C 1 | 69119 | SEQUENCE NO. (MDE USE ONLY)

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

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

ST/CO USE ONLY
DATE Received MM DD YY 05/23/22

DATE WELL COMPLETED MM DD YY 4-19-22

APPROVED (E 06/16/2022

Depth of Well 300 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO 20 0158

OWNER Steven Builders (last name / first name)

WELL SITE ADDRESS Isle of Skye Dr. TOWN Highland

SUBDIVISION Allnutt Farm Estates SECTION LOT 40

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	FEET TO	check if water bearing
Clay	0	6	
Sand/clay	6	45	
Gray Limestone	45	90	
Sand	90	91	✓
Gray Limestone	91	185	
Fracture	185	186	✓
Gray limestone	186	300	

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.: M SD 224

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO.: __ __ D __ __ __

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

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 12 NO. OF POUNDS 200

GALLONS OF WATER 300

DEPTH OF GROUT SEAL (to nearest foot)

from 0 (TOP) ft. to 57 (BOTTOM) 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)
ST	06	59'

OTHER CASING (if used)

EACH CASING	diameter inch	depth (feet) from	depth (feet) to

SCREEN RECORD
screen type or open hole — insert appropriate code below

ST STEEL / BR BRASS BRONZE / PL PLASTIC / HO OPEN HOLE / OT OTHER

C 2 DEPTH (nearest ft.)

EACH SCREEN		from	to
1	HO	59'	300'
2			
3			

SLOT SIZE 1 ____ 2 ____ 3 ____

DIAMETER OF SCREEN ____ (NEAREST INCH)

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

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)

T (E.R.O.S.) W Q

TELESCOPE CASING ____ LOG INDICATOR ____ OTHER DATA ____

C 3

PUMPING TEST
HOURS PUMPED (nearest hour) 5

PUMPING RATE (gal. per min.) 5.5

METHOD USED TO MEASURE PUMPING RATE 1 gal

WATER LEVEL (distance from land surface)

BEFORE PUMPING 18 ft.

WHEN PUMPING 197 ft.

TYPE OF PUMP USED (for test)

A air / P piston / T turbine / C centrifugal / R rotary / O other (describe below) 400 gpm / J jet / S submersible

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

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

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

CAPACITY: GALLONS PER MINUTE (to nearest gallon) ____

PUMP HORSE POWER ____

PUMP COLUMN LENGTH (nearest ft.) ____

CASING HEIGHT (circle appropriate box and enter casing height)

+ above / − below LAND SURFACE 2 (nearest foot)

LATITUDE 39.195596

LONGITUDE 76.947429

(DEFAULT COORD. WGS 84)

Pursuant to §10-624 of the State Govt. Article of the Maryand 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 pulic and other governmental agencies, if not protected by federal or state law.

EMERGENCY/TEMP NO. IF ANY

B 1 — SEQUENCE NO. (MDE USE ONLY): 83414 — 1 2 3 6

STATE OF MARYLAND
APPLICATION FOR PERMIT TO DRILL WELL
please type

570980

STATE PERMIT NUMBER: Ho – 20 – 0158 (70 79)

fill in this form completely

Date Received (APA): 03/17/22 (8 MM DD YY 13)

OWNER INFORMATION

Steven Builders (15 Last Name — Owner — First Name 34)

4714 Linthicum Rd (36 Street or RFD 55)

Dayton md 21036 (57 Town — 70 State 72 Zip 76)

DRILLER INFORMATION

Andrew Housemann M SD 224 (Driller's Name — 76 License No. 81)

Eagles Well Drilling, LLC (Firm Name)

P.O. Box 202 Woodbine, Md 21797 (Address)

Signature — 2-21-22 (Date)

B 2 WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.): 5 (8 12)

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY): 500 (14 20)

USE FOR WATER (CIRCLE APPROPRIATE BOX)

22
- [D] DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
- [F] FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
- [I] INDUSTRIAL, COMMERCIAL, DEWATERING
- [P] PUBLIC WATER SUPPLY WELL
- [T] TEST, OBSERVATION, MONITORING
- [O] OPEN LOOP GEOTHERMAL
- [C] CLOSED LOOP GEOTHERMAL

APPROXIMATE DEPTH OF WELL: 300 (24 28) FEET

APPROXIMATE DIAMETER OF WELL: 6 NEAREST INCH

METHOD OF DRILLING (circle one)

30 BORED (or Augered) — JETTED — Jetted & DRIVEN
AIR-ROTary — AIR-PERcussion — ROTARY (Hydraulic Rotary)
37 CABLE — REVerse-ROTary — DRive-POINT
other

REPLACEMENT OR DEEPENED WELLS (CIRCLE APPROPRIATE BOX)

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

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED (IF AVAILABLE) 41 — 52

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

APPROP. PERMIT NUMBER: ----G---

PERMIT No. Ho-20-0158 (70 71 72 73 74 75 76 77 78 79)

B 3 LOCATION OF WELL

Howard (8 COUNTY 21)

Allout Farms Estates (23 SUBDIVISION 42)

SECTION (44 46) — LOT 40 (48 50)

Highland (52 NEAREST TOWN 71)

B 4

SOURCES OF DRILLING WATER
1. well water
2.
3.

Isle of Skye Dr. (11 STREET ADDRESS 30)

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX): NORTH [N] WEST [W] [32] [E] EAST [S] SOUTH

34 20 37 DISTANCE FROM ROAD

ENTER FT OR MI: Ft (38 39)

TAX MAP: 34 BLK: 15 PARCEL 325

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

COUNTY NAME: HOWARD — COUNTY NO.: XIII

STATE SIGNATURE — INSERT S → 41

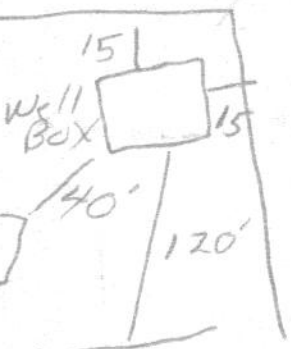
DATE ISSUED: 03/17/2022 (43 MM DD YY 48) — CO SIGNATURE — EXP. DATE: 03/17/2023

DNI: 4/13/22 Doc: 04/19/2022 P Doc 04/19/2022 P

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

4/19/22
45' bedrock
59' casing Steel
175 @ 11 AM



4/19/2022
Well ATTENUATING House
Between 5-6pm

N

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SPECIAL CONDITIONS
NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

RADIUM TEST AT YIELD

MDE/WMA/PER.071

② COUNTY

HOWARD COUNTY HEALTH DEPARTMENT

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

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: Allnutt Farm Estates Lot #: 40 Well Tag #: HO-20-0158 ✓
Site Address: 6304 Isle of Skye Dr
Highland, MD 20777

Submersible Pump Data	Pitless Adapter	Well Cap and Electric Conduit
Make: Grundfos	Make: Campbell	Two piece watertight cap: yes
Model #: 15SQE07-180	Model#: N/A	Screened, vented well cap: yes
Pump Capacity 15	GPM Depth: 36" (36" min)	Cap secured to casing: yes
Well Yield: 5.5	GPM NSF/WSC approved: yes	Conduit min 18" B.G.: yes
		Conduit secured to well cap: yes

Depth of well encountered at time of pump installation: 300 (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	House Connection
Type: 1" poly pipe	PVC sleeve to undisturbed soil at wall penetration: yes
PSI: 200 psi (160 psi min)	Length of sleeve (5' minimum from foundation): 6'
Depth of supply line: 36" (36" min)	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: 8/6/2025

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

Date Insp. Requested: 8/6/25 Date Insp. Approved: 8/6/25 Inspector: MB

Inspection Data:		
	Pitless adapter watertight & water supply line at least 36" below grade	✓ 47"
	Two piece cap installed and attached to casing securely	✓
	Elec. conduit extends at least 18" below grade/attached to cap properly	✓ 46"
	Safety rope not outside of well cap/casing	✓
	Correct well tag attached properly and casing 8" above finished grade	✓ 18"
	Water supply line sleeved adequately at house connection	✓
	Adequate grout observed below pitless adapter	✓

(Revised form 10/24/2018)

Date: March 19, 2022

FOGLE'S WELL DRILLING, LLC
P.O. Box 202
Woodbine, Md 21797
443-609-4195

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO-20-0158
Location of Property: Isle Of Skye Dr Highland, Md 20777
Subdivision: Allnutt Farm Estates Lot: #40
Well Driller/Tech: Fogles Andrew Houseman MSD224 Owner/Buyer: Steven Builders

Depth of Well: 300'
Distance of measuring point (M.P.) above ground: 2'
Static water level (S.W.L.) below M.P.: 18'
High rate pumping –reservoir Drawdown
Time pump started: 8:30 Pumping rate: 15
Total time 75 Mins to reach pumping water level 197 ft. below M.P.

Recovery pump test data – observations to be recorded every 15 minutes

TIME (in 15 minute intervals)	WATER LEVEL Below M.P.	PUMPING RATE Time to fill 1 gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
8:30	18'	4 Seconds		15 gpm
8:45	52'	4 Seconds		15 gpm
9:00	96'	4 Seconds		15 gpm
9:15	135'	5 Seconds		12 gpm
9:30	186'	5 Seconds		12 gpm
9:45	197'	12 Seconds		5 gpm
10:00	196'	12 Seconds		5 gpm
10:15	194'	12 Seconds		5 gpm
10:30	192'	12 Seconds		5 gpm
10:45	191'	11 Seconds		5.5 gpm
11:00	191'	11 Seconds		5.5 gpm
11:15	189'	11 Seconds		5.5 gpm
11:30	188'	11 Seconds		5.5 gpm
11:45	187'	11 Seconds		5.5 gpm
12:00	187'	11 Seconds		5.5 gpm
12:15	186'	11 Seconds		5.5 gpm
12:30	186'	11 Seconds		5.5 gpm
12:45	185'	11 Seconds		5.5 gpm
1:00	185'	11 Seconds		5.5 gpm
1:15	185'	11 Seconds		5.5 gpm
1:30	184'	11 Seconds		5.5 gpm
1:45	184'	11 Seconds		5.5 gpm
2:00	184'	11 Seconds		5.5 gpm

Howard County Health Department

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:

Allnut Farms Estates (Subdivision/Property Name) 40 (Lot #) Isle of Skye DR (Road Name)

☒ The well site has been staked by Van Mar
(professional land surveyor or company employing professional land surveyors)
on Feb. 24, 2022 (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.

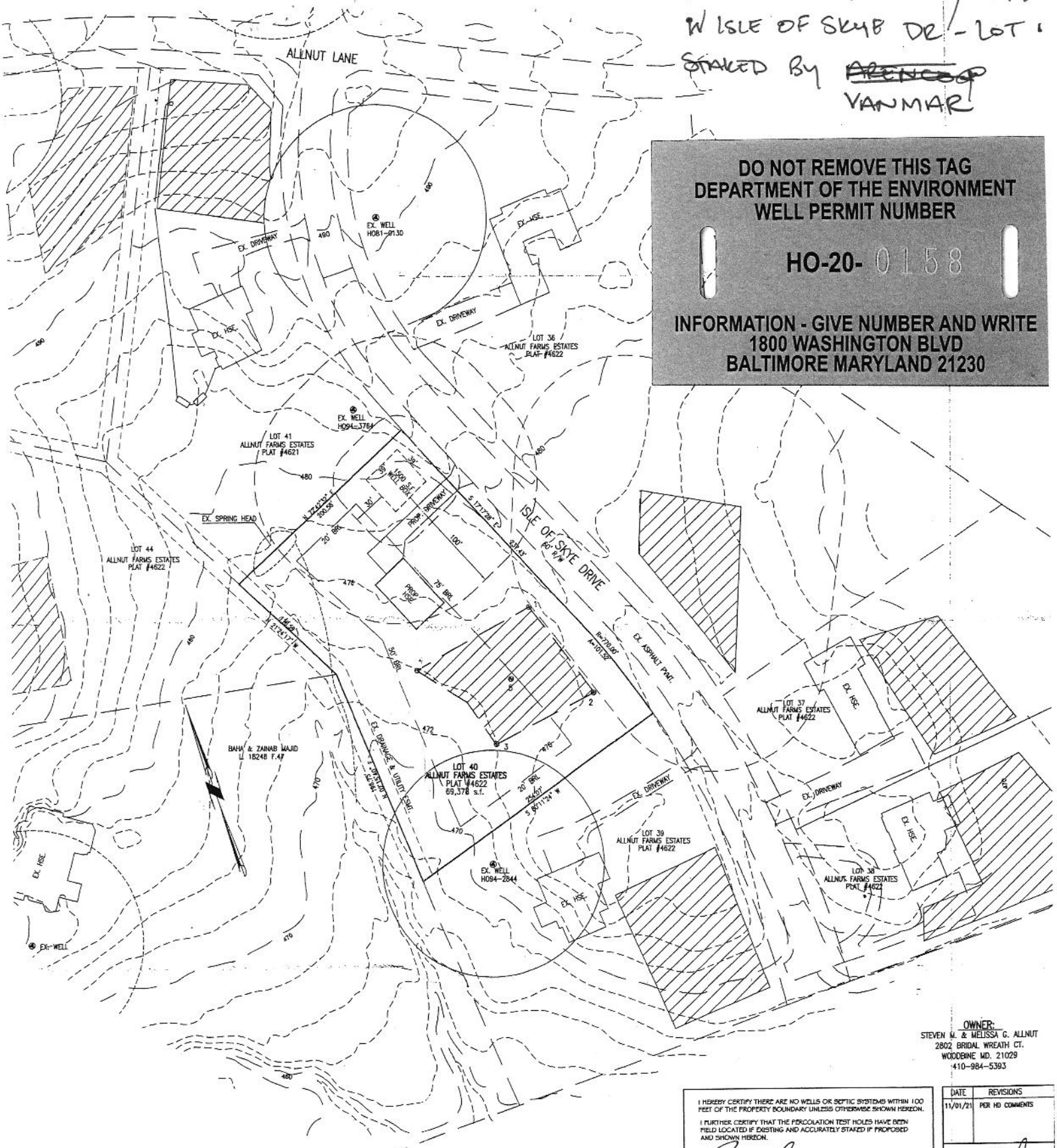
This sheet, along with two copies of an acceptable well site plan, must be attached to the green well permit application.

APPROVED 03/17/2022 P00199-
W ISLE OF SKYE DR - LOT 1
STAKED BY ~~ARENCOP~~
VANMAR

DO NOT REMOVE THIS TAG
DEPARTMENT OF THE ENVIRONMENT
WELL PERMIT NUMBER

HO-20- 0158

INFORMATION - GIVE NUMBER AND WRITE
1800 WASHINGTON BLVD
BALTIMORE MARYLAND 21230



OWNER:
STEVEN M. & MELISSA G. ALLNUT
2802 BRIDAL WREATH CT.
WOODBINE MD. 21029
410-984-5393

I HEREBY CERTIFY THERE ARE NO WELLS OR SEPTIC SYSTEMS WITHIN 100 FEET OF THE PROPERTY BOUNDARY UNLESS OTHERWISE SHOWN HEREON.

I FURTHER CERTIFY THAT THE PERCOLATION TEST HOLES HAVE BEEN FIELD LOCATED IF EXISTING AND ACCURATELY STAKED IF PROPOSED AND SHOWN HEREON.

11/1/2021
RONALD E. THOMPSON, PROFESSIONAL ENGINEER — DATE
MARYLAND REGISTRATION NO. 16417

PROFESSIONAL CERTIFICATION

I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 16417, Expiration Date: 9/10/23.

DATE	REVISIONS
11/01/21	PER HD COMMENTS

STATE OF MARYLAND — RONALD E. THOMPSON — 16417 — PROFESSIONAL ENGINEER — 11/1/2021

HOWARD COUNTY HEALTH DEPARTMENT

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
PERMANENT DEVIATION FOR RADIUM

Expiration Date – June 16, 2025

December 16, 2025

Homeowner
6304 Isle of Skye Drive
Highland, MD 20777

RE: **Allnutt Far Est., Lot 40**
6304 Isle of Skye Dr.
Building Permit: B24004150
Well Permit: HO-20-0158

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 **8/6/2025.** Final approval of the well line connection to the dwelling was granted on **8/6/2025.** The well construction was completed on **4/19/2022.** Water samples were collected on 8/20/2025, 9/9/2025.

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.

After installation of a radionuclide removal device (water softener), post-treatment water samples were collected on **9/22/2025** and indicated a combined Radium 226/228 level of **<2.7** pCi/L which is below the MCL of 5 pCi/L.

This Department will grant a **permanent deviation** to the Interim Certificate of Potability on condition that the radionuclide removal system effectively maintains a Gross Alpha level of less than **15 pCi/L**, a Gross Beta level of less than **50 pCi/L**, and a Radium 226/228 level of less than **5 pCi/L**.

Furthermore, it will be necessary for you to comply with the following conditions:

1. The system must be properly operated and maintained continuously in accordance with the service contract for the life of the residence.

2. It is recommended that a Maryland certified water laboratory certified for radionuclide analysis perform a yearly radionuclide analysis.

3. If you decide to sell or rent your home in the future, you must make any potential buyer/tenant aware of this permanent deviation. **A person who fails to make this disclosure is subject to the penalties set out in COMAR 26.04.04.12F *Enforcement* and Environment Article 9-1311, Annotated Code of Maryland.**

HOWARD COUNTY
HEALTH DEPARTMENT

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

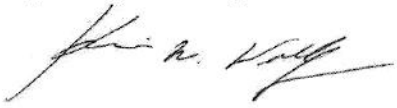
This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit HO-20-0158. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

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 quality 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

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, L.E.H.S., R.E.H.S./RS, Supervisor
Groundwater Management Section
Well & Septic Program

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

HOWARD COUNTY HEALTH DEPARTMENT

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

June 03, 2022

6304 Isle of Sky

Steven Buliders
4714 Linthicum Rd
Dayton, MD 21036

RE: ISLE OF SKY DR.
ALLNUT FARM EST – LOT 40
Well Tag: HO-20-0158 (New Well)

Dear Property Owner(s):

A yield test sample was collected on April 19, 2022 and submitted to the Maryland Department of Health Laboratories to assess the possible presence of **Gross Alpha** and **Gross Beta** in the well water supply. **Gross Alpha** and **Gross Beta** measure the total alpha and beta particle activity in a water supply. These naturally occurring radioactive nuclides have been demonstrated to be present in a certain type of geologic formation known as the Baltimore Gneiss which exists in your area of development within the County.

Results from the test screening revealed a **Gross Alpha** of **23.7 ± 3.3 picocuries/liter (pCi/L)**, while the **Gross Beta** level was **18.6 ± 2.6 pCi/L.** The **Gross Alpha** result was **above** the **maximum contaminant level (MCL)** of **15 pCi/L,** while the **Gross Beta** level was below its targeted standard of **50 pCi/L** (roughly equivalent to the **annual dose rate** of **4 millirems/year**).

In addition, on the same laboratory result slip, a second lab analysis shows a **Gross Alpha** of **14.9 ± 2.3 picocuries/liter (pCi/L),** while the **Gross Beta** level was **16.8 ± 2.3 pCi/L.**

At the time of testing and with respect to the initial test and second lab analysis results, your "untreated" well water supply **does not meet** EPA regulatory standards for **Gross Alpha and Gross Beta.** Given these result readings, some additional testing to further evaluate Gross Alpha, Gross Beta and Radium 226/228 is required. Additional **Gross Alpha** and **Gross Beta (long-terms)** and **Radium 226/228** is needed to properly evaluate the **Gross Alpha** and **Gross Beta** presence in the well water supply.

A copy of the test results is enclosed for your information. Please call this office at **410-313-2643** to schedule the additional testing **free of charge**. If you have any general questions about this **new well**, please contact the Well & Septic Program at **410-313-1771** or **410-313-2645**.

Sincerely,

R. Martin

Ramar Martin, Program Supervisor
Bureau of Environmental Health

Enclosure
cc: Property file, Well & Septic Program

NIXIE 212 FE 1 0006/25/22
RETURN TO SENDER
ATTEMPTED - NOT KNOWN
UNABLE TO FORWARD
BC: 21045580530 *0427-03554-13-40

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

June 03, 2022

Steven Buliders
4714 Linthicum Rd
Dayton, MD 21036

RE: ISLE OF SKY DR.
ALLNUT FARM EST – LOT 40
Well Tag: HO-20-0158 (New Well)

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In addition, on the same laboratory result slip, a second lab analysis shows a **Gross Alpha** of **14.9 ± 2.3 picocuries/liter (pCi/L),** while the **Gross Beta** level was **16.8 ± 2.3 pCi/L.**

At the time of testing and with respect to the initial test and second lab analysis results, your "untreated" well water supply **does not meet** EPA regulatory standards for **Gross Alpha and Gross Beta.** Given these result readings, some additional testing to further evaluate Gross Alpha, Gross Beta and Radium 226/228 is required. Additional **Gross Alpha** and **Gross Beta (long-terms)** and **Radium 226/228** is needed to properly evaluate the **Gross Alpha** and **Gross Beta** presence in the well water supply.

A copy of the test results is enclosed for your information. Please call this office at **410-313-2643** to schedule the additional testing **free of charge**. If you have any general questions about this **new well**, please contact the Well & Septic Program at **410-313-1771** or **410-313-2645**.

Sincerely,

R. Martin

Ramar Martin, Program Supervisor
Bureau of Environmental Health

Enclosure
cc: Property file, Well & Septic Program

SEND REPORT TO:
Howard County Health Department
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, Maryland 21045

State of Maryland
MDH Laboratories Administration
Division of Environmental Sciences
RADIATION LABORATORY
1770 Ashland Avenue
Baltimore, Maryland 21205

Lab No. E001975 to 2025

LABORATORY ANALYSIS REQUEST FORM

Plant/Site Name: STEVEN BUILDERS 4714 LINTHICUM RD County: HOWARD

Sample Source: SIF of SKY DR. ALLNUT FARMS EST Location: HO-20-0158

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

Radon-222 Bottle A HOICOISERA 10F 40 Radon-222 Field Blank Bottle A

Bottle B Bottle B

County 13 Plant No.

CHECK (one per Box)

Type		Service		Point of Collection		Testing	
Drinking Water	☒	Community	☐	Source (Raw)	☒	Emergency	☐
Landfill	☐	Non-Community	☐	Distribution (treated)	☐	Routine	☐
Stream	☐	Private	☒	MCL	☐	Recheck	☒
Other	☐	Other	☐			Special	☐

Submitters Code: 4F

Collector: CABALUG 001997 Federal Project: ☐

Date Collected: 04/19/2022 Telephone No.: 410 313 2643

Time Collected: 11:00 a.m. p.m.

Field pH: 7.0 Field Chlorine: NEG

Nitric Acid Preserved: Yes ☒ No ☐ Iced: Yes ☐ No ☐

Remarks: YIELD

☑	TEST	EPA Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Date Reported
☒	Gross Alpha	4000	1975	EPA900.0	23.7 ± 3.3	4/21/22	L.K/F.K	4/27/22
☒	Gross Beta	4100	1975	EPA900.0	18.6 ± 2.6	4/21/22	L.K/F.K	4/27/22
☐	Radium-226	4020						
☐	Radium-228	4030						
☐	Total Uranium	4006						
☐	Radon-222 (Bottle A)	4004						
☐	Radon-222 (Bottle B)	4004						
☐	Radon Field Blank A	4004						
☐	Radon Field Blank B	4004						
☐	Tritium							
☐	Gross Alpha	4000	1975 Cont	EPA900.0	14.9 ± 2.3	4/22/22	L.K/F.K	4/25/22
☐	Gross Beta	4100	1975 Cont	EPA900.0	16.8 ± 2.3	4/22/22	L.K/F.K	4/25/22

Date Received: 04/20/2022 Received By: L. Reed

Data Release Signature: [signature] Date: 4/27/22

Lab Use Only	Yes	No	N/A
Sample Intact upon arrival?	✓		
Sample pH <2.0?	✓		
Received within holding time?	✓		

HoCo Health Depart
APR 28 2022
Environmental Health

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

MDH-4540 4/2021

SAMPLE TESTED AS RECEIVED

CUSTOMER COPY II

HOWARD COUNTY
HEALTH DEPARTMENT

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

June 03, 2022

Steven Buliders
4829 Ten Oaks Road
Dayton, MD 21036

RE: ISLE OF SKY DR.
ALLNUT FARM EST – LOT 40
Well Tag: HO-20-0158 (New Well)

Dear Property Owner(s):

A yield test sample was collected on April 19, 2022 and submitted to the Maryland Department of Health Laboratories to assess the possible presence of **Gross Alpha** and **Gross Beta** in the well water supply. **Gross Alpha** and **Gross Beta** measure the total alpha and beta particle activity in a water supply. These naturally occurring radioactive nuclides have been demonstrated to be present in a certain type of geologic formation known as the Baltimore Gneiss which exists in your area of development within the County.

Results from the test screening revealed a **Gross Alpha** of **23.7 ± 3.3 picocuries/liter (pCi/L)**, while the **Gross Beta** level was **18.6 ± 2.6 pCi/L.** The **Gross Alpha** result was **above** the **maximum contaminant level (MCL)** of **15 pCi/L,** while the **Gross Beta** level was below its targeted standard of **50 pCi/L** (roughly equivalent to the **annual dose rate** of **4 millirems/year**).

In addition, on the same laboratory result slip, a second lab analysis shows a **Gross Alpha** of **14.9 ± 2.3 picocuries/liter (pCi/L),** while the **Gross Beta** level was **16.8 ± 2.3 pCi/L.**

At the time of testing and with respect to the initial test and second lab analysis results, your "untreated" well water supply **does not meet** EPA regulatory standards for **Gross Alpha and Gross Beta.** Given these result readings, some additional testing to further evaluate Gross Alpha, Gross Beta and Radium 226/228 is required. Additional **Gross Alpha** and **Gross Beta (long-terms)** and **Radium 226/228** is needed to properly evaluate the **Gross Alpha** and **Gross Beta** presence in the well water supply.

A copy of the test results is enclosed for your information. Please call this office at **410-313-2643** to schedule the additional testing **free of charge**. If you have any general questions about this **new well**, please contact the Well & Septic Program at **410-313-1771** or **410-313-2645**.

Sincerely,

R. Martin

Ramar Martin, Program Supervisor
Bureau of Environmental Health

Enclosure
cc: Property file, Well & Septic Program

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

REPORT OF ANALYSIS

Laboratory ID #:	175651	Account #:	1933
Reference:	Allnut Farms Lot 40	Client:	Fogle's Well Pump & Treatment
Location:	6304 Isle of Skye Drive	Requested By:	Dave Fogle
	Highland, MD 20777	Source:	Well Water
Date/ Time Collected:	8/20/2025 1100	Site:	Pressure Tank
Date/Time Rec'd:	8/20/2025 1524	Treatment:	None
Chlorine ppm:	Free: ND Total: ND	pH:	7.1
Collected By:	J. Evans 0309JE	Well #:	HO-20-0158

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	1.0	MPN/ 100 ml	<1.0	SM20 9223B	8/21/2025 / 0820 / CRS
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	8/21/2025 / 0820 / CRS
Nitrate.	<0.40	mg/L (as N)	10	EPA 300.0	8/20/2025 / 2325 / KDR
Turbidity	109	NTU	<10	SM2130B	8/21/2025 / 0700 / KDR
Sand	>5	mg/L	5	Visual/Gravimetric	8/21/2025 / 1050 / KDR
Iron	7.84	mg/L	0.3*	Hach 8146	8/21/2025 / 0800 / KDR

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 # : 24004150

Date Reported: 8/21/2025

MD State Certification # 133

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

REPORT OF ANALYSIS

Laboratory ID #:	176079		Account #:	1933
Reference:	Allnut Farms Lot 40		Client:	Fogle's Well Pump & Treatment
Location:	6304 Isle of Skye Drive Highland, MD 20777		Requested By:	Dave Fogle
			Source:	Well Water
Date/ Time Collected:	9/9/2025	0810	Site:	Hose Bib
Date/Time Rec'd:	9/9/2025	1105	Treatment:	Multimedia
Chlorine ppm:	Free: ND	Total: ND	pH:	6.7
Collected By:	J. Evans	0309JE	Well #:	HO-20-0158

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Turbidity	1.32	NTU	<10	SM2130B	9/9/2025 / 1600 / KDR
Iron	0.06	mg/L	0.3*	Hach 8146	9/10/2025 / 1045 / KDR

NOTES:

1. *SMCL = Secondary Maximum Contaminant Level
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. Sample collected by client, analyzed as received
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 # : 24004150

Date Reported: 9/10/2025

MD State Certification # 133

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

REPORT OF ANALYSIS

Laboratorv ID #:	176078	Account #:	1933
Reference:	Allnut Farms Lot 40	Client:	Fogle's Well Pump & Treatment
Location:	6304 Isle of Skye Drive Highland, MD 20777	Requested By:	Dave Fogle
		Source:	Well Water
Date/ Time Collected:	9/9/2025 0800	Site:	Pressure Tank
Date/Time Rec'd:	9/9/2025 1105	Treatment:	Prior to Multimedia System
Chlorine ppm:	Free: ND Total: ND	pH:	7.2
Collected By:	J. Evans 0309JE	Well #:	HO-20-0158

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	9/10/2025 / 0900 / KDR
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	9/10/2025 / 0900 / KDR
Sand	ND	mg/L	5	Visual/Gravimetric	9/10/2025 / 1020 / KDR

NOTES:

1. MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
2. Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
3. Sample collected by client, analyzed as received
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 # : 24004150

Date Reported: 9/10/2025

MD State Certification # 133

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

REPORT OF ANALYSIS

Laboratory ID #:	176374	Account #:	1933
Reference:	Allnut Farms Lot 40	Client:	Fogle's Well Pump & Treatment
Location:	6304 Isle of Skye Drive	Requested By:	Dave Fogle
	Highland, MD 20777	Source:	Well Water
Date/ Time Collected:	9/22/2025 1100	Site:	Kitchen Faucet
Date/Time Rec'd:	9/22/2025 1210	Treatment:	Multimedia/Softener
Chlorine ppm:	Free: ND Total: ND	pH:	7.1
Collected By:	T. Cassell 0767TC	Well #:	HO-20-0158

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Radium-226	0.4	pCi/L	****	903.0	10/7/2025 / 1302 / MJN
Radium-228	<0.8	pCi/L	****	Ra-05	10/6/2025 / 1435 / SN
Gross Alpha, Short Term	<1.2	pCi/L	15	900.0	9/25/2025 / 0624 / MJN
Gross Beta, Short Term	<1.5	pCi/L	50	900.0	9/25/2025 / 0624 / MJN

NOTES:

1. ****Radium 226 and Radium 228 combined have a reference of 5 pCi/L
2. Gross Alpha Detection Limit: 1.2 pCi/L; Gross Alpha Error: +/- 0.8 pCi/L
3. Gross Beta Detection Limit: 1.5 pCi/L; Gross Beta Error: +/- 1.0 pCi/L
4. pCi/L = picocuries per liter
5. Radium 226 Detection Limit: 0.3 pCi/L; Radium 226 Error: +/- 0.3 pCi/L; Chemical Yield: 0.8979
6. Radium 228 Detection Limit: 0.8 pCi/L; Radium 228 Error: +/- 0.5 pCi/L
7. Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
8. Sample collected by client, analyzed as received
9. Sub-contracted to Reference Lab #278
10. ND:None Detected
11. Visual well check: Sealed, vented cap
12. pH and Chlorine level tested in lab (pH tested after recommended holding time)

Reason for Test : Use & Occupancy
Building Permit # : 24004150

Date Reported: 10/8/2025

MD State Certification # 133

Wolf, Kevin

From: Wolf, Kevin
Sent: Wednesday, September 17, 2025 12:42 PM
To: 'Chris Wine'
Subject: RE: 6304 Isle of Skye Drive - Iron and Turbidity after treatment - Report
Attachments: Document_250917_123215.pdf; Radium Agreement 2.11.19.pdf

Hello Chris,
I have reviewed the property file and it looks as though there is elevated radium that needs attention. Please see attached radium letter report. Based on the elevated gross alpha/beta, further testing for gross alpha/beta long term, plus radium 226/228 is needed to confirm these levels are safe for a potable water supply. You can, however, in lieu of time constraints, have treatment installed on the well, perform post-treated results for the gross alpha/beta long term, plus the radium 226/228. I will also need the radium agreement signed by the owner as well. Let me know what you decide. I will be out of the office this afternoon but be back in tomorrow.

Thanks,

Kevin M. Wolf, LEHS, REHS/RS
Groundwater Mgmt. Sec. Supervisor
Well & Septic Program
Howard County Health Department
8930 Stanford Blvd.
Columbia, MD 21045
410-313-2645 (Office)
410-313-2648 (Fax)
www.hchealth.org

kwolf@howardcountymd.gov

From: Chris Wine <ChrisWine@williamsburgllc.com>
Sent: Tuesday, September 16, 2025 3:23 PM
To: Wolf, Kevin <KWolf@howardcountymd.gov>
Subject: FW: 6304 Isle of Skye Drive - Iron and Turbidity after treatment - Report

ICOP Results

Chris Wine

Williamsburg Group LLC
5485 Harpers Farm Road # 200
Columbia, MD 21044

(410) 997-8800, X 20

From: Erik Harris <ErikHarris@williamsburgllc.com>
Sent: Tuesday, September 16, 2025 3:21 PM
To: Chris Wine <ChrisWine@williamsburgllc.com>
Subject: Fwd: 6304 Isle of Skye Drive - Iron and Turbidity after treatment - Report

Sent from my iPhone

ErikHarris@Williamsburgllc.com
443-472-1438
Project Manager Williamsburg Homes

Begin forwarded message:

From: Carrie Condon <carrie@fogleswellpump.com>
Date: September 10, 2025 at 2:27:44 PM EDT
To: Erik Harris <ErikHarris@williamsburgllc.com>
Subject: 6304 Isle of Skye Drive - Iron and Turbidity after treatment - Report