

C1 56784 SEQUENCE NO. (MDE USE ONLY)

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.

COUNTY NUMBER

1-2-3-6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

ST/CO USE ONLY DATE RECEIVED MM 03 DD 13 YY 19

DATE WELL COMPLETED MM 02 DD 18 YY 19

Depth of Well 22 600 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" OK 3/18/19 SC HO-17-0395

OWNER Heritage Land Development WELL SITE ADDRESS last name Florence Road first name TOWN MT AIRY SUBDIVISION Patrick Family Property SECTION LOT 4

WELL LOG

Not required for driven wells

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 21 NO. OF POUNDS 1515 GALLONS OF WATER 105 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 45 ft.

C3

PUMPING TEST

HOURS PUMPED (nearest hour) 6 PUMPING RATE (gal. per min.) 1.02 METHOD USED TO MEASURE PUMPING RATE water bucket WATER LEVEL (distance from land surface) BEFORE PUMPING 42 ft. WHEN PUMPING 157 ft. TYPE OF PUMP USED (for test) A air P piston T turbine C centrifugal R rotary O other J jet S submersible

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

Table with columns: DESCRIPTION (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Rows: Soil 0-7, Brown Shale 7-42, Med Gray Rock 42-105, Hard Gray Rock 105-600, 76, 310, 525.

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 45

OTHER CASING (if used) diameter inch depth (feet) from to PL 4.2 40 120

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

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...

DRILLERS LIC. NO. 1 M WD 355

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 1 WRD 113

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

C2 DEPTH (nearest ft.)

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

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) YES NO 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 - below LAND SURFACE (nearest foot)

LATITUDE 39.32675 LONGITUDE 77.14587 (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.

**B 1** 62778 SEQUENCE NO. (MDE USE ONLY) STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type

STATE PERMIT NUMBER Ho-17-0395

fill in this form completely

**OWNER INFORMATION**

Date Received (APA) 12/31/18

8 MM DD YY 13

15 Last Name Owner First Name 34

Heritage Land Development

36 Street or RFD 55

Lisbon MD 21765

57 Town 70 State 72 Zip 76

**B 3 LOCATION OF WELL**

8 COUNTY 21

Howard

23 SUBDIVISION 42

Patrick Family Ltd Prtip II

SECTION 44 46 LOT 48 50

4

52 NEAREST TOWN 71

mt A-1

**DRILLER INFORMATION**

Driller's Name 76 License No. 81

Michael Barlow M W D 355

Firm Name

Barlow well Drilling

Address

522 UNDERWOOD LANE 21014

Signature Date

12/17/18

**B 4 SOURCES OF DRILLING WATER**

1. well

2.

3.

11 STREET ADDRESS 30

Florence Road

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

34 200 37

DISTANCE FROM ROAD FT

ENTER FT OR MI 38 39

TAX MAP: 6 BLK: 17 PARCEL 65

**B 2 WELL INFORMATION**

APPROX. PUMPING RATE (GAL. PER MIN.) 5

8 750 12

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 20

**NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL**

COUNTY NAME Howard COUNTY NO. 13

STATE SIGNATURE INSERT S

DATE ISSUED 1/15/19

43 MM DD YY 48 CO SIGNATURE S.L. G.L.L. EXP. DATE 1/15/20

DON: 2/13/19 (SC) DOG: 2/15/19 DOY: 2/18/19

**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

2/13

- 45' PVC casing set

- at 340'

little water

2/14

~ 1.5 gpm

- 580' deep

- 80' liner

Prop Line

30'

15'

N

APPROXIMATE DEPTH OF WELL 300 FEET

24 28

APPROXIMATE DIAMETER OF WELL 6 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  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 DEEPEEN 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-17-0395

70 71 72 73 74 75 76 77 78 79

**SPECIAL CONDITIONS**

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

Sodium chloride + TDS samples req'd at yield



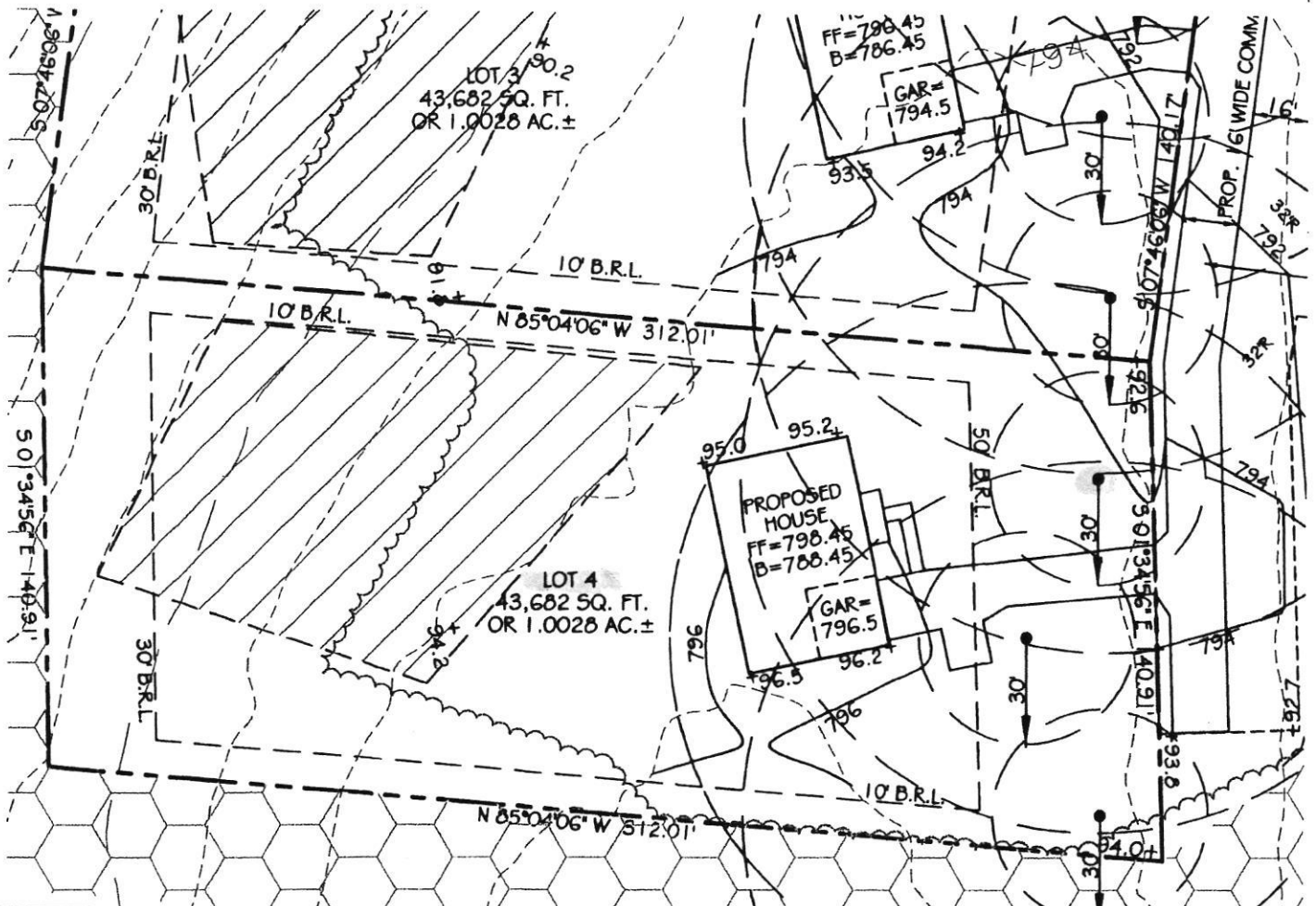
**MICHAEL BARLOW WELL DRILLING & SERVICE, INC.**  
 522 Underwood Lane      Bel Air, Maryland 21014  
 (410) 838-6910      Fax (410) 838-3582

**WELL YIELD REPORT**

Date Test Completed:		February 18, 2019	
Well Depth:		600 feet	
Customer	Heritage Land Development	Permit #	HO-17-0395
Road	Florence Road	Subdivision	Patrick Family Property
City	Mount Airy	Section	
State	Maryland	Lot #	4

Time	Water Level feet Pump set at 200 feet	Time to Fill 1-gallon bucket seconds	G.P.M.
10:00 AM	42	4	15.00
10:15 AM	159	59	1.02
10:30 AM	159	59	1.02
10:45 AM	159	59	1.02
11:00 AM	159	59	1.02
11:15 AM	159	59	1.02
11:30 AM	159	59	1.02
11:45 AM	158	59	1.02
12:00 PM	158	59	1.02
12:15 PM	158	59	1.02
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2:30 PM	157	59	1.02
2:45 PM	157	59	1.02
3:00 PM	157	59	1.02
3:15 PM	157	59	1.02
3:30 PM	157	59	1.02
3:45 PM	157	59	1.02
4:00 PM	157	59	1.02
4:15 PM	157	59	1.02

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.

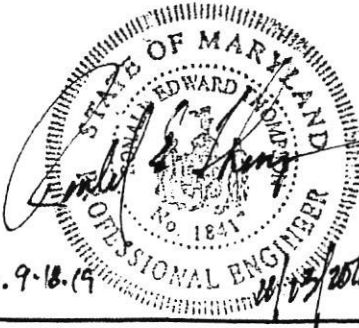


DO NOT REMOVE THIS TAG  
 DEPARTMENT OF THE ENVIRONMENT  
 WELL PERMIT NUMBER  
**HO-17-0395**  
 INFORMATION CALL NUMBER AND WRITE  
 1800 WASHINGTON BLVD  
 BALTIMORE MARYLAND 21230

FAMILY LIMITED PARTNERSHIP II  
 1957, F. 110  
 ZONING: RC-DEO  
 AGRICULTURAL  
 PARCEL: 65

Well sites approved  
 1/15/19 SC  
 Well sites staked by  
 Vanmar Associates, Inc.

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



Exp. 9-18-19  
 11/15/2018



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

**HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
WELL & SEPTIC PROGRAM  
TEL: (410)313-1771 FAX: (410)313-2648**

**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: Barlow Well Drilling Telephone #: 410-838-6910  
Address: 522 UNDERWOOD LANE  
BEL AIR, MD 21014

(Must circle one) Licensed Plumber  Licensed Well Driller  Licensed Well Pump Installer   
License # and name of individual responsible for the field installation:  
Name (Print): Michael Isom License# MSD162

**\*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: Robert Schuck Telephone #: \_\_\_\_\_  
Subdivision: Patrick Family Property Lot #: 4 Well Tag #: HO-17-0395  
Site Address: 1612 FLORENCE ROAD  
MOUNT AIRY MD 21771

<u>Submersible Pump Data</u>	<u>Pitless Adapter</u>	<u>Well Cap and Electric Conduit</u>
Make: <u>GOULDS</u>	Make: <u>BIT</u>	Two piece watertight cap: _____
Model #: <u>SCS10422</u>	Model#: <u>P100</u>	Screened, vented well cap: _____
Pump Capacity <u>5</u> GPM	Depth: <u>36</u> (36" min)	Cap secured to casing: _____
Well Yield: <u>1.02</u> GPM	NSF/WSC approved: <input checked="" type="checkbox"/>	Conduit min 18" B.G.: _____
Depth of well encountered at time of pump installation: <u>600</u> (feet)		Conduit secured to well cap: _____

If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4  
Torque arrestors, Cable guards, or other acceptable method used- Must circle one  
Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing

<u>Piping to house</u>	<u>House Connection</u>
Type: <u>Poly</u>	PVC sleeve to undisturbed soil at wall penetration: _____
PSI: <u>200</u> (160 psi min)	Length of sleeve(5' minimum from foundation): <u>6'</u>
Depth of supply line: <u>36</u> (36" min)	Sleeve sealed properly: <input checked="" type="checkbox"/>

**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 7/11/2022

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

Date Insp. Requested: 7/12/22 Date Insp. Approved: 7/12/22 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

## INTERIM CERTIFICATE OF POTABILITY

Expiration Date – February 30, 2023

August 30, 2022

Homeowner  
1612 Florence Road  
Mt. Airy, MD 21771

**RE: Patrick Family Trust, Lot 4**  
**1612 Florence Rd**  
**Building Permit: B21004772**  
**Well Permit: HO-17-0395**

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 **8/25/2022**. Final approval of the well line connection to the dwelling was granted on **7/12/2022**. The well construction was completed on **2/18/2019**. Water samples were collected on **8/22/2022**.

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-17-0395

. 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.**

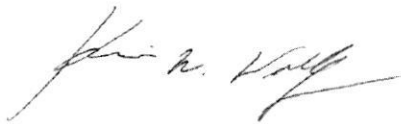
Please contact (410) 313-1773 to schedule a final water sample appointment or contact a Maryland certified water laboratory to schedule a water sample. A list of laboratories certified by the state of Maryland may be found at the following website:  
<http://www.mde.state.md.us/assets/document/WSP-Labs-2010apr16.pdf>

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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.

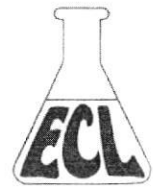
Approving Authority,



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

# 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: 08/25/2022  
Report Number: 220825164811

PERMIT #:

LAB#- E071605-01      SAMPLE ID- 1612 Florence Rd      WELL #      HO 17-0395  
LOCATION- Pressure Tank      SAMPLER- S Duklewski #3073SD  
DATE SAMPLED- 08/22/2022      TIME SAMPLED- 07:45      CHLORINE- Non detect  
DATE RECEIVED- 08/22/2022      TIME RECEIVED- 10:52  
DELIVERED BY- Steve Duklewski      RECEIVED BY- Ginny Shelley  
COMMENTS- Secure well, 2 piece PVC cap. No treatment.

COMMENTS-

ANALYSIS	METHOD	ANALYSIS DATE/TIME	BY	RESULT	DATA FLAG
<b>Microbiology by Enviro-Chem</b>					
Total Coliform	SM 9223B	08/22/22 15:15	VPS	Absent	PASS
E. Coli	SM 9223B	08/22/22 15:15	VPS	Absent	PASS

Based on coliform bacteriological standards, at the time of sampling this water was **SAFE** for drinking water purposes.

### Wet Chemistry by Enviro-Chem

Nitrate (as N)	EPA 300.0	08/22/22 18:42	FRD	< 0.15	mg/L	PASS
pH	SM4500-H+B	08/22/22 16:00	FRD	6.7	SU	
Sand	EPA 160.5	08/22/22 15:00	VPS	< 0.5	ml/L/Hr	
Turbidity	EPA 180.1	08/22/22 16:00	FRD	1.8	NTU	

Stephen Shelley  
Laboratory Director

### Certifications

State of Maryland Laboratory

#192



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](http://www.askhealth@howardcountymd.gov)

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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:

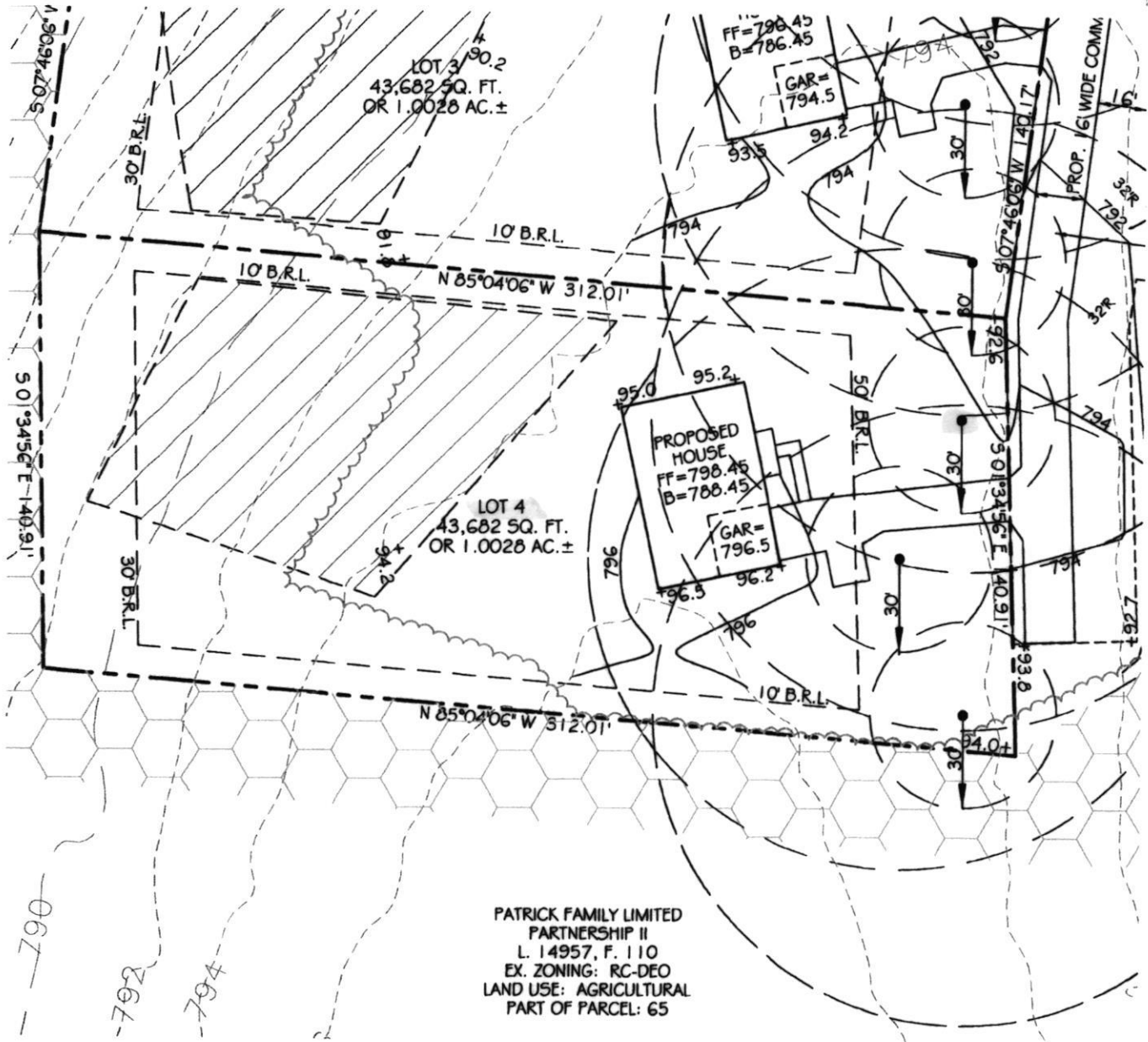
Well Site Location:

<u>Patrick Family LMT Partnership II</u>	<u>4</u>	<u>Florence</u>
Subdivision/Property Name	Lot #	Road Name

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.



PATRICK FAMILY LIMITED PARTNERSHIP II  
 L. 14957, F. 110  
 EX. ZONING: RC-DEO  
 LAND USE: AGRICULTURAL  
 PART OF PARCEL: 65

WELL LOCATION EXHIBIT  
 LOT 4  
 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) 829-2890 (301) 831-5015 (410) 549-2751  
 Fax (301) 831-5603 ©Copyright, Latest Date Shown

Exp. 9-18-19

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-17-0395 at Patrick Family Limited Partnership II Lot 4 on Florence Road

Dear Heritage Land Development,

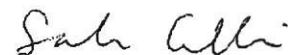
The Health Department received results from testing for chloride and total dissolved solids (TDS) from the well #HO-17-0395 at Patrick Family Limited Partnership II Lot 4 on Florence Road. The samples were collected by the well driller during the yield test.

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 5.7 mg/ L**. The secondary maximum contaminant level for TDS is 500 mg/L; **TDS from the well measured 66 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: 190301130506

LAB#- E057553-01      SAMPLE ID- Lot 4 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 12:59	RAS	0.673 mg/L	
<b>Wet Chemistry by Enviro-Chem</b>					
Chloride	EPA 300.0	02/25/19 17:56	BMG	5.7 mg/L	
Dissolved Solids	SM 2540C	02/27/19 20:30	SES	66.0 mg/L	

Stephen Shelley  
Laboratory Director

### Certifications

State of Maryland Laboratory

#192