

C1 56783 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

ST/CO USE ONLY

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

DATE Received MM DD YY

MM DD YY

22 500 26 (TO NEAREST FOOT)

OK 3/18/1950 28 29 30 31 32 33 34 35 36 37

OWNER Heritage Land Development WELL SITE ADDRESS Florence Road TOWN MT AIRY SUBDIVISION Patrick Family Trust SECTION LOT 3

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Soil, Brown Shale, Med Gray Rock, Hard Gray Rock.

GROUTING RECORD: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL (CM), CEMENT, BENTONITE CLAY (BC), NO. OF BAGS (18), NO. OF POUNDS (1350), GALLONS OF WATER (90), DEPTH OF GROUT SEAL (0 to 45 ft).

CASING RECORD: MAIN CASING TYPE (PL), Nominal diameter (6 inches), Total depth (45 feet).

OTHER CASING (if used): diameter (4 1/2 inch), depth (40 feet).

SCREEN RECORD: screen type (ST), BRASS (BR), OPEN HOLE (HO), PLASTIC (PL), OTHER (OT).

NUMBER OF UNSUCCESSFUL WELLS: 0 WELL HYDROFRACTURED (Y)

CIRCLE APPROPRIATE LETTER: A (well abandoned), E (electric log), P (test well converted).

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...

DRILLERS LIC. NO. M D 355 DRILLERS SIGNATURE LIC. NO. WR 113

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

C 2 DEPTH (nearest ft.) 45 500

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

C 3 PUMPING TEST: HOURS PUMPED (6), PUMPING RATE (3.0 gal. per min.), METHOD USED TO MEASURE PUMPING RATE (watch/bucket), WATER LEVEL (distance from land surface) BEFORE PUMPING (38 ft), WHEN PUMPING (172 ft), TYPE OF PUMP USED (S) submersible.

PUMP INSTALLED: DRILLER INSTALLED PUMP (YES), 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 (31 to 35), PUMP HORSE POWER (37 to 41), PUMP COLUMN LENGTH (43 to 47), CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE (1 foot).

LATITUDE 39.32715 LONGITUDE 77.14588 (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.

B 1 62777

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type

STATE PERMIT NUMBER

HO-17-0394 fill in this form completely

Date Received (APA)

12/31/18

OWNER INFORMATION

Heritage Land Development, Po Box 482, Lubon MD 21765

B 3

LOCATION OF WELL

Howard County, Patrick Family Ltd prtspl II, mt A.C.

DRILLER INFORMATION

Michael Barlow MWD 355, Barlow Well Drilling, 522 Underwood Lane 2104

B 4

SOURCES OF DRILLING WATER

1. well

Florence Road

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX), DISTANCE FROM ROAD 200 FT, TAX MAP: 6 BLK: 17 PARCEL 65

B 2 WELL INFORMATION

APPROX. PUMPING RATE 5 GAL. PER MIN., AVERAGE DAILY QUANTITY NEEDED 750 GAL. PER DAY

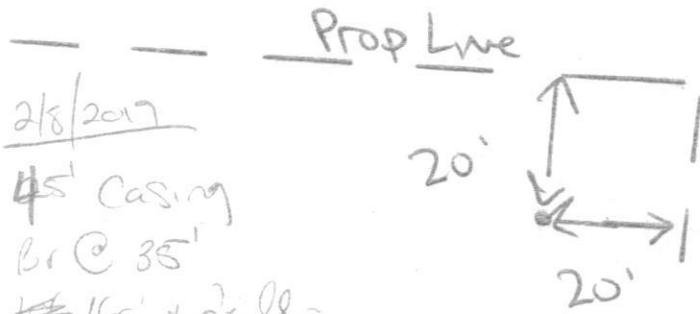
NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard County, STATE SIGNATURE, DATE ISSUED 1/15/19, CO SIGNATURE S.L. Cell, EXP. DATE 1/15/20

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

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 DEPTH OF WELL 300 FEET

APPROXIMATE DIAMETER OF WELL 4 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)

- 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

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

APPROP. PERMIT NUMBER G, PERMIT No. HO-17-0394

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.

SPECIAL CONDITIONS

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

Sodium chloride + TDS samples req'd at yield



**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 18, 2019		
Well Depth:	500	feet	
Customer	Heritage Land Development	Permit #	HO-17-0394
Road	Florence Road	Subdivision	Patrick Family Property
City	Mount Airy	Section	
State	Maryland	Lot #	3

Time	Water Level feet Pump set at 200 feet	Time to Fill 1-gallon bucket seconds	G.P.M.
10:15 AM	38	6	10.00
10:30 AM	102	6	10.00
10:45 AM	175	20	3.00
11:00 AM	175	20	3.00
11:15 AM	175	20	3.00
11:30 AM	175	20	3.00
11:45 AM	175	20	3.00
12:00 PM	174	20	3.00
12:15 PM	174	20	3.00
12:30 PM	174	20	3.00
12:45 PM	174	20	3.00
1:00 PM	174	20	3.00
1:15 PM	174	20	3.00
1:30 PM	174	20	3.00
1:45 PM	174	20	3.00
2:00 PM	174	20	3.00
2:15 PM	173	20	3.00
2:30 PM	173	20	3.00
2:45 PM	173	20	3.00
3:00 PM	173	20	3.00
3:15 PM	172	20	3.00
3:30 PM	172	20	3.00
3:45 PM	172	20	3.00
4:00 PM	172	20	3.00
4:15 PM	172	20	3.00
4:30 PM	172	20	3.00
4:45 PM	172	20	3.00
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: Fogles Well Pump & Water Treatment, LLC Telephone #: 410 795 1535  
Address: PO Box 83  
Woodbine, MD 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): DAVID C. FOGLE License #: MS10226

\*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: Wizzard Telephone #: \_\_\_\_\_  
Subdivision: \_\_\_\_\_ Lot #: \_\_\_\_\_ Well Tag #: HO - 17 - 0394  
Site Address: 1608 Florence Rd  
mt Airy, MD 21771

Submersible Pump Data

Make: Grundfos  
Model #: 153QJIS-290  
Pump Capacity: 15  
Well Yield: 3

Pitless Adapter

Make: Campbell +  
Model #: N/A  
GPM Depth: 36" (36" min)  
GPM NSF/WSC approved: Y/S

Well Cap and Electric Conduit

Two piece watertight cap: Y/S  
Screened, vented well cap: Y/S  
Cap secured to casing: Y/S  
Conduit min 18" B.G.: Y/S  
Conduit secured to well cap: Y/S

Depth of well encountered at time of pump installation: 500 (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 anastors /  Cable guards /  Other acceptable method used

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

Piping to house

Type: 1" poly pipe  
PSI: 200 (60 psi min)  
Depth of supply line: 36" (36" min)

House Connection

PVC sleeve to undisturbed soil at wall penetration: Y/S  
Length of sleeve (5' minimum from foundation): 10'  
Sleeve sealed properly: Y/S

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: 2/19/2022

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

Date Insp. Requested: 2/10/22 Date Insp. Approved: 2/10/22 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)

**INTERIM CERTIFICATE OF POTABILITY**  
Expiration Date – NOVEMBER 16, 2022

May 16, 2022

Homeowner  
1608 Florence Road  
Mt. Airy, MD 21771

**RE: Patrick Family Ltd., Lot 3**  
**1608 Florence Road**  
**Building Permit: B21002992**  
**Well Permit: HO-17-0394**

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 **2/23/2022**. Final approval of the well line connection to the dwelling was granted on **2/10/2022**. The well construction was completed on **2/18/2019**. Water samples were collected on **4/29/2022**.

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-17-0394. 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 Environment's 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

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

March 11, 2019

Heritage Land Development  
PO Box 482  
Lisbon, MD 21765

Re: Water sample results for well #HO-17-034 at Patrick Family Limited Partnership II Lot 3 on Florence Road

Dear Heritage Land Development,

The Health Department received results from testing for chloride and total dissolved solids (TDS) from the well #HO-17-0394 at Patrick Family Limited Partnership II Lot 3 on Florence Road. The samples were collected by the well driller during the yield test.

Chloride and TDS are both considered secondary contaminants, meaning high concentrations can affect taste, color, odor, or corrosive properties of water but present no risk to health. The secondary maximum contaminant level for chloride is 250 mg/L; **chloride from the well measured 44.9 mg/ L**. The secondary maximum contaminant level for TDS is 500 mg/L; **TDS from the well measured 139 mg/ L**.

The Health Department listed the collection of sodium, chloride, and TDS samples as a special condition on the well permit issued to Barlow Well Drilling. However, the driller did not collect a sodium sample during the yield test. Given the high levels of sodium in the wells on Lots 1 and 2 at Patrick Family Limited Partnership II, there is a chance that the well on Lot 3 has high sodium. Please submit water testing results for sodium to the Health Department prior to completion of house construction. Sodium, chloride, and TDS are all secondary contaminants and will not affect the issuance of a Certificate of Potability for the well.

Feel free to contact me at the number or email below with any questions regarding the results of water sampling.

Sincerely,



Sarah Collins, L.E.H.S.  
Howard County Health Department  
Well & Septic Program  
[SCollins@howardcountymd.gov](mailto:SCollins@howardcountymd.gov)  
410-313-6287

Cc: *Community Hygiene Program*  
*File*

# ENVIRO-CHEM LABORATORIES, INC.



47 Loveton Circle, Suite K • Sparks, Maryland 21152

410-472-1112

## FINAL REPORT OF ANALYSIS

Michael Barlow Well Drilling  
522 Underwood Lane  
Bel Air, MD 21014

Report Date: 03/01/2019  
Report Number: 190301130436

LAB#- E057552-01      SAMPLE ID- Lot 3 Patrick Family Plot      WELL #      HO 17-0395  
LOCATION- Well Head      SAMPLER- 8862MI  
DATE SAMPLED- 02/18/2019      TIME SAMPLED- 16:00      Residual Chlorine-  
DATE RECEIVED- 02/22/2019      TIME RECEIVED- 10:00  
DELIVERED BY- B Johnston      RECEIVED BY- Stephen Shelley  
COMMENTS-

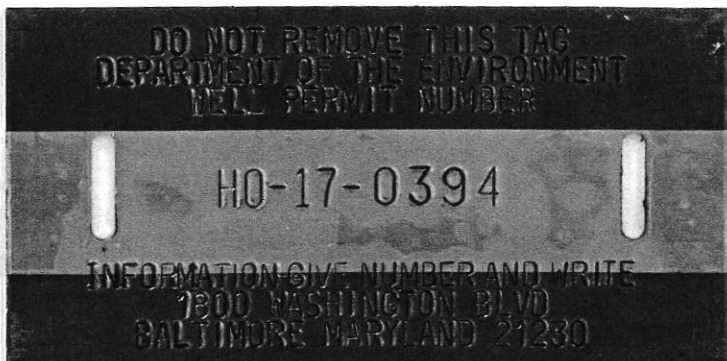
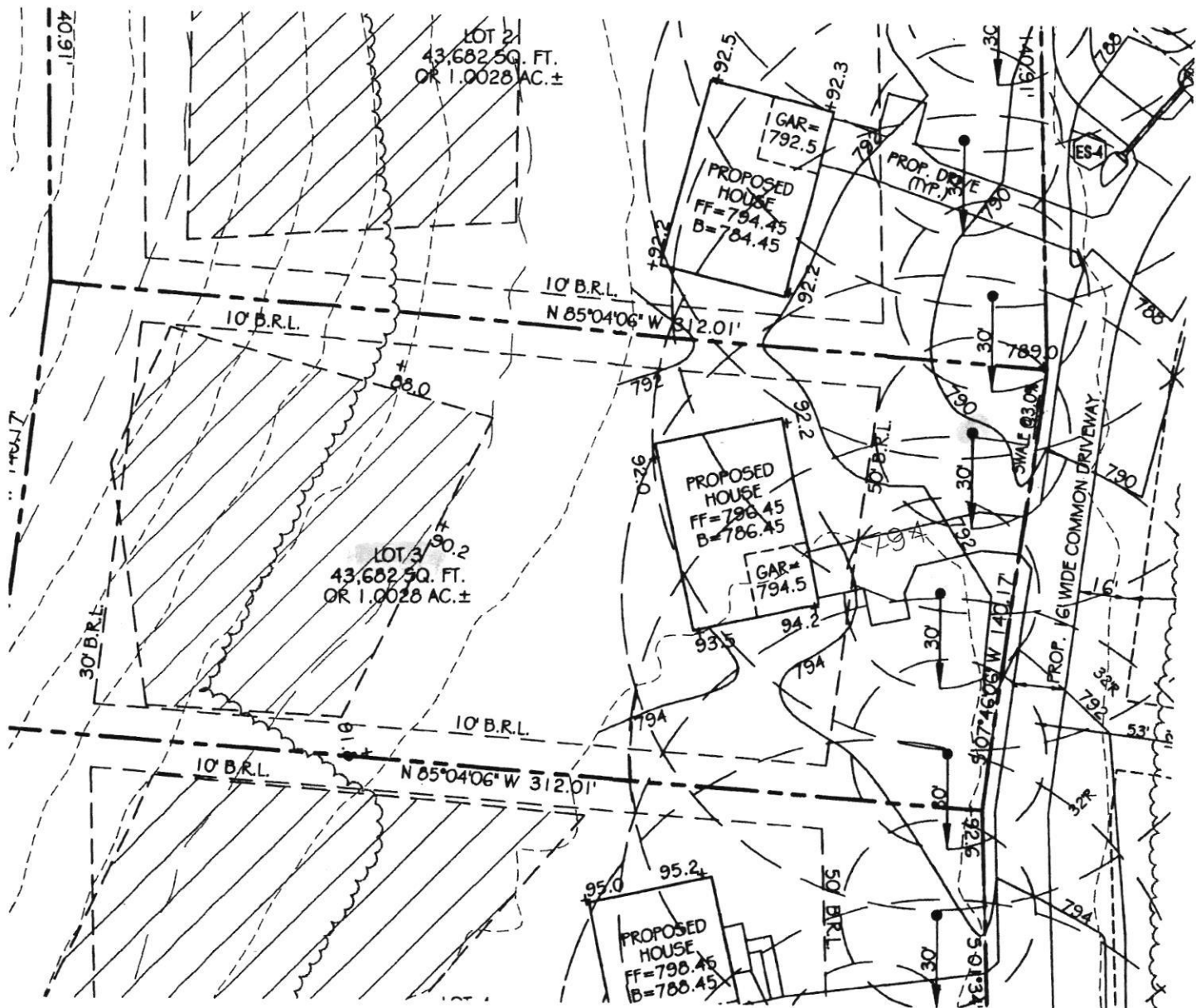
ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DATA FLAG
<b>Total Metals by EPA 200.7 by Enviro-Chem</b>					
Iron	EPA 200.7	02/25/19 12:57	RAS	8.07	mg/L
<b>Wet Chemistry by Enviro-Chem</b>					
Chloride	EPA 300.0	02/25/19 17:38	BMG	44.9	mg/L
Dissolved Solids	SM 2540C	02/27/19 20:30	SES	139	mg/L

Stephen Shelley  
Laboratory Director

### Certifications

State of Maryland Laboratory

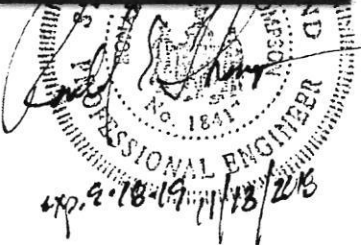
#192



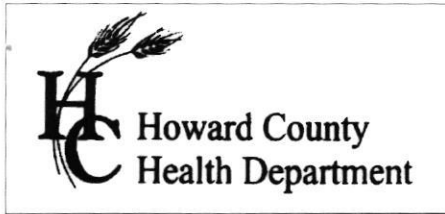
Well sites approved  
1/15/19 SC

Well sites staked by  
Vanmar Associates, Inc.

WELL LOCATION EXHIBIT  
LOT 3  
PATRICK FAMILY LIMITED PARTNERSHIP II  
LIBER 14957 AT FOLIO 110  
ELECTION DISTRICT: No. 4  
HOWARD COUNTY, MARYLAND  
NOVEMBER, 2018 SCALE: 1" = 50'



**VANMAR ASSOCIATES, INC.**  
Engineers Surveyors Planners  
310 South Main Street Mount Airy, Maryland 21771  
(301) 828-2890 (301) 831-5015 (410) 548-2751  
vanmar.com Fax (301) 831-5603 ©Copyright, Latest Date Shown



8930 Stanford Blvd, Columbia MD 21045  
 (410) 313-6300 Fax (410) 313-2648  
 TDD (410) 313-2323 Toll Free 1-866-313-6300  
 website: www.askhealth@howardcountymd.gov

Bert Nixon, Director

TO ALL INTERESTED PARTIES

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

Well Site Location:

<u>Patrick Family LMT Partnership II</u>	<u>3</u>	<u>Florence</u>
<b>Subdivision/Property Name</b>	<b>Lot #</b>	<b>Road Name</b>

The well site has been staked by Vanmar Associates, Inc.,  
 (professional land surveyor or company employing professional land surveyors)  
 on 11/16/18 (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.

# FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

## REPORT OF ANALYSIS

Laboratory ID #: 151719 Account #: 1933  
Reference: Carin Custom Homes Client: Fogle's Well Pump & Treatment  
Location: 1608 Florence Road Requested By: Dave Fogle  
Mount Airy, MD 21771 Source: Well Water  
Date/ Time Collected: 4/29/2022 0745 Site: Kitchen Sink Tap  
Date/Time Rec'd: 4/29/2022 0910 Treatment: None  
Chlorine ppm: Free: ND Total: ND pH: 5.8  
Collected By: J. Evans 0309JE Well #: HO-17-0394

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	4/30/2022 / 0900 / LLO
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	4/30/2022 / 0900 / LLO
Nitrate.	0.98	mg/L	10	EPA 300.0	4/29/2022 / 1449 / CRS
Turbidity	1.78	NTU	<10	SM2130B	4/29/2022 / 1200 / MEH
Sand	ND	mg/L	5	Visual/Gravimetric	4/29/2022 / 1410 / TSD

### 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 Visual well check: Sealed, vented cap
- 6 ND = None Detected
- 7 pH and Chlorine level tested in lab (pH tested after recommended holding time)
- 8 Sample collected by client, analyzed as received

**Reason for Test :** Use & Occupancy  
**Building Permit # :** B21002992

Date Reported: 5/2/2022