

C1 67894

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

COUNTY NUMBER III

ST/CO USE ONLY DATE RECEIVED MM PD YY 10 12 27

DATE WELL COMPLETED MM PD YR 01 18 19

Depth of Well 600 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-18-0015

OWNER ELM Street Development WELL SITE ADDRESS last name Green Bridge Rd first name TOWN Dayton SUBDIVISION Simpson Property SECTION LOT 28

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 FROM TO check if water bearing. SOIL 0 4, Brown Shale 4 50, Med Gray Rock 50 145, Hard Gray Rock 145 286, Med Gray Rock 286 600.

GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box) YES [Y] NO [N]. TYPE OF GROUTING MATERIAL (Circle one) CEMENT [CM] BENTONITE CLAY [BC]. NO. OF BAGS 28 NO. OF POUNDS 2100. GALLONS OF WATER 140. DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 63 ft.

CASING RECORD casing types insert appropriate code below. MAIN CASING TYPE [ST] Nominal diameter top (main) casing (nearest inch)! 6 Total depth of main casing (nearest foot) 63.

OTHER CASING (if used) diameter inch depth (feet) from to. A C H I N G

SCREEN RECORD screen type or open hole (insert appropriate code below). [ST] STEEL [BR] BRASS [HO] OPEN HOLE [PL] PLASTIC [OT] OTHER.

C2 DEPTH (nearest ft.) 1 2 HO 63 600. TABLE with columns 1-9, 11-17, 23-26, 30-32, 38-41, 45-47, 51. SLOT SIZE 1 2 3. DIAMETER OF SCREEN (NEAREST INCH) 56 60.

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. TELESCOPE CASING LOG INDICATOR OTHER DATA.

C3 PUMPING TEST. HOURS PUMPED (nearest hour) 3. PUMPING RATE (gal. per min.) 6.0. METHOD USED TO MEASURE PUMPING RATE watch/bucket. WATER LEVEL (distance from land surface) BEFORE PUMPING 34 ft. WHEN PUMPING 194' 2" ft. TYPE OF PUMP USED (for test) [S] submersible.

PUMP INSTALLED DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES [X] 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) [X] above LAND SURFACE 1 (nearest foot) below.

NUMBER OF UNSUCCESSFUL WELLS: 0. WELL HYDROFRACTURED YES [Y] NO [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 D 355. DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. 1 D 113.

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

LATITUDE 39.23296 LONGITUDE 77.00032 (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.

TAG = 9/10/2017

B 1 SEQUENCE NO. (MDE USE ONLY) **63169** STATE OF MARYLAND STATE PERMIT NUMBER **HO-18-0075**
APPLICATION FOR PERMIT TO DRILL WELL please type **564793 B** fill in this form completely

OWNER INFORMATION
 Date Received (APA) **03/19/19**
 8 MM DD YY 13
Elm Street Development
 15 Last Name Owner First Name 34
1355 Beverly Road
 36 Street or RFD 55
McLean VA 22101
 57 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL
Howard
 8 COUNTY 21
Simpson Property
 23 SUBDIVISION 42
 SECTION **28** LOT **28**
 44 46 48 50
Dayton
 52 NEAREST TOWN 71

DRILLER INFORMATION
Michael Barlow M W D 355
 Driller's Name 76 License No. 81
Barlow Well Drilling
 Firm Name
522 Underwood Lane 21014
 Address
[Signature] 3-12-19
 Signature Date

B 4 SOURCES OF DRILLING WATER
 1. **Well**
 2.
 3.
Green Bridge Road
 11 STREET ADDRESS 30
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
 NORTH N
 WEST W EAST E
 SOUTH S
2750
1500
 34 37
 DISTANCE FROM ROAD
 ENTER FT OR MI 38 39
 TAX MAP: **27** BLK: **18** PARCEL

B 2 WELL INFORMATION
 1 2
 APPROX. PUMPING RATE **5**
 (GAL. PER MIN.) 8 12
 AVERAGE DAILY QUANTITY NEEDED **750**
 (GAL. PER DAY) 14 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)
 DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
 FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
 INDUSTRIAL, COMMERCIAL, DEWATERING
 PUBLIC WATER SUPPLY WELL
 TEST, OBSERVATION, MONITORING
 OPEN LOOP GEOTHERMAL
 CLOSED LOOP GEOTHERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
Howard
 COUNTY NAME COUNTY NO.
 STATE SIGNATURE INSERT S → 41
 DATE ISSUED **05/17/2019**
 43 MM DD YY 48 CO SIGNATURE EXP. DATE
05/17/2019 **05/17/2019**
DOY: 9/18/19

APPROXIMATE DEPTH OF WELL **300** FEET
 24 28

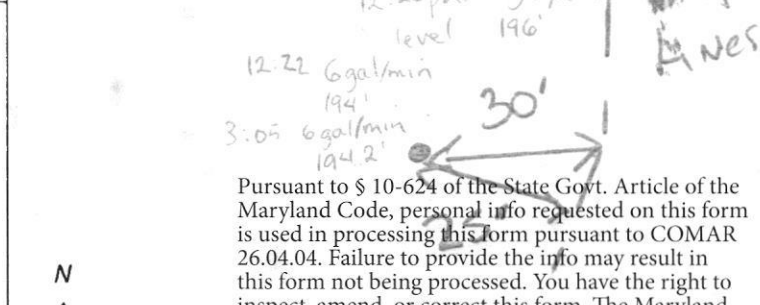
PROPOSED LOCATION OF WELL ON LOT
 SHOW PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL

APPROXIMATE DIAMETER OF WELL **6** INCH
 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

6/19/2019 **9/18/19**
32 @ 50' static: 34'
63' casing pump: 250'
 11:50 AM - start
 12:20 pm - 5 gal/min level 196'
 12:22 6 gal/min 194'
 3:05 6 gal/min 194.2'

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
 THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
 THIS WELL WILL DEEPEM 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)
 APPROP. PERMIT NUMBER **HO2017G001**
 PERMIT No. **HO-18-0075**
 70 71 72 73 74 75 76 77 78 79

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SPECIAL CONDITIONS
 NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED- **SFE ATT. MEMO 5/17/2019 UPDATE**



MICHAEL BARLOW WELL DRILLING & SERVICE, INC.

522 Underwood Lane
(410) 838-6910

Bel Air, Maryland 21014
Fax (410) 838-3582

WELL YIELD REPORT

Date Test Completed: September 18, 2019

Well Depth: 600 feet

Customer Elm Street Development
Road Green Bridge Rd
City Dayton
State Maryland

Permit # HO-18-0075
Subdivision Simpson Property
Section
Lot # 28

Time	Water Level feet Pump set at 250'	Time to Fill 1-gallon bucket seconds	G.P.M.
11:50 AM	34	4	15.00
12:05 PM	137	4	15.00
12:20 PM	196	12	5.00
12:22 PM	195	10	6.00
12:35 PM	194'6"	10	6.00
12:50 PM	194'4"	10	6.00
1:05 PM	194'4"	10	6.00
1:20 PM	194'4"	10	6.00
1:35 PM	194'4"	10	6.00
1:50 PM	194'3"	10	6.00
2:05 PM	194'3"	10	6.00
2:20 PM	194'2"	10	6.00
2:35 PM	194'2"	10	6.00
2:50 PM	194'2"	10	6.00
3:05 PM	194'2"	10	6.00
3:20 PM	194'2"	10	6.00
3:25 PM	194'2"	10	6.00
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.			

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: Toll Brothers Telephone #: _____
Subdivision: Willow Creek Lot #: 296 Well Tag #: HO-18-0075 ✓
Site Address: 7008 Cliff Place
Dayton, MD 21042

Submersible Pump Data

Make: Grundfos
Model #: ISS0610-290
Pump Capacity: 15
Well Yield: 6

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

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

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

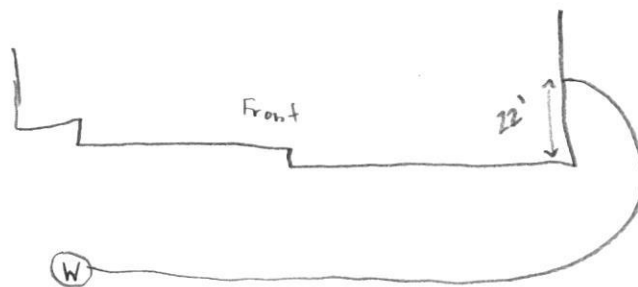
The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative responsible for installation: [Signature] Date: 9/27/2022

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

Date Insp. Requested: 9/28/22 Date Insp. Approved: 9/28/22 Inspector: RR
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 ✓

(Revised form 10/24/2018)

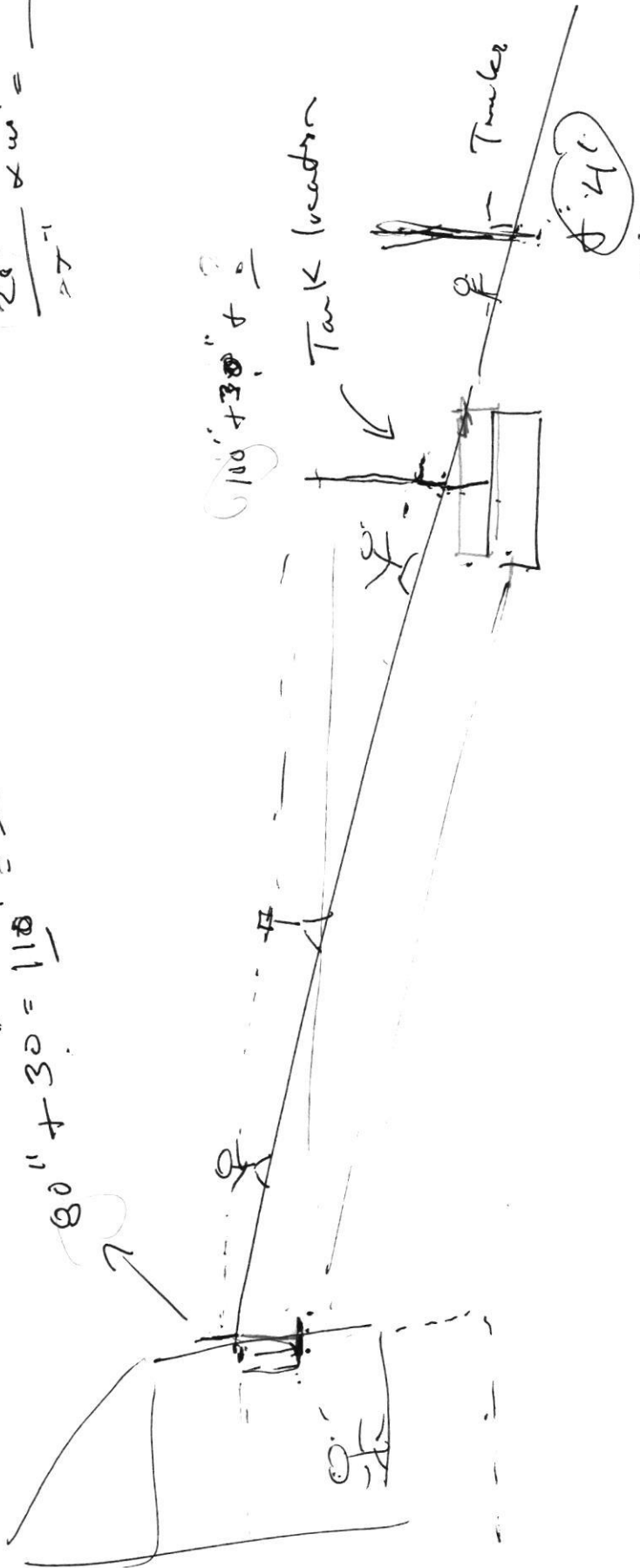


$$\frac{R_{12} \times 100}{R_{20}}$$

$$\frac{20''}{27} \times 100 = \text{---}$$

new! from

$$80'' + 30'' = 110'' = \text{sum out!}$$



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

MEMORANDUM

TO: Michael Barlow Well Drilling
Attn: Michael Barlow MWD 355
522 Underwood Lane
Bel Air, MD 21014

FROM: Joseph Cabahug *J Cabahug*
Licensed Environmental Health Specialist **001997**
Howard County Health Department
Well & Septic Program

RE: Simpson and Denault Well Permit Special Conditions

DATE: 05/17/2019

This memorandum serves to inform the driller serving The Simpson and Denault Subdivision for construction of a new potable wells for residential use of the special conditions associated with the release of the well permits.

In accordance with current approved Percolation Certification (signed 03/27/2019), the following conditions apply:

Note 15(d) Wells installed on **Lots 2 – 8, 12 – 14, 23, 26 – 34, 38, and 39** must be installed as steel casing to depth of at least 50' below the soil surface or 10 feet into competent bedrock, whichever is deeper.

In accordance with the Water Appropriation and Use Permit (**HO2017G001(01)**), the following conditions apply:

Page 3, Section 15: The Permittee shall conduct simultaneous yield tests of wells closer than 100 feet apart, if at least one of the wells is on a lot less than one acre in size. The yield testing shall be conducted to ensure that the minimum yield requirements of COMAR 26.04.04.26 are met. In the event that a well that has been tested simultaneously with other wells does not meet minimum yield standards, the Permittee may relocate a well to achieve the 100-foot separation distance, deepen or otherwise modify the well to improve its yield or drill a second well to be used in tandem to meet the minimum yield standards during simultaneous testing. All wells shall comply with the well construction requirements.

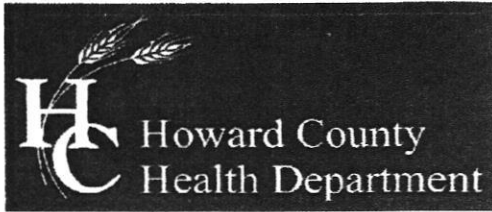
Lots 26, 28, 38 – 44

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

Lots that are less than one acre are shown below.

MINIMUM LOT SIZE CHART			
LOT No.	GROSS AREA (SF)	PIPE STEM	NET AREA
1	54,825		54825
2	59,641		59641
3	55,018		55018
4	41,925		41925
5	40,840		40840
6	55,788		55788
7	55,833		55833
8	45,774		45774
9	42,992		42992
10	44,020		44020
11	42,068		42068
12	40,362		40362
13	41,330		41330
14	56,648	6700	49948
15	40,459		40459
16	49,871		49871
17	40,003		40003
18	40,443		40443
19	40,461		40461
20	40,461		40461
21	40,218		40218
22	54,686		54686
23	55,798		55798
24	44,052	1375	42677
25	41,612	2906	38706
26	48,488	5322	43166
27	46,396		46396
28	40,768		40768
29	44,270		44270
30	44,589		44589
31	46,366		46366
32	49,299		49299
33	47,918		47918
34	52,931		52931
35	54,827	2518	52309
36	44,800	3617	41183
37	55,035	4441	50595
38	33,223	2913	30310
39	31,227		31227
40	35,865		35865
41	40,100		40100
42	34,182		34182
43	41,390		41390
44	41,360		41360
45	45,097		45097
TOTAL AREA	2,043,259	AC.	46.91
			S.F.

Please reach out to the Howard County Health Department – Bureau of the Environment with further questions.



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:

Lot #'s 1, 2, 3, 4, 7, 8, 9, 10, 11, 14, PARCEL C, 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

Well Site Location:

SIMPSON/DENAULT
Subdivision/Property Name

Lot #

GREEN BRIDGE RD.
Road Name

X The well site has been staked by SHANABERGER & LANE
(professional land surveyor or company employing professional land surveyors)
on 1/9/19 (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 4/22/14





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

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – JULY 6, 2023

January 6, 2023

Homeowner
7008 Colt Place
Dayton, MD 21036

**RE: Willowshire, Lot 28
7008 Colt Place
Building Permit: B22000618
Well Permit: HO-18-0075**

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 **12/22/2022**. Final approval of the well line connection to the dwelling was granted on **9/28/2022**. The well construction was completed on **9/18/2022**. Water samples were collected on **12/21/2022**.

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-18-0075. 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>



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8930 Stanford Blvd | Columbia, MD 21045
410.313.2640 - Voice/Relay
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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,

A handwritten signature in black ink, appearing to read 'Kevin M. Wolf', is written over a light blue horizontal line.

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 #: 156428 Account #: 1933
Reference: Willow Creek Lot 28 Client: Fogle's Well Pump & Treatment
Location: 7008 Colt Place Requested By: Dave Fogle
Dayton, MD 21036 Source: Well Water
Date/ Time Collected: 12/21/2022 1030 Site: Pressure Tank ✓
Date/Time Rec'd: 12/21/2022 1555 Treatment: None ✓
Chlorine ppm: Free: ND Total: ND pH: 8.3
Collected By: J. Evans 0309JE Well #: HO-18-0075

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0 ✓	MPN/ 100 ml	<1.0	SM20 9223B	12/22/2022 / 1010 / TSD
Bacteria, E. coli, MPN	<1.0 ✓	MPN/ 100 ml	<1.0	SM20 9223B	12/22/2022 / 1010 / TSD
Nitrate.	1.23 ✓	mg/L	10	EPA 300.0	12/22/2022 / 0003 / TSD
Turbidity	5.44 ✓	NTU	<10	SM2130B	12/21/2022 / 1030 / TSD
Sand	ND ✓	mg/L	5	Visual/Gravimetric	12/21/2022 / 1615 / TSD
Iron	0.69 ✓	mg/L	0.3*	Hach 8146	12/21/2022 / 1615 / TSD

Secondary

OK

(Fogles)

NOTES:

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

Reason for Test : Use & Occupancy
Building Permit # : B22000618

Date Reported: 12/22/2022

SPEED MEMO
HOWARD COUNTY DEPARTMENT OF PLANNING & ZONING
DEVELOPMENT ENGINEERING DIVISION
(410) 313-2420

To: Michael Boyce
ESE Consultants, Inc.
7164 Columbia Gateway Drive
Columbia, MD 21046

Date: March 2, 2022
Reviewer: Jayesh Pancholi
of sheets revised: 1 (New Sheet 91)

Subject: PROPOSED ROAD CONSTRUCTION PLAN REVISION - REJECTED
F-18-086 Willowshire Lot 28

This division has reviewed the revised site development plan for the referenced development submitted on Feb. 23, 22 showing the following changes on sheet(s) 17 of 92.

To revise house type, grading and SWM details.

X THE REVISIONS ARE REJECTED, DUE TO THE FOLLOWING:

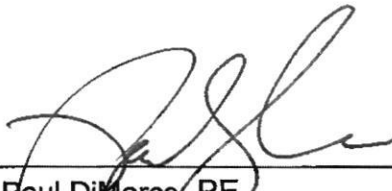
- 1. As it does not meet the Health Department well setback requirement for bioretention, please remove the lined-bio and resubmit the red-line with the SWM design for ESD to the maximum extent practicable. Achieve as flat as possible disconnection area and label the disconnection areas with spot elevations per fig 5.04.**
- 2. Please correctly label the sheet numbers as set of 92 sheets.**

REMOVED Micro-Bio PER DPZ COMMENTS.

(0) Additional Sheet Attached

Make appropriate corrections and **resubmit three (3) sets** along with this transmittal to this office.

cc: Engineer / 3 plans attached
CID / transmittal only
DLD (binder) / transmittal only
DED File / plan attached
Consultant (mail or email)



Paul DiMarco, PE
Development Engineering Division

Ryan Ketner

From: Michael Boyce
Sent: Thursday, February 24, 2022 1:52 PM
To: Nathan Brandenburg; Ryan Ketner
Subject: FW: bio's close to well

Below is the solution from the HD perspective.

I have emailed Jayesh to see if we can get rid of them like lot 8, but I doubt they will do that across the board. I have not heard back from him yet.

Michael Boyce
Regional Director – ESE, Survey

ESE Consultants, Inc.
6731 Columbia Gateway Drive, Suite 120, Columbia, MD 21046
P: 410-381-3058 C: 410-365-4175
mboyce@eseconsultants.com www.eseconsultants.com

From: Bricker, Robert <RBricker@howardcountymd.gov>
Sent: Thursday, February 24, 2022 1:49 PM
To: Michael Boyce <MBOYCE@eseconsultants.com>
Cc: Williams, Jeffrey <jewilliams@howardcountymd.gov>; Silvast, Zackary <zsilvast@howardcountymd.gov>
Subject: RE: bio's close to well

Understood.

The existing well is 36' to 42' from the infiltrative surface. As the well yield test resulted in 6 gpm, the reduced distance between the existing well and the bio facility is not as critical. Two replacement well sites can be identified, both 50 feet or more from the existing well and 50 feet or more from the bio and its discharge location. We would have to accept the reduced distance between the potential replacement well sites. Percolation Certification plan revisions are needed to reconfigure the wellboxes and/or to identify 2 potential replacement well sites for each of the lots.

Looks to me that Lot 31 will not need bio as the (natural) slope at the driveway is less than 5 percent. I notice that the driveway at Lot 27 has 6.11% slope and no bio facility.

Robert Bricker, REHS/RS, L.E.H.S.
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From: Michael Boyce <MBOYCE@eseconsultants.com>
Sent: Thursday, February 24, 2022 12:51 PM
To: Bricker, Robert <RBricker@howardcountymd.gov>
Cc: Williams, Jeffrey <jewilliams@howardcountymd.gov>; Silvast, Zackary <zsilvast@howardcountymd.gov>
Subject: RE: bio's close to well

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we have to match grades at ROW, we need to have enough grade for the underdrain to daylight at ROW, as it is the under drain FL elevation is a 501.06 at the bio- so the pipe is flat to daylight before it hits ROW. Moving it closer to the road would either crate a steep slope to ROW, or force the underdrain lower than the daylight would be.

Michael Boyce
Regional Director - ESE, Survey

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From: Bricker, Robert <RBricker@howardcountymd.gov>
Sent: Thursday, February 24, 2022 12:43 PM
To: Michael Boyce <MBOYCE@eseconsultants.com>
Cc: Williams, Jeffrey <jewilliams@howardcountymd.gov>; Silvast, Zackary <zsilvast@howardcountymd.gov>
Subject: RE: bio's close to well

On Lot 28, can the bio facility be moved 8 feet closer to the street?

Robert Bricker, REHS/RS, L.E.H.S.

From: Michael Boyce <MBOYCE@eseconsultants.com>
Sent: Thursday, February 24, 2022 11:52 AM
To: Bricker, Robert <RBricker@howardcountymd.gov>
Cc: Williams, Jeffrey <jewilliams@howardcountymd.gov>; Silvast, Zackary <zsilvast@howardcountymd.gov>
Subject: RE: bio's close to well

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Yes that is correct on the lots.

And that is what we attempt to do, have the discharge 50' from the well box, OR have the discharge going into the road and carried to other treatment systems.

Please re-look at lots 28 and 29, I have attached the grading plans that show more detail on the bios.

Michael Boyce

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From: Bricker, Robert <RBricker@howardcountymd.gov>

Sent: Thursday, February 24, 2022 11:44 AM

To: Michael Boyce <MBOYCE@eseconsultants.com>

Cc: Williams, Jeffrey <jewilliams@howardcountymd.gov>; Silvast, Zackary <zsilvast@howardcountymd.gov>

Subject: RE: bio's close to well

It appears that Lots 27-32 are affected by the driveway slope condition: is that correct?

In that the SWM facilities are lined, downhill from wellboxes, and the discharge locations more than 50 feet from the wellboxes are all good. If no other facility types offer better solutions, effort should be directed to maximizing distance of the wellboxes or discrete wells' locations in relation to the respective infiltrative surfaces.

Reconfiguring the wellboxes may alleviate some of the issues; using discreet replacement wells' locations may create greater distances more effectively.

Robert Bricker, REHS/RS, L.E.H.S.

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From: Michael Boyce <MBOYCE@eseconsultants.com>

Sent: Thursday, February 24, 2022 10:50 AM

To: Bricker, Robert <RBricker@howardcountymd.gov>; Williams, Jeffrey <jewilliams@howardcountymd.gov>

Subject: bio's close to well

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

Wanted to respond to your email regarding the bio's that we showed close to well boxes.

I needed your impute in order to get DED to discuss. They are requiring treatment for the driveways, and suggested rain gardens as preferred method.

I knew you would not like it, I did try to best design them as I could, however I knew this would not fly.

I have reached out to DED and forwarded your comment and hope to resolve this. What I would like from you if you would, is look at what you may accept in the vent they won't budge.

By F-plan the driveways are steep, by MDE swm, you can't use non-rooftop disconnect if drive is over 5%. All other treatments are infiltration, unless lined, so that is the issue. MDE audits DED for SWM and MDE audits you guys for Well and septic, and I am not clear on wiggle room on these.

Michael Boyce

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