

C1 2960 SEQUENCE NO. (MDE USE ONLY)

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

A 520 414

ST/CO USE ONLY

DATE Received
MM DD YY

DATE WELL COMPLETED

MM DD YY
7 26 2007

Depth of Well

22 440 26
(TO NEAREST FOOT)PERMIT NO.
FROM "PERMIT TO DRILL WELL"No 95-0719
28 29 30 31 32 33 34 35 36 37OWNER Winchester Homes Inc.
STREET OR RFD W. Withorn Way first name TOWN Ellicott City
SUBDIVISION Riverwood Phase 2 SECTION LOT 74

WELL LOG

Not required for driven wells

GROUTING RECORD

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

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT CM BENTONITE CLAY BCNO. OF BAGS 13 NO. OF POUNDS 1222GALLONS OF WATER 78

DEPTH OF GROUT SEAL (to nearest foot)

from 0 ft. to 46 ft.
(enter 0 if from surface)

CASING RECORD

casing
types
insert
appropriate
code
belowST CO
STEEL CONCRETE
PL OT
PLASTIC OTHERMAIN CASING TYPE ST Nominal diameter top (main) casing (nearest inch) 6 Total depth of main casing (nearest foot) 51
60 61 63 64 66 70

OTHER CASING (if used)

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

SCREEN RECORD

screen type or open hole
(insert appropriate code below)ST BR HO
STEEL BRASS OPEN HOLE
PL OT
PLASTIC OTHERNUMBER OF UNSUCCESSFUL WELLS: 0WELL HYDROFRACTURED yes no
Y NCIRCLE 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 MSD 024DRILLERS SIGNATURE
(MUST MATCH SIGNATURE ON APPLICATION)LIC. NO. 1 D

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

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 Q70 72 74 75 76
TELESCOPE CASING LOG INDICATOR OTHER DATA

C3

PUMPING TEST

HOURS PUMPED (nearest hour) 3PUMPING RATE (gal. per min.) 4.5METHOD USED TO MEASURE PUMPING RATE Bucket

WATER LEVEL (distance from land surface)

BEFORE PUMPING 33 ft.WHEN PUMPING 249 ft.

TYPE OF PUMP USED (for test)

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

PUMP INSTALLED

DRILLER INSTALLED PUMP YES NO

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

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

CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35

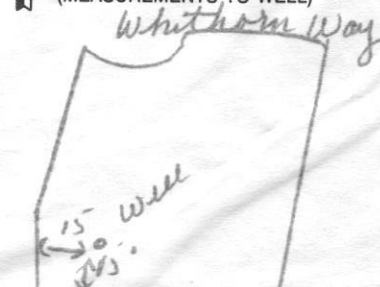
PUMP HORSE POWER 37 41

PUMP COLUMN LENGTH (nearest ft.) 43 47

CASING HEIGHT (circle appropriate box and enter casing height)
+ above } LAND SURFACE (nearest foot)
- below }

LOCATION OF WELL ON LOT

SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)



B 1

9884

SEQUENCE NO.
(MDE USE ONLY)STATE OF MARYLAND
APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

525693

please type

HO - 95 - 0719
fill in this form completely

Date Received (APA)

2/1/07
8 MM DD YY 13

OWNER INFORMATION

15 Last Name Winchester Home Inc Owner First Name 34
36 6905 Rockledge Dr Suite 800 Street or RFD 55
57 Bethesda Town 70 md State 72 20817 Zip 76

DRILLER INFORMATION

Driller's Name Joseph L Mayne M S D 024 License No. 81
Firm Name Joseph Mayne Well Drilling
Address 5512 Ridge Rd Mt. Airy Md 20874
Signature Joseph L Mayne Date 1-30-07

B 2

WELL INFORMATION

APPROX. PUMPING RATE 5
(GAL. PER MIN.) 8 12
AVERAGE DAILY QUANTITY NEEDED 500
(GAL. PER DAY) 14 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- ☒ DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
☐ FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
22 ☐ INDUSTRIAL, COMMERCIAL, DEWATERING
☐ PUBLIC WATER SUPPLY WELL
☐ TEST, OBSERVATION, MONITORING
☐ GEO-THERMAL

APPROXIMATE DEPTH OF WELL 300 FEET
24 28APPROXIMATE 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

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 DEEPEN AN EXISTING WELL

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

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

APPROX. PERMIT NUMBER HO 2004-G007PERMIT No. HO - 95 - 0719
70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

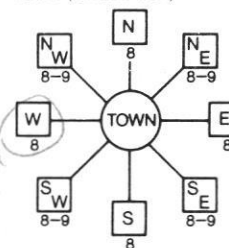
NEED RADIUM SAMPLE

B 3

LOCATION OF WELL

8 COUNTY Howard 21
23 SUBDIVISION Riverwood Phase 2 42
SECTION 44 46 LOT 74 48 50
52 NEAREST TOWN Ellicott City 71
MILES FROM TOWN (enter 0 if in town) 5 M I
73 76 77 78

B 4

1 2
DIRECTION OF WELL FROM
TOWN (CIRCLE BOX)11 Whithorn way 30
NEAR WHAT ROADON WHICH SIDE OF ROAD
(CIRCLE APPROPRIATE BOX)

34 360 37
DISTANCE FROM ROAD FT
ENTER FT OR MI 38 39

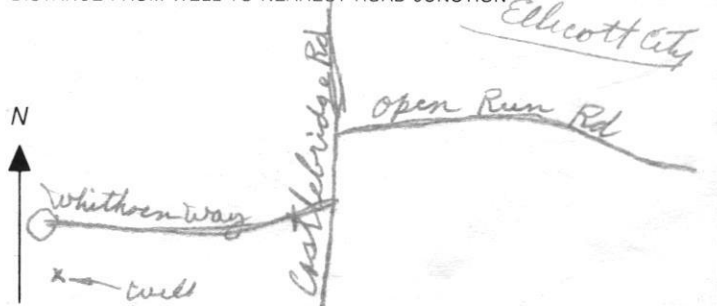
TAX MAP: 29 BLK: 3 PARCEL 20NOT TO BE FILLED IN BY DRILLER
HEALTH DEPARTMENT APPROVAL

Howard (13) A520414
COUNTY NAME COUNTY NO.
STATE SIGNATURE INSERT S → 41
DATE ISSUED 2/14/07 Kim Hall 2/14/08
43 MM DD YY 48 CO SIGNATURE EXP. DATE
NORTH GRID 514 0 0 0 EAST GRID 0826 0 0 0
50 55 57 63

SHOW MAJOR FEATURES OF
BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

1. well
2.
3.

WRITE THE BOX NUMBER
FROM THE MAP HEREE 8266N 514DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN
RELATION TO NEARBY TOWNS AND ROADS AND GIVE
DISTANCE FROM WELL TO NEAREST ROAD JUNCTION

Well Permit No. HO - 95-0719
Location of property (road) Whithorn way
Subdivision Rivewood Phase 2 Lot 74 Block Plat Sec.
Well Driller Joseph Mayne Owner Winchester Homes Inc.

Depth of well 740
Distance of measuring point (M.P.) above ground 1
Static water level (S.W.L.) below M.P. 33'

Time pump started 10:40 am. Pumping rate 20 gpm.
Total time 30 min. to reach pumping water level 249 ft. below M.P.

ED-224

**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: All Around Plumbing, Inc Telephone #: 301-698-1028
Address: PO Box 3596
Frederick, Md 21705

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer
License # and name of individual responsible for the field installation:
Name (Print): James B. Madden License# 18121

***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: Wasim + Shehlla Khar Telephone #: N/A
Subdivision: Riverwood Lot #: 74 Well Tag #: HO - 95 - 0719
Site Address: 11225 Whithorn Way
Ellicott City, MD 21042

Submersible Pump Data

Make: Goulds
Model #: 5GS10422C
Pump Capacity: 10 GPM
Well Yield: 4.5 GPM

Pitless Adapter

Make: Campbell
Model #: PA 800
Depth: 36" (36" min)
NSF/WSC approved: Y

Well Cap and Electric Conduit

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

Depth of well encountered at time of pump installation: 440 (feet)

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

Piping to house

Type: Plastic
PSI: 200 (160 psi min)
Depth of supply line: 36" (36" min)

House Connection

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

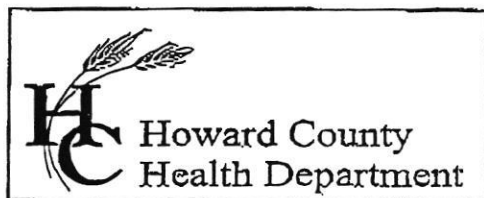
The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative responsible for installation: Cathy J. Little date: 6-28-22

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

Date Insp. Requested: 6/29/22 Date Insp. Approved: 6/29/22 Inspector: (SD)
Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade ✓ 42"
Two piece cap installed and attached to casing securely ✓
Elec. conduit extends at least 18" below grade/attached to cap properly ✓ 41"
Safety rope not outside of well cap/casing ✓
Correct well tag attached properly and casing 8" above finished grade ✓ 8"
Water supply line sleeved adequately at house connection ✓ 10'
Adequate grout observed below pitless adapter ✓





7178 Columbia Gateway Drive, Columbia, MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., 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:

Riverwood Phase II 43-77 Castlebridge Rd, Hunters View Road
Subdivision/Property Name Lot# Road Name S
OPEN RUN ROAD & Whitman Way

- ☒ The well site has been staked by Benchmark Eng,
(professional land surveyor or company employing professional land surveyors)
on _____ (date) and does not require a site inspection.

All lots will be staked by 12/29/06

- ☐ 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 3/11/05

Contact is:

Easterday

301-829-1440

2006 DEC 18 PM 2:32



BENCHMARK
ENGINEERS • LAND SURVEYORS • PLANNERS
ENGINEERING, INC.

RIVERWOOD, PHASE 2
LOT 74

FORTH ELECTION DISTRICT
HOWARD COUNTY, MARYLAND
SCALE: 1" = 50' DATE: 1/24/07

INTERIM CERTIFICATE OF POTABILITY
PERMANENT DEVIATION FOR RADIUM
Expiration Date – SEPTEMBER 1, 2023

March 1, 2023

Homeowner
11225 Whithorn Way
Ellicott City, MD 21042

RE: Riverwood, Lot 74
11225 Whithorn Way
Building Permit: B22000071
Well Permit: HO-95-0719

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 **1/23/2023**. Final approval of the well line connection to the dwelling was granted on **6/29/2022**. The well construction was completed on **9/20/2007**. Water samples were collected on 1/10/2023, 1/20/2023, 1/23/2023, 1/24/2023, 1/25/2023, 1/26/2023.

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.

Gross Alpha and Beta samples were also collected on **7/26/2007**. Results showed a Gross Alpha level of **14.0 ± 3.0 pCi/L** and a Gross Beta level of **13.0 ± 3.0 pCi/L**. **This exceeds the maximum contaminant level (MCL) combined Radium 226 and 228 of 5.0 pCi/L.**

After installation of a radionuclide removal device (water softener/RO), post-treatment water samples were collected on **2/1/2023** and indicated a combined Radium 226/228 level of **<2.6 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.

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

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.**

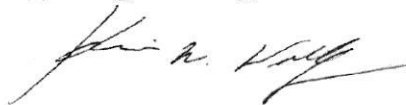
This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit HO-95-0719. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

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

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

REPORT OF ANALYSIS

Laboratory ID #: 157084.1 Account #: 1045
Reference: Caruso Homes Client: Atlantic Blue Water Services
Location: 11225 Whithorn Way Requested By: Mark Mather
Ellicott City, MD 21042 Source: Well Water
Date/ Time Collected: 2/1/2023 1200 Site: Bathroom Sink
Date/Time Rec'd: 2/1/2023 1400 Treatment: Chem Feed/Softener/Reverse Osmosis
Chlorine ppm: Free: ND Total: ND pH: 6.5
Collected By: E. Van Allen 1560EV Well #: HO-95-0719

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Radium-226	0.4	pCi/L	****	903.0	2/14/2023 / 1303 / MJN
Radium-228	<0.8	pCi/L	****	Ra-05	2/13/2023 / 1250 / SN
Gross Alpha, Long Term	<1.2	pCi/L	15	900.0	2/9/2023 / 0632 / MJN
Gross Beta, Long Term	1.4	pCi/L	50	900.0	2/9/2023 / 0632 / MJN

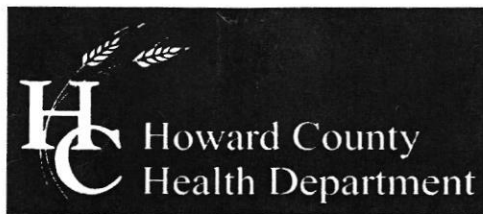
NOTES:

- 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: 1.3 pCi/L; Gross Beta Error: +/- 0.9 pCi/L
- 4 pCi/L = picocuries per liter
- 5 Radium 226 Detection Limit: 0.2 pCi/L; Radium 226 Error: +/- 0.2 pCi/L
- 6 Radium 228 Detection Limit: 0.8 pCi/L; Radium 228 Error: +/- 0.6 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 pH and Chlorine level tested in lab (pH tested after recommended holding time)
- 12 Visual well check: Sealed, vented cap

Reason for Test : Use & Occupancy

Building Permit # : B22000071

Date Reported: 2/15/2023



Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia, MD 21046-2147
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Peter L. Beilenson, M.D., M.P.H., Health Officer

September 10, 2007

Winchester of Howard County
6905 Rockledge Drive
Suite 800
Bethesda, Maryland 20817

RE: Riverwood II Lot 74
Well Tag: HO - 95 - 0719

To Whom It May Concern:

A sample was collected from a yield test on July 26, 2007 and submitted to the Department of Health & Mental Hygiene Laboratory to assess the possible presence of **Gross Alpha** and **Gross Beta** in the future 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 this screening revealed a **Gross Alpha** of 14.0 ± 3.0 picocuries/liter (pCi/L); while the **Gross Beta** level was 13.0 ± 3.0 pCi/L. With the margin of error, the **Gross Alpha** result exceeded its **maximum contaminant level (MCL)** of 15 pCi/L, while the **Gross Beta** level was below its targeted value of 50 pCi/L (roughly equivalent to the **annual dose rate of 4 millirems/year**).

Since the **Gross Alpha** finding exceeded its **MCL**, additional testing for **Gross Alpha**, **Gross Beta** and **Radium** will be necessary prior to occupancy to verify existing levels. Alternatively, you may install treatment designed to reduce **Gross Alpha**, **Gross Beta** and **Radium**, plus provide post treated results (for all 3 parameters) confirming that levels are in conformance with existing standards. These tests are **in addition to** the standard parameters required for Use & Occupancy.

Additionally, the owners will be required to sign an "AGREEMENT FOR APPROVAL OF AN INDIVIDUAL DRINKING WELL WITH AN ON-SITE TREATMENT SYSTEM" as part of the Use and Occupancy process.

A copy of the test results is enclosed for your information. Please call this office at 410-313-1773 if you have any further questions or to discuss additional testing requirements.

Sincerely,

Bert Nixon, Director
Bureau of Environmental Health

cc: Eric Dougherty, MDE Water Mgmt., Groundwater
Well & Septic property file

Wolf, Kevin

From: Wolf, Kevin
Sent: Tuesday, January 31, 2023 9:58 PM
To: Monica Lanigan
Cc: Preston Hood; wasim_khan@yahoo.com; Wolf, Kevin; Page, Shepsura
Subject: RE: ICOP Letter
Attachments: [Untitled].pdf; Nitrate Agreement 2.11.19.pdf; 230123 AB-2301-10 Results.pdf; 230125 AB2301-11 Results.pdf; 230127 AB-2301-14 Results.pdf; 230127 AB2301-17 Results.pdf; Analysis Report.pdf; 11225 original.pdf

Monica,

I had a chance to review your property file for your Interim Certificate of Potability (ICOP) and the following issues need to be addressed before I can release your ICOP:

1. From the initial water tests taken 1/10/2023, showed the presence of **total coliform**. You will need to provide me with a 'raw'/untreated sample free of total coliform bacteria. The tests you submitted from "water testing Labs of Maryland" is not an acceptable water analysis report because they are not a certified water testing lab of Maryland.
2. The initial water tests taken on 1/10/2023, showed elevated **nitrates** above the MCL of 10.1mg/L. You have installed a nitrate removal device (water softener) and have submitted post-treated, passing nitrate sample (1/24/2023). However, regulations require that the property must have a 'nitrate agreement' completed, signed and recorded with the Office of Land Records. I have attached the form for your convenience.
3. The initial water tests taken on 1/10/2023, showed elevated **turbidity** of 31.5 NTU's (which seems to be from excessive iron). The water test submitted on 1/24/2023 showed a post-treated turbidity of 4.13 NTU's but i do not see a test for iron on this report. I need be sure that the elevated iron is causing the elevated turbidity. State regulations do not allow for a permanent deviation to an ICOP for turbidity unless that turbidity is caused by excessive iron or manganese.
4. The property resides within the Radium area of the State also know as the Baltimore Gneiss rock formation and these wells drilled in this area are subject to radium testing. Testing was completed on July 26th, 2007 respectively, and results of the testing showed elevations. Further testing is required in order to obtain your ICOP. I have attached the letter for your convenience.

I will be around tomorrow if you would we can talk all this through in a little more details.

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

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

REPORT OF ANALYSIS

Laboratory ID #: 156923 Account #: 1045
Reference: Atlantic Blue Water Services Client: Atlantic Blue Water Services
Location: 11225 Whithorn Way Requested By: Mark Mather
Ellicott City, MD 21042 Source: Well Water
Date/ Time Collected: 1/24/2023 0830 Site: Bathroom Tap
Date/Time Rec'd: 1/24/2023 1423 Treatment: Chem Feed/Softener
Chlorine ppm: Free: ND Total: ND pH: 7.5
Collected By: E. Van Allen 1560EV Well #: HO-95-0719

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Nitrate.	0.44	mg/L	10	EPA 300.0	1/24/2023 / 1656 / MEW
Turbidity	4.13	NTU	<10	SM2130B	1/24/2023 / 1515 / MEW

NOTES:

- 1 mg/L = milligrams per liter (also, parts per million)
- 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 pH and Chlorine level tested in lab (pH tested after recommended holding time)
- 7 Visual well check: Sealed, vented cap

Reason for Test : Use & Occupancy

Building Permit # : B22000071

Date Reported: 1/26/2023

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

REPORT OF ANALYSIS

Laboratory ID #: 156679 Account #: 1045
Reference: Caruso Homes Client: Atlantic Blue Water Services
Location: 11225 Whitworn Way Requested By: Mark Mather
Elkridge, MD 21075 Source: Well Water
Date/ Time Collected: 1/10/2023 1420 Site: Well Tank
Date/Time Rec'd: 1/10/2023 1444 Treatment: N/A
Chlorine ppm: Free: ND Total: ND pH: 5.9
Collected By: E. Van Allen 1560EV Well #: N/A

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	22.2	MPN/ 100 ml	<1.0	SM20 9223B	1/11/2023 / 1000 / MEW
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	1/11/2023 / 1000 / MEW
Nitrate.	10.1	mg/L	10	EPA 300.0	1/10/2023 / 1729 / TSD
Turbidity	31.5	NTU	<10	SM2130B	1/10/2023 / 1540 / TSD
Sand	ND	mg/L	5	Visual/Gravimetric	1/10/2023 / 1530 / TSD
Iron	3.80	mg/L	0.3*	Hach 8146	1/11/2023 / 1235 / MEW

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 ND = None Detected; N/A: Not Available
- 7 Sample collected by client, analyzed as received
- 8 pH and Chlorine level tested in lab (pH tested after recommended holding time)

Reason for Test : Use & Occupancy

Date Reported: 1/11/2023

Atlantic Blue
1802 Baltimore Blvd.
Westminster, MD 21157

Reporting Date: 1/23/2023
Report #: AB2301-10

Submitted Sample Address: 11225 Whithorn Way
Ellicott City, MD 21042
Submitted Sample Source: Holding tank
Date / Time Collected: 1/20/2023 10:15 AM
Sample Type: Drinking Water
Field Record: Chlorine residual: Absent Clear when drawn pH: 7.0
Sampler/Company: Brianna Smith 1951BS, Atlantic Blue
Well Tag#: HO-95-0719

Analytical Results

Parameter	Result	Units	Report Limit	Standard	Standard Type
Total Coliform Bacteria	Absent	Coliforms/100 ml	Present/Absent	Absent	EPA Primary MCL
<i>E. Coli</i> Bacteria	Absent	Coliforms/100 ml	Present/Absent	Absent	EPA Primary MCL

Notes:

1. Bacteriological analysis of this sample indicates this water is ☐ safe for human consumption.
2. Results in **BOLD** exceed the MCL, Action Level or MD well regulation.
3. Samples received and examined within EPA's recommended holding times.
4. MCL – Maximum Contaminant Level
5. ND – Not Detected.
6. * Sand and turbidity standard for new wells - See Code of Maryland Regulations (COMAR) 26.04.04.16E(5).
7. MCL Type –
EPA Primary: The maximum contaminant level which is the highest level of contaminant that is allowed in drinking water. Primary MCLs are enforceable standards.
EPA Secondary: Non enforceable guidelines regulating contaminants that cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste or odor) in drinking water.
Action Level: Defined in treatment techniques which are required processes intended to reduce the level of a contaminant in drinking water.
8. We certify that the analyses performed for this report are accurate, and that the laboratory tests were conducted by methods approved by the US Environmental Protection Agency and the Maryland Department of the Environment.

Reported by,



C. Rodgers, Assistant Lab Manager, Microbiology



Atlantic Blue
1802 Baltimore Blvd.
Westminster, MD 21157

Reporting Date: 1/25/2023
Report #: AB2301-11

Submitted Sample Address: 11225 Whithorn Way
Ellicott City, MD
Submitted Sample Source: Holding tank
Date / Time Collected: 1/23/2023 09:01 AM
Sample Type: Drinking Water
Field Record: Chlorine residual: Absent Clear when drawn pH: 7.0
Sampler/Company: Brianna Smith 1951BS, Atlantic Blue 4/2024
Well Tag#: HO-95-0719

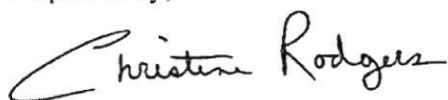
Analytical Results

Parameter	Result	Units	Report Limit	Standard	Standard Type
Total Coliform Bacteria	Present	Coliforms/100 ml	Present/Absent	Absent	EPA Primary MCL
<i>E. Coli</i> Bacteria	Absent	Coliforms/100 ml	Present/Absent	Absent	EPA Primary MCL


Notes:

1. Bacteriological analysis of this sample indicates this water is **unsafe** for human consumption.
2. Results in **BOLD** exceed the MCL, Action Level or MD well regulation.
3. Samples received and examined within EPA's recommended holding times.
4. MCL – Maximum Contaminant Level
5. ND – Not Detected.
6. MCL Type –
EPA Primary: The maximum contaminant level which is the highest level of contaminant that is allowed in drinking water. Primary MCLs are enforceable standards.
EPA Secondary: Non enforceable guidelines regulating contaminants that cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste or odor) in drinking water.
Action Level: Defined in treatment techniques which are required processes intended to reduce the level of a contaminant in drinking water.
7. We certify that the analyses performed for this report are accurate, and that the laboratory tests were conducted by methods approved by the US Environmental Protection Agency and the Maryland Department of the Environment.

Reported by,



C. Rodgers, Assistant Lab Manager, Microbiology

Reviewed by: 



Water Testing Labs of Maryland

1000 Butterworth Ct.
Thompson Creek Business Park
Stevensville, MD 21666
(410) 643-7711
sales@wtlmd.com

Atlantic Blue
1802 Baltimore Blvd.
Westminster, MD 21157

Reporting Date: 1/26/2023
Report #: AB2301-14

Submitted Sample Address: 11225 Whithorn Way
Ellicott City, MD
Submitted Sample Source: Bathroom sink
Date / Time Collected: 1/25/2023 2:30 PM
Sample Type: Drinking Water
Field Record: Chlorine residual: Absent Clear when drawn pH: 7.0
Sampler/Company: Ned V Allan 1560EU, Atlantic Blue
Well Tag#: HO-95-0719

Analytical Results

Parameter	Result	Units	Report Limit	Standard	Standard Type
Total Coliform Bacteria	Absent	Coliforms/100 ml	Present/Absent	Absent	EPA Primary MCL
<i>E. Coli</i> Bacteria	Absent	Coliforms/100 ml	Present/Absent	Absent	EPA Primary MCL

Notes:

1. Bacteriological analysis of this sample indicates this water is ☐ safe for human consumption.
2. Results in **BOLD** exceed the MCL, Action Level or MD well regulation.
3. Samples received and examined within EPA's recommended holding times.
4. MCL – Maximum Contaminant Level
5. ND – Not Detected.
6. MCL Type –
EPA Primary: The maximum contaminant level which is the highest level of contaminant that is allowed in drinking water. Primary MCLs are enforceable standards.
EPA Secondary: Non enforceable guidelines regulating contaminants that cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste or odor) in drinking water.
Action Level: Defined in treatment techniques which are required processes intended to reduce the level of a contaminant in drinking water.
7. We certify that the analyses performed for this report are accurate, and that the laboratory tests were conducted by methods approved by the US Environmental Protection Agency and the Maryland Department of the Environment.

Reported by,

C. Rodgers, Assistant Lab Manager, Microbiology

Reviewed by:

Atlantic Blue
1802 Baltimore Blvd.
Westminster, MD 21157

Reporting Date: 1/27/2023
Report #: AB2301-17

Submitted Sample Address: 11225 Whithorn Way
Ellicott City, MD 21042
Submitted Sample Source: Bathroom sink
Date / Time Collected: 1/26/2023 02:38 PM
Sample Type: Drinking Water
Field Record: Chlorine residual: Absent Clear when drawn pH: 6.0
Sampler/Company: Ned V Allan 1560EU, Atlantic Blue
Well Tag#: HO-95-0719

Analytical Results

Parameter	Result	Units	Report Limit	Standard	Standard Type
Total Coliform Bacteria	Absent	Coliforms/100 ml	Present/Absent	Absent	EPA Primary MCL
<i>E. Coli</i> Bacteria	Absent	Coliforms/100 ml	Present/Absent	Absent	EPA Primary MCL


Notes:

1. Bacteriological analysis of this sample indicates this water is ☐ safe ☒ for human consumption.
2. Results in **BOLD** exceed the MCL, Action Level or MD well regulation.
3. Samples received and examined within EPA's recommended holding times.
4. MCL – Maximum Contaminant Level
5. ND – Not Detected.
6. MCL Type –
EPA Primary: The maximum contaminant level which is the highest level of contaminant that is allowed in drinking water. Primary MCLs are enforceable standards.
EPA Secondary: Non enforceable guidelines regulating contaminants that cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste or odor) in drinking water.
Action Level: Defined in treatment techniques which are required processes intended to reduce the level of a contaminant in drinking water.
7. We certify that the analyses performed for this report are accurate, and that the laboratory tests were conducted by methods approved by the US Environmental Protection Agency and the Maryland Department of the Environment.

Reported by,



C. Rodgers, Assistant Lab Manager, Microbiology

Reviewed by: 

Send Report To:

State of Maryland

DHMH - Laboratories Administration

Division of Environmental Chemistry

RADIATION LABORATORY

201 W. Preston Street, Baltimore, Maryland 21201

John M. DeBoy, Dr. P.H., Director

LABORATORY ANALYSIS REQUEST

Sample Bottle No. A: 140-95-0719 No. B: _____ Field Blank Bottle No. A: _____ No. B: _____

Plant/Site Name: Riverwood 2 Lot 74 County: Howard

Sample Source: White box Location: 140-95-0719
(well no., lab sink, sample tap, etc.)

County: ☒ **B** Plant No. ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

CHECK (one per box)

Drinking Water ☒
Landfill ☐
Stream ☐
Other ☐

Community ☐
Non-community ☐
Private ☒
Other ☐

Source (raw water) ☒
Distribution (treated) ☐
MCL ☐

Emergency ☐
Routine ☐
Recheck ☐
Special ☐

Collector: K. Wolf

Telephone No: 410-313-2645

Date Collected: 7/26/07

Time Collected: _____ a.m. 12:00 p.m.

Nitric Acid Preserved: Yes ☒ No ☐

Iced: Yes ☐ No ☒

Submitters Code: ☐ ☐ Federal Project: ☐ Field Data: _____

Remarks: Sample collected during Yield pH _____ Chlorine _____

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Reported
✓	Gross Alpha	4000		<u>14 ± 3</u>	<u>7/30/07</u>
✓	Gross Beta	4100		<u>13 ± 3</u>	
	Radon-222 Bottle A	4004			
	Radon-222 Bottle B	4004			
	Field Blank A	4004			
	Field Blank B	4004			
	Tritium				
	Ra - 226	4020			
	Ra - 228	4030			
	Total Uranium	4006			

Date Received: _____ / _____ / _____

Supervisor: _____

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

**AGREEMENT FOR APPROVAL OF AN INDIVIDUAL DRINKING WELL WITH AN
ON-SITE TREATMENT SYSTEM**

This agreement is entered into by and between the Howard County Health Department ("the Health Department") and Nasim Khan & Shehla Khan ("the Owner").

WHEREAS, the Owner owns a tract of land at street address 11225 Withorn Way, Ellicott City, MD 21042 and the deed and subdivision plat of the property is recorded among the Land Records of Howard County, Maryland, Tax Map # 29, Block # 04, Parcel # 20, Deed Reference # 20836/00019 and Tax Account # 03-351637 ("the Property").

WHEREAS, the Property lacks an available public drinking water source and is required to have and individual well as the source of drinking water for the residence of the property.

WHEREAS, the Owner has installed a residential drinking well under well permit HO-95-0719 that has been tested by the Health Department (or a private laboratory certified to perform testing) for Nitrate-nitrogen. The results of the tests have shown that the Nitrate level meets or exceeds the Maximum Contaminant Level (MCL) of 10 milligrams per liter.

WHEREAS, The Maryland Department of the Environment (MDE) has promulgated rules and regulations under which a Certificate of Potability may be issued and has delegated the authority to issue such Certificate to the Health Department.

WHEREAS, MDE regulations permit the Health Department to issue as a special condition, a permanent deviation to the Certificate of Potability for individual wells where treatment has been installed to meet the MCL for Nitrate.

WHEREAS, MDE has determined that Nitrate can be effectively removed from the drinking water by the use of treatment devices (e.g. reverse osmosis).

WHEREAS, the Owner is requesting that the Health Department issue a Certificate of Potability contingent upon installation and maintenance of a water treatment device to reduce Nitrate.

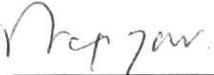
WHEREAS, neither the Owner nor the Health Department has knowledge of an alternative safe source of water for the Property.


NOW THEREFORE, the parties have agreed to the following terms and conditions:


1. The Owner will record this Agreement among the Land Records of Howard County, Maryland and provide confirmation to the Health Dept.
2. The Owner agrees to install and maintain a water treatment device, which effectively reduces the Nitrate below the MCL. The Health Department shall verify that the treatment device is operating effectively and the Owner agrees to allow access to the Health Department to collect a follow-up sample(s).

3. The Health Department shall issue a Certificate of Potability for the well once follow-up sampling shows acceptable Nitrate levels.
4. The Owner agrees that there shall be no liability on part of the Health Department for any immediate or long term impacts to health or property, under any circumstance or including, but not limited to, treatment device failure, improper maintenance or installation, or defect. The Health Department does not warranty or guarantee that the device will adequately or properly function and the Owner agrees to implement and pay for any necessary changes or corrections.
5. The Owner acknowledges and agrees that neither the Health Department nor any of its agents or employees, either officially or individually, underwrites the operation of any system or treatment device.
6. This Agreement shall not be construed to limit any authority of the Health Department to protect the public health, safety or enjoyment of property or to issue any other orders to take any other action, which is now or may hereafter be within its authority.
7. This agreement contains the entire agreement and understanding between the Health Department and the Owner. There are no additional terms other than as contained in this Agreement. This Agreement may not be modified except in writing signed by each of the parties or their authorized representatives.
8. The Agreement shall run with the land and binds the Owner, his heirs, successors, and assigns. The owner agrees to provide a copy of this agreement to any purchaser or lessee of the property.
9. The laws of the State of Maryland govern the provisions of all transactions.

The parties have signed this Agreement on the dates set forth below.

	<i>wasim</i>	<i>Feb 1, 23</i>		
Owner	<i>Khan</i>	Date	Buyer	Date

	<i>sheikha</i>	<i>Feb 1, 23</i>		
Owner	<i>Khan</i>	Date	Buyer	Date

	<i>2/3/23</i>
Howard County Health Department	Date

Wolf, Kevin

From: Wasim Yahoo <wasim_khan@yahoo.com>
Sent: Friday, February 3, 2023 10:07 AM
To: Wolf, Kevin
Cc: Ned Van Allan
Subject: Re: Water Test, 11225 Whithorn Way, Iron

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

Hi Kevin,

Thank you so much for your time today. Pls see attached land records receipt.

Looking forward to a favorable decision today. Thanks so much.

Do you know who the building inspector would be?

Thanks,
Wasim

