



APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

TEST DATE(S) _____ TEST TIME _____ A/P _____

AGENCY REVIEW: _____ DATE _____

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

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) Robert Williams

DAYTIME PHONE 410 465 5366 CELL _____ FAX _____

MAILING ADDRESS 13110 GREENBERRY LANE CLARKSVILLE MD 21029
STREET CITY/TOWN STATE ZIP

APPLICANT MILDENBERG, BOENDER & ASSOC., INC.

DAYTIME PHONE 410 997 0296 CELL 1 FAX 410 997 0298

MAILING ADDRESS 6800 Deerpath Rd Elkridge, MD 21075
STREET CITY/TOWN STATE ZIP

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

PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME GREENBERRY LOT NO. 2

PROPERTY ADDRESS 13110 GREENBERRY LANE CLARKSVILLE MD 21029
STREET TOWN/POST OFFICE

TAX MAP PAGE(S) 28 GRID _____ PARCEL(S) 48 PROPOSED LOT SIZE 1A±

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.

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



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STREET CITY/TOWN STATE ZIP

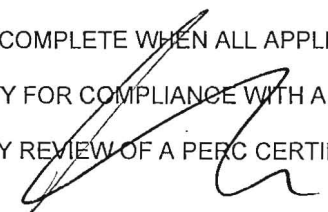
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PROPERTY LOCATION
SUBDIVISION/PROPERTY NAME GREENBERRY LOT NO. 2

PROPERTY ADDRESS 13110 GREENBERRY LANE CLARKSVILLE MD 21029
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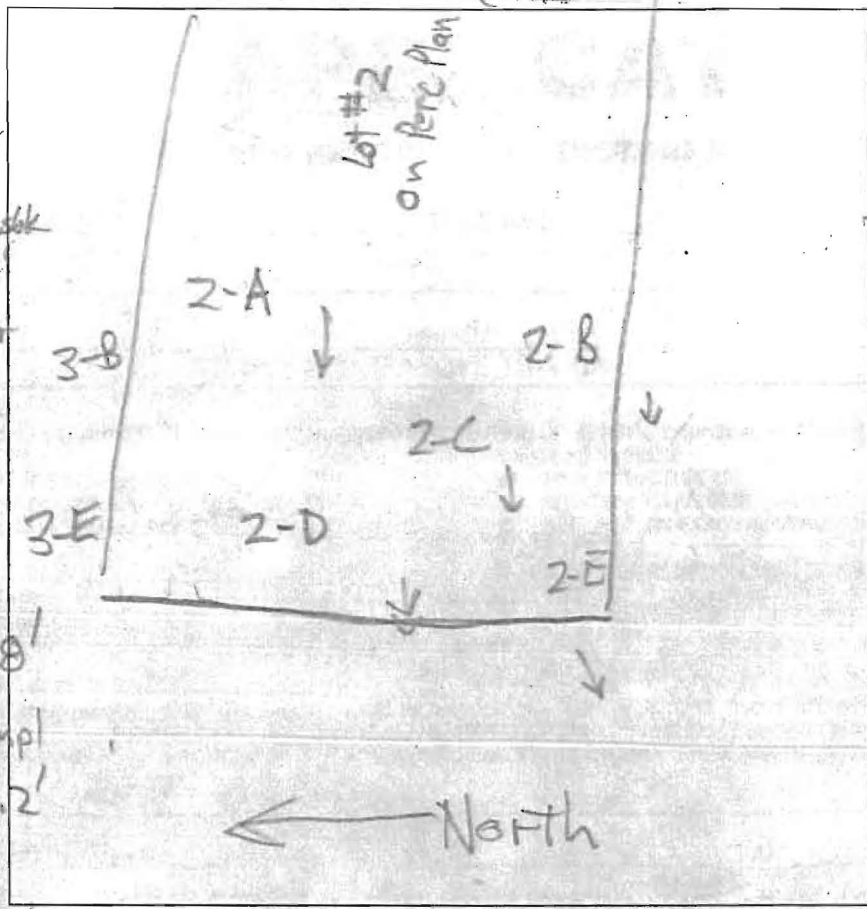

SIGNATURE OF APPLICANT

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

Greenberry Lot 2

AVP

2-D



0.5' dk brn L gm
 2.2' brn cl, 2msbk
 1' brn L &
 3' 1/2' red & yel sl
 5' yel-brn gr sl
 5' gm dense
 1' yel-red tan
 1' ls mica
 6.5' red, blk tan
 1' ls, many mica
 10.2' red tan ls
 micaeous m/p (blk)
 13.2' 1 black coats

2-C

2' dk brn L, 2spl
 brn cl, 2msbk
 2' brn gr, 2fsl
 2' pale yel-brn
 gr, gm
 3.3' dense
 10.9' red, blk tan
 ls, many mica
 12.5' red & grey
 ls, 1 m/p
 micaeous

2-B

0.4' dk brn L, gm
 1.9' brn gr, 2msbk
 brn L, 2fsl
 3.5' blk & blk sl
 fsl common mica
 6' red, blk tan
 ls, many mica
 13.2' grey brn & blk
 chsl, many mica

2-E

dk brn L, gm
 to brn L 0.8'
 2.2' yel-brn cl, 2msbk
 3' yel-brn cl
 quartzite boulder
 fsl
 3' brn & blk
 fsl common mica
 dense, gm
 5' red, blk tan
 ls, many mica
 8.8' red & grey ls
 m/p (blk), 1 m/p
 micaeous
 12.2' pale red
 & grey ch ls
 micaeous moist
 13.5'

2-A

0.4' dk brn L, 2spl
 1.3' brn cl, 2msbk
 1.8' brn L, 2msbk
 3' brn & blk sl
 2 fsl
 3.4' brn fsl, gm
 9.1' red, blk tan
 ls, many mica
 9.7' yel-red ls
 many mica
 12.5'

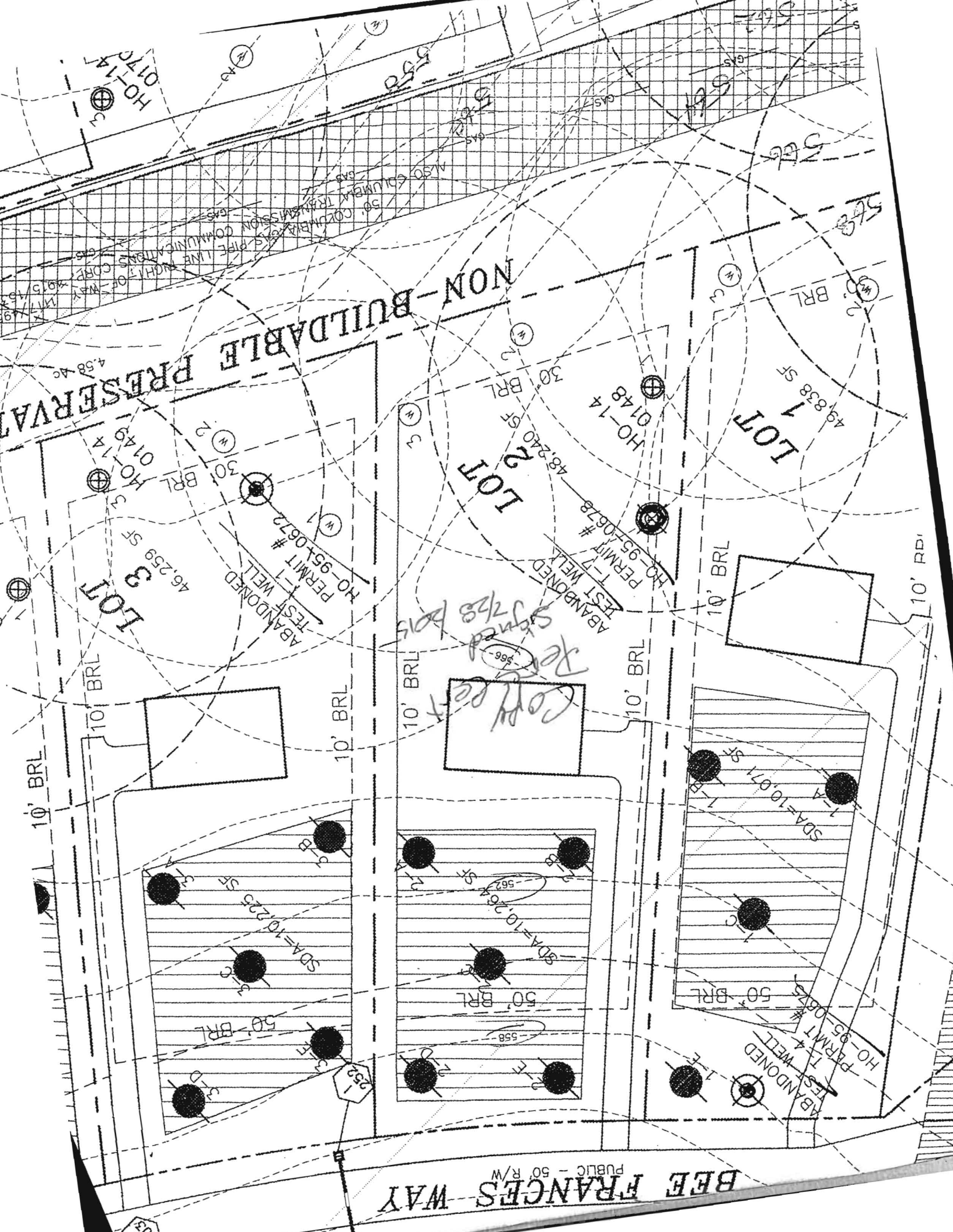
DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
10/26/12	2-E	13.5'	Visual	5' to 8' OK 1.2 gpd/ft ²			P
10/26/12	2-D	5.9' / 13.2'	3:27	3:31	3:41	10	P
10/26/12	2-A	5' / 12.5'	3:45	3:47	3:50	3	P
10/26/12	2-C	5' / 12.5'	3:46	3:48	3:51	3	P
10/26/12	2-B	13.2'	Visual	2' - 8' OK 1.2 gpd/ft ²			P

REMARKS _____

SANITARIAN RR BACKHOE JBA OTHERS Jacob Hikmat

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

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____



NON-BUILDABLE PRESERVATION

LOT 1

LOT 2

LOT 3

BEE FRANCES WAY
Public - 50' R/W

Copy set

Signed 7/28/05

ABANDONED TEST WELL
PERMIT # HO-95-10672

ABANDONED TEST WELL
PERMIT # HO-95-10678

ABANDONED TEST WELL
PERMIT # HO-95-10675

50' BRL
SDA=10,225 SF
A
B
C
D

50' BRL
SDA=10,264 SF
A
B
C
D

50' BRL
SDA=10,071 SF
A
B
C
D

HO-14
0149

HO-14
0148

HO-14
0147

4.58 Ac

48,240 SF

49,838 SF

46,259 SF

10' BRL

10' BRL

10' BRL

10' BRL

10' BRL

10' BRL

33

552

558

566

562

HO-14
0170

HO-14
0175

HO-14
0176

HO-14
0177

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0178

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0197

HO-14
0198

HO-14
0199

HO-14
0200

HO-14
0201

HO-14
0202

HO-14
0203

Greenberry Lot 2

A/P

(2E)

dk brn L qm
to brn L 0.8'

red yel-brn cl, 2msbk 5.2'

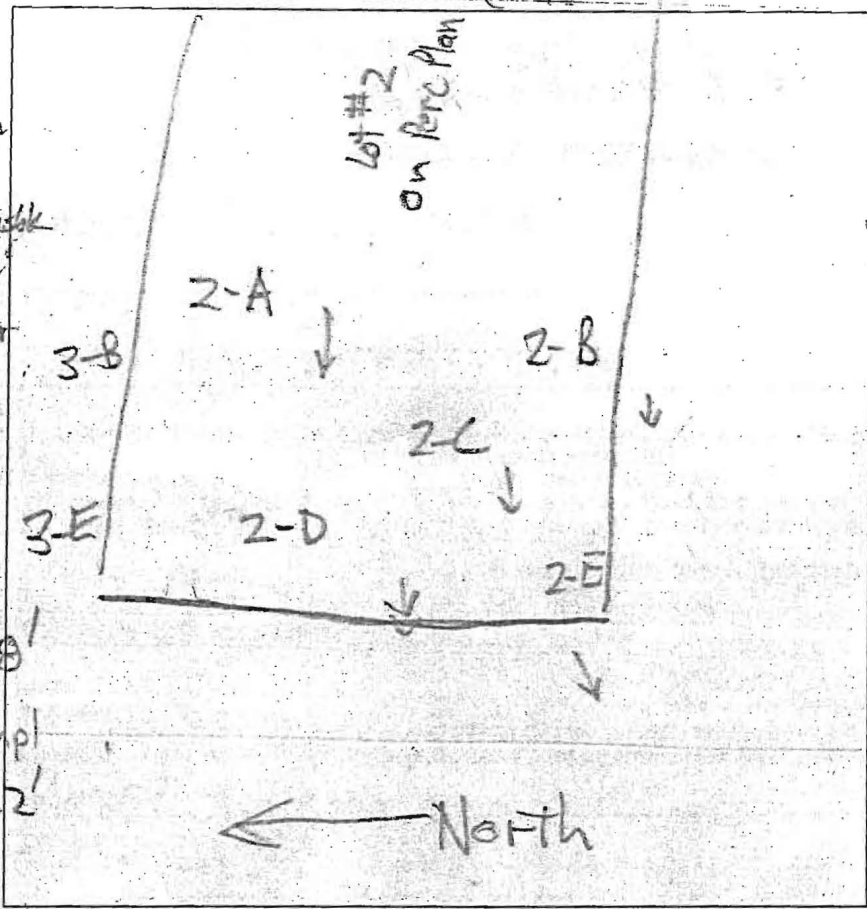
yel-brn cl
quartzite boulder
fsbk 3'

brn & blk
fsl common
dense, 2msbk 5.1'

red, blk tan
ls many mica 8.8'

redd grey ls
mtp (blk), 1 mpl
micaceous 12.2'

pale red
& grey ch. ls
micaceous
moist 13.5'



(2-D)

0.5' dk brn L qm

2.2' brn cl, 2msbk

3' brn L &
yel-red yel sl

5' yel-brn gr sl
qm dense

1.5' yel-red tan
ls many mica

6.5' red, blk tan
ls many mica

10.2' redd tan ls
micaceous
mtp (blk)
& black coats

(2-C)

0.4' dk brn L, 2cpl
brn cl, 2msbk

1.3' brn L 2msbk

1.8' brn & blk sl

3' brn fsl, qm

3.4' red, blk tan
ls, many mica

9.7' yel-red ls
many mica

12.5' pale red
& grey ch. ls
micaceous

(2B)

0.4' dk brn L, qm

1.9' brn gr, 2msbk
brn L, 2msbk

3.5' brn & blk sl
fsbk common
mica

6' red blk tan
ls many mica

13.2' grey-brn & blk
chsl many mica

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
10/26/12	2-E	13.5'	Visual	5'	10.8' OK 2 good	cr. 2	P
10/26/12	2-D	5.9' / 13.2'	3:27	3:31	3:41	10	P
10/26/12	2-A	5' / 12.5'	3:45	3:47	3:50	3	P
10/26/12	2-C	5' / 12.5'	3:46	3:48	3:51	3	P
10/26/12	2-B	13.2'	Visual		2' - 3' OK 1.2 good		P

REMARKS _____

SANITARIAN RR BACKHOE JBA OTHERS Jacob Hikmat

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

TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SAW _____

Oswald, Hank

From: Jacob Hikmat <jhikmat@hotmail.com>
Sent: Monday, March 09, 2015 10:12 AM
To: Oswald, Hank; Todd Hill
Cc: Maya Mildenberg; Williams, Jeffrey
Subject: RE: Greenberry, Lot 2
Attachments: lot 2 quality.pdf

Hank, Jeff

Good morning again.

Attached is the test results for lot 2 as required by the perc plat. As you can see, there were no detection of any chemicals. (ND).

Please let me know if this is sufficient or if you need a paper copy.

The well for lot 2 was successfully drilled with a 2.1 gallons per minute yield. Completion report is being submitted by the driller.

Thanks

R. Jacob Hikmat, P.E.
President
Mildenberg, Boender and Associates, Inc.
7350 Grace Drive, Suite B
Columbia, MD 21044
(410) 997-0296
(443) 538-9547 (Cell)

From: hoswald@howardcountymd.gov
To: jhikmat@hotmail.com; thill@mba-eng.com
CC: maya@mba-eng.com; jewilliams@howardcountymd.gov
Subject: RE: Greenberry, Lot 2
Date: Fri, 6 Mar 2015 18:40:38 +0000

If your changing the sidewall reduction credit to 0.38 then the total linear feet of trench should be 110.83 not 180.84 Also, I couldn't find the "certification note" on the revised plan stating that the manufacturer certifies this unit is adequate for this particular design at 7 bedrooms.

From: Jacob Hikmat [<mailto:jhikmat@hotmail.com>]
Sent: Wednesday, March 04, 2015 9:52 AM
To: Oswald, Hank; Todd Hill
Cc: Maya Mildenberg; Williams, Jeffrey
Subject: RE: Greenberry, Lot 2

Good morning Hank, Jeff

Do you need any additional items to sign off on the BAT plans?

Please advise.

Thanks

R. Jacob Hikmat, P.E.
President
Mildenberg, Boender and Associates, Inc.
7350 Grace Drive, Suite B
Columbia, MD 21044
(410) 997-0296
(443) 538-9547 (Cell)

From: hoswald@howardcountymd.gov
To: jhikmat@hotmail.com; thill@mba-eng.com
CC: maya@mba-eng.com; jewilliams@howardcountymd.gov
Subject: RE: Greenberry, Lot 2
Date: Thu, 26 Feb 2015 14:06:55 +0000
Hi Todd:

According to the trench data chart on the plan, the figures show an invert at 3.5 ft. and a bottom maximum depth of 5.5 ft. This is acceptable except you aren't using the maximum side wall credit of 0.38 (with a bottom trench depth of 8 ft.). Therefore, the trench length requirement will be greater than a design with an effective depth of 4.5 ft.

Ex. If the invert is at 3.5 ft. and the bottom of the trench is at 8 ft. then the effective depth is 4.5 ft. Utilizing the formula $W+2/W+1+2(D)$, the side reduction wall credit = $3 + 2 / 3+1+2(4.5) = 5/13 = 0.38$ (not 0.62) reducing the required trench length from 180.84 to 110.83

If you don't wish to change the effective depth/calculations on the plan, then all we need added at this point is a "certification note" stating that the manufacturer certifies this unit is adequate for this particular design at 7 bedrooms. You could be done at our office or you may submit a revised BAT plan with the note on it.

Should you have any questions or concerns, please don't hesitate to ask.

Respectfully,

Hank

Hank Oswald, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
410.313.1786

From: Jacob Hikmat [<mailto:jhikmat@hotmail.com>]
Sent: Wednesday, February 25, 2015 1:21 PM
To: Oswald, Hank; Todd Hill
Cc: Maya Mildenberg; Williams, Jeffrey
Subject: RE: Greenberry, Lot 2

Thanks Hank

I really appreciate it.

R. Jacob Hikmat, P.E.
President
Mildenberg, Boender and Associates, Inc.
7350 Grace Drive, Suite B
Columbia, MD 21044
(410) 997-0296
(443) 538-9547 (Cell)

From: hoswald@howardcountymd.gov
To: thill@mba-eng.com
CC: jhikmat@hotmail.com; maya@mba-eng.com; jewilliams@howardcountymd.gov
Subject: RE: Greenberry, Lot 2
Date: Wed, 25 Feb 2015 17:10:06 +0000
Hi Todd:

It's in review. I should have a response for you by this afternoon or tomorrow.

Hank

From: Todd Hill [<mailto:thill@mba-eng.com>]
Sent: Wednesday, February 25, 2015 11:17 AM
To: Oswald, Hank

Cc: 'Jacob Hikmat'; Maya Mildenberg; Williams, Jeffrey
Subject: Greenberry, Lot 2

Good Morning Hank;

The client is asking me daily about the status of this site plan for BAT installation, please let me know if you have any information.

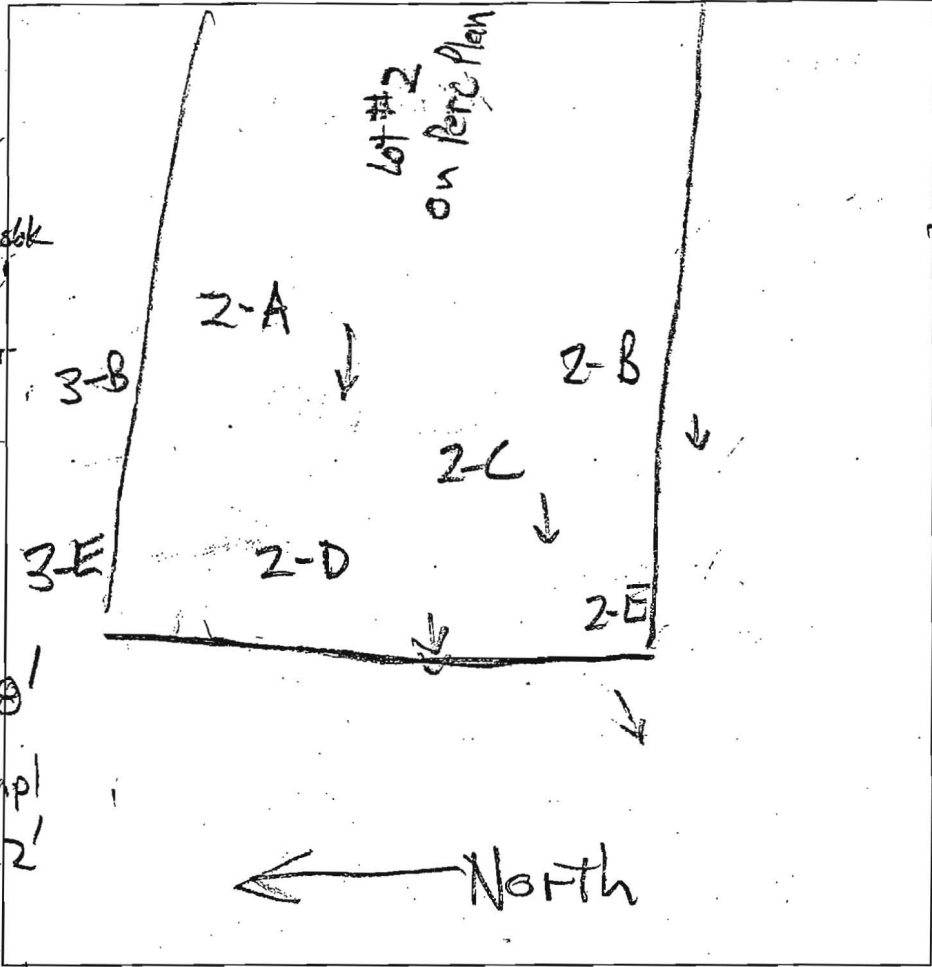
Thanks for all your help.

Todd M. Hill
Prof. Land Surveyor, Project Manager
Mildenberg, Boender & Assoc., Inc.
7350-B Grace Drive, Columbia, MD 21044
(410) 997-0296

A/P

2E

dk brn L 0m
to brn L 0.5'
red yel-brn cl 2msbk
2.2'
yel-brn cl
quartzite boulder
fsbk 3'
brn & blk
psl common
mica
dense, 0m
5'
red, blk & tan
ls many
mica 8.8'
redd grey ls
m/p (blk), 1mpl
micaceous 12.2'
pale red
& grey ch. ls
micaceous
moist 13.5'



0.5' dk brn L 0m
2.2' brn cl, 2msbk
1 yel-red & yel sl
3 yel-brn gr sl
5' 0m dense
yel-red tan
ls many
mica
6.5' red, blk & tan
ls many
mica
10.2' red & tan
ls
micaceous
m/p (blk)
& black coats
13.2'

2-C

2' dk brn L, 2ep
brn cl, 2msbk
brn gr, 2msbk
2' pale yel-brn
gr 0m
dense
3.3' red, blk & tan
ls many
mica
10.9' redd grey
ls 7mpl
micaceous
12.5'

2-A

0.4' dk brn L, 2ep
brn cl, 2msbk
1.3' brn L 2msbk
1.8' brn & blk sl
2 fpl
3' brn psl 0m
3.4' red, blk & tan
ls many
mica
9.7' yel-red ls
many mica
12.5'

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10/26/12	2-D	5.9' / 13.2'	3:27	3:31	3:41	10	P
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10/26/12	2-C	5' / 12.5'	3:46	3:48	3:51	3	P
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2B
0.4' dk brn L, 0m
brn gr, 2msbk
brn L, 2msbk
1.9' brn & blk sl
fsbk common
mica
3.5' red, blk & tan
ls many
mica
6' grey brn & blk
chsl many
mica
13.2'

REMARKS _____

SANITARIAN RR BACKHOE JJA OTHERS Jacob Hikmat

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Bureau of Environmental Health

8930 Stanford Blvd, 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

December 9, 2014

MEMORANDUM

TO: Fogle's Well Drilling, LLC
PO Box 202
Woodbine, MD 21797

Mildenberg, Bender, and Associates, Inc.
7350-B Grace Drive
Columbia, MD 21044

FROM: Sarah Collins SEC
Environmental Health Specialist
Howard County Health Department

RE: Greenberry Well Permits

Please note the following special conditions for the Greenberry subdivision well permits:

The Percolation Certification for the Greenberry subdivision shows circular well boxes for lots 7, 10, 12, 13, 15, 16, 18, and 19. The center of the well box has been staked and the driller is to drill at the outer perimeter of the well box, **22 feet from the center stake.**

All monitoring and test wells shown on the Percolation Certification are to be sealed. Abandonment reports must be submitted with well completion reports.

At the time of the yield test, a water sample needs to be collected for pesticides testing for lots 2, 3, 4, 5, 10, and 12.

At the time of the yield test, a water sample needs to be collected for TDS, sodium, and chloride testing for lots 4, 9, 11, 14, and 20.

Cc: File