.9' brn sil, 2rsbk  
 2.5' brn vchsil 35-45% channers  
 5' red-yel chsil, thin platy many v.f. mica 5-15% channers  
 10.5' red-yel vchsil, 50-60% rock

0.3' dk brn sil 2vrsbk  
 0.3' brn chsil 1vrsbk 15-25% rock  
 0.8' brn vchsil 1vrsbk 30-40% rock  
 4.7' red sil thin platy many v.f. mica  
 3.7' yellow sil thin platy 5-15% rock (channers in seams ~3-4 inches thick)  
 10.5' yellow sil 25-35% rock  
 13'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
8/20/19	P-15	5.1' / 13'	9:29	9:33	9:38	5	P
8/20/19	P-14	6.3' / 10.5'	9:42	9:45	9:49	4	P
8/20	P-13	5.5' / 10.5'	9:53	9:55	9:57	2	P
8/20	P-12	5.5' / 13'	0	2:1	4:5	2.4	P

REMARKS \_\_\_\_\_

SANITARIAN R Bricker BACKHOE H. R. V. (Donnie) OTHERS \_\_\_\_\_

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

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

AP

Proposed Lots 1 & 2

P-9  
 0.5' dk brn chsil  
 1 v f sbk 15-20%  
 channels  
 to brn chsil  
 to red-brn chsil  
 1.5' 2 f sbk  
 3' brn & red  
 vch sil 35-45%  
 rock  
 yellow &  
 pale yellow  
 sil, thick platy  
 to ~3' inch  
 vch sil - 40-50% rock

5' brn & red sil  
 thin platy  
 10-15% rock  
 8.5' brn & red v f sil  
 platy 50-60% rock

11.5' red & yellow  
 sil, 5-15%  
 platy rock

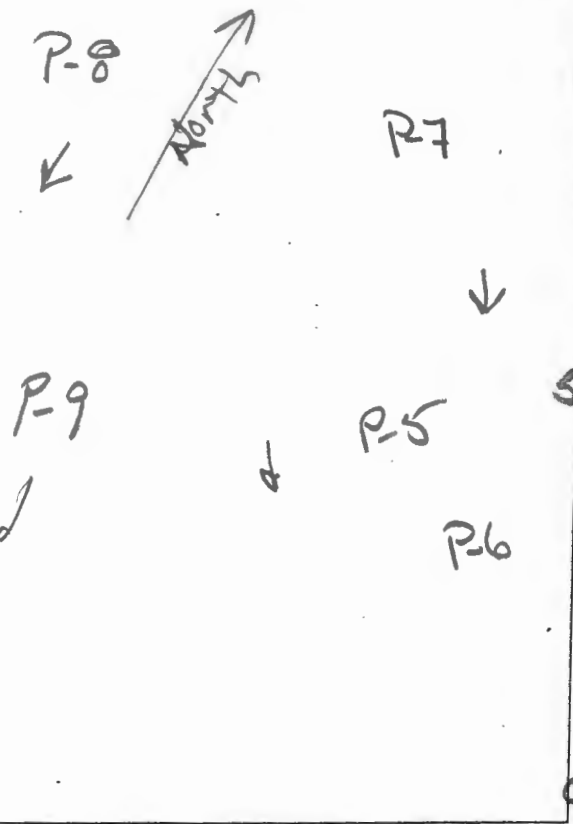
P-7  
 0.4' dk brn sil  
 2 v f sbk  
 0.7' brn sil  
 1 v f sbk  
 red-brn  
 chsil, 3 f sbk

2.2' red vch sil  
 40-50% rock

4' red & yellow  
 chsil, thin  
 platy  
 6' red & yellow  
 v f sil  
 35-45% rock

9' R

P-8  
 P-9  
 P-27  
 Swale  
 North



P-5  
 0.5' dk brn sil  
 1 v f sbk  
 0.8' brn chsil  
 3 v f sbk  
 1.2' red-brn chsil  
 2 f sbk  
 2.3' red-brn v f sil  
 50-60% rock  
 5.3' red-brn v f sil  
 60-70% rock  
 7' red-brn v f sil  
 70%-80% rock

P-6  
 9.3' red-brn v by sil  
 50-60% rock

P-6  
 0.5' dk brn sil  
 2 v f sbk  
 red-brn chsil  
 1 f sbk

1.7' red-brn chsil  
 platy

2.5' red & yellow chsil  
 platy

3.5' red & brn  
 v by sil  
 R

P-4  
 4.6' brn sil  
 to red-brn sil

1.7' red-brn  
 vch sil  
 15-55% rock

3' red-brn  
 v by sil  
 55-65% rock  
 R

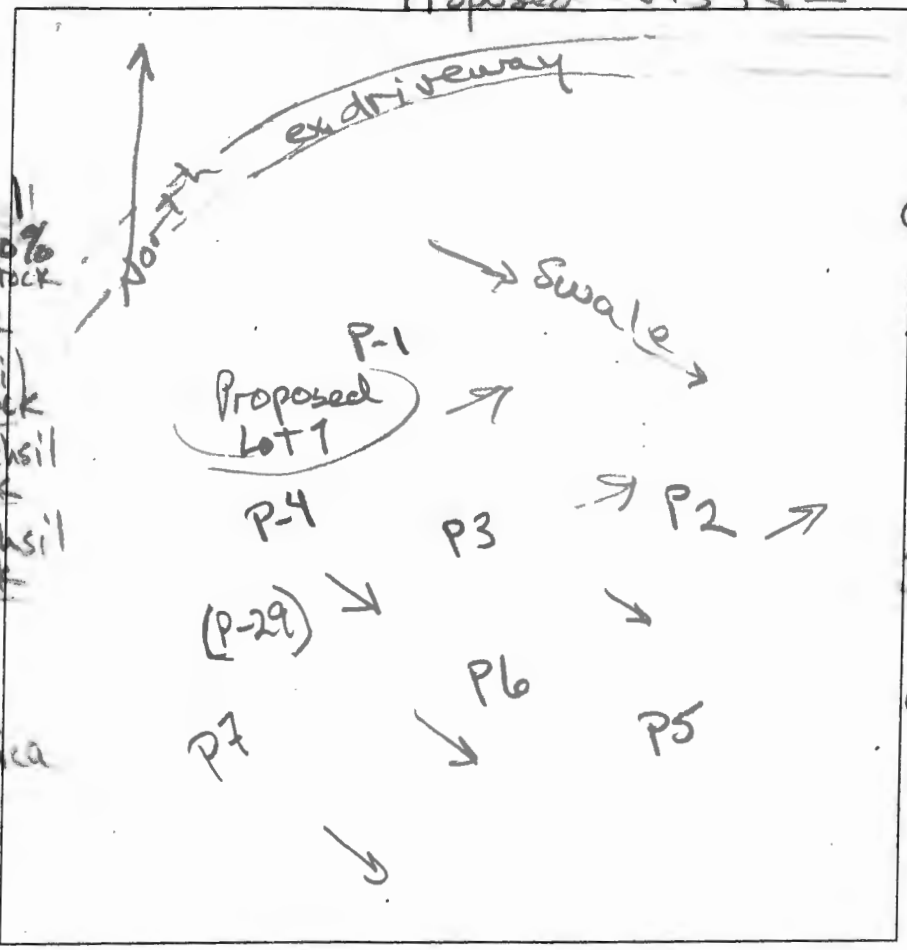
DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
8/20/19	P-9	5' 8.5"	11:21	11:23	11:28	5	P
8/20/19	P-5	1.2'	> 50% Rock				F
8/20/19	P-6	3.5'	> 50% Rock / Refusal				F
8/20/19	P-2	1.5'	Refusal				F
8/20/19	P-7	5' 9"	12:18	12:25	12:36	11	P
8/20/19	P-8	4' 3 3/4"	12:38	12:40	12:43	3	P
8/20	P-4	5.5'	Refusal				F

REMARKS \_\_\_\_\_  
 SANITARIAN R Bricker BACKHOE Hot Fields (Dannie) OTHERS \_\_\_\_\_  
 TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 TRENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

Proposed Lots #2

P-8

A/P



P-11  
 dk brn sil  
 2 v f s b k  
 0.3' brn vch sil  
 2 v f s b k 30-40% rock  
 0.9' yellow ch sil  
 10-20% rock  
 2.1' yel-red vch sil  
 40-50% rock  
 2.6' pale yellow ch sil  
 15-20% rock  
 brn & red vch sil  
 40-50% rock  
 3.5' red, yellow & brn sil  
 thin platy  
 many v. f. mica  
 15-15% rock  
 11'

P-8  
 dk brn sil  
 3 v f s b k  
 0.4' brn sil  
 2 v f s b k  
 0.8' few channers  
 yel-red ch sil  
 2' H. red & yellow  
 ch sil platy  
 3' red & yellow vch sil  
 30-40% rock  
 3.8' red & yellow sil, platy  
 4.5' red & yellow  
 brn sil  
 40-50% rock  
 6' yellow & red  
 ch sil, platy  
 9' R

P-10

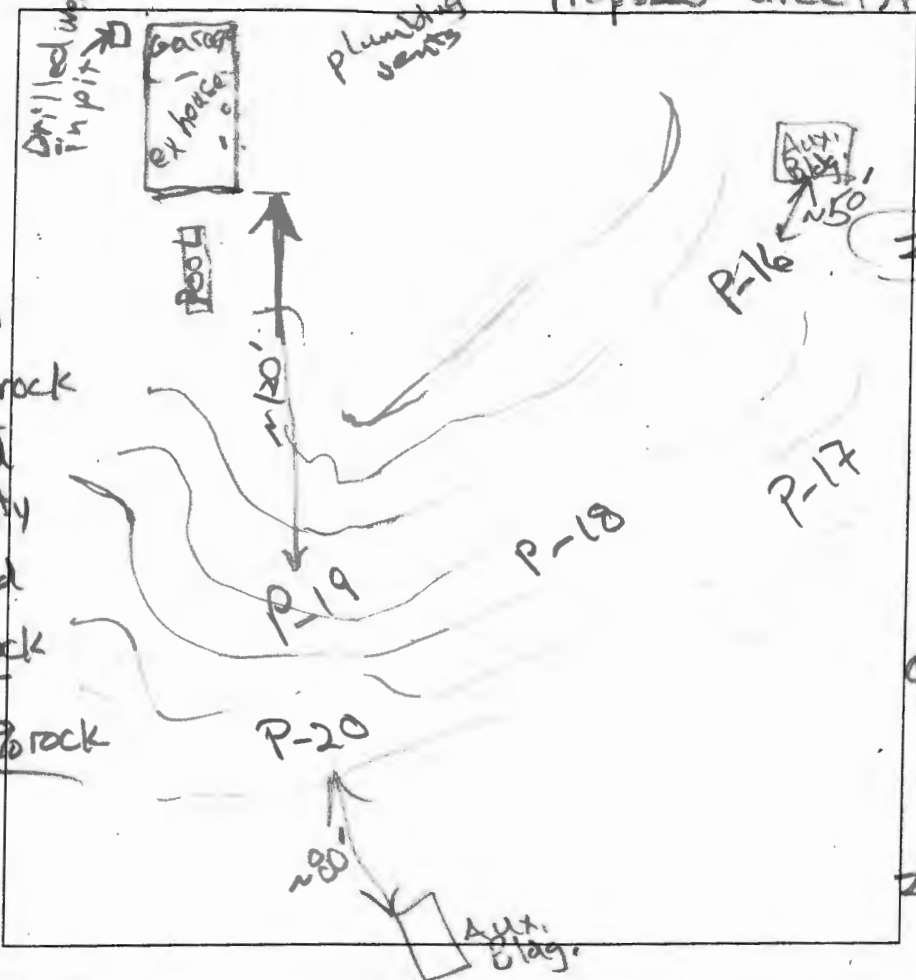
dk brn sil  
 2 v f s b k  
 0.3' brn ch sil  
 2 v f s b k 15-20% rock  
 0.8' brn vch sil  
 30-40% rock  
 2' brn x f sil  
 65-75% rock  
 4.5' pale yellow  
 ch sil, 15-20% rock  
 5.7' red & brn  
 vch sil 35-45% rock  
 6.1' yellow & red  
 ch sil, thin platy  
 many v. f. mica  
 5-15% rock

P-3  
 dk brn sil  
 1 v f s b k  
 0.4' brn ch sil  
 2 v f s b k  
 0.9' red-brn  
 ch sil, 2 f s b k  
 2.2' H. red sil  
 thin platy  
 many v. f. mica  
 few channers  
 7' red & pale yellow  
 vch sil  
 30-40% rock  
 9.3' R

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
8/20/19	P-11	5' 11"	10:28	10:31	10:34	3	P
8/20/19	P-10	6' 13"	10:44	10:49	11:58	9	P
8/20	P-8	4.3' 9"	12:30	12:40	12:43	3	P
8/20/19	P-3	5.5' 9.5"	1:36	1:38	1:42	4	P
8/20	P-1	5' 10.5"	1:48	1:52	1:59	7	P

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

Proposed Parcel 'A'



P-16  
 0.4' dk brn sil 2 v f sbk  
 0.9' brn chsil 1 f sbk  
 yellow chsil  
 1' msbk 15-25% rock  
 3' yellow & red sil, thin platy  
 8' yellow & red v chsil 40-50% rock  
 11.5' red-yellow chsil 15-25% rock  
 13.5'

P-17  
 0.2' brn sil, 1 v f sbk  
 0.7' yel-red chsil 3 f sbk  
 2.9' yel-red v chsil 2 f sbk  
 6' yel-red v chsil platy 80-50% rock  
 11' yel-red chsil thin platy 10-20% rock  
 R

P-20  
 0.2' dk brn sil, 1 v f sbk  
 red-brn chsil 2 f sbk  
 1' yel-red & red-yel sil 1 msbk 5-10% rock  
 2.5' yel-red & red-yel sil, thin platy few rock frag.  
 8' yel-red v f sil thin platy 40-50% rock  
 13' yel-red sil thin platy few rock frag.

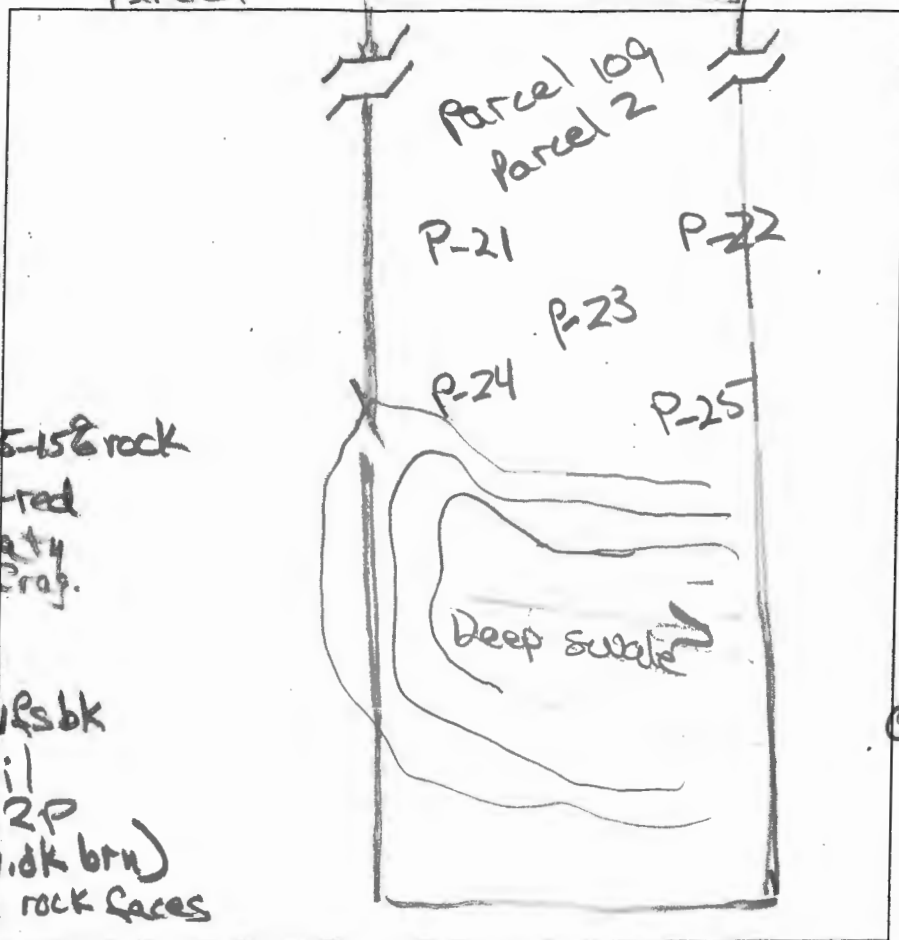
P-18  
 0.7' dk brn sil 2 v f sbk  
 1' yel-brn sil 1 f sbk  
 1' yel-brn chsil 2 f sbk  
 1.8' yel-brn v chsil platy  
 2.9' 30-40% rock  
 9' yellow & red-yel sil thin platy  
 yellow & red-yel chsil  
 12' 20-30 rock

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
8/20/19	P-16	5' / 3.5'	2:10	2:12	2:15	3	P
8/20/19	P-18	4' / 12'	2:31	2:33	2:38	5	P
8/20	P-17	4' / 11'	9:23	9:27	9:36	9	P
8/20	P-20	3.7' / 13'	9:42	9:44	9:49	5	P
8/20	P-19	4.5' / 13'	10:10	10:12	10:14	2.2	P

P-19  
 0.5' dk brn sil 2 v f sbk  
 1' brn chsil 2 f sbk  
 4' yellow sil thin platy alternating layers of yel-red v chsil (30-40% rock)  
 2' yellow sil thin platy few channels

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

Parcel '2'



P-25  
 0.3' dk brn sil, 2 f sbk  
 0.9' brn chsil, 2 f sbk  
 2.3' yet-red chsil, 2 f sbk  
 3.0' yellow, red-yel sil, thin platy 5-15% rock  
 13' hr. red & yet-red sil, thin platy, few rock frag.

P-24  
 0.5' dk brn sil, 2 f sbk  
 2' red-brn chsil, 3 f sbk m 2P (v. dk brn)  
 2' yet-red sil, thick on rock faces  
 3' sil, platy

11' red-red-yellow chsil (pale yellow)  
 11' thin platy, dense v. dk brn coats on road faces common  
 13' red brn chsil, 3 f sbk  
 1.3' yet-red sil, dense  
 3.5' red chsil, 30-35% rock  
 5.2' red & yet-red sil, thin platy, 10-15% rock  
 13'

P-22  
 0.6' dk brn chsil, 3 f sbk  
 1.3' brn chsil, 3 f sbk  
 3' yet-red chsil, dense  
 13' red-yel sil, thin platy, few rock frag.

P-21  
 0.6' dk brn chsil, 3 f sbk  
 1' brn chsil, 3 f sbk  
 1' red-yel chsil, dense  
 3' yet-red sil, dense  
 6' yet-red chsil, thin platy

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
8/21/19	P-25	4.5' / 13'	10:43	10:45	10:50	5	P
8/21/19	P-24	4.5' / 13'	10:54	much soil fell into hole		red dig	
	P-24	4.5' / 13'	11:12	11:32	movement stopped		reshelf
8/21/19	P-23	6' / 13'	0	1.3	3.3	2.0	P
	reshelf P-24	7' / 11'	11:43	11:47	11:55	8	P
8/21/19	P-22	4.3' / 13'	11:59	12:02	12:05	3	P
8/21/19	P-21	7.5' / 13.5'	12:09	12:14	12:23	9	P

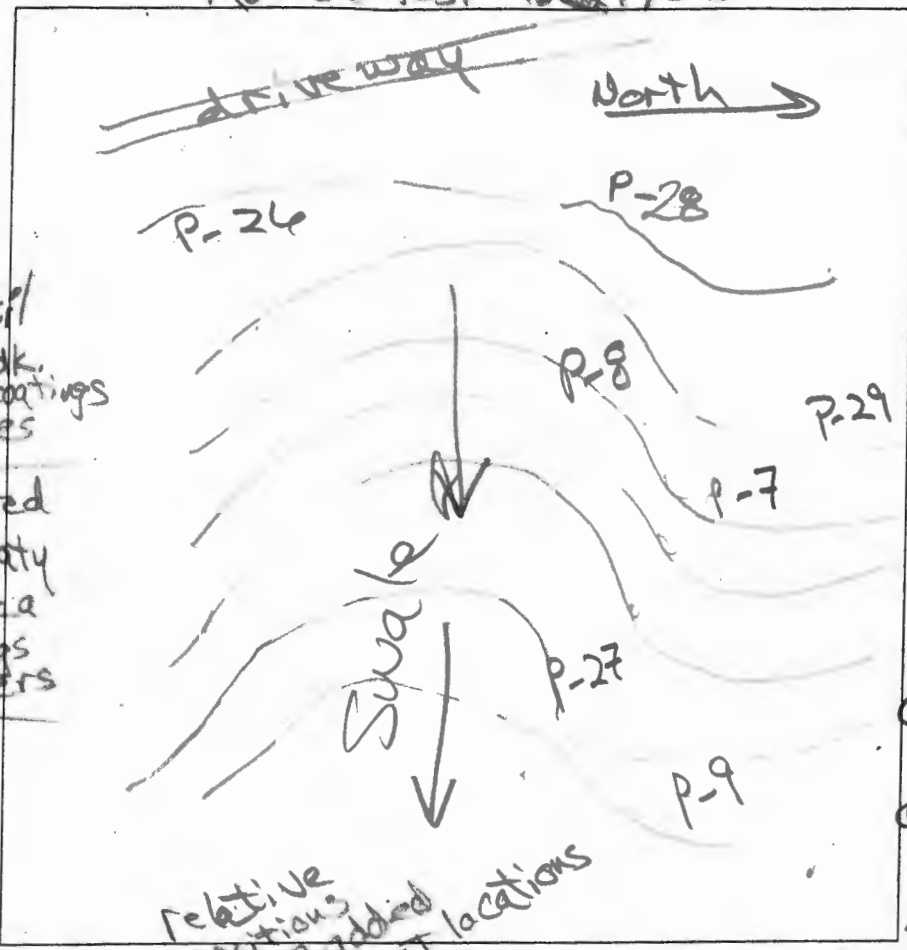
REMARKS \_\_\_\_\_

SANITARIAN R. Bricker BACKHOE Hot Field's OTHERS Mark Patter

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

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

Added test locations



**P-1**  
 0.3' dk brn sil  
 1 vlsbk  
 1' red-brn sil  
 2 fskb  
 1' red-brn chsil  
 platy, very dk.  
 mzd brn coatings  
 on rock faces  
 3.5' red & yel-red  
 sil, thin platy  
 many v.f mica  
 5-15% fbsgs  
 1 & channels

**P-26**  
 0.5' brn sil, 1 vlsbk  
 red-brn chsil 1 fskb  
 to 1 vlsbk  
 3' yellow sil  
 thin platy  
 few rock frags  
 9' yellow  
 vlsil  
 35-45% rock

**P-27**  
 0.4' dk brn sil  
 2 vlsbk  
 0.9' brn chsil  
 2 fskb  
 0.9' red-brn sil  
 thick platy  
 5-10% channels  
 1.7' brn velsil  
 Øm, dense  
 4' pale brn  
 chsil, Øm  
 dense  
 7' yel-red  
 sil, thin  
 platy  
 14'

**P-28**  
 0.3' dk brn sil  
 2 vlsbk & fskb  
 0.9' brn chsil  
 1 fskb  
 0.9' yel-red chsil  
 Øm, dense  
 2.4' yellow sil  
 Øm, dense  
 5' yel-red sil  
 thin platy  
 10-15% rock  
 14'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
8/20/19	P-1	5' / 10.5'	1:48	1:52	1:59	7	P
8/21/19	P-26	5.3' / 12'	1:22	1:24	1:29	5	P
8/21/19	P-28	6.5' / 14'	1:38	1:46	2:01	15	P
8/21/19	P-27	6.5' / 13'	2:08	2:48			F
8/21/19	P-29	5.7' / 13'	2:31	2:35	2:40	5	P

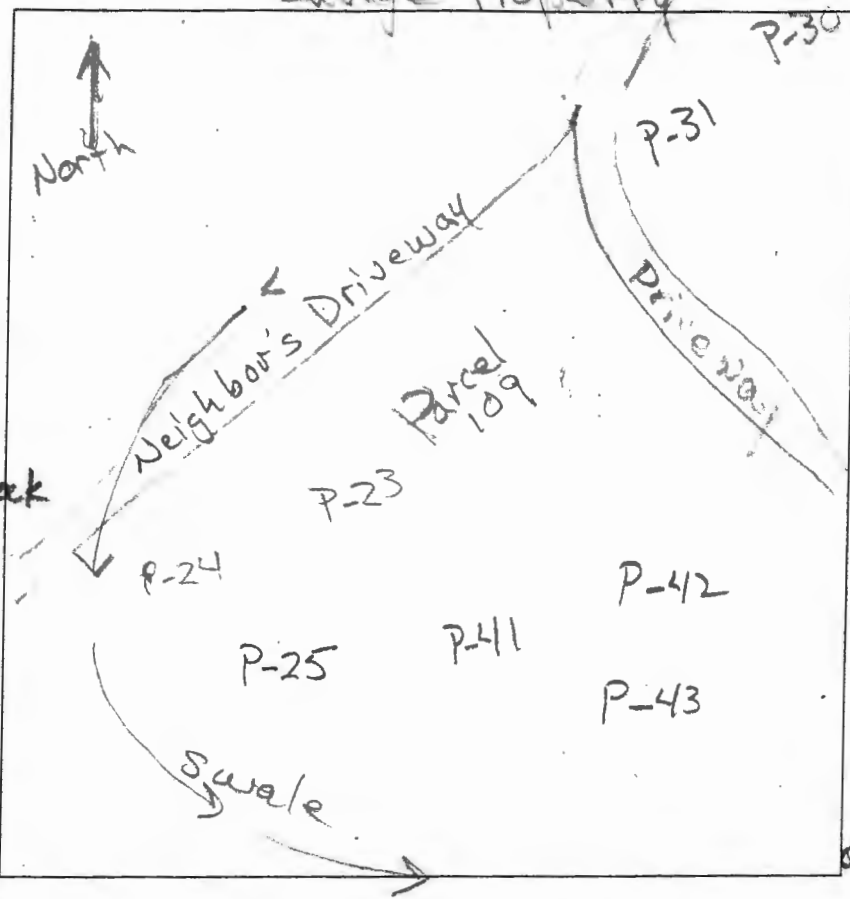
**(29)**  
 dk brn sil  
 3 vlsbk  
 0.7' red-brn sil  
 2 fskb  
 to 1msbk  
 2.2' yel-red sil  
 thin platy  
 4.3' red & yel-red  
 sil, thin platy

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

Savage Property

P-43

AP \_\_\_\_\_



P-31  
0.7' dk brn sil  
3 v f s b k  
brn sil  
2 f s b k  
10-15% rock  
1.3' red brn chsil  
2 f s b k  
4' yel-red sil  
platy 5-10% rock  
1.3' \_\_\_\_\_

P-30  
0.4' dk brn chsil  
2 v f s b k  
brn chsil  
2 f s b k  
1.4' red-brn  
chsil, 1 m s b k

10.5' yel-red, red  
pale yellow  
chsil  
1.5' pale brn  
red brn  
sil 20-30%  
rock

P-42  
1' dk brn sil  
2 v f s b k  
brn chsil  
1 f s b k  
2' yellow chsil  
1 m s b k  
red, yel-red  
yellow & brn  
chsil, platy  
20-30% rock  
4' red-yel  
yellow & lt brn  
chsil, platy  
1.3' \_\_\_\_\_

0.5' dk brn chsil  
2 v f s b k  
1.5' brn vchsil  
1 f s b k 5-45%  
red-brn vchsil  
2' 30-40% rock  
yellow  
& lt brn sil  
11' thin platy  
red, brn &  
pale yellow  
chsil, platy  
20-30% rock  
12.5' \_\_\_\_\_

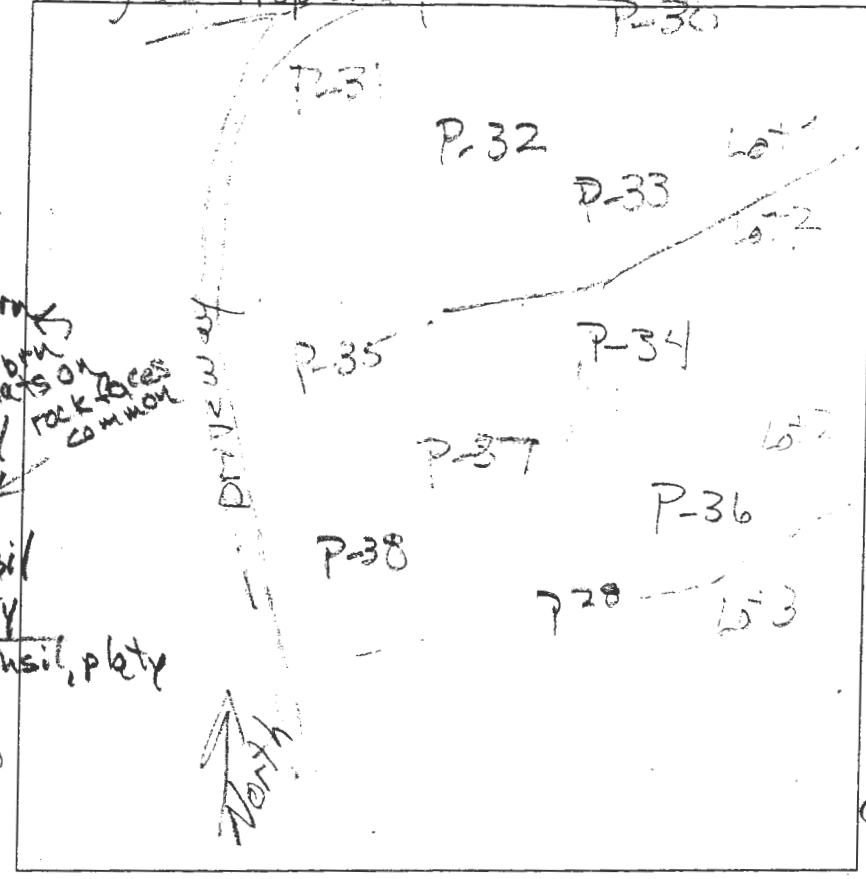
P-41  
0.4' dk brn sil  
3 v f s b k  
0.8' brn vchsil  
1 f s b k 30-40%  
yellow vchsil  
30-40% rock  
3' yellow, yel-red  
& brn v f sil  
5' 40-50% rock  
red, yel-red  
& brn chsil  
13' platy  
15-25% rock

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
9/25/19	P-31	5' / 13'	11:56	11:58	12:02	4	P
9/25/19	P-30	5.5' / 13'	12:10	12:11	12:14	2'	P
9/25/19	P-43	4.5' / 13'	12:29	12:31	12:34	3	P
9/25/19	P-41	4.5' / 13'	12:44	12:46	12:51	5	P
9/25/19	P-42	4.5' / 13'	1:01	1:03	1:07	4	P

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

Savage Paper Mill

AP



P-34

dk brn sil  
lvlsbk  
brn sil  
dm, dense  
0.7' red-brn sil  
2msbk  
2.2' yel-red sil  
4.3' platy few  
yel-red chsil rock  
9.5' yel-red, red  
& brn sil  
25-35% rock  
13'

P-32

brn sil  
dm, dense  
0.7' red-brn  
chsil, msbk  
3.2' yel-red chsil  
fsbk common  
dk brn  
casts on  
rock faces  
4' red-yel sil  
thin platy, few  
rocks  
13'

P-35  
dk brn sil  
3vlsbk  
0.7' red-brn sil  
1msbk  
1.2' red-yel & brn  
chsil, dm  
dense dk brn  
casts on  
rock faces  
common  
4' yel-red sil  
2msbk  
6' yel-red sil  
thin platy  
11' yel-red chsil, platy  
15'

P-33  
dk brn sil  
3vlsbk  
0.8' red-brn chsil  
1msbk  
2' yel-red  
sil platy  
4.6' yel-red, red  
& brn sil  
thin platy  
14'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/E/H
9/25/19	P-35	7'15"	10:32	perc hole		leaked-redig	
9/25/19	P-35	8'15"	11:03	11:10	11:20	10	P
9/25/19	P-34	5'13"	11:14	11:18	11:23	5	P
9/25/19	P-33	6'14"	11:32	11:34	11:37	3	P
9/25/19	P-32	6'13"	11:42	11:45	11:48	3	P

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

# Salvage Property

P-38

A/P

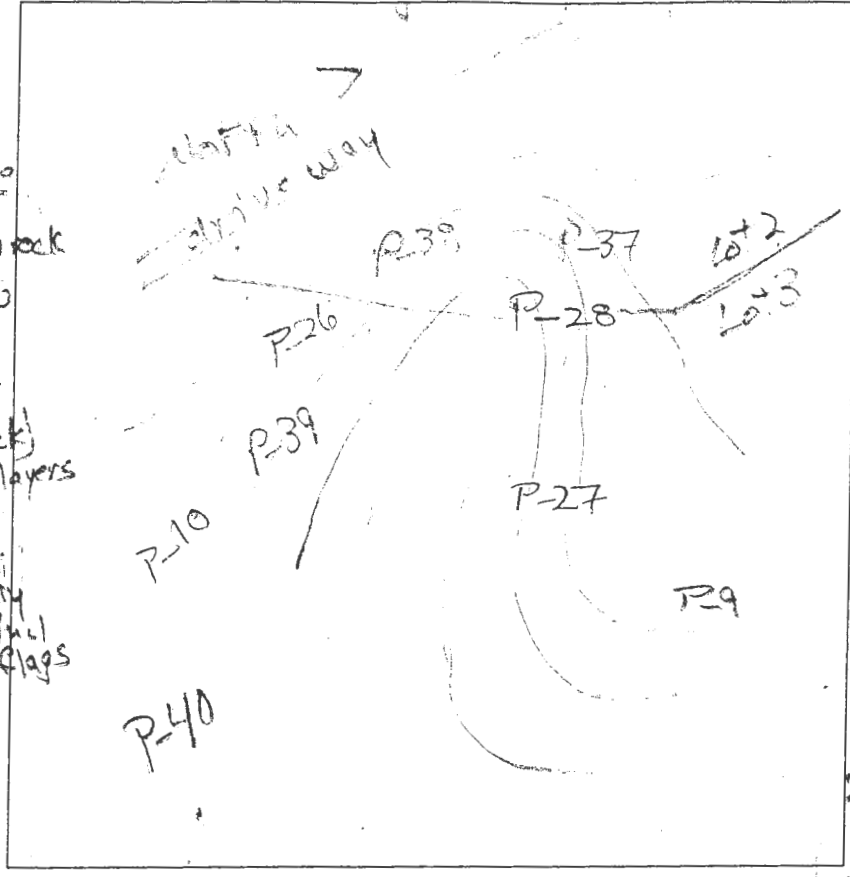
P-40

0.6' dk brn sil  
2 vlsbk  
few rock frag

1.3' brn sil  
1 mslk, few rock

6' 1/2 red, yellow  
and brn-yel  
sil and  
brown f sil  
(40% - 45% rock)  
in alternating layers

red-yel, brn  
3 dk red  
ch sil, platy  
15-20% rock, thin  
few frags



0.7' dk brn sil  
3 vlsbk

3' red-brn ch sil  
2 vlsbk

yellow sil  
thin platy  
few rock frag.

9' yellow vlsil  
35-45% rock

P-36

0.8' dk brn sil  
3 vlsbk

red-brn sil  
0m, 5-15%  
rock

2' red-yel sil  
platy, few rock  
frag

2.8' red-yel sil  
thin platy

3.5' red ch sil  
platy 20-30% rock

5.8' red, red-yel  
1 brn  
by sil, platy  
20-30% rock

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	PIF/H
9/25/19	P-40	3.5' 12'	9:03	9:05	9:08	3	P
9/25/19	P-39	4' 12'	9:18	9:21	9:29	8	P
9/25	P-38	4.5' 13'	9:33	9:38	9:55	17	P
9/25	P-36	5.5' 13'	9:52	9:55	10:03	8	P
9/25/19	P-37	6.5' 13.5'	10:15	10:17	10:22	5	P

P-39

0.8' dk brn sil  
2 vlsbk  
to 3 vlsbk  
few rock frag

1.8' red-brn ch sil  
2 mslk

red-yel, red  
1 1/2 brn  
ch sil (10-20%)  
platy

6' yellow-red & brn  
vlsil  
(40-50% rock)

P-37

0.9' dk brn sil  
3 vlsbk

2.3' red-brn ch sil  
2 vlsbk

red brn ch sil

4' 0m, dense  
red & yel-red  
ch sil, platy  
10-20% rock

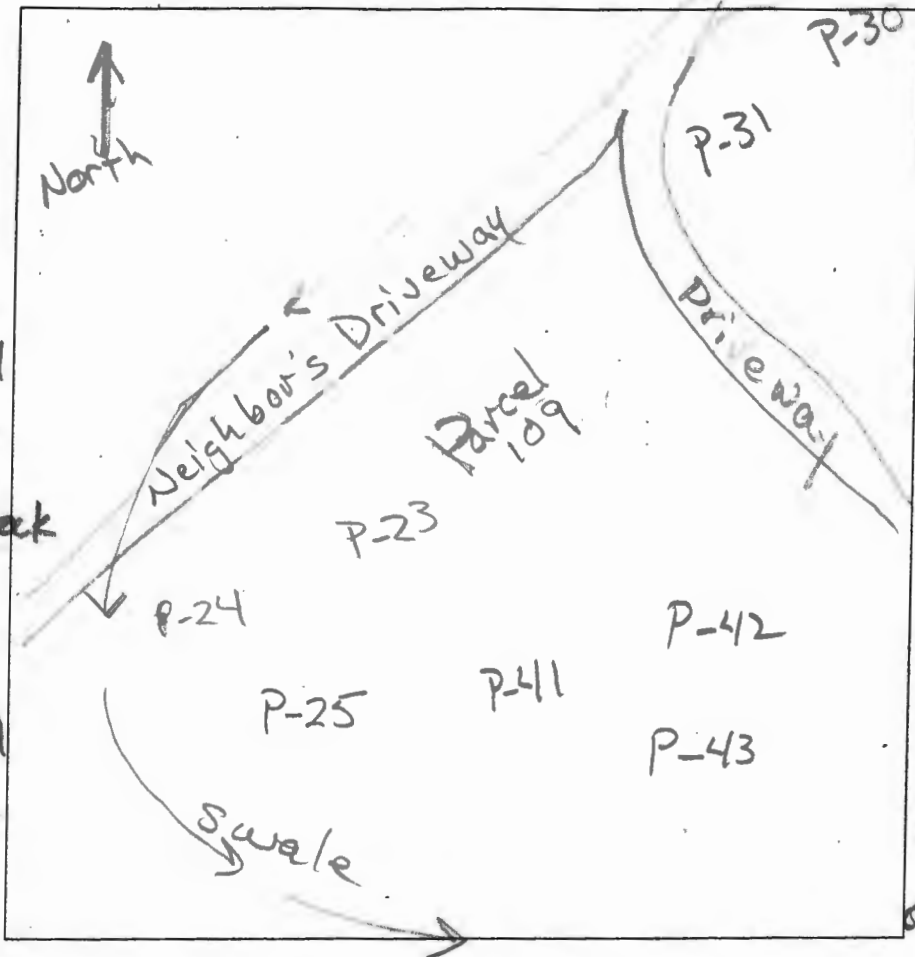
REMARKS \_\_\_\_\_

SANITARIAN R. Brieker BACKHOLE Hatfield's (Donnie) SOTHERS \_\_\_\_\_

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

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

13.5'



P-43

0.5' dk brn chsil  
2 v fskb

1.5' brn vchsil  
1 fskb 5-45% rock

2' red-brn vchsil  
30-40% rock

yellow  
2 1/4 brn sil

11' thin platy  
red, brn &  
pale yellow  
chsil, platy

20-30% rock

12.5' P-41  
dk brn sil  
3 v fskb

0.4' brn vchsil  
1 fskb 30-40% rock

0.8' yellow vchsil  
30-40% rock

3' yellow, yel-red  
& brn v fsil  
40-50% rock

5' red, yel-red  
& brn chsil  
platy

15-25% rock

P-31

0.7' dk brn sil  
3 v fskb

brn sil  
2 fskb

10-15% rock

4.3' red brn chsil  
2 fskb

4' yel-red sil  
platy 5-10% rock

13'

P-30

0.4' dk brn chsil  
2 v fskb

brn chsil  
2 fskb

1.4' red-brn  
chsil, 1msbk

yel-red, red-yel  
& pale yellow  
chsil

0.5' pale brn  
& red brn  
fsil 20-30%  
rock

P-42

dk brn sil  
2 v fskb

brn chsil  
1 fskb

yellow chsil  
1msbk

2' red, yel-red  
yellow & brn  
chsil, platy

20-30% rock

2' red-yel  
yellow & brn  
chsil, platy

13'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
9/25/19	P-31	5' / 13'	11:56	11:58	12:02	4	P
9/25/19	P-30	5.5' / 13'	12:10	12:11	12:14	2'	P
9/25/19	P-43	4.5' / 12.5'	12:29	12:31	12:34	3	P
9/25/19	P-41	4.5' / 13'	12:44	12:46	12:51	5	P
9/25/19	P-42	4.5' / 13'	1:01	1:03	1:07	4	P

REMARKS \_\_\_\_\_

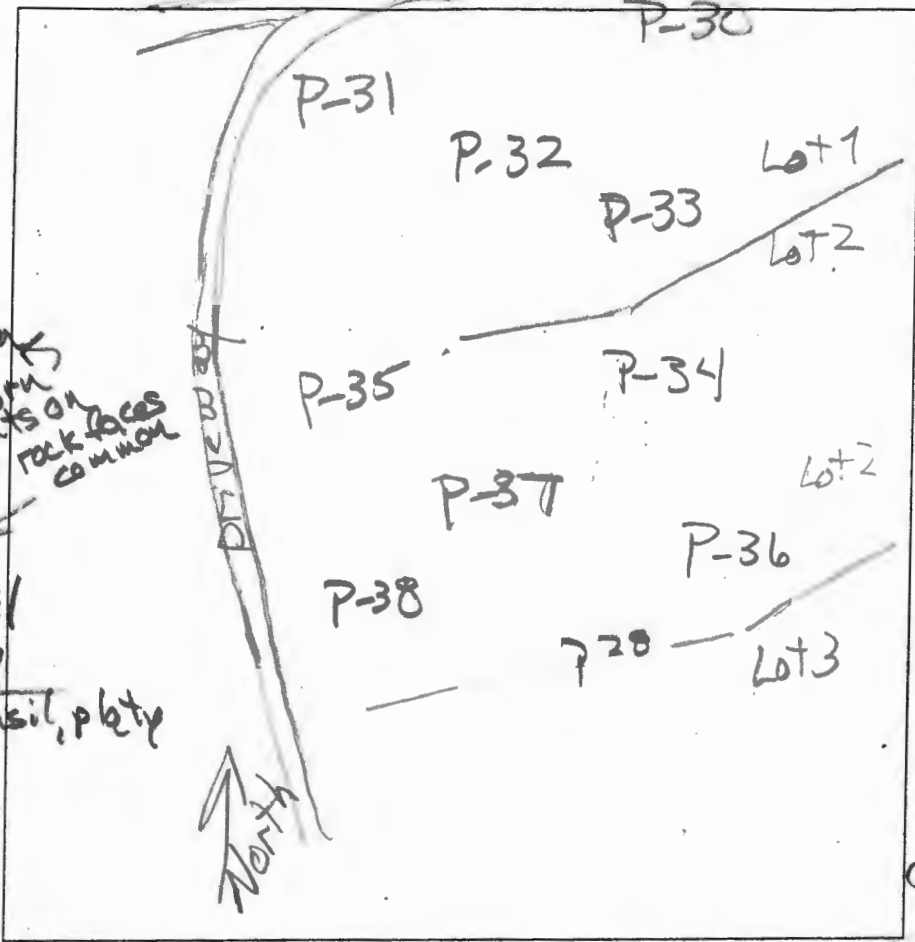
SANITARIAN RB Tricker BACKHOE Hat fields (Bonnie) OTHERS \_\_\_\_\_

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

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

AP

P-35  
 dk brn sil  
 3' vsbk  
 0.7' red-brn sil  
 1' msbk  
 6.2' red-yel & brn chsil, dense  
 dk brn coats on rock faces common  
 4' yel-red sil  
 1.2' msbk  
 6' yel-red sil thin platy  
 15' yel-red chsil, platy



P-34  
 dk brn sil  
 1' vsbk  
 brn sil  
 dense  
 0.7' red-brn sil  
 2' msbk  
 2.2' yel-red sil  
 platy few rock  
 4.3' yel-red chsil  
 platy  
 9.5' yel-red, red  
 & brn sil  
 25-35% rock  
 13'

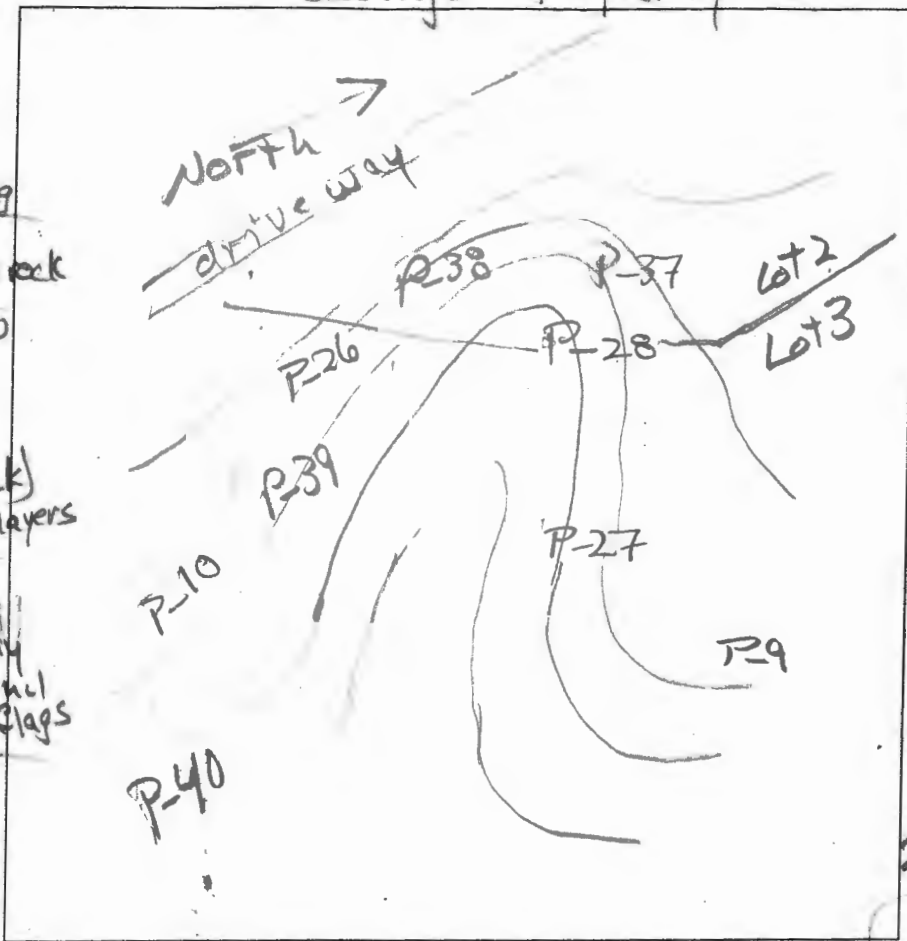
P-33  
 dk brn sil  
 3' vsbk  
 0.8' red-brn chsil  
 1' msbk  
 2' yel-red sil, platy  
 4.6' yel-red, red  
 & brn sil  
 thin platy  
 14'

P-32  
 brn sil  
 dense  
 0.7' red-brn  
 chsil, 1' msbk  
 3.2' yel-red chsil  
 vsbk common  
 dk brn coats on  
 rock faces  
 4' red-yel sil  
 thin platy, few  
 rock  
 13'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	PVE/H
9/25/19	P-35	7' 15"	10:32	perc hole		leaked-red sig	
9/25/19	P-35	8' 15"	11:03	11:10	11:20	10	P
9/25/19	P-34	5' 13"	11:14	11:18	11:23	5	P
9/25/19	P-33	6' 14"	11:32	11:34	11:37	3	P
9/25/19	P-32	6' 13"	11:42	11:45	11:48	3	P

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

# Savage Property



P-38

0.7' dk brn sil  
3v fsk  
red-brn chsil  
3' 2 fsk  
yellow sil  
thin platy  
few rock frag.  
9' yellow v f sil  
35-45% rock  
13'

P-36

0.8' dk brn sil  
3v fsk  
red-brn sil  
dm, 5-15% rock  
2' red-yel sil  
platy, few rock frag  
2.8' red-yel sil  
thin platy  
3.5' red chsil  
platy 20-30% rock  
5.8' red, red-yel  
2 brn  
by sil, platy  
20-30% rock  
13'

P-40

0.6' dk brn sil  
2v fsk  
few rock frag  
1.3' brn sil  
1msbk, few rock  
lt red, yellow  
and brn-yel  
sil and  
brown f sil  
(40% - 45% rock)  
in alternating layers  
6' red-yel, brn  
3 dk red  
chsil, platy  
15-20% rock, incl  
few frags

P-39

0.8' dk brn sil  
2v fsk  
to 3 fsk  
few rock frag  
1.0' red-brn chsil  
2msbk  
red-yel, red  
2 lt brn  
chsil (10-20%  
rock)  
6' platy  
yel-red & brn  
v f sil  
(40-50% rock)

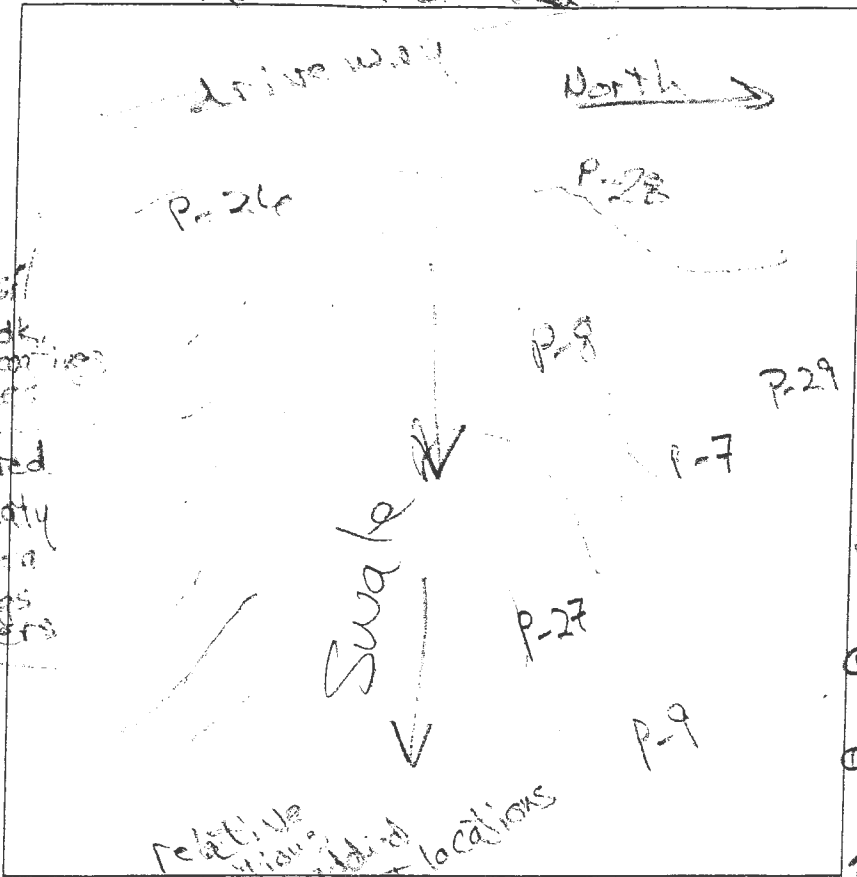
P-37

0.9' dk brn sil  
3v fsk  
2.3' red-brn chsil  
2 fsk  
red brn chsil  
4' dm, dense  
red & yel-red  
chsil, platy  
10-20% rock  
13.5'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
9/25/19	P-40	3.5' / 12'	9:03	9:05	9:08	3	P
9/25/19	P-39	4' / 12'	9:18	9:21	9:29	8	P
9/25	P-38	4.5' / 13'	9:33	9:38	9:55	17	P
9/25	P-36	5.5' / 13'	9:52	9:55	10:03	8	P
9/25/19	P-37	6.5' / 13.5'	10:15	10:17	10:22	5	P

REMARKS \_\_\_\_\_  
 SANITARIAN RP Bricker BACKHOE Hatfield's (Donnie) SOTHERS \_\_\_\_\_  
 TEST HOLES USED IN SDA \_\_\_\_\_ AVG. PERC TIME \_\_\_\_\_ SQ. FT/BR \_\_\_\_\_  
 RENCH WIDTH \_\_\_\_\_ INLET DEPTH \_\_\_\_\_ MAX. BOT DEPTH \_\_\_\_\_ EFFECTIVE SW \_\_\_\_\_

Additional Test Locations



P-1  
 0.3' dk brn sil  
 1' 1/2' vsbk  
 1' red-brn sil  
 2' vsbk  
 1' red-brn chsil  
 platy, very dk  
 mzd, brn spots  
 on rock faces  
 3.5' red & yel-red  
 sil, thin platy  
 many v.l. mica  
 5-15% fbers  
 1/3 channels  
 10.5'

P-27  
 0.4' dk brn sil  
 2' vsbk  
 0.9' brn chsil  
 2' vsbk  
 0.9' red-brn sil  
 thick platy  
 5-10% channels  
 1.7' brn vel sil  
 4' 0m, dense  
 pale brn  
 chsil, 0m  
 dense  
 7' yel-red  
 sil, thin  
 platy  
 14'

P-26  
 0.5' brn sil, 1/2 vsbk  
 red-brn  
 chsil 1/2 vsbk  
 to 1msbk  
 3' yellow sil  
 thin platy  
 few rock frag.  
 9' yellow  
 v.l sil  
 35-45% rock  
 12'  
 P-28  
 0.3' dk brn sil  
 2' vsbk & fck  
 0.9' brn chsil  
 1' vsbk  
 0.9' yel-red chsil  
 0m, dense  
 2.4' yellow sil  
 0m, dense  
 5' yel-red sil  
 thin platy  
 10-15% rock  
 14'

(29)  
 dk brn sil  
 3' vsbk  
 0.7' red-brn sil  
 2' vsbk  
 to 1msbk  
 2.2' yel-red sil  
 thin platy  
 4.3' red & yel-red  
 sil, thin platy  
 10-15% rock  
 13' thin platy

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
8/20/19	P-1	5' 10.5'	1:48	1:52	1:59	7	P
8/21/19	P-26	5.3' 12'	1:22	1:24	1:29	5	P
8/21/19	P-28	6.5' 14'	1:38	1:46	2:01	15	P
8/21/19	P-27	6.5' 13'	2:08	2:48			F
8/21/19	P-29	5.7' 13'	2:31	2:35	2:40	5	P

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

Parcel '2'

A/P

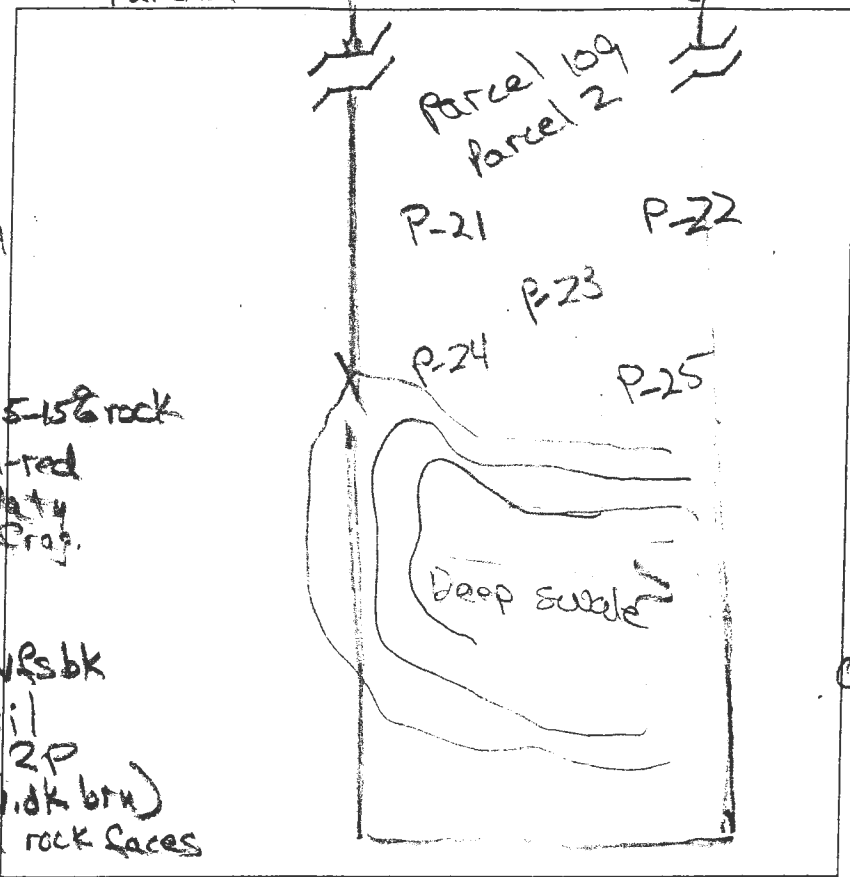
P-25

0.3' dk brn sil  
2 f/sbk  
brn chsil  
2 f/sbk  
0.9' yel-red chsil  
2 f/sbk  
2.3' yellow sil  
red-yel sil  
thin platy 5-15% rock  
3.0' lt. red & yel-red  
sil thin platy  
few rock frag.

P-24

0.5' dk brn sil, 2 f/sbk  
red-brn chsil  
3 f/sbk w/ 2P  
2' yel-red (v. dk brn)  
sil thick on rock faces  
3' sil, platy  
red sil  
thin platy  
few rock frag.

11' red-red-yellow  
chsil (pale yellow)  
thin platy, dense  
v. dk brn coats  
on red faces  
common  
13' red brn chsil  
3 f/sbk  
1.3' yel-red sil  
Ø m, dense  
3.5' red chsil  
80-35% rock  
5.2' red & yel-red  
sil, thin platy  
10-15% rock  
13'



P-22  
0.6' dk brn chsil  
3 f/sbk  
1.3' brn chsil  
3 f/sbk  
3' yel-red chsil  
Ø m, dense  
red-yel sil  
thin platy  
few rock frag.

P-21

0.6' dk brn chsil  
3 f/sbk  
1' brn chsil  
3 f/sbk  
red-ye  
chsil Ø m  
dense  
3' yel-red  
sil Ø m  
dense.  
6' yel-red  
chsil, thin  
platy

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
8/21/19	P-25	4.5' / 13'	10:43	10:45	10:50	5	P
8/21/19	P-24	4.5' / 13'	10:54	much soil fell into hole			red dig
	P-24	4.5' / 13'	11:12	11:32			reshelf
8/21/19	P-23	6' / 13'	0	1.3	3.3	2.0	P
	P-24	7' / 11'	11:48	11:47	11:55	8	P
8/21/19	P-22	4.3' / 13'	11:59	12:02	12:05	3	P
8/21/19	P-21	7.5' / 13.5'	12:07	12:14	12:23	9	P

REMARKS \_\_\_\_\_

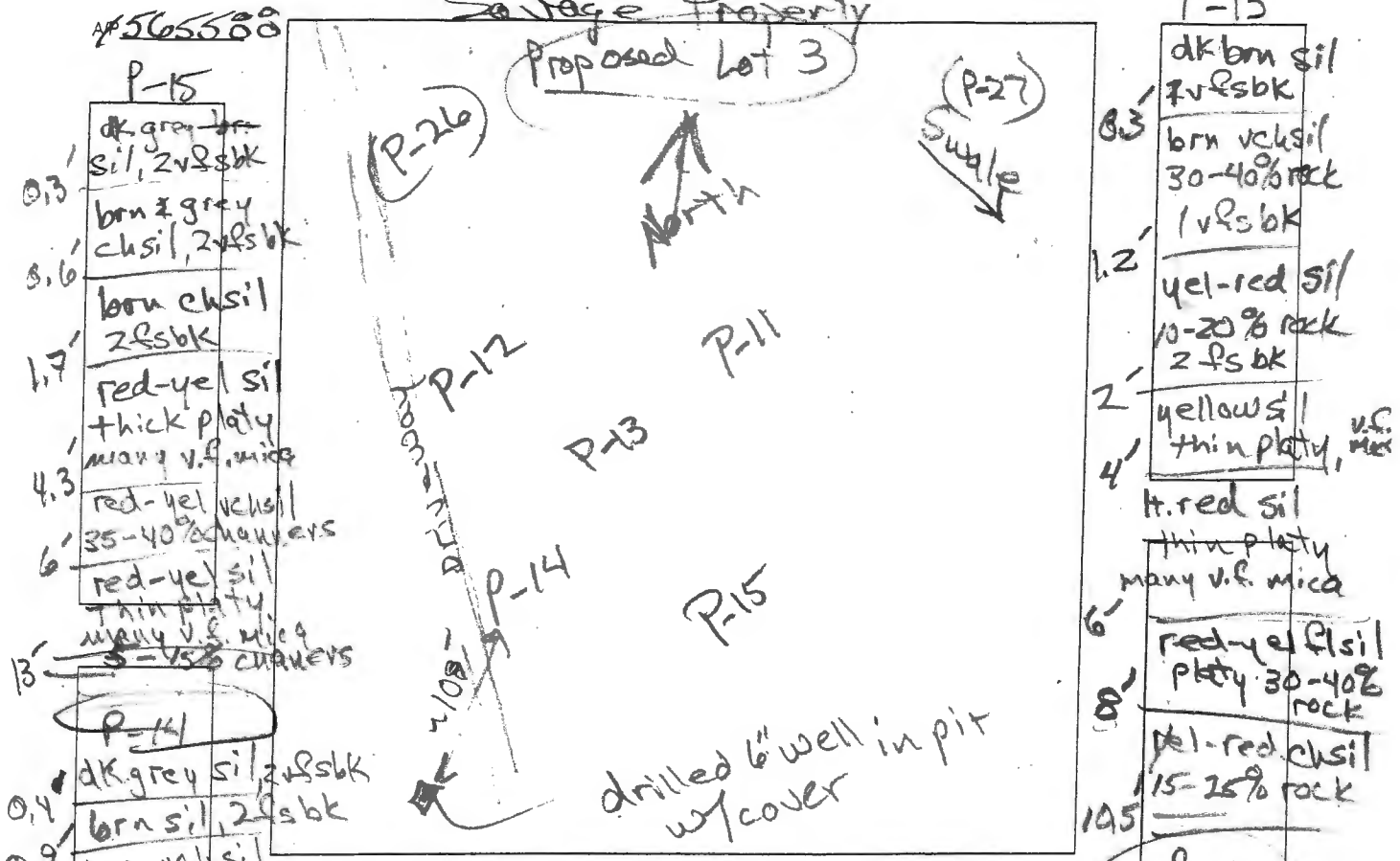
SANITARIAN R. Bricker BACKHOE Hot Shovel OTHERS Mark Patter

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

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

Savage Property

Proposed Lot 3



#565500

P-15

0.3' dk grey sil, 2vlsbk

0.6' brn & grey chsil, 2vlsbk

1.7' brn chsil 2vlsbk

4.3' red-ye sil thick platy many v.f. mica

6' red-ye vchsil 35-40% channers

13' red-ye sil thin platy many v.f. mica 5-15% channers

P-14

0.4' dk grey sil, 2vlsbk

0.9' brn sil, 2vlsbk

2.5' brn vchsil 35-45% channers

5' brn xpl sil 70-80% rock

red-ye chsil, thin platy many v.f. mica 5-15% channers

10.5' red-ye sil, 50-60% rock

1'-13

0.3' dk brn sil 2vlsbk

1.2' brn vchsil 30-40% rock 1vlsbk

2' yel-red sil 10-20% rock 2vlsbk

4' yellow sil thin platy, v.f. mica

6' h. red sil thin platy many v.f. mica

8' red-ye sil platy 30-40% rock

10.5' yel-red chsil 15-25% rock

P-12

0.3' dk brn sil 2vlsbk

0.8' brn chsil 1vlsbk 15-25% rock

1.7' brn vchsil 30-40% rock 1vlsbk

3.7' red sil thin platy many v.f. mica

10.5' yellow sil thin platy 5-15% rock channers in seams 3-4 inches thick

13' yel-red sil 25-35% rock

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
8/20/19	P-15	5.1' / 13	9:29	9:33	9:38	5	P
8/20/19	P-14	6.3' / 10.5	9:42	9:45	9:49	4	P
8/20	P-13	5.5' / 10.5	9:53	9:55	9:57	2	P
8/20	P-12	5.5' / 13	0	2:1	4.5	2.4	P

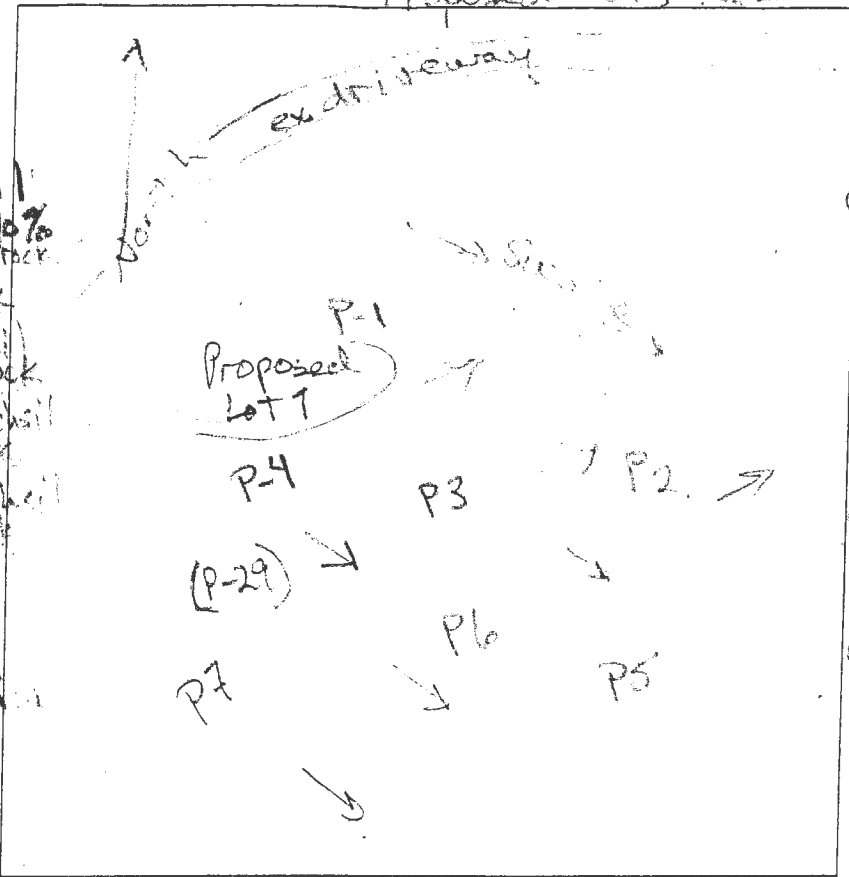
REMARKS \_\_\_\_\_

SANITARIAN R Bricker BACKHOE H & W (Donnie) OTHERS \_\_\_\_\_

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

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

Proposed Lots 1 & 2



P-11  
 0.3' dk brn sil  
 2 v f sbk  
 0.9' brn vch sil  
 3 v f sbk 30-40% rock  
 0.9' yellow ch sil  
 10-20% rock  
 2.1' yel-red vch sil  
 40-50% rock  
 2.6' pale yellow ch sil  
 15-20% rock  
 35' brn & red vch sil  
 40-50% rock  
 red, yellow & brn sil  
 thin platy  
 many v. f. mica  
 15-15% rock  
 11'

F-2  
 0.4' dk brn sil  
 3 v f sbk  
 0.8' brn sil  
 2 v f sbk  
 few channers  
 2' yel-red ch sil  
 pale  
 3' H. red & yellow ch sil platy  
 red & yellow vch sil  
 30-40% rock  
 3.8' red & yellow sil platy  
 4.5' red & yellow brn sil  
 40-50% rock  
 6' yellow & red ch sil platy  
 9' R

P-10  
 0.3' dk brn sil  
 2 v f sbk  
 0.8' brn ch sil  
 2 v f sbk 15-20% rock  
 2' brn vch sil  
 30-40% rock  
 4.5' brn xpl sil  
 65-75% rock  
 5.7' pale yellow ch sil, 15-20% rock  
 6.1' red & brn vch sil 35-45% rock  
 yellow & red ch sil thin platy  
 many v. f. mica  
 5-15% rock

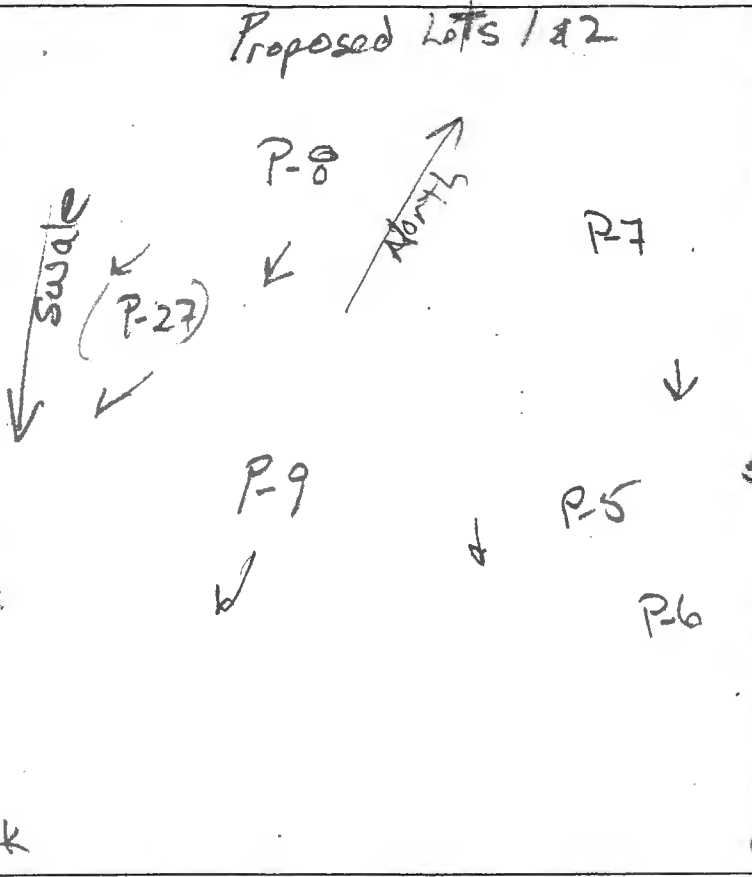
P-3  
 0.4' dk brn sil  
 1 v f sbk  
 0.9' brn ch sil  
 2 v f sbk  
 2.2' red-brn ch sil, 2 f sbk  
 H. red sil  
 thin platy  
 many v. f. mica  
 few channers  
 7' red & pale yellow vch sil  
 30-40% rock  
 9.3' R

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
8/20/9	P-11	5' 11"	10:28	10:31	10:34	3	P
8/20/9	P-10	6' 13"	10:44	10:49	11:58	9	P
8/20	P-8	4.3' 9"	12:38	12:40	12:43	3	P
8/20/9	P-3	5.5' 6.5"	1:36	1:38	1:42	4	P
8/20	P-1	5' 10.5"	1:48	1:52	1:59	7	P

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

# Proposed Lots 1 & 2

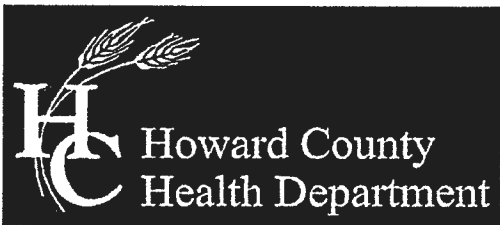
**P-9**  
 dk brn chsil  
 1 v f s bk 15-20% channels  
 0.5' to red-brn chsil  
 2 f s bk  
 1.5' brn & red vch sil 35-45% rock  
 3' yellow & pale yellow sil, thick platy to ~3-inch vch sil - 40-50% rock  
 5' brn & red sil thin platy 10-15% rock  
 8.5' brn & red v f sil platy 50-60% rock  
 13' red & yellow sil, 5-15% platy rock  
 (P-7)  
 0.4' dk brn sil 2 v f s bk  
 0.7' brn sil 1 v f s bk  
 2.2' red-brn chsil 3 f s bk  
 4' red vch sil 40-50% rock  
 6' red & yellow chsil, thin platy  
 9' red & yellow v f sil 35-45% rock  
 R



**P-5**  
 dk brn sil 1 v f s bk  
 0.5' brn chsil 3 v f s bk  
 0.8' red-brn chsil  
 1.2' 2 f s bk  
 red-brn v f sil 50-60% rock  
 2.3' red-brn v f sil 60-70% rock  
 5.3' red & yellow chsil 70%-80% rock  
 7' red-brn v f sil 50-60% rock  
 9.3' (P-6)  
 dk brn sil 2 v f s bk  
 0.5' red-brn chsil 1 f s bk  
 1.7' red-brn chsil platy  
 2.5' red & yellow chsil platy  
 3.5' red & brn v by sil R  
 4.6' (P-4)  
 brn sil to red-brn sil  
 1.7' red-brn vch sil 25-55% rock  
 3' red-brn v by sil  
 5.5' 55-65% rock  
 R

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
8/20/19	P-9	5 1/8'	11:21	11:23	11:28	5 P	
8/20/19	P-5	1.2	> 50% Rock				F
8/20/19	P-6	3.5	> 50% Rock				F
8/20/19	P-2	1.5	Refusal				F
8/20/19	P-7	5 1/8'	12:18	12:25	12:36	11 P	
8/20/19	P-8	4 1/3'	12:38	12:40	12:43	3 P	
8/20	P-4	5.5	Refusal				F

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



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

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

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME Savage Property

PROPERTY ADDRESS 2730 Jennings Chapel Rd. Woodbine 21797

TAX ACCOUNT # 327268 TAX MAP 13 GRID 21 PARCEL 109 LOT NO. 1 PROPOSED LOT SIZE (ACRES) 1.0

ZONING CATEGORY PC-DEO TIER

PROPERTY OWNER(S) JRNL, LLC

DAYTIME PHONE CELL EMAIL

MAILING ADDRESS 6800 Deerpath Rd, Suite 100, Elkridge, MD 21075

APPLICANT James M. Fraser RELATIONSHIP TO OWNER: Authorized Representative

DAYTIME PHONE 443 433 6287 CELL EMAIL jfraser@handrock.com

MAILING ADDRESS 6800 Deerpath Rd. suite 100, Elkridge 21075

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S):

PROPERTY:

- SUBDIVISION: NUMBER OF LOTS INCLUDING RESIDUE: 4
SUBDIVISION CLASSIFICATION (PER DEPT. OF PLANNING AND ZONING)
[ ] CONSTRUCT NEW OSDS ON UNDEVELOPED LOT
[ ] REPAIR OR REPLACE FAILING OSDS
[ ] UPGRADE EXISTING OSDS

BUILDING:

- [x] RESIDENTIAL WITH Unknown EXISTING OR PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE
[ ] COMMERCIAL (PROVIDE DETAIL OF TYPE OF USE AND NUMBERS OF EMPLOYEES/CUSTOMERS ON ACCOMPANYING PLAN)

IS THE PROPERTY WITHIN 2500 FEET OF ANY RESERVOIR?

- [ ] YES
[ ] NO

AS APPLICANT, I UNDERSTAND THE FOLLOWING:

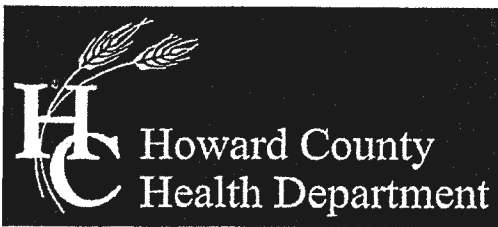
- THIS APPLICATION IS VALID FOR TWO(2) YEARS FROM DATE OF FEE PAYMENT AND-APPROVAL IS BASED UPON HEALTH OFFICER SIGNATURE OF A PERC CERTIFICATION PLAN PRIOR TO EXPIRATION OF THIS PERMIT.
THE APPLICATION FEE IS NON-REFUNDABLE
THIS APPLICATION MUST BE ACCOMPANIED BY ALL APPLICABLE FEES AND A SUITABLE SITE PLAN IN ORDER TO BE PROCESSED
THIS IS A PUBLIC DOCUMENT

I declare and affirm that to the best of my knowledge, the information contained herein is correct. I declare that I am the owner of the property or duly authorized to make this application on behalf of the owner. I agree to comply with all applicable state and county regulations.

By signature of this application, I hereby grant Howard County Health Department officials the right to enter onto the property for the purpose of inspecting the property as directly related to the requested permit/service.

Signature of applicant

7/11/19 DATE



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 www.hchealth.org  
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 Twitter: HowardCoHealthDep

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

A 55550

**APPLICATION**

**FOR PERCOLATION TESTING AND SITE EVALUATION**

**PROPERTY LOCATION**

SUBDIVISION/PROPERTY NAME Savage Property

PROPERTY ADDRESS 2730 Jennings Chapel Rd. Woodbine 21797  
STREET TOWN ZIP

TAX ACCOUNT # 601647 TAX MAP 13 GRID 21 PARCEL 109 LOT NO. PAR2 PROPOSED LOT SIZE (ACRES) 1.79

ZONING CATEGORY RC-DEO TIER     

PROPERTY OWNER(S) ~~JRNI LLC~~ JRNI LLC

DAYTIME PHONE 443 433 6287 CELL      EMAIL jfraser@handhrock.com

MAILING ADDRESS 6800 Deerpath Rd, Suite 100, Elkridge, MD 21075  
STREET CITY, STATE ZIP

APPLICANT James M Fraser RELATIONSHIP TO OWNER: Authorized Rep

DAYTIME PHONE 443 433 6287 CELL      EMAIL jfraser@handhrock.com

MAILING ADDRESS same as owner  
STREET CITY, STATE ZIP

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S):

**PROPERTY:**

- SUBDIVISION: NUMBER OF LOTS INCLUDING RESIDUE:       
 SUBDIVISION CLASSIFICATION (PER DEPT. OF PLANNING AND ZONING)  MAJOR  MINOR
- CONSTRUCT NEW OSDS ON UNDEVELOPED LOT
- REPAIR OR REPLACE FAILING OSDS
- UPGRADE EXISTING OSDS

**BUILDING:**

- RESIDENTIAL WITH unknown EXISTING OR PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE
- COMMERCIAL (PROVIDE DETAIL OF TYPE OF USE AND NUMBERS OF EMPLOYEES/CUSTOMERS ON ACCOMPANYING PLAN)

IS THE PROPERTY WITHIN 2500 FEET OF ANY RESERVOIR?

- YES
- NO

AS APPLICANT, I UNDERSTAND THE FOLLOWING:

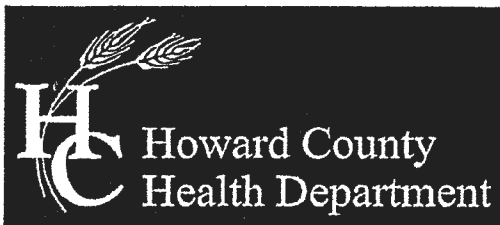
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- THIS IS A PUBLIC DOCUMENT

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By signature of this application, I hereby grant Howard County Health Department officials the right to enter onto the property for the purpose of inspecting the property as directly related to the requested permit/service.

JM Fraser  
 SIGNATURE OF APPLICANT

7/11/19  
 DATE



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

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME Savage Property

PROPERTY ADDRESS 2730 Jennings Chapel Rd. Woodbine 21797

TAX ACCOUNT # 327268 TAX MAP 13 GRID 21 PARCEL 109 LOT NO. 3 PROPOSED LOT SIZE (ACRES) 1.0

ZONING CATEGORY RL-DEO TIER

PROPERTY OWNER(S) JRNL, LLC

DAYTIME PHONE CELL EMAIL

MAILING ADDRESS 6800 Deerpath Rd, Suite 100, Elkridge, MD 21075

APPLICANT James M. Fraser RELATIONSHIP TO OWNER: Authorized Representative

DAYTIME PHONE 443 433 6287 CELL EMAIL jfraser@handhrock.com

MAILING ADDRESS Same as owner

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S):

PROPERTY:

- SUBDIVISION: NUMBER OF LOTS INCLUDING RESIDUE: 4
SUBDIVISION CLASSIFICATION (PER DEPT. OF PLANNING AND ZONING)
MAJOR MINOR
CONSTRUCT NEW OSDS ON UNDEVELOPED LOT
REPAIR OR REPLACE FAILING OSDS
UPGRADE EXISTING OSDS

BUILDING:

- RESIDENTIAL WITH Unknown EXISTING OR PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE
COMMERCIAL (PROVIDE DETAIL OF TYPE OF USE AND NUMBERS OF EMPLOYEES/CUSTOMERS ON ACCOMPANYING PLAN)

IS THE PROPERTY WITHIN 2500 FEET OF ANY RESERVOIR?

- YES
NO

AS APPLICANT, I UNDERSTAND THE FOLLOWING:

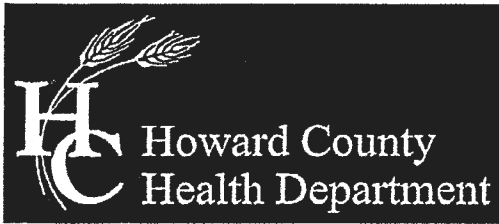
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SIGNATURE OF APPLICANT

DATE



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APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME Savage Property

PROPERTY ADDRESS 2730 Jennings Chapel Rd. Woodbine 21797

TAX ACCOUNT # 327268 TAX MAP 13 GRID 21 PARCEL 109 LOT NO. A PROPOSED LOT SIZE (ACRES) 33

ZONING CATEGORY RC-DEO TIER

PROPERTY OWNER(S) JRNL, LLC

DAYTIME PHONE CELL EMAIL

MAILING ADDRESS 6800 Deerpath Rd, Suite 100, Elkridge, MD 21075

APPLICANT James M. Fraser RELATIONSHIP TO OWNER: Authorized Representative

DAYTIME PHONE 443 433 6287 CELL EMAIL jfraser@hazhrock.com

MAILING ADDRESS STREET CITY, STATE ZIP

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S):

PROPERTY:

- Subdivision: Number of lots including residue: Subdivision classification (per dept. of planning and zoning) Major Minor Construct new OSDs on undeveloped lot Repair or replace failing OSDs Upgrade existing OSDs

BUILDING:

- Residential with unknown existing or proposed bedrooms in the completed structure Commercial (provide detail of type of use and numbers of employees/customers on accompanying plan)

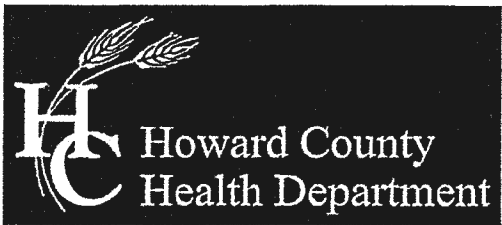
IS THE PROPERTY WITHIN 2500 FEET OF ANY RESERVOIR?

- Yes No

AS APPLICANT, I UNDERSTAND THE FOLLOWING:

- This application is valid for two(2) years from date of fee payment and approval is based upon health officer signature of a perc certification plan prior to expiration of this permit. The application fee is non-refundable. This application must be accompanied by all applicable fees and a suitable site plan in order to be processed. This is a public document.

I declare and affirm that to the best of my knowledge, the information contained herein is correct. I declare that I am the owner of the property or duly authorized to make this application on behalf of the owner. I agree to comply with all applicable state and county regulations. By signature of this application, I hereby grant Howard County Health Department officials the right to enter onto the property for the purpose of inspecting the property as directly related to the requested permit/service. Signature of Applicant: James M. Fraser Date: 7/11/19



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APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME Savage Property

PROPERTY ADDRESS 2730 Jennings Chapel Rd. Woodbine 21797

TAX ACCOUNT # 327268 TAX MAP 13 GRID 21 PARCEL 109 LOT NO. 2 PROPOSED LOT SIZE (ACRES) 1.0

ZONING CATEGORY RL-DE0 TIER

PROPERTY OWNER(S) JRNL, LLC

DAYTIME PHONE CELL EMAIL

MAILING ADDRESS 6800 Deerpath Rd, Suite 100, Elkridge, MD 21075

APPLICANT James M. Fraser RELATIONSHIP TO OWNER: Authorized Representative

DAYTIME PHONE 443 433 6287 CELL EMAIL jfraser@hauhrock.com

MAILING ADDRESS Same as owner

I HEREBY APPLY FOR THE NECESSARY TESTING/EVALUATION PRIOR TO ISSUANCE OF SEWAGE DISPOSAL SYSTEM PERMIT(S):

PROPERTY:

- PROPERTY: SUBDIVISION: NUMBER OF LOTS INCLUDING RESIDUE: 4 SUBDIVISION CLASSIFICATION (PER DEPT. OF PLANNING AND ZONING) MAJOR MINOR CONSTRUCT NEW OSDS ON UNDEVELOPED LOT REPAIR OR REPLACE FAILING OSDS UPGRADE EXISTING OSDS

BUILDING:

- BUILDING: RESIDENTIAL WITH UNKNOWN EXISTING OR PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE COMMERCIAL (PROVIDE DETAIL OF TYPE OF USE AND NUMBERS OF EMPLOYEES/CUSTOMERS ON ACCOMPANYING PLAN)

IS THE PROPERTY WITHIN 2500 FEET OF ANY RESERVOIR?

- YES NO

AS APPLICANT, I UNDERSTAND THE FOLLOWING:

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Signature of Applicant

7/11/19

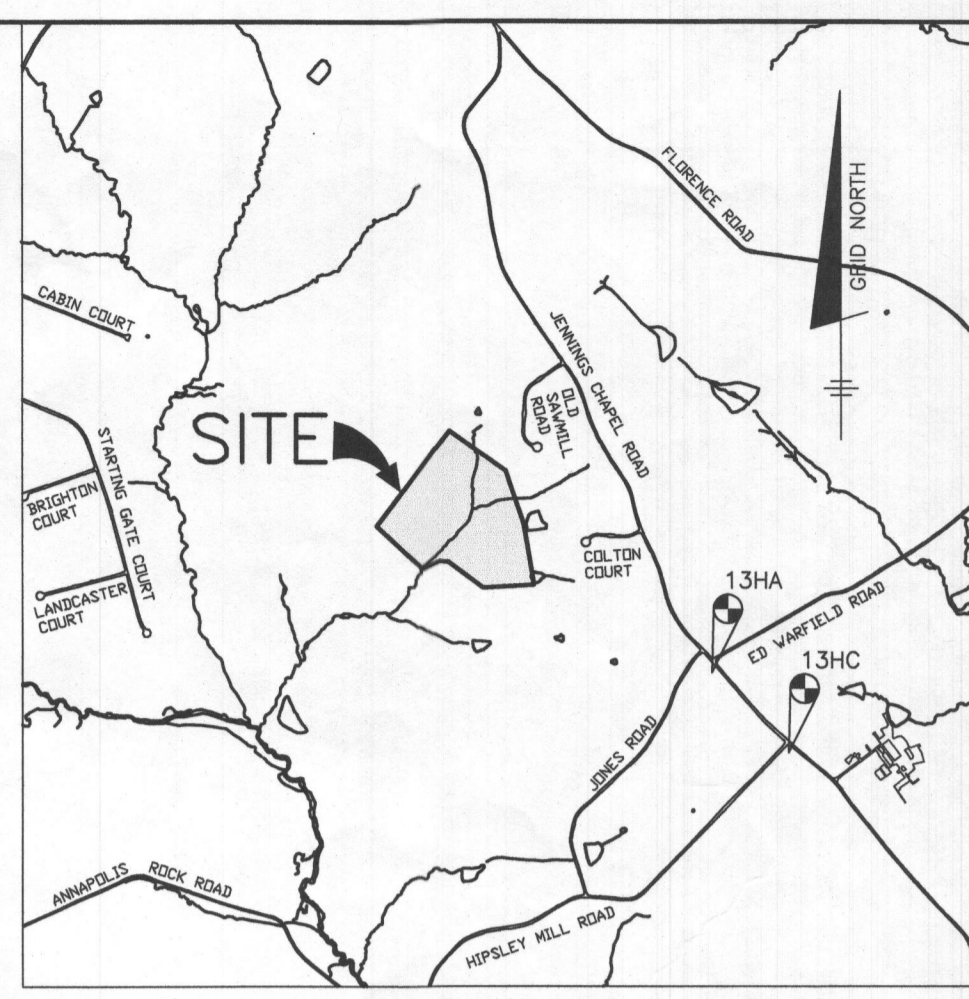
SIGNATURE OF APPLICANT

DATE



**BENCH MARKS**  
 HO. CO. #13HA (NAD '83)  
 STANDARD DISC ON CONCRETE  
 MONUMENT  
 2.7' WEST OF EDGE OF PAVING OF  
 JENNINGS CHAPEL ROAD  
 N. 589965.185 E. 1285964.857  
 ELEV. 565.596'

HO. CO. #13HC (NAD '83)  
 STANDARD DISC ON CONCRETE  
 MONUMENT  
 SOUTH OF THE INTERSECTION OF  
 JENNINGS CHAPEL ROAD AND  
 HIPSLEY MILL ROAD AND 39.4'  
 NORTHWEST OF C&P POLE 1  
 N. 589119.347 E. 1286752.436  
 ELEV. 563.408'



**LEGEND**

- |         |        |     |  |
|---------|--------|-----|--|
| PERC ID | RESULT |     |  |
| P-1     | PASS   | --- | PROPERTY BOUNDARY                            |
| P-2     | FAIL   | --- | ADJACENT PROPERTY BOUNDARY                   |
| P-3     | PASS   | --- | GIS CONTOUR LINES                            |
| P-4     | FAIL   | --- | SOIL DELINEATION                             |
| P-5     | FAIL   | --- | EXISTING BUILDINGS                           |
| P-6     | FAIL   | --- | EXISTING SWIMMING POOLS                      |
| P-7     | PASS   | --- | EXISTING TREELINE                            |
| P-8     | PASS   | --- | STREAM                                       |
| P-9     | PASS   | --- | POND   |
| P-10    | PASS   | --- | PROPOSED 10,000 SQ. FT. SEWAGE DISPOSAL AREA |
| P-11    | PASS   | --- | PROPOSED 1,500 SQ. FT. WELLBOX               |
| P-12    | PASS   | --- | EXISTING SLOPES >25%                         |
| P-13    | PASS   | --- | PERC TEST - PASS                             |
| P-14    | PASS   | --- | PERC TEST - FAIL                             |
| P-15    | PASS   | --- | PROPOSED PERC TEST                           |
| P-16    | PASS   | --- |  |
| P-17    | PASS   | --- |  |
| P-18    | PASS   | --- |  |
| P-19    | PASS   | --- |  |
| P-20    | PASS   | --- |  |
| P-21    | PASS   | --- |  |
| P-22    | PASS   | --- |  |
| P-23    | PASS   | --- |  |
| P-24    | PASS   | --- |  |
| P-25    | PASS   | --- |  |
| P-26    | PASS   | --- |  |
| P-27    | FAIL   | --- |  |
| P-28    | PASS   | --- |  |
| P-29    | PASS   | --- |  |

**GENERAL NOTES**

- THE LOT SHOWN HEREON COMPLIES WITH THE MINIMUM OWNERSHIP WIDTH AND LOT AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT.
- THIS AREA DESIGNATES A PRIVATE SEWAGE DISPOSAL AREA AS REQUIRED BY THE MARYLAND STATE DEPARTMENT OF THE ENVIRONMENT FOR INDIVIDUAL SEWAGE DISPOSAL. IMPROVEMENTS OF ANY NATURE IN THIS AREA ARE RESTRICTED UNTIL PUBLIC SEWER IS AVAILABLE. THIS EASEMENT SHALL BECOME NULL AND VOID UPON CONNECTION TO A PUBLIC SEWER SYSTEM. THE COUNTY HEALTH OFFICER SHALL HAVE THE AUTHORITY TO GRANT ADJUSTMENTS TO THE PRIVATE SEWAGE DISPOSAL AREA. RECORDATION OF A MODIFIED SEWAGE EASEMENT SHALL NOT BE REQUIRED.
- TOPOGRAPHY SHOWN IS BASED ON HOWARD COUNTY GIS AND IS VERIFIED BY BENCHMARK ENGINEERING, INC. AT TIME OF PERC TEST STAKEOUT.
- TO THE BEST OF OUR KNOWLEDGE, ALL WELLS AND SEPTIC SYSTEMS LOCATED WITHIN 100' OF THE PROPERTY BOUNDARIES AND 200' DOWN GRADIENT OF ANY WELL AND/OR SEPTIC HAVE BEEN SHOWN.
- THE PURPOSE FOR THIS PERCOLATION TEST PLAN IS TO CREATE A 10,000 SQ. FT. SEWAGE DISPOSAL EASEMENT AND A 1,500 SQ. FT. WELL BOX FOR LOTS 1-3, EXISTING PARCEL 1, AND PARCEL 2.
- ANY CHANGES TO A PRIVATE SEWAGE EASEMENT SHALL REQUIRE A REVISED PERCOLATION CERTIFICATION PLAN.

**BENCHMARK**  
 ENGINEERS & LAND SURVEYORS & PLANNERS  
**ENGINEERING, INC.**  
 8480 BALTIMORE NATIONAL PIKE SUITE 315 & ELLICOTT CITY, MARYLAND 21043  
 (P) 410-465-0105 (F) 410-465-6644  
 WWW.BE-CVLENGINEERING.COM

OWNER/DEVELOPER: JRNL, LLC 6800 DEERPATH ROAD SUITE 100 ELKRIDGE MD, 21075		SAVAGE PROPERTY PARCELS 1 & 2 LOTS 1-3  2730 JENNINGS CHAPEL ROAD TAX MAP: 13 GRID: 21 PARCEL: 109 ZONED: RC-DEO ELECTION DISTRICT NO. 4 HOWARD COUNTY, MARYLAND	
DESIGN: MP	DRAFT: MP	DATE: AUGUST, 2019	BEI PROJECT NO. 2953
SCALE: 1" = 100'		SHEET 1 OF 1	

**SOILS CHART - SOIL SURVEY HOWARD COUNTY, MARYLAND**

SYMBOL	HYDRIC	HYDROLOGIC GROUP	ALTERNATE GROUP	NAME	k-VALUE
GgB		B		GLENELG LOAM, 3 TO 8 PERCENT SLOPES	0.20
GgC		B		GLENELG LOAM, 8 TO 15 PERCENT SLOPES	0.20
GmB*	YES	C		GLENVILLE SILT LOAM, 3 TO 8 PERCENT SLOPES	0.37
GmC		C		GLENVILLE SILT LOAM, 8 TO 15 PERCENT SLOPES	0.37
GnB*	YES	C	D	GLENVILLE-BAILE SILT LOAM, 0 TO 8 PERCENT SLOPES	0.37/0.32
MaD		B		MANOR LOAM, 15 TO 25 PERCENT SLOPES	0.24
McD		B		MANOR LOAM, 15 TO 25 PERCENT SLOPES, VERY ROCKY	0.24

\* INDICATES HYDRIC SOILS

I CERTIFY THAT THE INFORMATION SHOWN HEREON IS BASED ON FIELD WORK PERFORMED BY ME OR UNDER MY DIRECT SUPERVISION, AND IS CORRECT, TO THE BEST OF MY KNOWLEDGE AND BELIEF.

PLAN PREPARER  
 MARK POTTER  
 FOR BENCHMARK ENGINEERING INC.

