

TAG - 2/27/20

B 1 68350	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type 507901-A	STATE PERMIT NUMBER HO - 20 - 0034 <small>fill in this form completely</small>
OWNER INFORMATION Date Received (APA) 8/13/20 8 MM DD YY 13 OCR Development 15 Last Name Owner First Name 34 2102 E. MADISON Street 36 Street or RFD 55 Balto MD 21205 57 Town 70 State 72 Zip 76		B 3 LOCATION OF WELL Howard 8 COUNTY 21 EverGreen Farm 23 SUBDIVISION 42 SECTION 44 46 LOT 7 48 50 FULTON 52 NEAREST TOWN 71	
DRILLER INFORMATION Michael Barlow MW D355 Driller's Name 76 License No. 81 Barlow Well Dr II No Firm Name 522 UNDERWOOD Lane 21014 Address Signature Date		B 4 SOURCES OF DRILLING WATER 1. Well 2. 3. OLD Columbia Rd 11 STREET ADDRESS 30 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) NORTH WEST <input checked="" type="radio"/> EAST SOUTH 34 1000 37 DISTANCE FROM ROAD ENTER FT OR MI 38 39 TAX MAP: 46 BLK: 3 PARCEL 337	
B 2 WELL INFORMATION APPROX. PUMPING RATE 51 (GAL. PER MIN.) 8 12 AVERAGE DAILY QUANTITY NEEDED 300 (GAL. PER DAY) 14 20		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL Howard 13 COUNTY NAME COUNTY NO. STATE SIGNATURE INSERT S → 41 DATE ISSUED 8/13/20 RTH 8/13/20 43 MM DD YY 48 CO SIGNATURE EXP. DATE DON: 2/17/20 DOG: 2/27/20 DOY: 4/27/20	
USE FOR WATER (CIRCLE APPROPRIATE BOX) 22 <input checked="" type="radio"/> DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION <input type="radio"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) <input type="radio"/> INDUSTRIAL, COMMERCIAL, DEWATERING <input type="radio"/> PUBLIC WATER SUPPLY WELL <input type="radio"/> TEST, OBSERVATION, MONITORING <input type="radio"/> OPEN LOOP GEOTHERMAL <input type="radio"/> CLOSED LOOP GEOTHERMAL		APPROXIMATE DEPTH OF WELL 600 FEET 24 28 APPROXIMATE DIAMETER OF WELL 6 INCH 37 NEAREST INCH	
METHOD OF DRILLING (circle one) BORED (or Augered) JETTED Jetted & DRIVEN 30 AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary) 37 CABLE REVERSE-ROTary DRIVE-POINT other		REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX) THIS WELL WILL NOT REPLACE AN EXISTING WELL THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED 39 <input checked="" type="radio"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS <input type="radio"/> THIS WELL WILL DEEPEN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 52	
Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROX. PERMIT NUMBER G PERMIT No. HO - 20 - 0034 70 71 72 73 74 75 76 77 78 79		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 <p>Pursuant to § 10-624 of the State Govt. Article of the Maryland Code, personal info requested on this form is used in processing this form pursuant to COMAR 26.04.04. Failure to provide the info may result in this form not being processed. You have the right to inspect, amend, or correct this form. The Maryland Department of the Environment is subject to the Maryland Public Information Act. This form may be made available on the Internet via MDE's website and is subject to inspection or copying, in whole or in part, by the public and other governmental agencies, if not protected by federal or State Law.</p>	
SPECIAL CONDITIONS <small>NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED</small>			

C1 64126 SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND
WELL COMPLETION REPORT
FILL IN THIS FORM COMPLETELY
PLEASE TYPETHIS REPORT MUST BE SUBMITTED WITHIN
45 DAYS AFTER WELL IS COMPLETED.1 2 3 4 5 6
(THIS NUMBER IS TO BE PUNCHED
IN SOLS. 3-6 ON ALL CARDS)COUNTY
NUMBER

STACO USE ONLY

DATE Received

MM DD YY
8 13 13

DATE WELL COMPLETED

02 27 2020

Depth of Well

22 600 26
(TO NEAREST FOOT)PERMIT NO.
FROM "PERMIT TO DRILL WELL"

H0 - 20 - 034

28 29 30 31 32 33 34 35 36 37

OWNER OCR Development
WELL SITE ADDRESS last name first name OLD Columbia Rd TOWN FULTON
SUBDIVISION EverGreen Farm SECTION Well #2 LOT 7

WELL LOG

Not required for driven wells

GROUTING RECORD

WELL HAS BEEN GROUTED
(Circle Appropriate Box)yes no
Y N
44 44

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT CM BENTONITE CLAY BC

NO. OF BAGS 45 46 8 NO. OF POUNDS 45 46 100

GALLONS OF WATER 200

DEPTH OF GROUT SEAL (to nearest foot)

from 0 ft. to 80 ft.

48 TOP 52 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

Nominal diameter top (main) casing (nearest inch)

Total depth of main casing (nearest foot)

PL 6 80

60 61 63 64 66 67 70

OTHER CASING (if used)

diameter depth (feet)

inch from to

EACH CASING

screen type or open hole

ST STEEL BR BRASS HO OPEN HOLE

insert appropriate code below

PL PLASTIC OT OTHER

SCREEN RECORD

ST STEEL BR BRASS HO OPEN HOLE

PL PLASTIC OT OTHER

DEPTH (nearest ft.)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

EACH CASING

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

SLOT SIZE 1 2 3

DIAMETER OF SCREEN (NEAREST INCH)

58 60

from to

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

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED yes no 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. M D 355

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. WR 8113

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

C3

PUMPING TEST

HOURS PUMPED (nearest hour) 8 9 55

PUMPING RATE (gal. per min.) 15

METHOD USED TO MEASURE PUMPING RATE water/Bucket

WATER LEVEL (distance from land surface)

BEFORE PUMPING 46'9" ft.

WHEN PUMPING 254 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 YES NO

(CIRCLE) (YES or 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

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

(nearest foot)

LATITUDE 39.14410

LONGITUDE 76.90935

(DEFAULT COORD. WGS 84)

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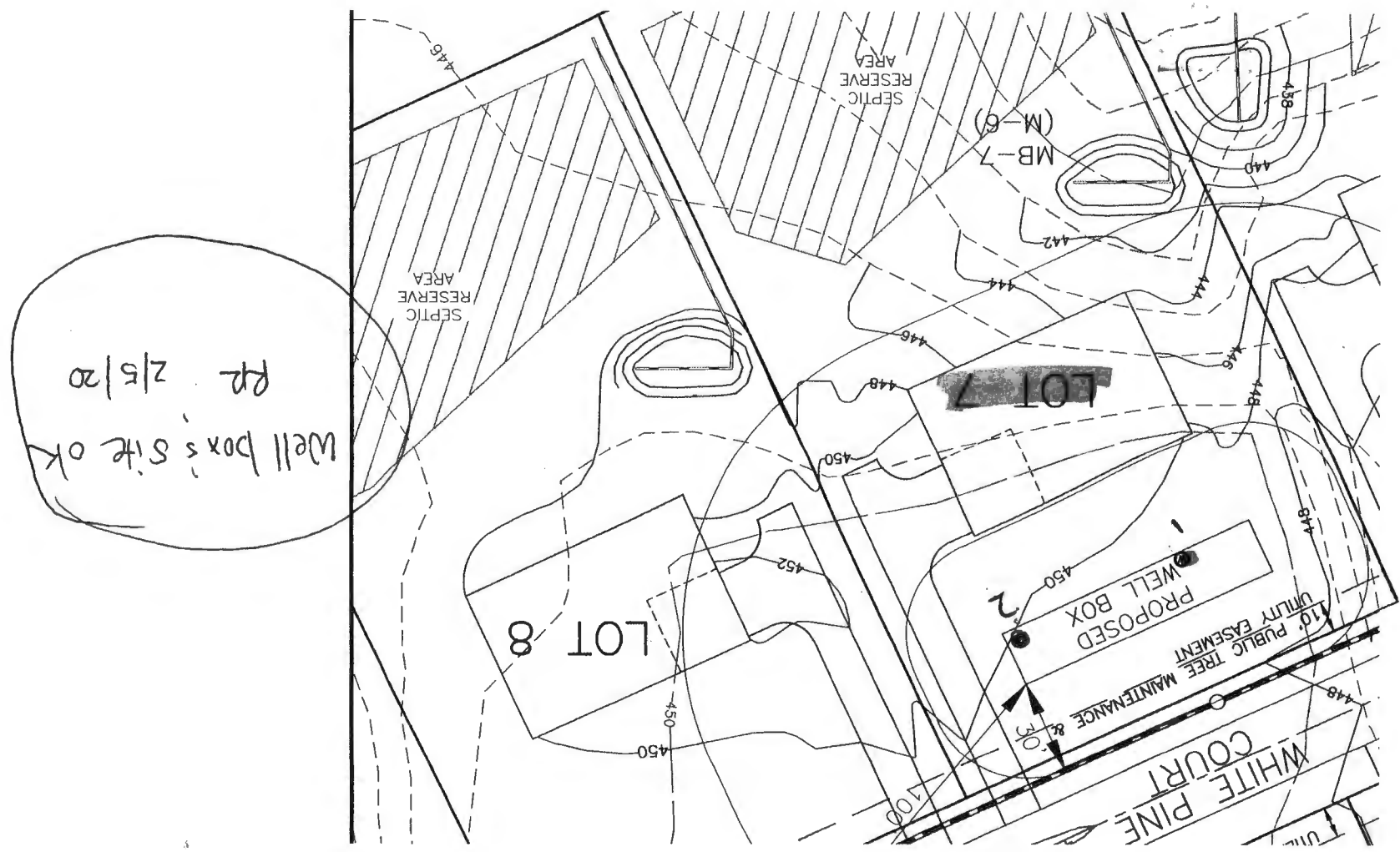
MICHAEL BARLOW WELL DRILLING & SERVICE, INC.
 522 Underwood Lane Bel Air, Maryland 21014
 (410) 838-6910 Fax (410) 838-3582

WELL YIELD REPORT

Date Test Completed:		February 27, 2020	
Well Depth:		600 feet	
Customer	OCR Development	Permit #	
Road	Old Columbia Rd	Subdivision	Evergreen Farm
City	Fulton	Section	Well #2
State	MD	Lot #	7

Time	Water Level feet Pump set at 300'	Time to Fill 1-gallon bucket seconds	G.P.M.
9:30 AM	46'9"	5	12.00
9:45 AM	108'5"	5	12.00
10:00 AM	173'	6	10.00
10:15 AM	235'	60	1.00
10:30 AM	252'	90	0.67
10:45 AM	254	110	0.55
11:00 AM	254	110	0.55
11:15 AM	254	110	0.55
11:30 AM	254	110	0.55
11:45 AM	254	110	0.55
12:00 PM	254	110	0.55
12:15 PM	254	110	0.55
12:30 PM	254	110	0.55
12:45 PM	254	110	0.55
1:00 PM	254	110	0.55
1:15 PM	254	110	0.55
1:30 PM	254	110	0.55
1:45 PM	254	110	0.55
2:00 PM	254	110	0.55
2:15 PM	254	110	0.55
2:30 PM	254	110	0.55
2:45 PM	254	110	0.55
3:00 PM	254	110	0.55
3:15 PM	254	110	0.55
3:30 PM	254	110	0.55
3:45 PM	254	110	0.55
4:00 PM	254	110	0.55
4:15 PM	254	110	0.55
4:30 PM	254	110	0.55
4:45 PM	254	110	0.55
This yield test report is for informational purposes only. Please note the yield may increase or decrease over time and the GPM indicated above is not a guarantee.			

1" = 50'



B 1	65790	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL	STATE PERMIT NUMBER HO-18-0173
		fill in this form completely		
Date Received (APA) 11/06/19		B 3 LOCATION OF WELL		
OWNER INFORMATION		8 COUNTY Howard 21		
15 Last Name OCR Development 34		23 SUBDIVISION EverGreen Farm 42		
36 Street or RFD 2102 E. MADISON Street 55		SECTION 44 46 LOT 7 48 50		
57 Town Baltimore 70 State MD 72 Zip 21205 76		52 NEAREST TOWN Fulton 71		
DRILLER INFORMATION		B 4 SOURCES OF DRILLING WATER		
Driller's Name Michael Barlow 76 License No. MW D 355 81		1. Well		
Firm Name Barlow Well Drilling		2. 2/27/20		
Address 522 UNDERWOOD LANE 21014		3. both 0.5gpm		
Signature [Signature] 11/4/19 Date		both pump 300'		
B 2 WELL INFORMATION		ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)		
APPROX. PUMPING RATE (GAL. PER MIN.) 5 8 12		34 1000 37		
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 750 14 20		DISTANCE FROM ROAD		
		ENTER FT OR MI 46 38 39		
		TAX MAP: 46 BLK: 3 PARCEL: 337		
USE FOR WATER (CIRCLE APPROPRIATE BOX)		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL		
<input checked="" type="checkbox"/> DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION		Howard A558086-F 13		
<input type="checkbox"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)		COUNTY NAME COUNTY NO.		
<input type="checkbox"/> INDUSTRIAL, COMMERCIAL, DEWATERING		STATE SIGNATURE _____ INSERT S → 41		
<input type="checkbox"/> PUBLIC WATER SUPPLY WELL		DATE ISSUED 2/5/20 43 MM DD YY 48		
<input type="checkbox"/> TEST, OBSERVATION, MONITORING		CO SIGNATURE [Signature] 2/5/21 EXP. DATE		
<input type="checkbox"/> OPEN LOOP GEOTHERMAL		DEN 4/17/20 (SR) DOG: 2/27/20 DOY: 2/27/20 BT		
<input type="checkbox"/> CLOSED LOOP GEOTHERMAL		PROPOSED LOCATION OF WELL ON LOT		
APPROXIMATE DEPTH OF WELL 300 24 28 FEET		SHOW PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL		
APPROXIMATE DIAMETER OF WELL 6 NEAREST INCH				
METHOD OF DRILLING (circle one)		<p>Pursuant to § 10-624 of the State Govt. Article of the Maryland Code, personal info requested on this form is used in processing this form pursuant to COMAR 26.04.04. Failure to provide the info may result in this form not being processed. You have the right to inspect, amend, or correct this form. The Maryland Department of the Environment is subject to the Maryland Public Information Act. This form may be made available on the Internet via MDE's website and is subject to inspection or copying, in whole or in part, by the public and other governmental agencies, if not protected by federal or State Law.</p>		
BORED (or Augered) <input type="checkbox"/> JETTED <input checked="" type="checkbox"/> Jetted & DRIVEN				
30 AIR-ROTary <input type="checkbox"/> AIR-PERCussion <input checked="" type="checkbox"/> ROTARY (Hydraulic Rotary)				
37 CABLE <input type="checkbox"/> REVERSE-ROTary <input checked="" type="checkbox"/> DRIVE-POINT <input type="checkbox"/>				
REPLACEMENT OR DEEPEINED WELLS (CIRCLE APPROPRIATE BOX)				
<input checked="" type="checkbox"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL				
<input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED				
<input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS				
<input type="checkbox"/> THIS WELL WILL DEEPEIN AN EXISTING WELL				
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE) 41 _____ 52				
Not to be filled in by driller (MDE OR COUNTY USE ONLY)				
APPROP. PERMIT NUMBER _____ G _____				
PERMIT No. HO-18-0173 70 71 72 73 74 75 76 77 78 79				
SPECIAL CONDITIONS SEE ATTACHED MEMO				

C 1 64125 <small>(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)</small>	SEQUENCE NO. <small>(MDE USE ONLY)</small>	STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE TYPE	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
ST/GO USE ONLY DATE RECEIVED MM/YY 07/15/20		DATE WELL COMPLETED MM/DD/YY 07/27/2020	
OWNER OCR Development WELL SITE ADDRESS OLD Columbia Road SUBDIVISION Evergreen Farm		Depth of Well 22 600 26 <small>(TO NEAREST FOOT)</small>	
TOWN FULTON SECTION 7 LOT 7		PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-18-0173	

WELL LOG Not required for driven wells STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th rowspan="2">DESCRIPTION (Use additional sheets if needed)</th> <th colspan="2">FEET</th> <th rowspan="2">check if water bearing</th> </tr> <tr> <th>FROM</th> <th>TO</th> </tr> </thead> <tbody> <tr> <td>SOIL</td> <td>0</td> <td>5</td> <td></td> </tr> <tr> <td>Brown Shale</td> <td>5</td> <td>50</td> <td></td> </tr> <tr> <td>Light Brown Shale</td> <td>50</td> <td>75</td> <td></td> </tr> <tr> <td>Brown Shale</td> <td>75</td> <td>95</td> <td></td> </tr> <tr> <td>Med Gray Rock</td> <td>95</td> <td>600</td> <td></td> </tr> <tr> <td></td> <td>570</td> <td></td> <td></td> </tr> </tbody> </table>	DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing	FROM	TO	SOIL	0	5		Brown Shale	5	50		Light Brown Shale	50	75		Brown Shale	75	95		Med Gray Rock	95	600			570			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 11 NO. OF POUNDS 350 GALLONS OF WATER 275 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 100 ft. <small>(enter 0 if from surface)</small> CASING RECORD casing types insert appropriate code below <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>ST STEEL</td> <td>CO CONCRETE</td> </tr> <tr> <td>PL PLASTIC</td> <td>OT OTHER</td> </tr> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>MAIN CASING TYPE</th> <th>Nominal diameter top (main) casing (nearest inch)</th> <th>Total depth of main casing (nearest foot)</th> </tr> <tr> <td>PL</td> <td>6</td> <td>100</td> </tr> <tr> <td>60 61</td> <td>63 64</td> <td>66 67 70</td> </tr> </table> OTHER CASING (if used) diameter inch depth (feet) from to EACH CASING _____ SCREEN RECORD screen type or open hole (insert appropriate code below) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>ST STEEL</td> <td>BR BRASS</td> <td>HO OPEN HOLE</td> </tr> <tr> <td>PL PLASTIC</td> <td>OT OTHER</td> <td></td> </tr> </table>	ST STEEL	CO CONCRETE	PL PLASTIC	OT OTHER	MAIN CASING TYPE	Nominal diameter top (main) casing (nearest inch)	Total depth of main casing (nearest foot)	PL	6	100	60 61	63 64	66 67 70	ST STEEL	BR BRASS	HO OPEN HOLE	PL PLASTIC	OT OTHER	
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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. W D 355 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) WRB 113 LIC. NO. WRB 113 SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)	C 2 DEPTH (nearest ft.) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>1 100</td> <td>2 600</td> </tr> <tr> <td>8 9 11 15 17 21</td> <td>23 24 26 30 32 36</td> </tr> <tr> <td>38 39 41 45 47 51</td> <td></td> </tr> </table> SLOT SIZE 1 _____ 2 _____ 3 _____ DIAMETER OF SCREEN (NEAREST INCH) from _____ to _____ 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	1 100	2 600	8 9 11 15 17 21	23 24 26 30 32 36	38 39 41 45 47 51	
1 100	2 600						
8 9 11 15 17 21	23 24 26 30 32 36						
38 39 41 45 47 51							

C 3 PUMPING TEST HOURS PUMPED (nearest hour) 6.75 PUMPING RATE (gal. per min.) 15 METHOD USED TO MEASURE PUMPING RATE Wash/Bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 516 ft. WHEN PUMPING 261 ft. TYPE OF PUMP USED (for test) <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>A air</td> <td>P piston</td> <td>T turbine</td> </tr> <tr> <td>C centrifugal</td> <td>R rotary</td> <td>O other (describe below)</td> </tr> <tr> <td>J jet</td> <td>S submersible</td> <td></td> </tr> </table>	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 N 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 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 (nearest foot) - below } 1
A air	P piston	T turbine								
C centrifugal	R rotary	O other (describe below)								
J jet	S submersible									

LATITUDE 39.14420 LONGITUDE 76.90957 (DEFAULT COORD. WGS 84)	Pursuant to §10-624 of the State Govt. Article of the Maryland Code personal info. requested on this form is used in processing this form pursuant to COMAR 26.04.04. Failure to provide the info. may result in this form not being processed. You have the right to inspect, amend, or correct this form. The Maryland Department of the Environment is subject to the Maryland Public Information Act. This form may be made available on the Internet via MDE's website and is subject to inspection or copying, in whole or in part, by the public and other governmental agencies, if not protected by federal or state law.
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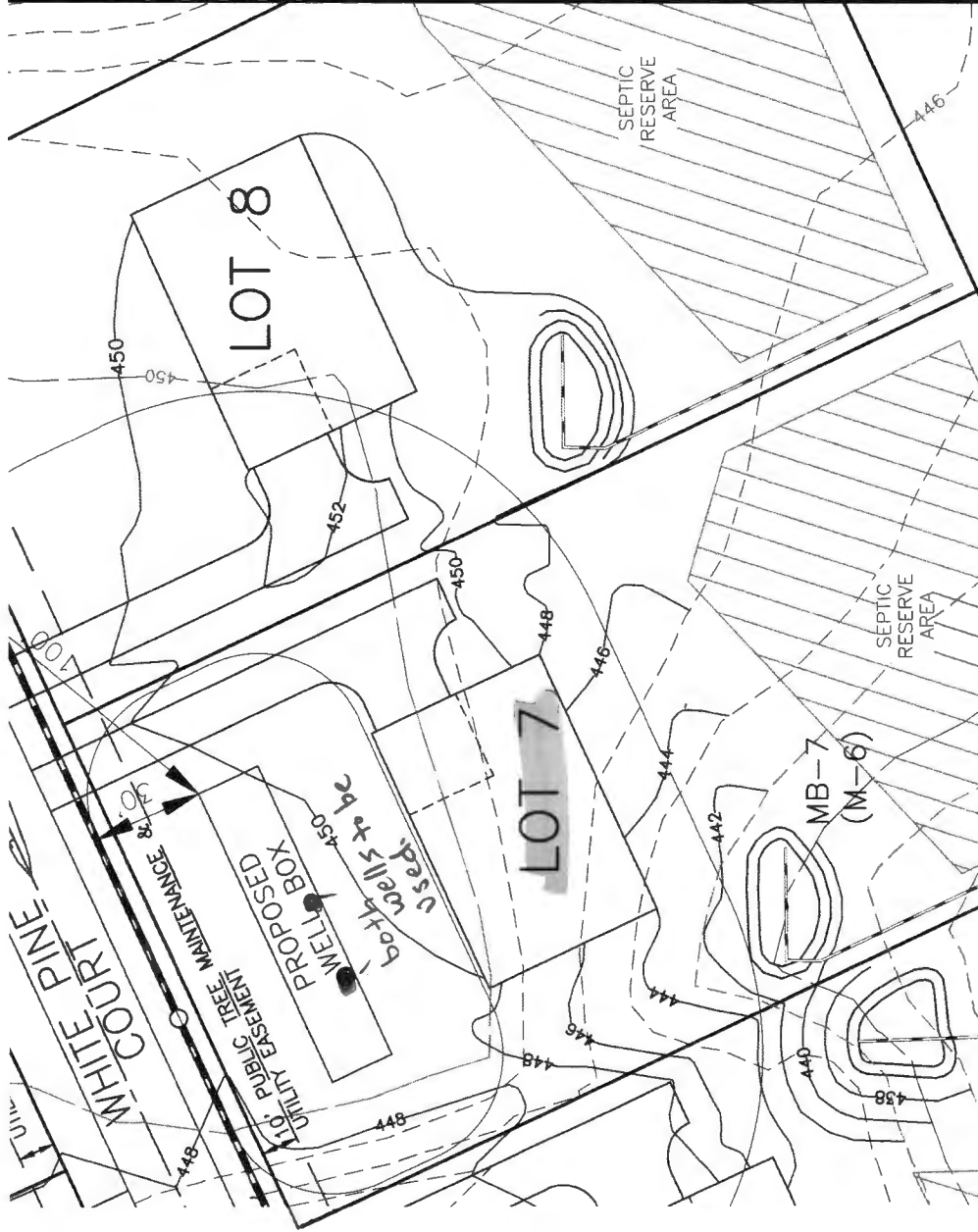


MICHAEL BARLOW WELL DRILLING & SERVICE, INC.
 522 Underwood Lane Bel Air, Maryland 21014
 (410) 838-6910 Fax (410) 838-3582

WELL YIELD REPORT

Date Test Completed:		February 27, 2020	
Well Depth:		600 feet	
Customer	OCR Development	Permit #	HO-18-0173
Road	Old Columbia Rd	Subdivision	Evergreen Farm
City	Fulton	Section	Well #1
State	MD	Lot #	7

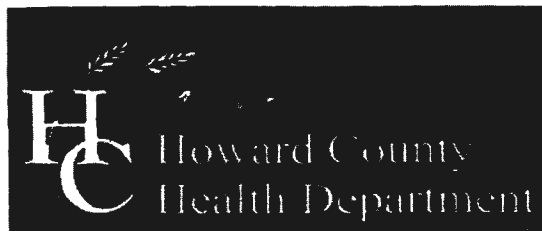
Time	Water Level feet Pump set at 300'	Time to Fill 1-gallon bucket seconds	G.P.M.
9:30 AM	51'6"	4	15.00
9:45 AM	175'	5	12.00
10:00 AM	258	60	1.00
10:15 AM	261'	80	0.75
10:30 AM	261'	80	0.75
10:45 AM	261'	80	0.75
11:00 AM	261'	80	0.75
11:15 AM	261'	80	0.75
11:30 AM	261'	80	0.75
11:45 AM	261'	80	0.75
12:00 PM	261'	80	0.75
12:15 PM	261'	80	0.75
12:30 PM	261'	80	0.75
12:45 PM	261'	80	0.75
1:00 PM	261'	80	0.75
1:15 PM	261'	80	0.75
1:30 PM	261'	80	0.75
1:45 PM	261'	80	0.75
2:00 PM	261'	80	0.75
2:15 PM	261'	80	0.75
2:30 PM	261'	80	0.75
2:45 PM	261'	80	0.75
3:00 PM	261'	80	0.75
3:15 PM	261'	80	0.75
3:30 PM	261'	80	0.75
3:45 PM	261'	80	0.75
4:00 PM	261'	80	0.75
4:15 PM	261'	80	0.75
4:30 PM	261'	80	0.75
4:45 PM	261'	80	0.75
This yield test report is for informational purposes only. Please note the yield may increase or decrease over time and the GPM indicated above is not a guarantee.			



Well box & site ok
RV 2/5/20

HD-18-0173

1" = 50'



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

Dr. Maura J. Rossman, M.D., 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:

Evergreen Farm	LOTS 1, 2, 7 + 8	OLD Columbia Road FULTON, MD
Subdivision/Property Name	Lot #	Road Name

☒ The well site has been staked by Benchmark Engineering
(professional land surveyor or company employing professional land surveyors)
on 1/30/20 (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.

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

MEMORANDUM

TO: Michael Barlow Well Drilling (Michael Barlow MWD 355)

FROM: Ryan Rappaport, L.E.H.S. 
Well and Septic Program

DATE: February 5, 2020

RE: **SPECIAL CONDITIONS: Evergreen Farm Lots 1, 2, 7 and 8**

There are special conditions for the well permits associated with Evergreen Farm. See specific requirements below for lots 1, 2, 7 and 8.

LOT 1

- The well on Lot 1 will require TDS, sodium and chloride water samples during the yield test.
- The well on Lot 1 must be drilled on the back edge of the well box (furthest away from the proposed road for the subdivision)

LOT 2

- The well on Lot 2 must be drilled on the back edge of the well box (furthest away from the proposed road for the subdivision)

LOT 7

- The well on Lot 7 must be drilled on the back edge of the well box (furthest away from the proposed road for the subdivision)

LOT 8

- The well on Lot 8 will require TDS, sodium and chloride water samples during the yield test.
- The well on Lot 8 must be drilled on the back edge of the well box (furthest away from the proposed road for the subdivision)

All drilling, grouting and yields must be called into the Health Department for inspection. For scheduling please call 410-313-1771.

Cc: File

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

Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations).

Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: Fogle's Well Pump + Water Treatment, LLC Telephone #: 410-795-1535

Address: P.O. Box 63

Woodbine, Maryland 21797

Must circle one: Licensed Plumber / Licensed Well Driller / Licensed Well Pump Installer

License # and name of individual responsible for the field installation:

Name (Print): Dave C. Fogle License# MSD226

***A licensed individual must perform the actual installation. Apprentices must be under the supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification. Unlicensed individuals may be reported to the appropriate licensing agency.**

Name of Property Owner: Williamsburg Homes Telephone #: _____

Subdivision: _____

Lot #: _____

Well Tag #: _____

Site Address: 4225 White Pine Circle

Fulton, MD 20759

HO-18-0173 600' .75gpm
HO 20-0034 600' .55gpm

Submersible Pump Data

Make: Goulds

Model #: 5HS1042 Z

Pump Capacity 5

Well Yield: .55, .75

Depth of well encountered at time of pump installation: 600 (feet)

If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4

Must circle one: Torque arrestors / Cable guards / Other acceptable method used

Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing N/A

Pitless Adapter

Make: Campbell

Model#: N/A

GPM Depth: 36" (36" min)

GPM NSF/WSC approved: yes

Well Cap and Electric Conduit

Two piece watertight cap: yes

Screened, vented well cap: yes

Cap secured to casing: yes

Conduit min 18" B.G.: yes

Conduit secured to well cap: yes

Piping to house

Type: 1" poly pipe

PSI: 200 psi (160 psi min)

Depth of supply line: 36" (36" min)

House Connection

PVC sleeve to undisturbed soil at wall penetration: yes

Length of sleeve (5' minimum from foundation): 6'

Sleeve sealed properly: yes

The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative responsible for installation

Date 11/21/2023

For Health Department Use Only – Not to be completed by Installer

Date Insp. Requested: 11/23/2023 Date Insp. Approved: 12/1/2023 Inspector: _____

Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade _____

Two piece cap installed and attached to casing securely _____

Elec. conduit extends at least 18" below grade/attached to cap properly _____

Safety rope not outside of well cap/casing _____

Correct well tag attached properly and casing 8" above finished grade _____

Water supply line sleeved adequately at house connection _____

Adequate grout observed below pitless adapter _____

RECEIPT

Howard County, MD
HOWARD COUNTY HEALTH DEPARTMENT
ASCEND ONE BUILDING
Columbia, MD 21045
8930 STANFORD BLVD

Application: WS-SP-APP-23-00244

Application Type: EnvHealth/Well and Septic/Sewage Disposal System/Application

Address: 8225 WHITE PINE CT, FULTON, MD 20759

Receipt No.	8532					
Payment Method	Ref Number	Amount Paid	Payment Date	Cashier ID	Received	Comments
Check	4674	\$496.00	12/14/2023	SMARTIN		PREVIOUSLY PAID 10/27/23

Owner Info.: WILLIAMSBURG GROUP
5485 HARPERS FARM ROAD
COLUMBIA, MD 21044

Work Description: FULTON HILL LOT 7

Page, Shepsura

From: Page, Shepsura
Sent: Thursday, November 30, 2023 9:28 AM
To: Michael Isom
Subject: Re: 8225 White Pine Court
Attachments: Image.jpeg; IMG_3935.3gp

Hey Mike, I've attached a pic and video of the void. I'll be mailing out your well tag today as well.

Get [Outlook for iOS](#)

From: Michael Isom <misom@mbwd.us>
Sent: Thursday, November 30, 2023 9:09:24 AM
To: Page, Shepsura <spage@howardcountymd.gov>
Subject: 8225 White Pine Court

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

The builder indicated there was an issue with the grout when you did the ditch line inspection. What did you see (or not see)? Have they added any grade there? I am certain that I did a walk around on that site after we finished to make sure all tags were on and grout was visible at the surface.

Michael Isom
Senior Project Manager
Michael Barlow Well Drilling
410-838-6910

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – September 11, 2024

March 11, 2024

Homeowner
8225 White Pine Court
Fulton, MD 20759

RE: Fulton Hill, Lot 7
8225 White Pine Ct.
Building Permit: B23002240
Well Permit: HO-18-0173, HO-20-0034

Dear Homeowner:

This is to advise you that the septic system installation and water well construction for the above referenced property have been inspected and approved. Final approval of the septic system was granted on **11/22/2023**. Final approval of the well line connection to the dwelling was granted on **12/1/2023**. The well construction was completed on **2/7/2020**. Water samples were collected on **2/20/2024, 3/5/2024**.

The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking. This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit HO-18-0173, HO-20-0034. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

This Interim Certificate of Potability will expire **six months** from the date of issuance. Submission of a second bacteriological test indicating the water is free of coliform and fecal coliform bacteria is required prior to the expiration date, after which time a Final Certificate of Potability will be issued. **Failure to submit an additional sample and obtain a Final Certificate of Potability will result in a Notice of Violation and is punishable as a misdemeanor under the *Annotated Code of Maryland, Environment Article, 9-1311*, subject to a fine of up to \$500 or imprisonment not to exceed three months.**

Please contact (410) 313-1773 to schedule a final water sample appointment or contact a Maryland certified water laboratory to schedule a water sample. A list of laboratories certified by the state of Maryland may be found at the following website:
<http://www.mde.state.md.us/assets/document/WSP-Labs-2010apr16.pdf>



Bureau of Environmental Health
8930 Stanford Blvd | Columbia, MD 21045
410.313.2640 - Voice/Relay
410.313.2648 - Fax
1.866.313.6300 - Toll Free

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

In closing, please refer to our "[Homeowner Fact Sheet](#)" which illustrates a better understanding for your Onsite Sewage Disposal System. You will also find a link to Maryland Department of the Environments website which describes in further detail operation and maintenance of your septic system.

Approving Authority,

Kevin M. Wolf, LEHS, R.S./REHS, Supervisor
Groundwater Management Section
Well & Septic Program

cc: Howard County Dept. of Inspections, Licenses, and Permits
Community Hygiene Program
File

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554

REPORT OF ANALYSIS

Laboratory ID #:	164523	Account #:	1933
Reference:	Fulton Hills Lot 7	Client:	Fogle's Well Pump & Treatment
Location:	8225 White Pine Court	Requested By:	Dave Fogle
	Fulton, MD 20759	Source:	Well Water
Date/ Time Collected:	2/20/2024 0900	Site:	At Pressure Tank/Front Yard Well
Date/Time Rec'd:	2/20/2024 1320	Treatment:	None
Chlorine ppm:	Free: ND Total: ND	pH:	6.9
Collected By:	T. Cassell 0767TC	Well #:	HO-20-0034

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	2/21/2024 / 0845 / CRS
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	2/21/2024 / 0845 / CRS
Nitrate.	0.87	mg/L (as N)	10	EPA 300.0	2/20/2024 / 1900 / CRS
Turbidity	22.4	NTU	<10	SM2130B	2/21/2024 / 1135 / KDR
Sand	>5	mg/L	5	Visual/Gravimetric	2/21/2024 / 1150 / KDR

NOTES:

- 1 mg/L = milligrams per liter (also, parts per million)
- 2 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 3 NTU = Nephelometric Turbidity Units
- 4 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 5 Sample collected by client, analyzed as received
- 6 ND:None Detected
- 7 Visual well check: Sealed, vented cap
- 8 pH and Chlorine level tested in lab (pH tested after recommended holding time)

Reason for Test : Use & Occupancy

Building Permit # : B23002240

Date Reported: 2/21/2024

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554

REPORT OF ANALYSIS

Laboratory ID #: 164524 Account #: 1933
Reference: Fulton Hills Lot 7 Client: Fogle's Well Pump & Treatment
Location: 8225 White Pine Court Requested By: Dave Fogle
Fulton, MD 20759 Source: Well Water
Date/ Time Collected: 2/20/2024 0900 Site: At Pressure Tank/Driveway Well
Date/Time Rec'd: 2/20/2024 1320 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 6.9
Collected By: T. Cassell 0767TC Well #: HO-18-0173

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	5.3	MPN/ 100 ml	<1.0	SM20 9223B	2/21/2024 / 0845 / CRS
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	2/21/2024 / 0845 / CRS
Nitrate.	0.68	mg/L (as N)	10	EPA 300.0	2/20/2024 / 2024 / CRS
Turbidity	25.5	NTU	<10	SM2130B	2/21/2024 / 1135 / KDR
Sand	>5	mg/L	5	Visual/Gravimetric	2/21/2024 / 1150 / KDR

NOTES:

- 1 mg/L = milligrams per liter (also, parts per million)
- 2 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 3 NTU = Nephelometric Turbidity Units
- 4 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 5 Sample collected by client, analyzed as received
- 6 ND:None Detected
- 7 Visual well check: Sealed, vented cap
- 8 pH and Chlorine level tested in lab (pH tested after recommended holding time)

Reason for Test : Use & Occupancy

Building Permit # : B23002240

Date Reported: 2/21/2024

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554

REPORT OF ANALYSIS

Laboratory ID #:	164808	Account #:	1933
Reference:	Fulton Hills Lot 7	Client:	Fogle's Well Pump & Treatment
Location:	8225 White Pine Court	Requested By:	Dave Fogle
	Fulton, MD 20759	Source:	Well Water
Date/ Time Collected:	3/5/2024 0730	Site:	At Pressure Tank/Front Yard Well
Date/Time Rec'd:	3/5/2024 0945	Treatment:	None
Chlorine ppm:	Free: ND Total: ND	pH:	6.9
Collected By:	T. Cassell 0767TC	Well #:	HO-20-0034

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	3/6/2024 / 1030 / KDR
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	3/6/2024 / 1030 / KDR
Turbidity	1.96	NTU	<10	SM2130B	3/5/2024 / 1440 / KDR
Sand	ND	mg/L	5	Visual/Gravimetric	3/6/2024 / 1210 / KDR

NOTES:

- 1 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 2 NTU = Nephelometric Turbidity Units
- 3 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 4 ND:None Detected
- 5 Visual well check: Sealed, vented cap
- 6 pH and Chlorine level tested in lab (pH tested after recommended holding time)

Reason for Test : Use & Occupancy
Building Permit # : B23002240

Date Reported: 3/6/2024

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554

REPORT OF ANALYSIS

Laboratory ID #: 164808 Account #: 1933
Reference: Fulton Hills Lot 7 Client: Fogle's Well Pump & Treatment
Location: 8225 White Pine Court Requested By: Dave Fogle
Fulton, MD 20759 Source: Well Water
Date/ Time Collected: 3/5/2024 0730 Site: At Pressure Tank/Driveway Well
Date/Time Rec'd: 3/5/2024 0945 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 6.8
Collected By: T. Cassell 0767TC Well #: HO-18-0173

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Turbidity	1.96 ✓	NTU	<10	SM2130B	3/5/2024 / 1440 / KDR
Sand	ND ✓	mg/L	5	Visual/Gravimetric	3/6/2024 / 1210 / KDR
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	3/6/2024 / 1030 / KDR
Bacteria, E. coli, MPN	<1.0 ✓	MPN/ 100 ml	<1.0	SM20 9223B	3/6/2024 / 1030 / KDR

NOTES:

- 1 Report Revised to correct well site and tag information. 3/6/24 CH.
- 2 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 3 NTU = Nephelometric Turbidity Units
- 4 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 5 ND:None Detected
- 6 Visual well check: Sealed, vented cap
- 7 pH and Chlorine level tested in lab (pH tested after recommended holding time)

Reason for Test : Use & Occupancy
Building Permit # : B23002240

Date Reported: 3/6/2024

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554

REPORT OF ANALYSIS

Laboratory ID #:	164809	Account #:	1933
Reference:	Fulton Hills Lot 7	Client:	Fogle's Well Pump & Treatment
Location:	8225 White Pine Court	Requested By:	Dave Fogle
	Fulton, MD 20759	Source:	Well Water
Date/ Time Collected:	3/5/2024 0730	Site:	At Pressure Tank/Front Yard Well
Date/Time Rec'd:	3/5/2024 0945	Treatment:	None
Chlorine ppm:	Free: ND Total: ND	pH:	6.4
Collected By:	T. Cassell 0767TC	Well #:	HO-20-0034

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Turbidity	0.72	NTU	<10	SM2130B	3/5/2024 / 1440 / KDR
Sand	ND	mg/L	5	Visual/Gravimetric	3/6/2024 / 1210 / KDR

NOTES:

- 1 NTU = Nephelometric Turbidity Units
- 2 ND:None Detected
- 3 Visual well check: Sealed, vented cap
- 4 pH and Chlorine level tested in lab (pH tested after recommended holding time)

Reason for Test : Use & Occupancy

Building Permit # : B23002240

Date Reported: 3/6/2024


**MICHAEL BARLOW WELL DRILLING
522 UNDERWOOD LANE
BEL AIR, MD 21014
410-838-6910**

Howard County Health Department
7178 Columbia Gateway Drive
Columbia, MD 21046
Attn: Kevin Wolf

July 10, 2020

Re: Evergreen Farm – Lot 7

We were not able to locate a well producing 1 gpm or higher on lot 7, but we do have two wells that produced .5 gpm or more when tested simultaneously that the developer would like utilize as a tandem supply to meet the requirement. I have enclosed a second well permit application and the completion report along with this letter. Once issued, we would return to the site to attach the tag to the well.



Michael Barlow
MWD355

**MICHAEL BARLOW WELL DRILLING
522 UNDERWOOD LANE
BEL AIR, MD 21014
410-838-6910**

Howard County Health Department
7178 Columbia Gateway Drive
Columbia, MD 21046
Attn: Ryan Rappaport

September 10, 2020

Re: Evergreen Farm

Mr. Rappaport,

We received your email outlining your review of our completion reports for the Evergreen Farm project and have responded to each bullet point below.

- 1)The full size plan showing our attempts and septic areas for the subdivision will need to be supplied by the developer, but we will forward a copy of your email to them as a reminder.
- 2)The successful (1.5 gpm) well on lot 2 was not drilled until March 4, 2020 and was tested on March 13th as indicated on the yield report. The supplemental well was pumped on February 27th in tandem with another attempt to determine if together they would meet the 1 gpm requirement. The other attempt would not maintain at least ½ gpm so the test was stopped a couple hours into it and that other attempt was labeled a dry hole and abandoned. That failed test forced us to continue drilling, which resulted in the 1.5 gpm well. Since we had a well that met the 1 gpm requirement on it's own and we were not utilizing the supplemental well to meet that requirement, we did not test those two wells in tandem. I will provide you a copy of the abbreviated test for the supplemental well and if your office mandates that they be tested in tandem, will advise the developer of that requirement. Both of the wells are within the approved well area and will be located on the final plan.
- 3)The completion report for lot 4 should have shown 1 unsuccessful well to match the abandonment report provided. Should I send a revision or will you make to correction on your end.
- 4)There are no issues with the well on lot 5. The incident on 1/29/20 was the result of a ongoing personality conflict between your inspector and our driller, which has been discussed with Kevin Wolf and John Boris. Kevin Wolf made a site visit himself later that day to speak with our driller and contacted our office. Mr. Wolf is well aware of this incident and should be contacted if you need further information.

- 5)Only one attempt was made on lot 6 which resulted in the 4 gpm well.
- 6)The tag will be attached to the supplemental well on lot 7 once it has been received.
- 7)Please notify the developer that the request to use HO-81-2161 has been refused and that a site plan showing a new well area will need to be submitted along with a new well permit application before drilling can continue
- 8)The missing data on the yield report for HO-18-0129 and completion report for the supplemental well is an oversight on our part. I will send you revisions of both. Once we receive the tag for the supplemental well, it will be attached to the well casing.

Michael Barlow
MWD355

Rappaport, Ryan

From: Rappaport, Ryan
Sent: Tuesday, August 11, 2020 10:28 AM
To: Mike Isom (misom@mbwd.us)
Cc: Williams, Jeffrey; Wolf, Kevin; Cabahug, Joseph; Thomas, Susan; Oswald, Hank
Subject: Evergreen Farm - well requirement update

Hello Mike, I've had an opportunity to review the Evergreen Farm well package that you sent in July and was able to discuss it with Jeff and Kevin. Listed below are the follow up requirements needed by Barlow Well Drilling

- A full size plan showing the exact location of all the wells, supplemental wells, dry holes, current well boxes and septic areas for lots 1-8.
- The yield test for the first successful well on lot 2 with 1.5 gpm (well tag # HO-18-0172) was reported by the inspector to be completed on 2/27/20 but the yield report provided by Barlow is dated 3/13/2020. Please explain the discrepancy. Your request for the additional well on lot 2 at .75 gpm has been approved however there was no well exhibit or yield test data provided with the submittal. Please provide a well site plan for the supplemental well and according to COMAR 26.04.04.26 (H)(4) these two wells on lot 2 will need to be yield tested at the same time.
- The completion report for lot 4 (well tag # HO-18-0165) notes that there were no unsuccessful wells however the driller submitted an abandonment report for a 600' dry hole on this lot. Please clarify this discrepancy.
- On 1/29/2020 the driller refused a drilling inspection for Lot 5 (HO-18-0166), please explain. Is there an issue with this well that needs to be reported to the Health Dept?
- There's a note on the well exhibit for lot 6 which claims there was a dry hole drilled on this lot but the completion reports states that there were no unsuccessful wells. Please clarify and if there is a dry hole on this lot please provide an abandonment report and make note of it on the full size plan which has been requested.
- The supplemental well for lot 7 has all the necessary submittals and has been approved. The approved permit with a well tag will be sent to Barlow Well Drilling in the mail.
- The request to yield the 8250 Old Columbia Rd existing well (tag # HO-81-2161) and use it to serve lot 8 by using an easement designation has been denied. The HO-81-2161 well is not noted on any plan provided to the Health Dept. Lot 8 will require a successful well within the lot boundaries in order to be a buildable lot. If the developer wants to maintain this as a buildable lot, a new well box will need to be reviewed by the Well & Septic Supervisor and must meet all required setbacks. The new proposed well box should be noted on the requested full size plan for review.
- The depth at which the pump was set for the well yield report for the Parcel A lot (tag# HO-18-0129) must be provided. The grouting record on the completion report for the Parcel A supplemental well is missing and must also be provided. The supplemental well permit application has been approved and the permit along with a well tag will be sent to Barlow once this Parcel A additional information has been provided to the Health Dept.

Ryan Rappaport, LEHS
Howard County Health Department
Bureau of Environmental Health

Williams, Jeffrey

From: amiller@bei-civilengineering.com
Sent: Wednesday, October 16, 2019 9:16 AM
To: Williams, Jeffrey
Subject: RE: F-18-047 Fulton Hill

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

I think we'll do the box – that way if they do have a well that doesn't make it, they will know where the limits are.

Thanks for the response!

Alice A. Miller, P.E.
410-465-6105 (voice)

From: Williams, Jeffrey <jewilliams@howardcountymd.gov>
Sent: Wednesday, October 16, 2019 9:09 AM
To: 'amiller@bei-civilengineering.com' <amiller@bei-civilengineering.com>
Subject: RE: F-18-047 Fulton Hill

That note looks fine. If you want to just stake the individual well site at the back, that is also fine, just make sure the staked location is the same as the little w circle on the plan and it wouldn't hurt to add a little note to the plan indicating that just the well site is staked, not the whole box.

From: amiller@bei-civilengineering.com <amiller@bei-civilengineering.com>
Sent: Tuesday, October 15, 2019 3:39 PM
To: Williams, Jeffrey <jewilliams@howardcountymd.gov>
Subject: RE: F-18-047 Fulton Hill

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Jeff – I'm starting the well exhibits for this plan, and since we discussed locating the wells at the rear of the box, I think we'll show and stake a single location within the well box. I also added a note (below and on the right side of the plan view). Let me know if you would like this to read differently. I'm going to try to wrap this up tomorrow (Wednesday, Oct 16), so if you haven't had a chance to look before then, your reviewer may see them coming in soon.

Alice A. Miller, P.E.
410-465-6105 (voice)

From: Williams, Jeffrey <jewilliams@howardcountymd.gov>
Sent: Thursday, October 10, 2019 9:31 AM
To: 'amiller@bei-civilengineering.com' <amiller@bei-civilengineering.com>
Cc: Oswald, Hank <hoswald@howardcountymd.gov>; Edmondson, Chad <cedmondson@howardcountymd.gov>; Thompson, Phil <pthompson@howardcountymd.gov>; Chris Malagari <cmalagari@bei-civilengineering.com>
Subject: RE: F-18-047 Fulton Hill

We stake

Thanks Alice. We'll take the SDP location of the other well to confirm 50+' separation.

As for the other wells, I had forgotten our previous discussions about the swales. In the 3 years since, we've tightened down even more on trying to prevent road salt problems, but we will honor what we agreed to on this project. I would like to make sure that the initial wells on those lots get drilled at the back edge of the well boxes to maximize separation. We'll note it in the file and when you go to drill, maybe we can just have the back edge line staked for the driller.

Chad: we'll accept this as-is. Thanks for looking out and sorry for the couple day limbo based on me forgetting that we did this already back in 2016.

Jeff

From: amiller@bei-civilengineering.com <amiller@bei-civilengineering.com>

Sent: Wednesday, October 09, 2019 2:23 PM

To: Williams, Jeffrey <jewilliams@howardcountymd.gov>

Cc: Oswald, Hank <hoswald@howardcountymd.gov>; Edmondson, Chad <cedmondson@howardcountymd.gov>; Thompson, Phil <pthompson@howardcountymd.gov>; Chris Malagari <cmalagari@bei-civilengineering.com>

Subject: RE: F-18-047 Fulton Hill

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Jeff – DED brought this up during the development reviews. We confirmed with the Health Department that the minor 'disconnection' drainage areas near lots 1-4, and 6-8 would be allowable and 'not be considered a swale'. (see attached) The inlets capture these minor flows.

We didn't field location the well (I can't say why, except that so much of the Church's sign was on 'our' property that the field guys probably already thought they had gone far enough). However, we did locate it from the church's SDP. On the attached plan, you can see that the well is about 49' (maybe even 50'). The outside edge of the swale is 3.4' off the property, so the well is 52.4' off the swale.

Alice A. Miller, P.E.
410-465-6105 (voice)

From: Williams, Jeffrey <jewilliams@howardcountymd.gov>

Sent: Wednesday, October 9, 2019 1:19 PM

To: AMILLER@BEI-CIVILENGINEERING.COM

Cc: Oswald, Hank <hoswald@howardcountymd.gov>; Edmondson, Chad <cedmondson@howardcountymd.gov>; Thompson, Phil <pthompson@howardcountymd.gov>

Subject: F-18-047 Fulton Hill

Hello Alice. DED caught something on the plat supplemental for this project. There are roadside swales and inlets less than 50' from the wellboxes on lots 1-4 and 6-8. The well on St. Francis lot 1 may be less than 50' from the entrance roadside swale, the plan just says approximate well location and shows it 56' away.

The perc cert we signed in 2018 contained a note that stated all wells would be over 50' from roadside swales or curb and gutter would be utilized. We need this to be revised before we can sign the plat or release any well permits. Thanks

Jeff Williams
Program Supervisor, Well & Septic Program
Bureau of Environmental Health
Howard County Health Dept.
410-313-4261

Williams, Jeffrey

From: Oswald, Hank <hoswald@howardcountymd.gov>
Sent: Thursday, October 20, 2016 8:39 AM
To: Alice Miller
Subject: RE: Health Department conversation record
Attachments: Evergreen Farms SWM and Grading.pdf

Hi Alice:

We never take a setback from sheet flow credit, only actual devices or graded swales. In terms of the swale, we have agreed to consider the grading as shown on the attached sheet to be minor enough in nature to not take a 50' setback.
Hank

From: Alice Miller [mailto:amiller@bei-civilengineering.com]
Sent: Thursday, October 20, 2016 7:45 AM
To: Oswald, Hank
Cc: Billy Seay; Chris Malagari
Subject: RE: Health Department conversation record

Hank – Can you provide a confirmation (or correction!) on this? I need to send something to DED before they reject the ECP again.

Thank you,

Alice A. Miller, P.E.
410-465-6105 (voice)

From: Alice Miller [mailto:amiller@bei-civilengineering.com]
Sent: Tuesday, October 04, 2016 1:09 PM
To: Oswald, Hank (hoswald@howardcountymd.gov)
Cc: Billy Seay; Chris Malagari (cmalagari@bei-civilengineering.com)
Subject: Health Department conversation record

Hank;

For the purpose of documentation for plan submission, following are the issues DED raised, which we've discussed, and the resolutions:

Driveway sheetflow disconnections may overlap well boxes.

Swales must be 50' from well boxes, but given the minor nature of the road, the sheetflow disconnection treatment of the flow, and the minor drainage area, the conveyance swales in front of Lots 2,3,4,6 and 7 may be allowed.

Please confirm, or clarify if I've misstated anything!

Alice A. Miller, P.E.
Benchmark Engineering, Inc.
8480 Baltimore National Pike, Suite 315
Ellicott City, Maryland 21043
410-465-6105 (voice)
410-465-6644 (fax)

From: Williams, Jeffrey <jewilliams@howardcountymd.gov>
Sent: Thursday, December 19, 2019 8:18 AM
To: Oswald, Hank <hoswald@howardcountymd.gov>
Subject: RE: F-18-047

Yes. Page 12 has a decent view if you look close, you can see the little double lines of where the curb starts around the cul de sac. Page 3 has a profile of the curb and gutter. Don't forget to check the file to make sure the lots along the road leading to the cul de sac have a note in red marker on the folder cover saying the wells shall be drilled in the back edge of the well box. That is what we agreed with them to allow the stretch leading to the cul de sac to not have curb and gutter.

From: Oswald, Hank
Sent: Wednesday, December 18, 2019 10:59 AM
To: Williams, Jeffrey <jewilliams@howardcountymd.gov>
Subject: F-18-047

Hi Jeff:

Does this plan show curb and gutter? It's hard to tell.

Thanks,

Hank

Hank Oswald
Licensed Environmental Health Specialist
Howard County Health Department
Bureau of Environmental Health
Well & Septic Program
8930 Stanford Boulevard
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