

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

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: 13020 Brighton Dam

Subdivision: Brighton Estates Lot: 3

Initial system:	Application rate: <u>1.2</u>	Effective area beginning depth: <u>3</u>	Bottom maximum depth: <u>8</u>
1 st Replacement:	Application rate: <u>1.2</u>	Effective area beginning depth: <u>3</u>	Bottom maximum depth: <u>8</u>
2 nd Replacement:	Application rate: <u>1.2</u>	Effective area beginning depth: <u>3</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

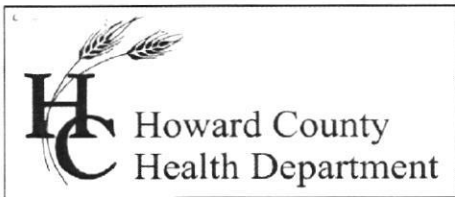
Sidewall reduction credit formula:

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

- 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:

Approved: RAE Date: 7/5/2023



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Website: www.hchealth.org
Maura J. Rossman, M.D., Health Officer

Date: September 8, 2014

To: Fisher, Collins, and Carter, Inc.
C/o Tony Fertitta
Via E-Mail: tonyf@fcc-eng.com

RE: **Percolation Testing Report**
13000 Brighton Dam Road Lot #2

Mr. Fertitta,


Percolation testing was conducted on the referenced property on September 8, 2014. The purpose for conducting these percolation tests was for an anticipated establishment of a sewage disposal area for a proposed house.

A total of five (5) test holes were evaluated and five (5) were found to be satisfactory with moderate percolation rates. Acceptable ranges for recommended inlet and trench bottom depth, and usable sidewall are indicated, and may be confirmed at the time of installation for the five (5) percolation test holes which were satisfactory. Field data collected is shown on the Percolation Test Worksheet enclosed with this letter.

All percolation tests conducted were standard tests, measuring rate of fall for a pre-wet period followed by measurement and recordation of the time required for the water level to drop 1 inch. Areas that may be included in a septic reserve are represented by test locations having satisfactory soil conditions. The area of the septic reserve must be at least 10,000 square feet, though Howard County Code [3.805.A.2.X] requires that the area be large enough to accommodate an initial drain field and two repair drain fields for the planned residence.

The next step in this process is to submit a Percolation Certification Plan to confirm the design of the septic reserve area. If you have any questions regarding this evaluation or requirements for the Percolation Certification Plan, please contact me at the above address or by telephone at (410) 313-2775.

Respectfully,


Dana Bernard, REHS/RS
Environmental Specialist II
Well and Septic Program

Enclosures (1)
File

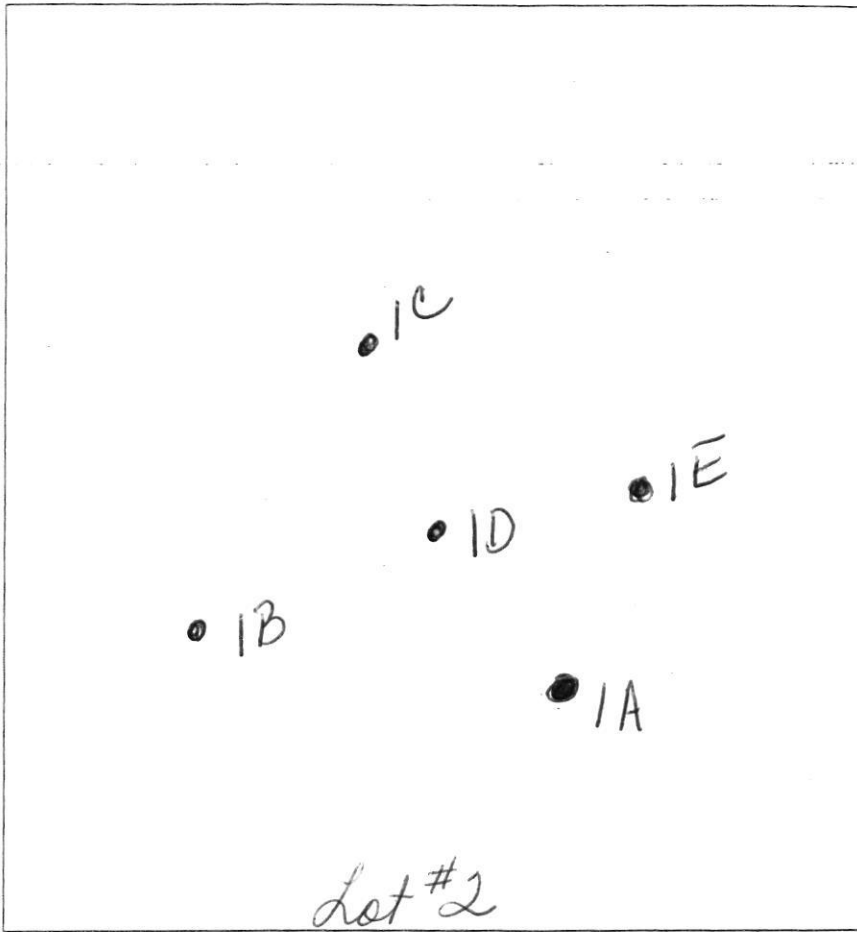
AJP

1A
 Red Brown
 Sh
 Dense 3'
 Red Brown
 Yellow
 Sh
 5-10%
 R4 8'
 Red Brown
 Yellow
 FSh 13'

1B
 Red Brown
 Yellow
 Sh
 Dense 3'

Red Brown
 Yellow
 Sh 6'
 Red Brown
 Yellow
 FSh 12.5'

1C
 Red Brown
 Yellow
 Sh 3'
 Red Brown
 Yellow
 FSh



1D
 Red Brown
 Yellow
 Sh
 20-30%
 R4 3'

Red Brown
 Yellow
 FSh
 20-30%
 R4
 ↓ 14'

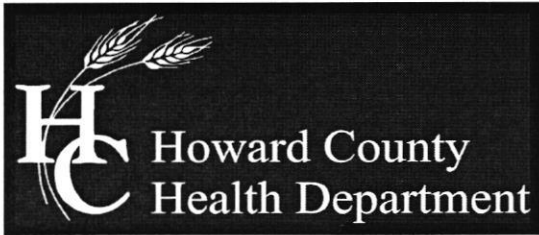
1E
 Red Brown
 Yellow
 Sh
 10-20%
 R4 3'

Red Brown
 Yellow
 FSh
 ↓ 14'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
9-8-14	1A	4/13	10:51	10:56	11:01	5min	P
9-8-14	1B	4/12.5	11:04	11:08	11:09		
	Repair		11:10	11:12	11:15	3min	P
9-8-14	1C	4.5/13	11:21	11:22	11:23		
	Repair		11:25	11:28	11:30	3min	P
9-8-14	1D	4/13	11:36	11:37	11:46	7min	P
9-8-14	1E	4.5/13	11:47	11:48	12:00	2min	P
	Repair		12:01	12:03	12:06	3min	P

REMARKS _____
 SANITARIAN Dana Bernard BACKHOE Jiff OTHERS Jony Juttita
 TEST HOLES USED IN SDA 5 AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE S/W _____

↓
 12'



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

SEWAGE DISPOSAL SYSTEM SPECIFICATIONS WORKSHEET

Address: _____

Subdivision: Brighton Estates Lot: 3

Table with 4 columns: System, Application rate, Effective area beginning depth, Bottom maximum depth. Rows include Initial system, 1st Replacement, and 2nd Replacement.

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:

(W + 2) / (W + 1 + 2D) x 100 = Percent of length of standard trench where W=trench width and D= 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:

Approved: [Signature] Date: 9/20/17

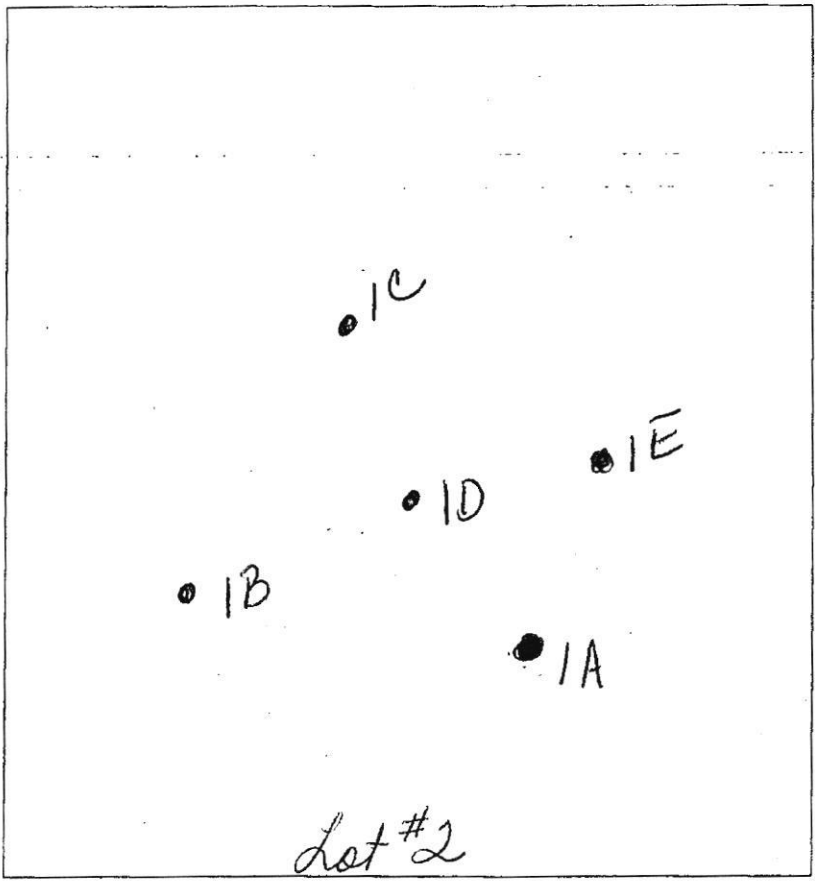
A/P

1A
 Red Brown
 Sh
 Dense 3'
 Red Brown
 yellow
 Sh
 5-10%
 Rk 8'
 Red Brown
 yellow
 FSh 13'

1B
 Red Brown
 yellow
 Sh
 Dense 3'

Red Brown
 yellow
 Sh
 Red Brown
 yellow
 FSh 12.5'

1C
 Red Brown
 yellow
 Sh
 Red Brown
 yellow
 FSh
 ↓
 12'



1D
 Red Brown
 yellow
 Sh
 20-30%
 Rk 3'
 Red Brown
 yellow
 FSh
 20-30%
 Rk
 ↓
 14'

1E
 Red Brown
 yellow
 Sh
 10-20%
 Rk 3'

Red Brown
 yellow
 FSh
 ↓
 14'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
9-8-14	1A	4/13	10:51	10:56	11:01	5min	P
9-8-14	1B	4/12.5	11:04	11:08	11:09		
	Repair		11:10	11:12	11:15	3min	P
9-8-14	1C	4.5/13	11:21	11:22	11:23		
	Repair		11:25	11:28	11:30	2min	P
9-8-14	1D	4/13	11:36	11:39	11:46	7min	P
9-8-14	1E	4.5/13	11:47	11:49	12:00	2min	P
	Repair		12:01	12:03	12:06	3min	P

REMARKS _____
 SANITARIAN Dana Bernard BACKHOE Jiff OTHERS Jony Juttita
 TEST HOLES USED IN SDA 5 AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

A/P _____

5002

Red/Brown
Grey
SCL

Modeling Clay Loam @ 6'
Grey/Brown
H₂O in @ 7'
@ 9'

#5001

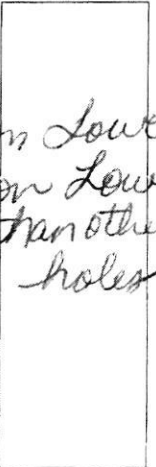
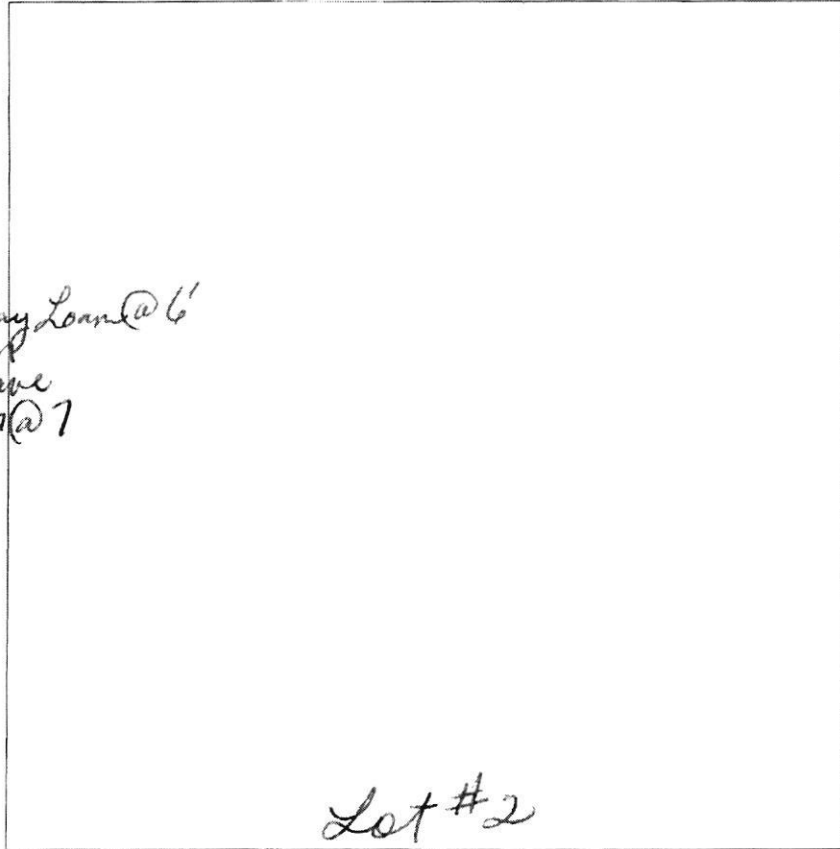
Red Brown
yellow
SCL

H₂O @ 4'
Modeling Clay Loam
↓ 6'

#5003

Red Brown
Grey
SCL

Modeling Clay
H₂O in the Bottom 4'



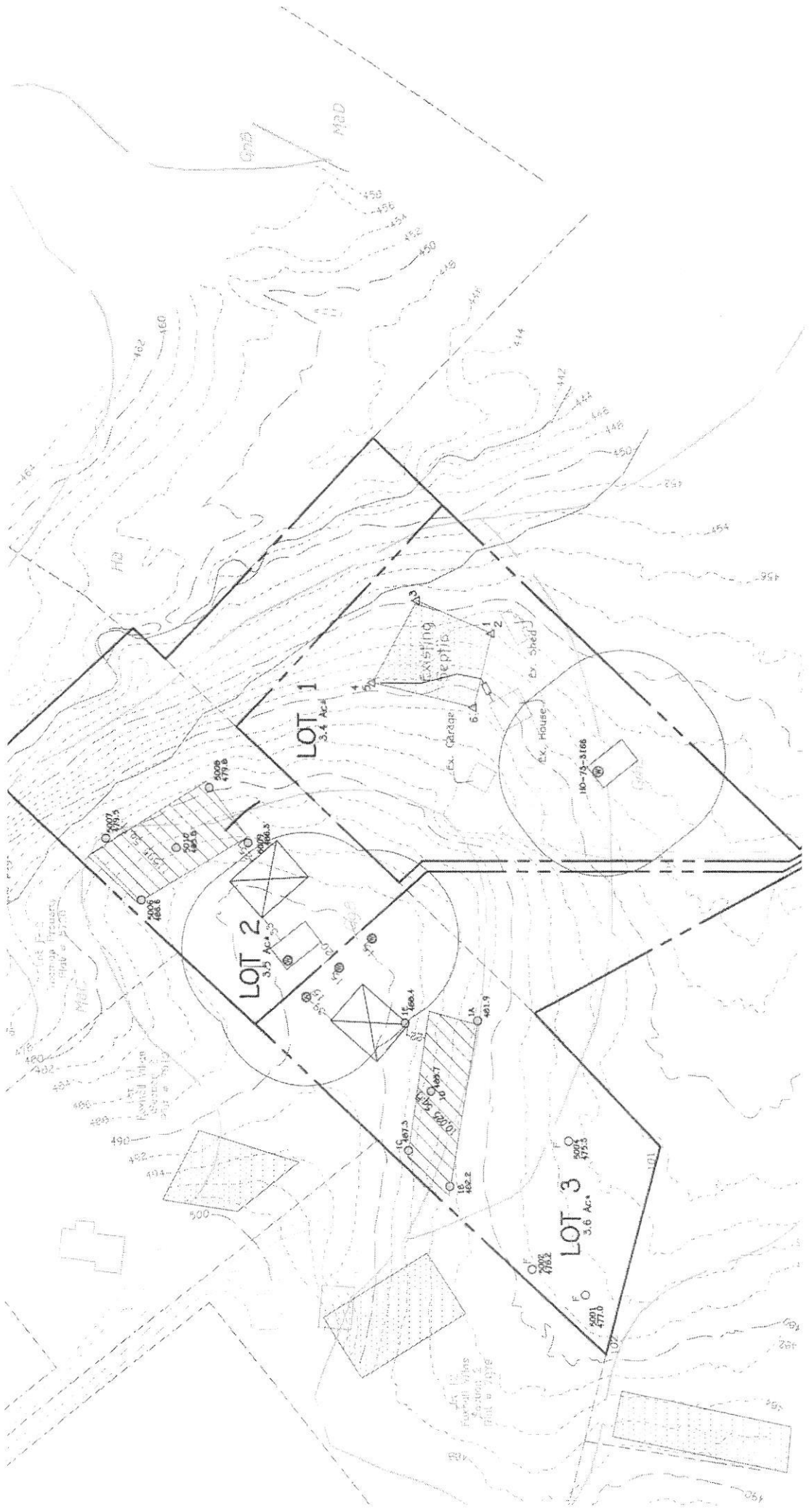
DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H	
6-2-14	5002	11					F	
6-2-14	5001	6'					F	
6-2-14	5003	4					F	
6-2-14	5004	DID NOT TEST					Elevation Lower	
6-2-14	5005	DID NOT TEST					Elevation Lower than other holes	

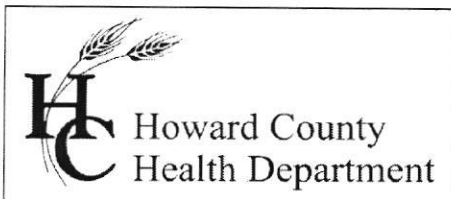
REMARKS _____

SANITARIAN _____ BACKHOE _____ OTHERS _____

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

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





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Website: www.hchealth.org

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

Date: June 12, 2014

To: Fisher, Collins, and Carter, Inc.
C/o Toni Fertitta
10272 Baltimore National Pike
Ellicott City, Maryland 21042
Via E-mail: tonyf@fcc-eng.com

RE: **Percolation Testing Report**
13000 Brighton Dam Road

Mr. Fertitta,

Percolation testing was conducted on the referenced property on June 3, 2014. The purpose for conducting these percolation tests was for an anticipated establishment of a sewage disposal area for 2 lots.

A total of eight (8) test holes evaluated and five (5) were found to be satisfactory with moderate percolation. Acceptable ranges for recommended inlet and trench bottom depth, and usable sidewall are indicated, and may be confirmed at the time of installation for the five (5) percolation test holes which were satisfactory (Lot # 1). However, lot # 2 did not pass because of high water table. Field data collected is shown on the Percolation Test Worksheet enclosed with this letter.

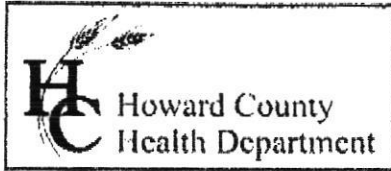
All percolation tests conducted were standard tests, measuring rate of fall for a pre-wet period followed by measurement and recordation of the time required for the water level to drop 1 inch. Areas that may be included in a septic reserve are represented by test locations having satisfactory soil conditions. The area of the septic reserve must be at least 10,000 square feet, though Howard County Code [3.805.A.2.X] requires that the area be large enough to accommodate an initial drain field and two repair drain fields for the planned residence.

The next step in this process is to submit a Percolation Certification Plan to confirm the design of the septic reserve area for lot #1 and show the failed area for lot #2. I have also attached the percolation notes for the existing house, so please make sure they are shown on the plan. If you have any questions regarding this evaluation or requirements for the Percolation Certification Plan, please contact me at the above address or by telephone at (410) 313-2775.

Respectfully,

Dana Bernard, REHS/RS
Environmental Specialist II
Well and Septic Program

Enclosures (3)
File



Bureau of Environmental Health
7178 Gateway Drive Columbia, MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

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

APPLICATION

FOR PERCOLATION TESTING AND SITE EVALUATION

PROPERTY LOCATION

SUBDIVISION/PROPERTY NAME Eppi Acres LOT # 3

PROPERTY ADDRESS 13000 Brighton Dam Road Clarksville, Md

TAX ACCOUNT # 345596 TAX MAP 34 GRID 10 PARCEL 308 ZONING DESIGNATION RR-DE

PROPERTY OWNER(S) Rene Eppi & Anetta Grabowska

DAYTIME PHONE CELL 240-381-3386 EMAIL anetta.van.haagen@gmail.com

MAILING ADDRESS 13000 Brighton Dam Road Clarksville, Md

APPLICANT Rene Eppi & Anetta Grabowska RELATIONSHIP TO OWNER: Owner

DAYTIME PHONE CELL 240-381-3386 EMAIL anetta.van.haagen@gmail.com

MAILING ADDRESS 13000 Brighton Dam Road Clarksville, Md 21029

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

- BUILDING:
[checked] RESIDENTIAL WITH 4 or 5 EXISTING OR PROPOSED BEDROOMS IN THE COMPLETED STRUCTURE
[] COMMERCIAL (PROVIDE DETAIL OF TYPE OF USE AND NUMBERS OF EMPLOYEES/CUSTOMERS ON ACCOMPANYING PLAN)
PROPERTY:
[checked] SUBDIVISION: NUMBER OF LOTS INCLUDING RESIDUE: 3
[] CONSTRUCT NEW OSDS ON UNDEVELOPED LOT
[] REPAIR OR REPLACE FAILING OSDS
[] UPGRADE EXISTING OSDS
IS THE PROPERTY WITHIN 2500 FEET OF ANY RESERVOIR?
[] YES
[checked] 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.
Anetta Grabowska [Signature] 4/17/2014
SIGNATURE OF APPLICANT DATE

11/29/12 JW

Handwritten notes: 410, 707, 9028



Bureau of Environmental Health

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Facebook: www.facebook.com/hocohealth

Maura Rossman, M.D., Health Officer

October 12, 2016

**Mr. and Mrs. Van Haagen
13000 Brighton Dam Road
Clarksville, Maryland 21029**

**RE: Brighton Estates Lot 3
Brighton Dam Road
Well Tag: HO - 15 - 0274**

Dear Mr. and Mrs. Haagen:

A sample was collected during a yield test on September 8, 2016 and submitted to the Department of Health & Mental Hygiene Laboratories to assess the possible presence of **Gross Alpha** and **Gross Beta** in the future well water supply. **Gross Alpha** and **Gross Beta** measure the total alpha and beta particle activity in a water supply. These naturally occurring radioactive nuclides have been demonstrated to be present in a certain type of geologic formation known as the Baltimore Gneiss which exists in your area of development within the County.

Results from this screening revealed a **Gross Alpha** of $< 2.0 \pm 0.0$ picocuries/liter (pCi/L), while the **Gross Beta** level was $< 4.0 \pm 0.0$ pCi/L. The **Gross Alpha** result was below its **maximum contaminant level (MCL)** of 15 pCi/L, while the **Gross Beta** level was below its targeted value of 50 pCi/L (roughly equivalent to the **annual dose rate** of 4 millirems/year).

At the time of testing and with respect to these parameters, the future well water supply **meets** EPA regulatory standards. Additional testing **for these parameters** will not be required to secure the future Use & Occupancy. **Please note** that other standard testing parameters (bacteria, nitrate, turbidity and sand) will still be required to help secure Use & Occupancy.

A copy of the test results is enclosed for your information. Please call this office at 410-313-1773 if you have any further questions.

Sincerely,

A handwritten signature in cursive script that reads 'Bert Nixon'.

Bert Nixon, Director
Bureau of Environmental Health

✓ Enclosure
cc: Property file

Howard Co Health Dept
 Bureau of Environmental Health
 8930 Stanford Blvd
 Columbia, MD 21045

State of Maryland
 DHMH - Laboratories Administration
 Division of Environmental Chemistry
RADIATION LABORATORY
 1770 Ashland Avenue
 Baltimore, Maryland 21205

Lab No.
 E0005298-916

LABORATORY ANALYSIS REQUEST FORM

Plant/Site Name: 13000 Brighton Dam Rd County: Howard
 Sample Source: Brighton Estates Lot 3 Location: HO-15-0274
(Well no., lab sink, sample tap, etc.)
 Radon-222 Bottle A _____ Radon-222 Field Blank Bottle A _____
 Bottle B _____ Bottle B _____
 County 13 Plant No. _____

CHECK (one per Box)

Type	Service	Point of Collection	Testing
Drinking Water <input checked="" type="checkbox"/>	Community <input type="checkbox"/>	Source (Raw) <input checked="" type="checkbox"/>	Emergency <input type="checkbox"/>
Landfill <input type="checkbox"/>	Non-Community <input type="checkbox"/>	Distribution (treated) <input type="checkbox"/>	Routine <input checked="" type="checkbox"/>
Stream <input type="checkbox"/>	Private <input checked="" type="checkbox"/>	MCL <input type="checkbox"/>	Recheck <input type="checkbox"/>
Other _____ <input type="checkbox"/>	Other _____ <input type="checkbox"/>		Special <input type="checkbox"/>

Submitters Code: _____ Federal Project: 5
 Collector: S. Collins Telephone No.: 410-313-6287
 Date Collected: 9/8/16 Time Collected: 11 a.m. _____ p.m.
 Field pH: _____ Field Chlorine: _____
 Nitric Acid Preserved: Yes No Iced: Yes No

Remarks: Sample collected during yield test

✓	TEST	EPA Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Date Reported
<input checked="" type="checkbox"/>	Gross Alpha	4000	0526	EPA900.0	<2.0	9/12/16	JT	9/13/16
<input checked="" type="checkbox"/>	Gross Beta	4100	0526	EPA900.0	<4.0	9/12/16	JT	9/13/16
<input type="checkbox"/>	Radium-226	4020						
<input type="checkbox"/>	Radium-228	4030						
<input type="checkbox"/>	Total Uranium	4006						
<input type="checkbox"/>	Radon-222 (Bottle A)	4004						
<input type="checkbox"/>	Radon-222 (Bottle B)	4004						
<input type="checkbox"/>	Radon Field Blank A	4004						
<input type="checkbox"/>	Radon Field Blank B	4004						
<input type="checkbox"/>	Tritium							
<input type="checkbox"/>								
<input type="checkbox"/>								

Date Received: 9/12/16 Received By: JT
 Data Release Signature: [Signature] Date: 9-13-16

Lab Use Only	Yes	No	N/A
Sample Intact upon arrival?	<input checked="" type="checkbox"/>		
Sample pH <2.0?	<input checked="" type="checkbox"/>		
Received within holding time?	<input checked="" type="checkbox"/>		

•Tel. No.: (443) 681-3766 •Fax No.: (443) 681-4507

SEND REPORT TO: Bert Nixon
 Howard Co Health Dept
 Bureau of Environmental Health
 6930 Stanford Blvd.
 Columbia, MD 21045

State of Maryland
 DHMH - Laboratories Administration
 Division of Environmental Chemistry
RADIATION LABORATORY
 1770 Ashland Avenue
 Baltimore, Maryland 21205
LABORATORY ANALYSIS REQUEST FORM

Lab No.
 E0005258-92

Plant/Site Name: Field Blank County: Howard

Sample Source: dH₂O Location: HCHD Lab

(Well no., lab sink, sample tap, etc.)

Radon-222 Bottle A _____ Radon-222 Field Blank Bottle A _____
 Bottle B _____ Bottle B _____

County 113 Plant No. _____

CHECK (one per Box)

Type	Service	Point of Collection	Testing
Drinking Water <input checked="" type="checkbox"/>	Community <input type="checkbox"/>	Source (Raw) <input checked="" type="checkbox"/>	Emergency <input type="checkbox"/>
Landfill <input type="checkbox"/>	Non-Community <input type="checkbox"/>	Distribution (treated) <input type="checkbox"/>	Routine <input checked="" type="checkbox"/>
Stream <input type="checkbox"/>	Private <input checked="" type="checkbox"/>	MCL <input type="checkbox"/>	Recheck <input type="checkbox"/>
Other _____ <input type="checkbox"/>	Other _____ <input type="checkbox"/>		Special <input type="checkbox"/>

Submitters Code: _____ Federal Project: 5

Collector: S. Collins Telephone No.: 410-313-0287

Date Collected: 9/8/16 Time Collected: _____ a.m. 3 p.m.

Field pH: _____ Field Chlorine: _____

Nitric Acid Preserved: Yes No Iced: Yes No

Remarks: _____

✓	TEST	EPA Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Date Reported
✓	Gross Alpha	4000	0525	EPA900.0	< 2.0	9/12/16	IT	9/13/16
✓	Gross Beta	4100	0525	EPA900.0	5.6 ± 1.8	9/12/16	IT	7/3/16
<input type="checkbox"/>	Radium-226	4020						
<input type="checkbox"/>	Radium-228	4030						
<input type="checkbox"/>	Total Uranium	4006						
<input type="checkbox"/>	Radon-222 (Bottle A)	4004						
<input type="checkbox"/>	Radon-222 (Bottle B)	4004						
<input type="checkbox"/>	Radon Field Blank A	4004						
<input type="checkbox"/>	Radon Field Blank B	4004						
<input type="checkbox"/>	Tritium							
<input type="checkbox"/>								
<input type="checkbox"/>								

Date Received: 9/12/16 Received By: IT

Data Release Signature: [Signature] Date: 9-13-16

Lab Use Only	Yes	No	N/A
Sample Intact upon arrival?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample pH < 2.0?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

•Tel. No.: (443) 681-3766 •Fax No.: (443) 681-4507

C 1	27663	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)		FILL IN THIS FORM COMPLETELY PLEASE TYPE		
ST/CO USE ONLY DATE Received MM DD YY 09 15 16		DATE WELL COMPLETED MM DD YY 09 15 2016		PERMIT NO. FROM "PERMIT TO DRILL WELL" Ho- 15 - 0274
OWNER <u>Haagen Van Anetta</u>		Depth of Well 22 <u>160</u> 26 (TO NEAREST FOOT)		COUNTY NUMBER <u>A 29712</u>
WELL SITE ADDRESS <u>13000 Brighton Dam Rd</u>		TOWN <u>Clarksville 21029</u>		
SUBDIVISION <u>Brighton Estates</u>		SECTION		LOT <u>3</u>

WELL LOG

Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR
COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing
	FROM	TO	
Sand	0	87	✓
Mica Rock	87	160	✓
Water	70, 105'		

GROUTING RECORD

WELL HAS BEEN GROUTED
(Circle Appropriate Box) Y N

TYPE OF GROUTING MATERIAL (Circle one)
CEMENT CM BENTONITE CLAY BC

NO. OF BAGS 20 NO. OF POUNDS 1800

GALLONS OF WATER 120

DEPTH OF GROUT SEAL (to nearest foot)
from 0 ft. to 80 ft.
48 TOP 52 ft. to 54 BOTTOM 58 ft.
(enter 0 if from surface)

CASING RECORD

casing types insert appropriate code below

ST STEEL CO CONCRETE
 PL PLASTIC OT OTHER

MAIN CASING TYPE ST Nominal diameter top (main) casing (nearest inch) 6 Total depth of main casing (nearest foot) 92

60 61 63 64 66 70

OTHER CASING (if used)

diameter inch 4" depth (feet) from 10 to 160

A C H I N G

SCREEN RECORD

screen type or open hole ST STEEL BR BRASS HO OPEN HOLE
 PL PLASTIC OT OTHER

DEPTH (nearest ft.)

C 2

1	2								
8	9	11	15	17	21				
23	24	26	30	32	36				
38	39	41	45	47	51				

SLOT SIZE 1 2 2 3 3

DIAMETER OF SCREEN (NEAREST INCH)
from 56 to 60

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) 3

PUMPING RATE (gal. per min.) 12

METHOD USED TO MEASURE PUMPING RATE Bucket

WATER LEVEL (distance from land surface)
BEFORE PUMPING 25 ft.
WHEN PUMPING 69 ft.

TYPE OF PUMP USED (for test)
 A air P piston T turbine
 C centrifugal R rotary O other (describe below)
 J jet S submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES NO

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. 29

CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35

PUMP HORSE POWER 37 41

PUMP COLUMN LENGTH (nearest ft.) 43 47

CASING HEIGHT (circle appropriate box and enter casing height)
 + above } LAND SURFACE
 - below } 3 (nearest foot)

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED Y N

CIRCLE APPROPRIATE LETTER
A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED
E ELECTRIC LOG OBTAINED
P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. 1 M 5 D 0 2 4

DRILLERS SIGNATURE Mark & Mayne
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 1 M 5 D 0 2 4

SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)
T (E.R.O.S.) W Q

70 72 74 75 76

TELESCOPE CASING LOG INDICATOR OTHER DATA

LATITUDE 39.20767

LONGITUDE 76.96895

(DEFAULT COORD. WGS 84)

NOTES:

B 1 37538

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

HO - 15 - 0274

558777A please type

fill in this form completely

Date Received (APA)

8 MM DD YY 13

OWNER INFORMATION

Haagen Van, Anetta
13000 Brighton Dam Rd
Clarksville md 21029-4410

B 3

LOCATION OF WELL

Howard COUNTY
Brighton Estates SUBDIVISION
SECTION 44 46 LOT 3 48 50
Clarksville NEAREST TOWN

DRILLER INFORMATION

Joseph L Maize MS D024
Joseph L Maize Well Drilling
3512 Ridge Rd Mt Airy 21771
Signature Date

B 4

SOURCES OF DRILLING WATER

- 1. well
2.
3.

13000 Brighton Dam Rd
STREET ADDRESS
ON WHICH SIDE OF ROAD
DISTANCE FROM ROAD
ENTER FT OR MI
TAX MAP: 34 BLK: PARCEL



B 2

WELL INFORMATION

APPROX. PUMPING RATE 5
AVERAGE DAILY QUANTITY NEEDED 500

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
I INDUSTRIAL, COMMERCIAL, DEWATERING
P PUBLIC WATER SUPPLY WELL
T TEST, OBSERVATION, MONITORING
O OPEN LOOP GEOTHERMAL
C CLOSED LOOP GEOTHERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard COUNTY NAME
A29712 COUNTY NO.
STATE SIGNATURE
DATE ISSUED 7/5/16
CO SIGNATURE R-LA EXP. DATE 7/5/17

APPROXIMATE DEPTH OF WELL 300 FEET

APPROXIMATE DIAMETER OF WELL 6 NEAREST INCH

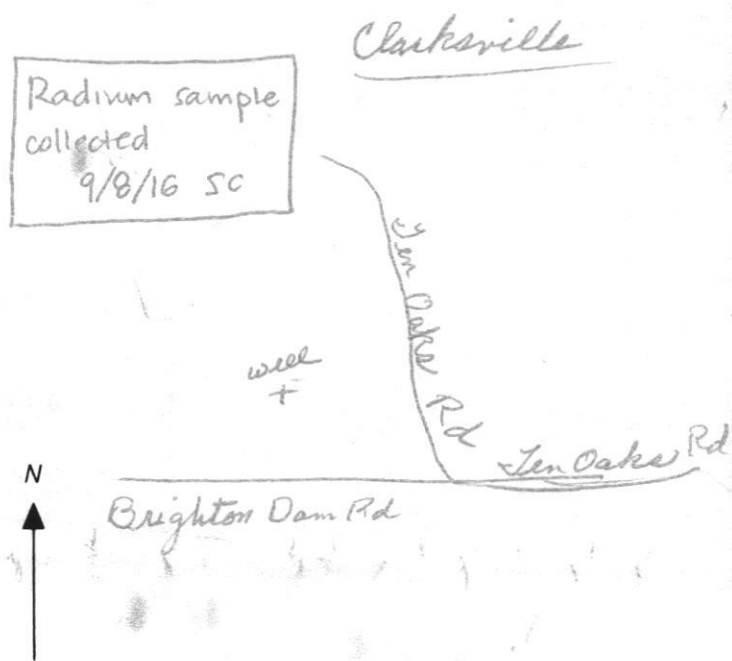
METHOD OF DRILLING (circle one)

- BORED (or Augered) JETTED Jetted & DRIVEN
AIR-ROTary AIR-PERcussion ROTARY (Hydraulic Rotary)
CABLE REVERSE-ROTary DRIVE-POINT

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

- N THIS WELL WILL NOT REPLACE AN EXISTING WELL
Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
D THIS WELL WILL DEEPEM AN EXISTING WELL

PROPOSED LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL



Not to be filled in by driller (MDE OR COUNTY USE ONLY)

APPROX. PERMIT NUMBER G

PERMIT No. HO - 15 - 0274

SPECIAL CONDITIONS

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED-

Radium sample required during yield test

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 15-0274
 Location of property (road) 13000 Brighton Dam Rd.
 Subdivision Brighton Estates Lot 3 Block Plat Sec.
 Well Driller Joseph & Marie Owner Anetta Van Haagen

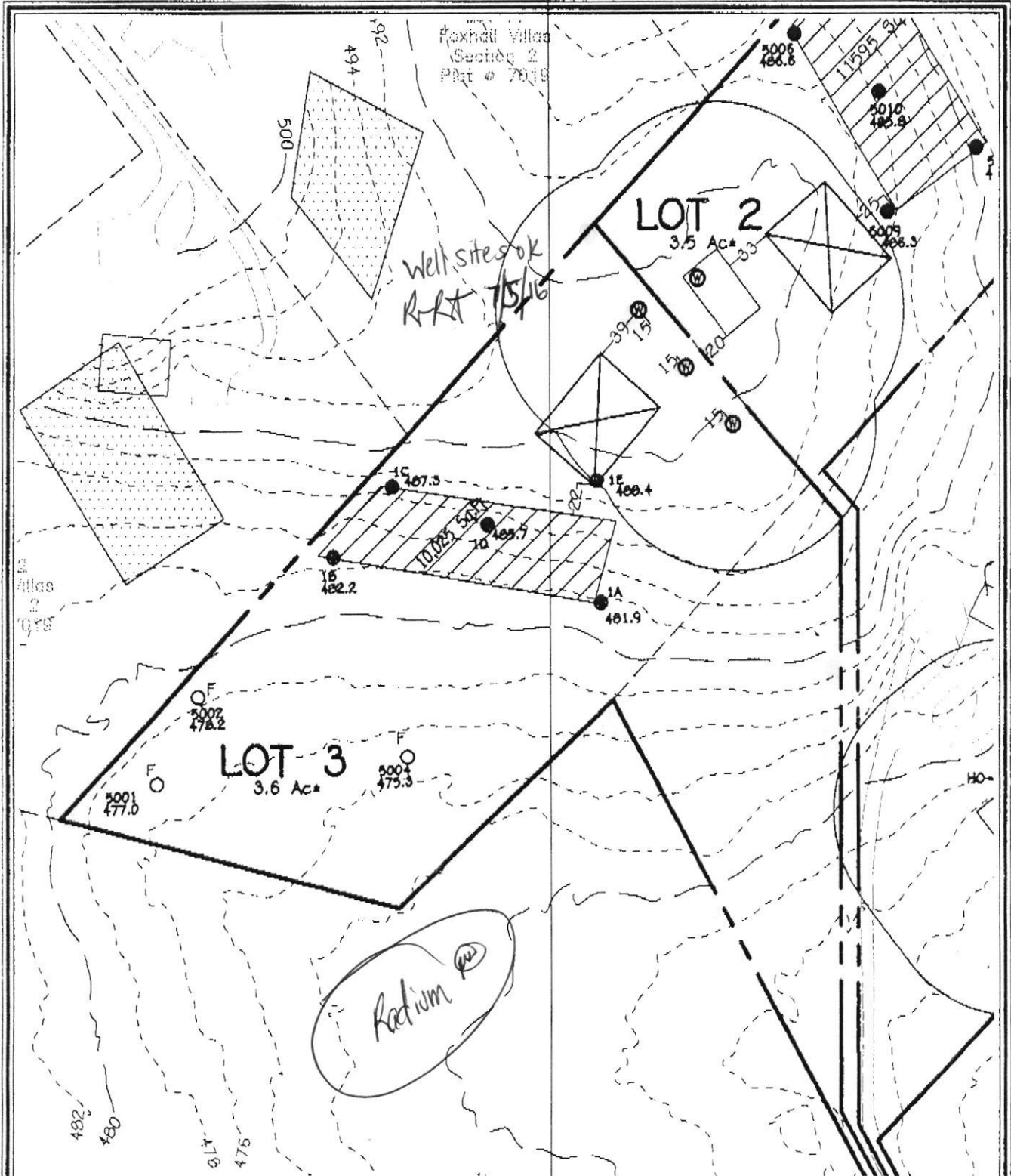
Depth of well 160
 Distance of measuring point (H.P.) above ground 3
 Static water level (S.W.L.) below H.P. 25

I. High rate pumping -- reservoir drawdown

Time pump started 7:00 Pumping rate 20
 Total time 15 min to reach pumping water level 69 ft. below H.P.

II. Recovery pump test data - observations to be recorded every 15 minutes

TIME (in 15 minute intervals)	WATER LEVEL below H.P.	PUMPING RATE time to fill 5 gallon bucket	FLOW METER READING (if used)	CALCULATED FLO (gallons per minute)
7:15	69'	3 sec		20 gpm
7:30	69'	5 sec		12
7:45	69'	5 sec		12
8:00	69'	5 sec		12
8:15	69'	5 sec		12
8:30	69'	5 sec		12
8:45	69'	5 sec		12
9:00	69'	5 sec		12
9:15	69'	5 sec		12
9:30	69'	5 sec		12
9:45	69'	5 sec		12
10:00	69'	5 sec		12
10:15	69'	5 sec		12



WELL EXHIBIT
BRIGHTON ESTATES
 LOT 3

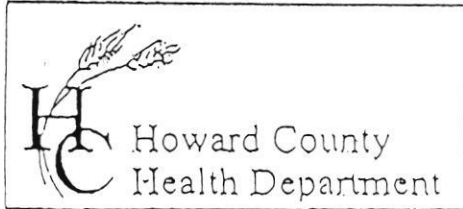
FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS

CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELICOTT CITY, MARYLAND 21042
 (410) 461 - 2855

TAX MAP #34
 5TH ELECTION DISTRICT
 SCALE: 1"=100'

PARCELS: 432 & 308
 HOWARD COUNTY, MARYLAND
 DATE: JUNE 19, 2015

I:\2014\14010\dwg\14010-3001 13000 Well Exhibit.dwg, 6/19/2015 6:56:46 AM, 1:1



7178 Columbia Gateway Drive, Columbia, MD 21046
 (410) 313-2640 Fax (410) 313-2648
 TDD (410) 313-2323 Toll Free 1-866-313-6300
 website: www.hchealth.org

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

TO ALL INTERESTED PARTIES

When submitting a well permit application for a proposed well for new construction, please indicate one of the following:

Well Site Location:

Brighton Estates 3 13000 Brighton Dam Rd
 Subdivision/Property Name Lot# Road Name

The well site has been staked by Fisher Collins-Carter
 (professional land surveyor or company employing professional land surveyors)
 on June 2016 (date) and does not require a site inspection.

The well driller, builder or property owner will call the Health Department to schedule a time to meet in the field to verify the proposed well site location.

This sheet, along with two copies of an acceptable well site plan, must be attached to the green well permit application.

Revised 3/11/05

Anetta 301-854-2001

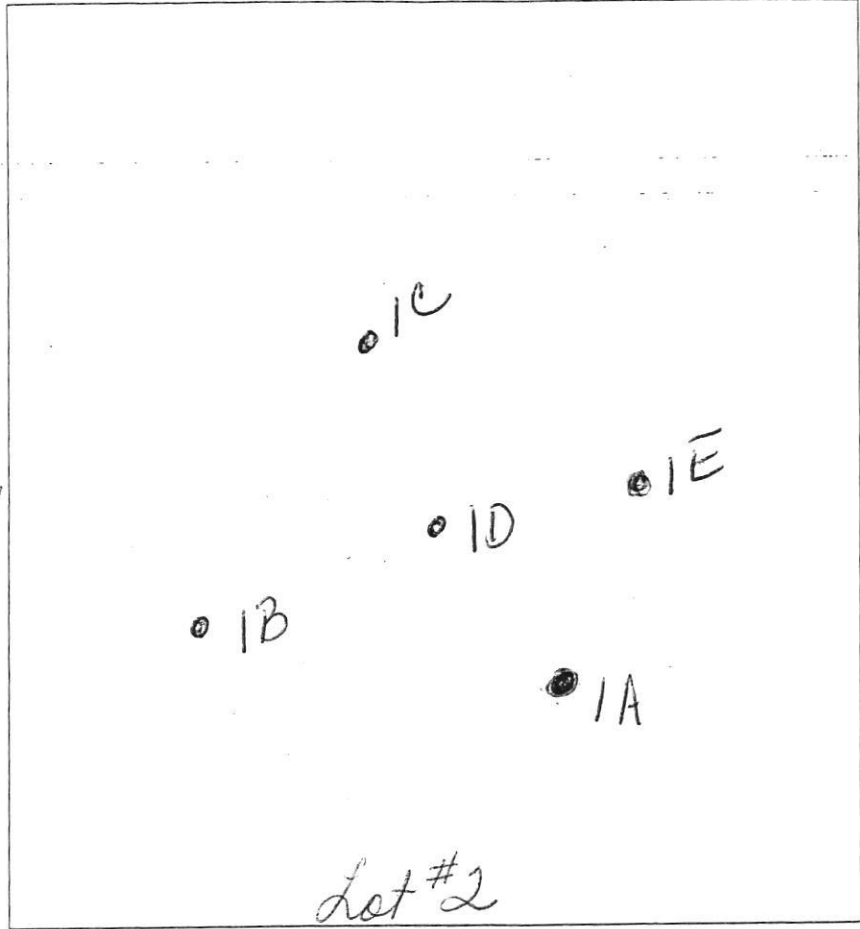
AJP

1A
 Red Brown
 Sh
 Dense
 3'
 Red Brown
 Yellow
 Sh
 5-10%
 Rx
 8'
 Red Brown
 Yellow
 FSh
 13'

1B
 Red Brown
 Yellow
 Sh
 Dense
 3'

Red Brown
 Yellow
 Sh
 6'
 Red Brown
 Yellow
 FSh
 12.5'

1C
 Red Brown
 Yellow
 Sh
 3'
 Red Brown
 Yellow
 FSh



1D
 Red Brown
 Yellow
 Sh
 20-30%
 Rx
 3'

Red Brown
 Yellow
 FSh
 20-30%
 Rx
 14'

1E
 Red Brown
 Yellow
 Sh
 10-20%
 Rx
 3'

Red Brown
 Yellow
 FSh
 14'

DATE	TEST #	DEPTH	START	BREAK 1" DROP	STOP 2" DROP	TIME OF 2ND INCH	P/F/H
9-8-14	1A	4/13	10:51	10:56	11:01	5min	P
9-8-14	1B	4/12.5	11:04	11:08	11:09		
	Repair		11:10	11:12	11:15	3min	P
9-8-14	1C	4.5/13	11:21	11:22	11:23		
	Repair		11:25	11:28	11:30	2min	P
9-8-14	1D	4/13	11:36	11:37	11:46	7min	P
9-8-14	1E	4.5/13	11:47	11:48	12:00	2min	P
	Repair		12:01	12:03	12:06	3min	P

REMARKS _____
 SANITARIAN Dana Bernard BACKHOE Jeff OTHERS Jerry Juttita
 TEST HOLES USED IN SDA 5 AVG. PERC TIME _____ SQ. FT/BR _____
 TRENCH WIDTH _____ INLET DEPTH _____ MAX. BOT DEPTH _____ EFFECTIVE SW _____

128



HOWARD COUNTY HEALTH DEPARTMENT

58777

W5

DATE 6/29/16

Received From

Anette Van Hagen

PHONE #

301-854-2001

For

Well Permit / 13000

Brighton Park Rd.

- CASH
- CHECK

NO.

1602

One hundred sixty

Dollars

\$ 1600.00

Received By

A King



HOWARD COUNTY HEALTH DEPARTMENT

58777

DATE 6/29/16

W5

Received From

Anette Van Haagen

PHONE #

301-854-2001

For

Well Permit / 13000

Brighton Park Rd.

CASH

CHECK

NO.

1002

One thousand sixty

Dollars

\$

1100.00

Received By

King