



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____

AP 525242

AGENCY REVIEW: _____

DATE 9/1/2006

DO NOT WRITE ABOVE THIS LINE

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

CHECK AS NEEDED:

- ☐ CONSTRUCT NEW SEPTIC SYSTEM(S)
- ☐ REPAIR/ADD TO AN EXISTING SEPTIC SYSTEM
- ☐ REPLACE AN EXISTING SEPTIC SYSTEM

CHECK AS NEEDED:

- ☐ NEW STRUCTURE(S)
- ☐ ADDITION TO AN EXISTING STRUCTURE
- ☐ REPLACE AN EXISTING STRUCTURE

CHECK ONE:

- ☐ CREATE NEW LOT(S)
- ☐ BUILD ON AN EXISTING LOT IN A SUBDIVISION
- ☐ BUILD ON AN EXISTING PARCEL OF RECORD

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- ☐ YES
- ☒ NO

☒ EX HOUSE
THE TYPE OF STRUCTURE IS:

- ☒ RESIDENTIAL WITH UNKNOWN PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE (NOTE UNKNOWN IF APPROPRIATE)
- ☐ COMMERCIAL (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/ CUSTOMERS ON ACCOMPANYING PLAN)
- ☐ INSTITUTIONAL/GOVERNMENT (PROVIDE DETAIL OF NUMBERS AND TYPES OF EMPLOYEES/USERS ON ACCOMPANYING PLAN)

PROPERTY OWNER(S) WENDOL A. WILLIAMS

DAYTIME PHONE (443) 465-1397 CELL _____ FAX _____

MAILING ADDRESS 105 MCKINLEY AVE, NEW HAVEN, CT 06515
STREET CITY/TOWN STATE ZIP

APPLICANT JOHN. E. HARMS, JR. & ASSOC, INC,

DAYTIME PHONE (301) 631-2027 EXP 12 CELL (240) 674-7974 FAX (301) 631-2028

MAILING ADDRESS 41 EAST ALL SAINTS ST, SUITE 210, FREDERICK, MD 21701
STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME RIDGE ROAD PROPERTY LOT NO. PRES. PARCEL A

PROPERTY ADDRESS 1259 RIDGE ROAD MT AIRY, MD
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 6 GRID 1 PARCEL(S) 158 (INITIALLY LOT 3) PROPOSED LOT SIZE 337,208 SF

AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN.

TEST RESULTS WILL BE MAILED TO APPLICANT.

Stephannie Demicheli
SIGNATURE OF APPLICANT

HOWARD COUNTY HEALTH DEPARTMENT, BUREAU OF ENVIRONMENTAL HEALTH, WELL AND SEPTIC PROGRAM
7178 COLUMBIA GATEWAY DRIVE COLUMBIA, MARYLAND 21046 (410) 313-2640 FAX (410) 313-2648
TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH



Howard County
Health Department

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☐ ADDITION TO AN EXISTING STRUCTURE
☐ REPLACE AN EXISTING STRUCTURE

IS THE PROPERTY WITHIN 2500' OF ANY RESERVOIR?

- ☐ YES
☒ NO

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PROPERTY OWNER(S) WENDOL A. WILLIAMS

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STREET CITY/TOWN STATE ZIP

APPLICANT'S ROLE: DEVELOPER BUILDER BUYER RELATIVE/FRIEND REALTOR CONSULTANT

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME RIDGE ROAD PROPERTY LOT NO. 2

PROPERTY ADDRESS 1259 RIDGE ROAD MT AIRY, MD
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 6 GRID 1 PARCEL(S) 158 (LOT 3) PROPOSED LOT SIZE 58,134 SF

AS APPLICANT, I UNDERSTAND THE FOLLOWING: THE SYSTEM INSTALLED SUBSEQUENT TO THIS APPLICATION IS ACCEPTABLE ONLY UNTIL PUBLIC SEWERAGE IS AVAILABLE. THIS APPLICATION IS COMPLETE WHEN ALL APPLICABLE FEES AND A SUITABLE SITE PLAN HAVE BEEN RECEIVED. I ACCEPT THE RESPONSIBILITY FOR COMPLIANCE WITH ALL M.O.S.H.A. AND "MISS UTILITY" REQUIREMENTS. APPROVAL IS BASED UPON SATISFACTORY REVIEW OF A PERC CERTIFICATION PLAN. TEST RESULTS WILL BE MAILED TO APPLICANT.

Stephane Delucchi
SIGNATURE OF APPLICANT

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TDD (410) 313-2323 TOLL FREE 1-877-4MD-DHMH



Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-899-313-6300
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

December 18, 2006

Wendol A. Williams
105 McKinley Avenue
New Haven, CT 06515

RE: RIDGE ROAD PROPERTY, PERCOLATION TEST RESULTS, A-525242

Dear Mr. Wendol A. Williams,

Percolation testing was conducted on the subject property on November 14, 15, and 16, and on December 5, 6 and 7, 2006. Designated areas were tested on each of six proposed subdivision lots. Sand mound tests were conducted on Lots 3, 4, 5 and 6, and conventional percolation testing was conducted on Lots 1 and 2. The Preservation Parcel has not been tested yet.

Sand mound tests were mostly unsatisfactory. Three mound sites had been designated on each of four proposed lots along the east boundary of the subject property. On Lot 4 all three sand mound sites failed due to very slow infiltration rates, and on Lots 3, 5 and 6, two sand mound sites failed due to very slow percolation rates for one or both of the paired test locations designated for each sand mound. On each of three proposed lots, one sand mound site was failed because of topographic location, as follows: Lot 3, within 25 feet of rock outcrop; Lot 5, posited on shoulder that seeps water; Lot 6, posited on concave slope. A layer of sticky clay underlies the soil surface on the proposed Lots 5 and 6, and its properties are consistent across the area. A test of the substratum on Lot 6 revealed that the flaggy, loamy material also has a very slow permeability.

Results of conventional percolation testing on Lots 1 and 2 were mixed. A small contiguous area of satisfactory soil conditions may be delineated near the north boundary of proposed Lot 1 (i.e. near the north boundary of the subject property). This area has about 4000-to-4400 square feet, perhaps large enough for two systems serving a 4 bedroom house. No other contiguous areas of suitable soil conditions were identified by conventional testing on Lots 1 and 2. The predominant unsatisfactory condition across the area within these lots is rock content greater than 50% within the treatment zone. The rock is (phyllite) shale, occurring both as weathered, fractured layers, and as unweathered beds consisting of 70% or more (by volume) indurate materials. Depth to the bedded shale varies, but is consistently less than 8 feet. Shale veins also occur across the area of Lots 1 and 2, resulting in unsatisfactory conditions for sand mounds as they are within 24 inches of the soil surface and contain greater than 50% consolidated matter (by volume). One suitable sand mound site was identified on proposed Lot 2, and the pair of test locations had passing infiltration rates.

Summarizing the current status of this project, the area of suitable soils for onsite wastewater treatment is very limited on the subject property -large enough to support only one residence. A subdivision will require that 10,000 square feet of suitable soils be identified on the Preservation Parcel as well. Notes recorded in 1972, when the existing septic easement was platted on the preservation parcel, indicate percolation times for four test locations. A soil profile description was not recorded for any of these locations.

Records indicate that the existing system, installed in January 1973, consists of cast iron pipe leading to a septic tank, then to a 14-foot deep dry well and an 11-foot deep trench (with 4-foot deep inlet) leading 50 feet toward Route 27. As this system is very old and of outdated design, it is desirable at this time to identify sufficient area of suitable soils on the Preservation Parcel to accommodate 3 septic systems, i.e. a primary system and two replacement systems. The Preservation Parcel was not tested in November or December because its area lies within a soil mapping unit (GmB, Glenville series) that is considered wet-season soils. The proposed Preservation Parcel's septic easement may be tested in March 2007. At the time that the Preservation Parcel is percolation tested, the existing well will also be evaluated for compliance with current construction standards.

I have enclosed copies of the field worksheets for the portion of this project that has been completed. I am sending copies of these worksheets to Stephanie Demchik at John E. Harms, Jr. & Associates, Inc., Frederick, Maryland. If you have any questions regarding this matter, please contact me at the above address or by calling (410) 313-2691.

Respectfully,



Robert C. Bricker, Jr., CPSS
Well and Septic Program
Development Coordination Section

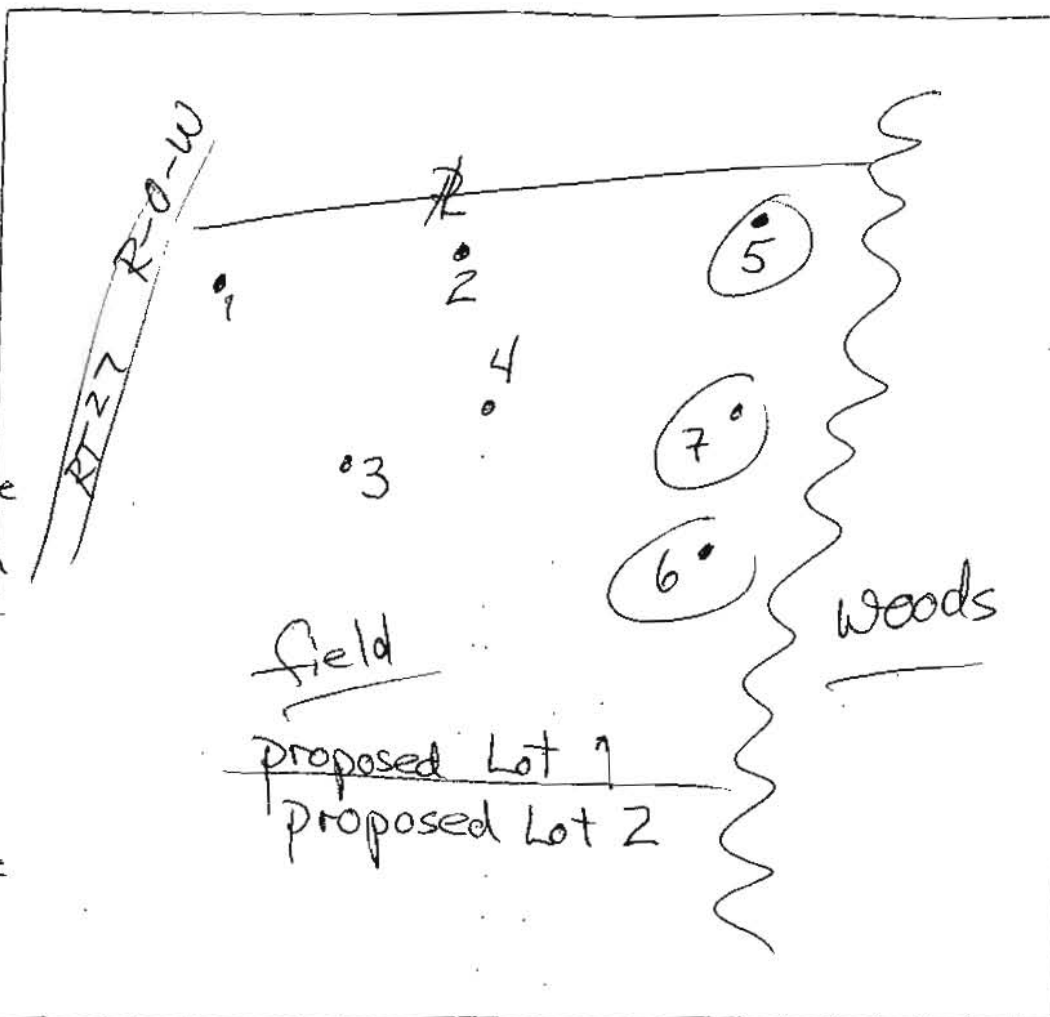
Enclosure

CC: Stephanie Demchik, John E. Harms, Jr. & Associates, Inc.
File

525242

2.2
#5
0.5' brn cl
shale vch
grey sil
80% rock
1.5' brn vch
sticky
3' brn vch
clay coatings
5' 80% green-blue
shale
quartz intrusion
7'±

#6
0.5' dk brn sil
vch sil
2' red-brn sil
70% green-blue
shale vein
4' brn sil
50% flags
(weathered shale)
7.5' pockets
brn/yel sil
brn sil
60% flags
weathered
12'±



#7
0.5' brn sil
brn chs sil
com. fine roots
1.5' brn loam
50% flags
weathered
few fine roots
4' blue-grey sil
saprolite
w/ 60% green-
blue flags
8.5' green-blue
shale cemented
9'±

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
11/14/06	5	Fail-Visual				rock content	F
11/14/06	6	5'12"	Ø	1:00	2:00	1:00	F
11/14/06	7	5'9"	Ø	—	0:14	<0:14	F

REMARKS

1259 Ridge Rd., Lot 1 page 2

SANITARIAN

RB/at

BACKHOE

Bob & Ryan (Fyock)

OTHERS

S. Douck

TEST HOLES USED IN SDA

none

AVG. PERC TIME

SQ. FT/BR

TRENCH WIDTH

INLET DEPTH

MAX. BOT DEPTH

EFFECTIVE CAN

525242

2.3

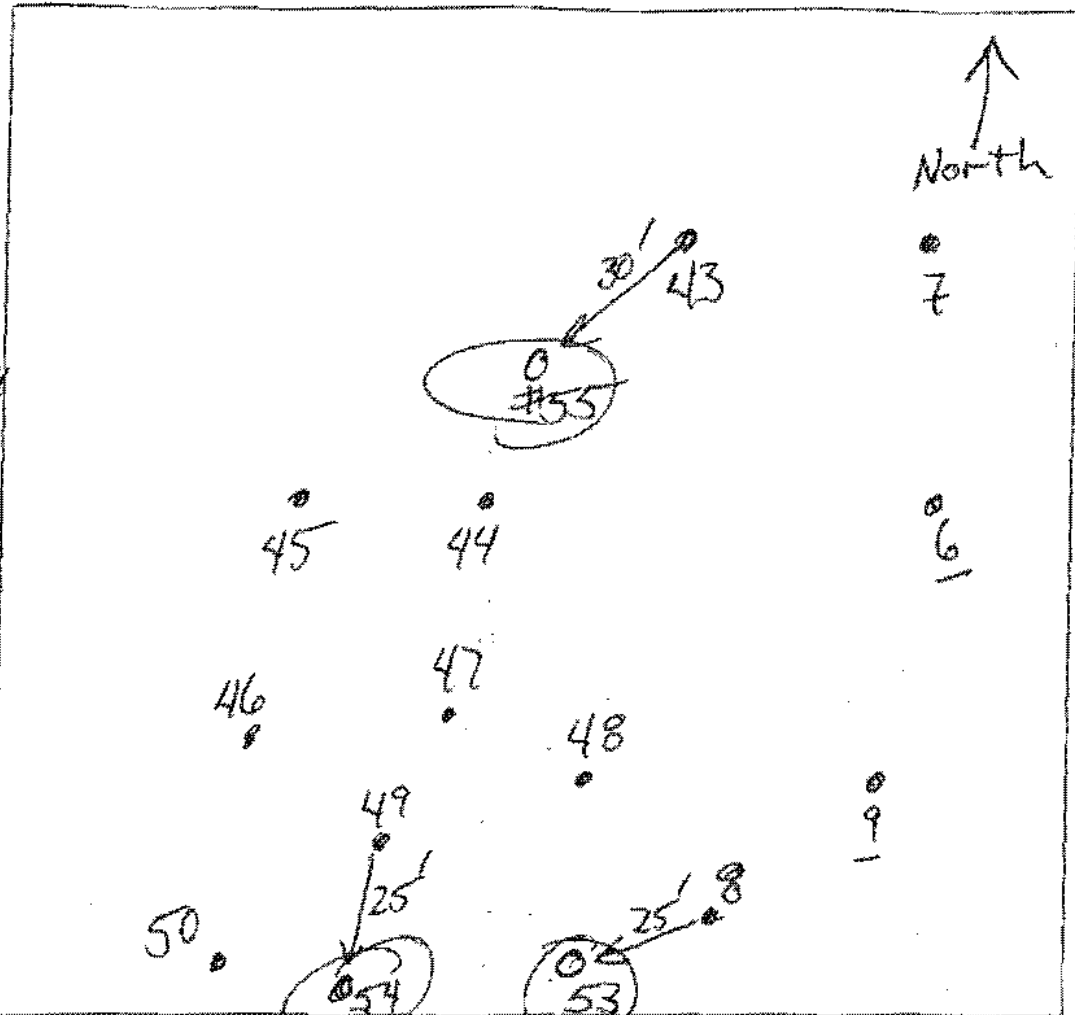
#53

brn sil
red brn
ch sil14" \rightarrow 50%
flags
& stones

#54

brn sil
red brn
ch sil16" \rightarrow 50%
flags
& stones

#55

brn loam
red brn
sil8" \rightarrow Vertical
shale
50% to 80%
flags

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
12/6/06	Explorations for sand mound sites						
	53	Visual	Fail	rock			F
	54	Visual	Fail	rock			F
	55	Visual	Fail	rock			F

REMARKS

Soil excavations/evaluations for potential mound

SANITARIAN

RJB

12/6/06

BACKHOE

Rob, Ryan

OTHERS

S. Deuschek

TEST HOLES USED IN SDA

None

AVG. PERC TIME

SQ. FT/BR

TRENCH WIDTH

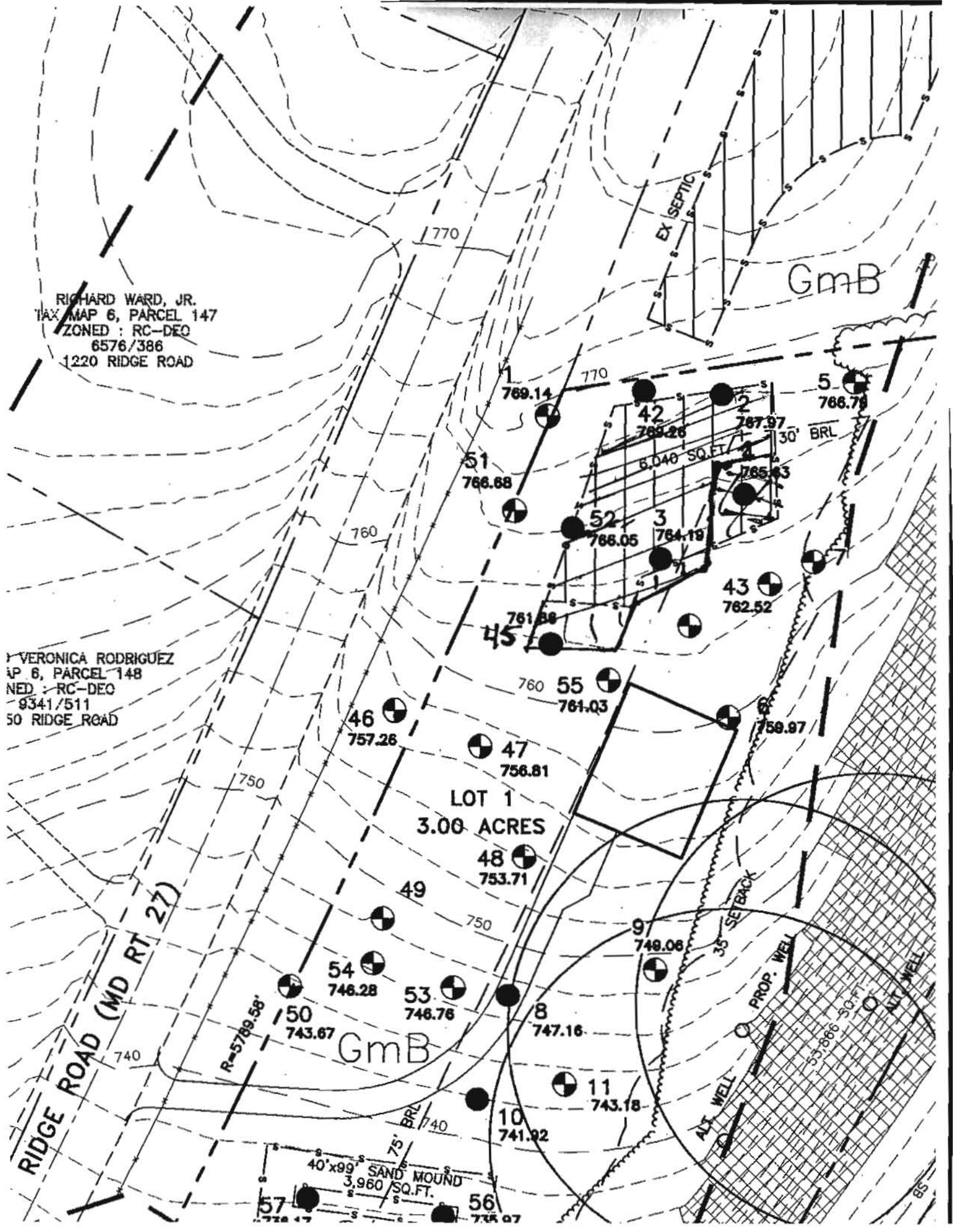
INLET DEPTH

MAX. BOT DEPTH

EFFECTIVE S/W

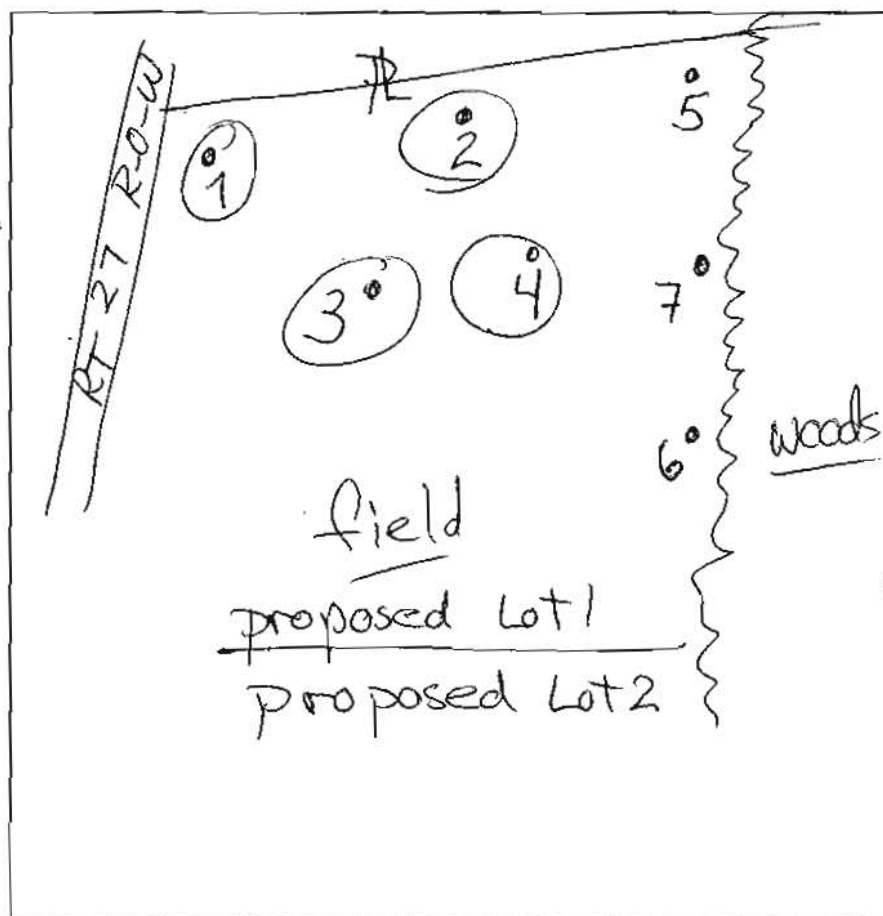
RICHARD WARD, JR.
TAX MAP 6, PARCEL 147
ZONED : RC-DEO
6576/386
1220 RIDGE ROAD

VERONICA RODRIGUEZ
TAX MAP 6, PARCEL 148
ZONED : RC-DEO
9341/511
50 RIDGE ROAD



525242

A/P



#2

0.5' brn sic
yel-brn sic
common medium roots

2.5' yel-brn sil
saprolite
2 fpl
bugles red sil
few fine roots

4' red-brn chsil
saprolite
20% channers

6' brn vch sil
50% channers
& flags

12.4' ↓

#4

1' brn loam
yel-brn chsil
few fine roots

2.5' brn loam
& pockets
yel-brn sil
35% flags
& channers

4.5' brn vch
50% flags
& channers

* 7.5' brn loam
75% flags

8.5' bedded shale
green-blue

9.5' R R

#1

0.5' brn chsil
brn chsil

2' vch sil
35% channers
& flags

4' few med. roots
yel-brn &
red-brn vfl sil
45% flags

6' exfl sil
65% flags

9.5' R R

#3

0.5' brn loam
yel-brn
chsil
com. fine roots

2.5' dk. red sil
saprolite
few med roots
flaggy, 30%

6' yel-brn fl sil
50% shale
weathered

11' R R

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
11/14/06	3	5' 1/2	Ø	1:30	5:00	3:30	P
	4	4.5' / 9.5'	Ø	7:00	19:30	12:30	FF
	4	6' / 9.5'	Ø	1:00	3:00	2:00	FF
	1	4.5' / 9.5'	Ø	21 min, 3/4"			F
11/14/06	3	4.5' / 11'	Ø	4:00	11:00	7:00	P

see
profile:
< 50% rock
at 7.5'
ref
6/29/07

REMARKS 1259 Ridge Rd. Lot 1, page 1

SANITARIAN RB/at BACKHOE Bob & Ryan (Forked) OTHERS S. Domchek

TEST HOLES USED IN SDA 2, 3, 4 @ 4.5' max. AVG. PERC TIME 7:30 SQ. FT/BR

TRENCH WIDTH INLET DEPTH MAX. BOT DEPTH EFFECTIVE SW

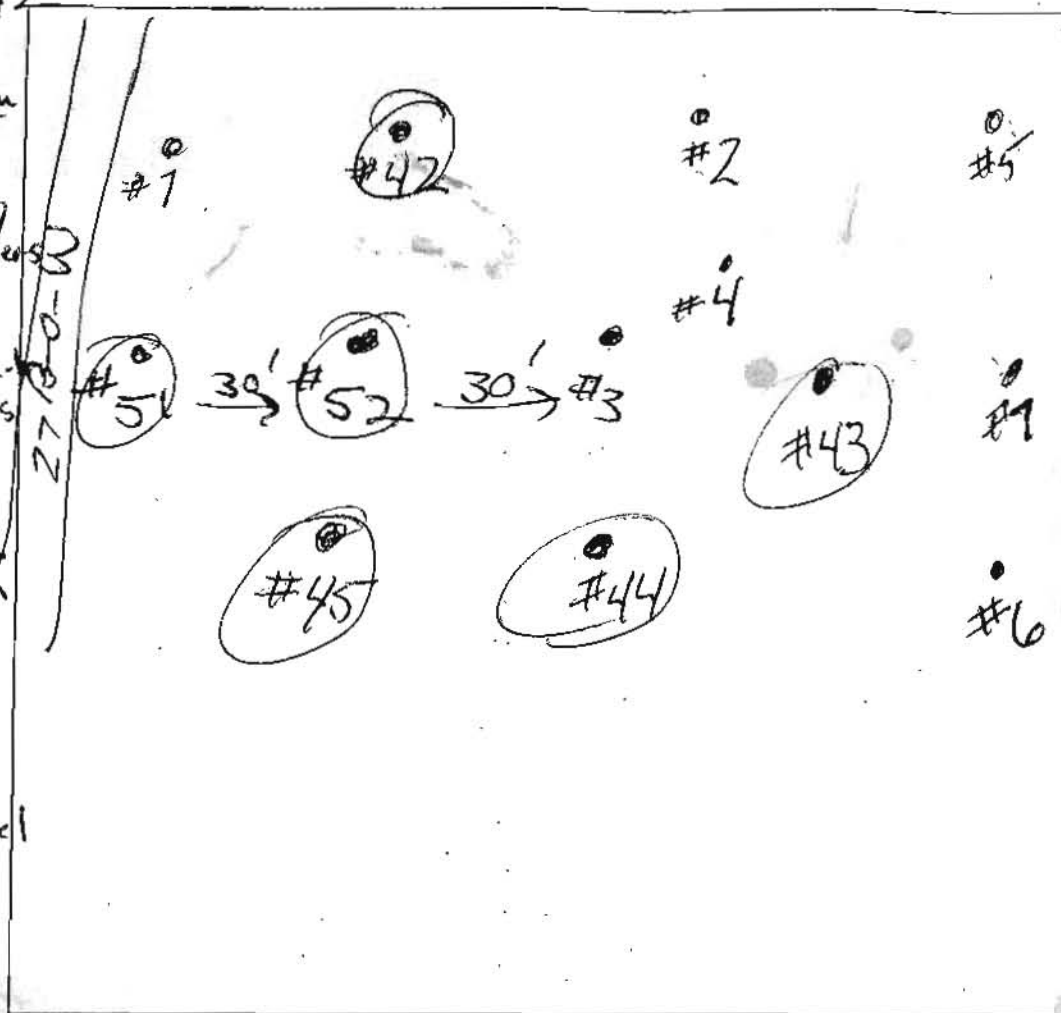
525242

51' dk brn loam
 8" brn sil
 1 msbk
 6.5' red-brn sil
 10% channels
 5.2' shale vein
 45% sil red
 clay coatings
 6.7' brn sil
 shale
 45%
 R

45' brn loam
 9" brn sil
 2' 30% gravel
 dk red
 2 brn-yel
 saprolite
 7' brn sil
 Saprolite
 10% channels
 10.5' brn sil
 shale increasing
 12.5'

52' brn loam
 44' 12g
 2' brn sil
 1 msbk
 sil
 dk red &
 brn-yel
 10% channels
 few fine roots

9' brn sil
 45% shale
 weathered
 11.5'



42' brn loam
 8' 1fg & fsk
 1.5' brn sil
 1 msbk
 4' red-brn
 ch sil
 15% gravel
 dk red
 4 brn-yel
 sil saprolite
 5% quartz
 8' brn sil
 10% shale floss
 12' 43' 5' brn loam
 1' brn sil
 3.5' red brn
 sil 1 msbk
 brn loam
 shale
 50% - 60%
 brn loam
 shale 70%
 shale 90%
 brn-yel
 9' R

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2nd INCH	P/F/H
12/6/06	42	4.2' / 12'	0	20	< 1"	—	F
12/6/06	(42)	5' / 12'	0	10	30	20	P
12/6/06	43	@ 5'	> 50% rock (bedded shale)				F
12/6/06	44	@ 2.5'	bedded shale (dark grey)				F
12/6/06	(45)	5.5' / 12.5'	0	2.5 min	8 min	5.5 min	P
12/6/06	51	5' / 8.5'	0	20	< 1"	—	F
12/6/06	52	4.2' / 11.5'	0	20	< 1"		F
12/6/06	(52)	5.5' / 11.5'	0	7.5 min	21 min	13.5 min	P

44' 50' S#3
 1' brn sil
 1' brn sil
 2 msbk
 irregular
 boundary
 1.7' to 2.2'
 bedded
 shale > 80%
 clay
 coatings

REMARKS Additional percs for Lot 1
 SANITARIAN RB BACKHOE Bob & Ryan OTHERS Stephanie D.
 TEST HOLES USED IN SDA 42, 45, 52 at 2.5' AVG. PERC TIME 13 min SQ. FT/BR
 TRENCH WIDTH INLET DEPTH MAX. BOT DEPTH EFFECTIVE S/W

MOUND TEST DATA SHEETS

Property I.D. 1259 Ridge Rd Lot # 1 Date 12/7/06

Sanitarian RB Landscape Position side slope

% Slope 9 Soil Type _____ Contractor Bob & Ryan

HOLE # 56 DEPTH OF TEST 15" START TIME _____

2" brn loam
gr sil, brn
2 v fsk
9" red-brn
ch sil 1 fsk
25% channels
25" 35% channels
red, brn ch sil
1 fsk
44" brn sil, sh
55% shale
weathered
clay coatings
65" 4"

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
9 16/16	0			
9 15/32	6	12/32		
9 4/16	6	13/32		
8 10/16	6	14/32		
8 9/32	6	11/32		
7 27/32	6	14/32		
7 15/32	6	14/32		
7 4/32	6	11/32		
6 26/32	6	10/32		
6 15/32	6	11/32		

} 1" 18 min
Pass

HOLE # 57 DEPTH OF TEST 12" START TIME _____

2" brn cl
brn sil
2 v fsk
9" red-brn
ch sil, 1 fsk
20%
20" red-brn ch sil
1 fsk
30% channels
48" brn sil
shale ~50%
weathered
54" 4"

Hook Gauge Reading	Elapsed Time (min)	Measured Drop	Estimated Rate	% Change
9 16/16	0			
9 13/16	6	3/16		
9 21/32	6	5/32		
9 17/32	6	4/32		
9 15/32	6	2/32		
9 11/32	6	4/32		
9 7/32	6	4/32		
9 4/32	6	3/32		
9 -	6	4/32		

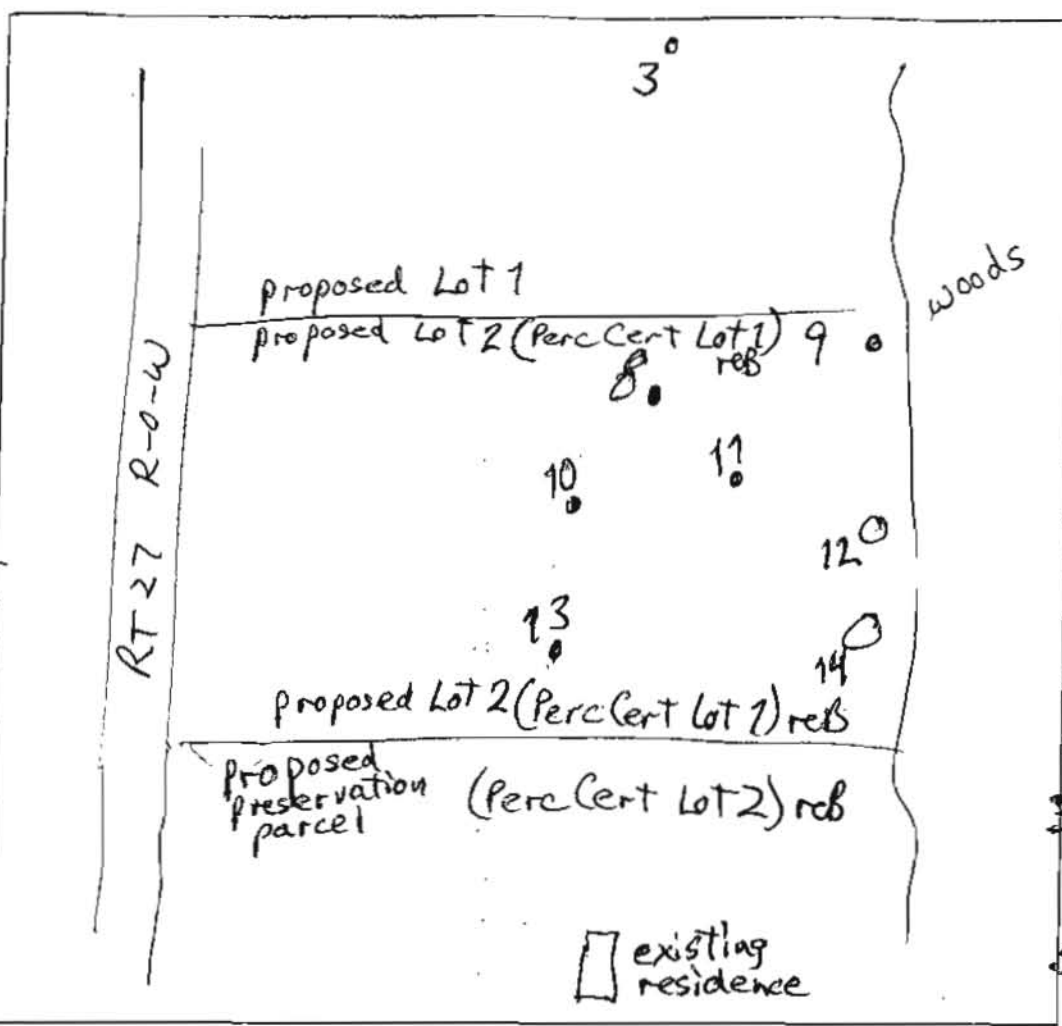
} 1" 48 min
Pass

D-525242

#9
0.5' dk brn silt
vch silt
yel-brn
common fine
ROOTS
4' brn silt
& shale, 70%
weathered
bedded
7' brn loam
& shale, 70%
platy, bedded
9' R

#8
0.5' brn cl
red-brn silt
35% channels
& flags
1.5' yel-red silt
45% channels
& flags
3' red-brn
silt
60% weathered
shale
no voids
8' bedded shale R

#10
0.5' brn cl
brn silt
1.5' yel-red
vch silt
40%
3.5' yel-red silt
60% weathered
shale, clay
coatings
6.5' yel-red silt
red-yel silt
lense, saprolite
60% yellowish
shale
clay coatings
0.5' R



#11
0.5' brn silt
brn vch silt
45%
3' yel-red silt
yel-brn silt
lense, saprolite
60% shale flags
5' brn fill
60% flags
6' brn loam
75% shale
9.5' R
#13
0.5' brn l
brn & red-brn
ch silt
70%
3.5' yel-red
silt
40% channels
& flags
5.5' yel-red silt
shale vein
quartz intrudes
6' brn silt
75% shale
weathered
8' green-blue
bedded shale

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DRCP	TIME OF 2nd INCH	P/F/H
11/14/06	9	4.5' / 9'	0	8	>38	>30	F
11/16/06	8	4.5' / 8'	0	4	8.5	4.5	P
11/16/06	10	5' / 10'	0	10	30	20	P
	11	5' / 9.5'	min: Sec 27:30	min: Sec 45:30	18 min	<1"	F
	13	5' / 8'	0	2	5	3	P
11/16/06	13	6.5' / 0'	0		min: Sec 0:15		F

REMARKS: 1259 Ridge Rd, Lot 2; Did not perc #12 & #14

SANITARIAN: Robert B

BACKHOE: Fyock (Bob, Ryan)

OTHERS: S. Denechik

TEST HOLES USED IN SDA: #8 & #10

AVG. PERC TIME: _____

SQ. FT/BR: _____

TRENCH WIDTH: _____

INLET DEPTH: _____

MAX. BOT DEPTH: _____

EFFECTIVE S/W: _____

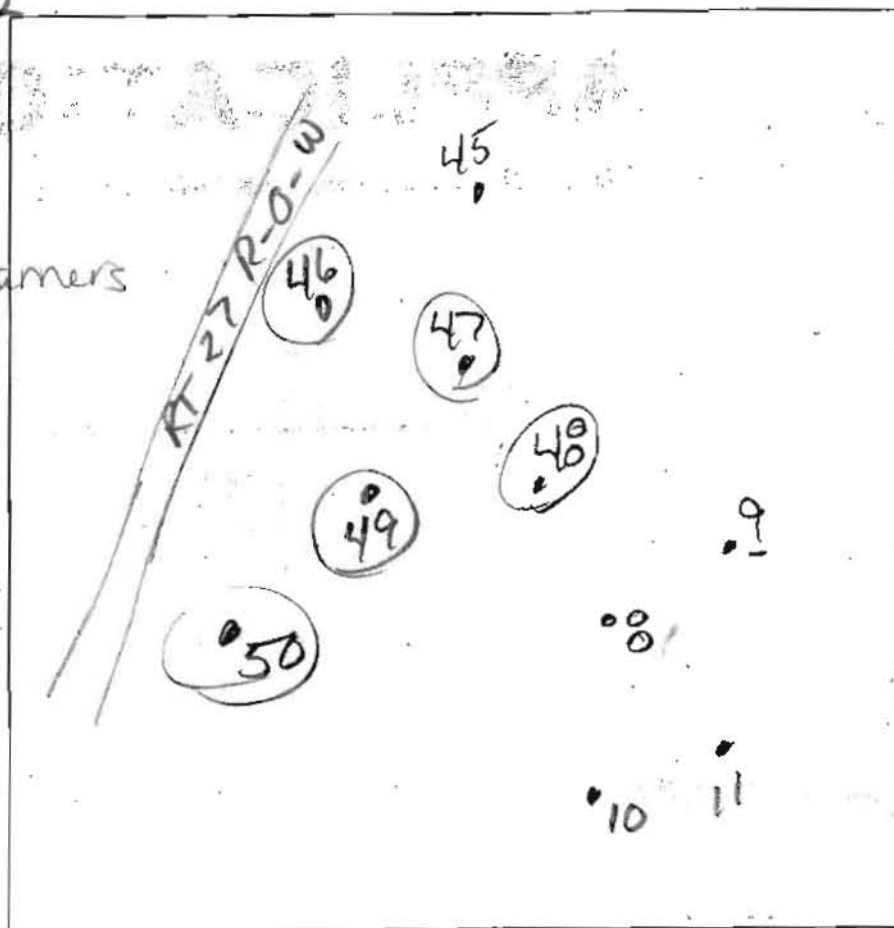
AP 525242

46
8" Brn loam
gravelly
3' Brn sil
40% shale channers
5' Brn sil
100% shale
channers
6' Brn loam
80% shale
channers
w/ saprolite
9'

47
2.5' Brn sil
60% shale ch.
5' St cen
saprolite
Brn sil

7' 80%
shale
ch.
9' Brn sil

48
6" Brn loam
gravelly
Brn
gr sil
1.5' Brn
sil
70%
shale
ch.
3'



49
4' DK Brn
11' Brn sil
Brn sil
40% shale ch.
4.0' Saprolite
Brn sil
5.2' 50-60%
shale ch.
7.5' shale bed
9' HB

50
4" DK Brn sil
1' Brn sil
Brn
sil
4.0' sil Brn
saprolite
5.5' 60-70%
shale ch.
7.5' 80% shale
ch.

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
12/6/56	46	>50% rock @ 5'					F
	47	>50% rock					F
	48	>50% rock @ 1.5'					F
	49	>50% rock @ 5.2'					F
	50	>50% rock @ 5.5'					F

REMARKS Proposed Lot 2 (Per Cent Lot 1) reb
SANITARIAN AT/RB BACKHOE Bob, Ryan (Frocks) S, Demchek
TEST HOLES USED IN SDA none AVG. PERC TIME SQ. FT/BR
TRENCH WIDTH INLET DEPTH MAX. BOT DEPTH EFFECTIVE SW

