

B 1 4364

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL 526657 please type

STATE PERMIT NUMBER

140-95-1227 fill in this form completely

Date Received (APA) 4/19/07

OWNER INFORMATION

8 MM DD YY 13 Kelly Company 15 Last Name Owner First Name 34 P O Box 528 36 Street or RFD 55 Timonium MD. 21094 57 Town 70 State 72 Zip 76

B 3

LOCATION OF WELL

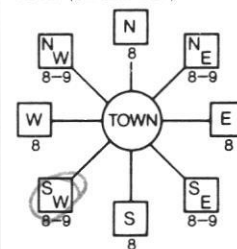
Howard 8 COUNTY 21 Myrtle Property 23 SUBDIVISION 42 SECTION 44 46 LOT 31 48 50 Woodstock 52 NEAREST TOWN 71 MILES FROM TOWN (enter 0 if in town) 2 73 M I 76 77 78

DRILLER INFORMATION

Allen Compton MS D 009 76 License No. 81 Foglers Well Drilling Firm Name 580 Obrecht rd Address 4-14-07 Signature Date

B 4

1 2 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Woodstock rd 11 NEAR WHAT ROAD 30 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) NORTH N WEST W EAST E SOUTH S 34 3800 37 DISTANCE FROM ROAD FT 38 39 ENTER FT OR MI 38 39 TAX MAP: 10 BLK: 24 PARCEL 225

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)

- (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 (G) GEO-THERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard (13) 14 518 006 m COUNTY NAME COUNTY NO. STATE SIGNATURE INSERT S DATE ISSUED 2/14/07 2/14/08 43 MM DD YY 48 CO SIGNATURE EXP DATE NORTH GRID 540 000 EAST GRID 0838 000 50 55 57 63

APPROXIMATE DEPTH OF WELL 300 24 28 FEET

APPROXIMATE DIAMETER OF WELL 6 NEAREST INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary) CABLE REVERSE-ROTary Drive-POINT other

REPLACEMENT OR DEEPEMED 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 (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 DEEPEM AN EXISTING WELL

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

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

APPROP. PERMIT NUMBER 1402006G018 PERMIT No. 140-95-1227 70 71 72 73 74 75 76 77 78 79

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

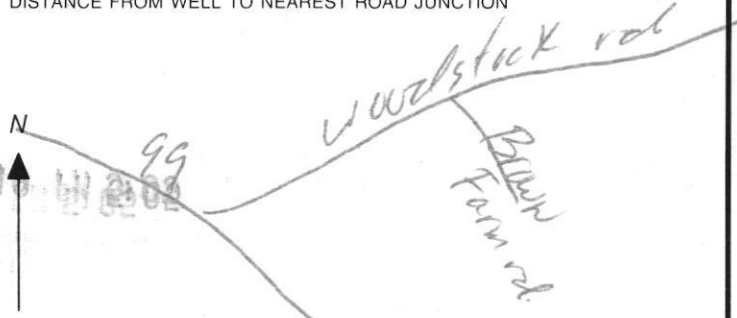
SOURCES OF DRILLING WATER 1. 2. 3.

WRITE THE BOX NUMBER FROM THE MAP HERE

E 8308 N 540

8/29/07 449 Radium Sample Collected During Yield Test. (BB) (X)

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION



SPECIAL CONDITIONS RADIUM SAMPLE NEEDED PER HEALTH DEPT. NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED.

Yield Test Data Sheet

County File # _____
District 2

MD Well Permit #. H0-95-1227

Date of Test: 9-4-07

Subdivision Name: Myrtle Property

Section _____ Lot # 31

Street Address: Woodstock Rd

Measuring Point (MP) Description: Top of casing
(for ex. "Top of casing")

Distance from MP to ground surface 1 ft.

Well Depth 100 ft.

Well Driller: Fogle's Well Drilling

Must be submitted with the State of Maryland Well Completion Report

Submit to: _____

Pump Start Time <u>8:00</u>	Static Water level: <u>18</u> ft.	Pumping Rate () Time to fill <u>1</u> gal. bucket () Flow meter reading (if used)	Calculated Flow (gallons per minute) <u>20</u>
TIME	WATER LEVEL BELOW M.P.		

Water level and pumping rate must be recorded every 15 minutes

#	TIME	WATER LEVEL ft.	PUMPING RATE	CALCULATED FLOW (GPM)
1	8:00	18	3	20 GPM
2	8:15	25	3	20 GPM
3	8:30	25	3	20 GPM
4	8:45	25	3	20 GPM
5	9:00	25	3	20 GPM
6	9:15	25	3	20 GPM
7	9:30	25	3	20 GPM
8	10:00	25	3	20 GPM
9	10:15	25	3	20 GPM
10	10:30	25	3	20 GPM
11	10:45	25	3	20 GPM
12	11:00	25	3	20 GPM
13	11:15	25	3	20 GPM
14		ft.		GPM
15		ft.		GPM
16		ft.		GPM
17		ft.		GPM
18		ft.		GPM
19		ft.		GPM
20		ft.		GPM
21		ft.		GPM
22		ft.		GPM
23		ft.		GPM
24		ft.		GPM
25		ft.		GPM
26		ft.		GPM
27		ft.		GPM
28		ft.		GPM
29		ft.		GPM
30		ft.		GPM

NOTES:



Penny E. Borenstein, M.D., M.P.H., Health Officer

ATTENTION WELL DRILLERS!!!

When submitting a well application for a new or replacement well, please indicate one of the following:

- The well site has been staked by DaFT - McCune Walker on _____ and is ready for site inspection.
- _____ will call the Health Department for a time to meet in the field to verify a well location.
- Site plan for new well is attached to well permit application.

Please attach this sheet when submitting your green application. This should help improve communication allowing a more timely service for our citizens.

KN

*Engineer stated well box is
Staked on corners*

Murtne Prop. Lots 1-31

**HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
WATER AND SEWERAGE PROGRAM
TEL: (410)313-2640 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 UNDERWOODS 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 direct supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification.

Name of Property Owner: Keystone Homes Telephone #: _____
Subdivision: Mirvue Property Lot #: 31 Well Tag #: HO-95-1227
Site Address: 1910 DAVIS BRANCH RD
WOODSTOCK MD 21163

<u>Submersible Pump Data</u>	<u>Pitless Adapter</u>	<u>Well Cap and Electric Conduit</u>
Make: <u>GARDIS</u>	Make: <u>BIC</u>	Two piece watertight cap: <input checked="" type="checkbox"/>
Model #: <u>7CS05422</u>	Model#: <u>9100</u>	Screened, vented well cap: <input checked="" type="checkbox"/>
Pump Capacity <u>7</u> GPM	Depth: <u>36</u> (36" min)	Cap secured to casing: <input checked="" type="checkbox"/>
Well Yield: <u>15</u> GPM	NSF approved: <u>yes</u>	Conduit min 18" B.G.: <input checked="" type="checkbox"/>
Depth of well encountered at time of pump installation: <u>100</u> (feet)		Conduit secured to well cap: <input checked="" type="checkbox"/>

If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4
Torque arrestors or Cable guards are required - Must circle one
Safety rope, if used, attached to inside of well casing with eye bolt _____

<u>Piping to house</u>	<u>House Connection</u>
Type: <u>Poly</u>	PVC sleeved to undisturbed soil at wall penetration: <input checked="" type="checkbox"/>
PSI: <u>200</u> (160 psi min)	Approximate length of sleeve: <u>6'</u>
Depth of supply line: <u>36</u> (36" min)	Sleeve caulked and 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 12/14/22

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

Date Insp. Requested: 12/19/2022 Date Insp. Approved: 2/17/2023

Inspection Data: Pitless adapter and water supply line at least 36" below grade	<input checked="" type="checkbox"/>	
- Two piece cap installed and attached to casing securely	<input checked="" type="checkbox"/>	- bolts loose
Elec. conduit extends at least 18" below grade/attached to cap properly	<input checked="" type="checkbox"/>	
Safety rope installed inside of well casing	<input checked="" type="checkbox"/>	
- Correct well tag attached properly and casing 8" above finished grade	<input checked="" type="checkbox"/>	- tag not on casing, may be difficult to be 8" above grade
Water supply line sleeved adequately at house connection	<input checked="" type="checkbox"/>	
Adequate grout observed below pitless adapter	<input checked="" type="checkbox"/>	



Bureau of Environmental Health
8930 Stanford Blvd | Columbia, MD 21045
410.313.2640 - Voice/Relay
410.313.2648 - Fax
1.866.313.6300 - Toll Free

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

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – SEPTEMBER 17, 2023

March 17, 2023

Homeowner
1910 Davis Branch Road
Woodstock, MD 21163

RE: Marriotts Ridge, Lot 31
1910 Davis Branch Road
Building Permit: B22000623
Well Permit: HO-95-1227

Dear Homeowner:

This is to advise you that the septic system installation and water well construction for the above referenced property have been inspected and approved. Final approval of the septic system was granted on **2/6/2023**. Final approval of the well line connection to the dwelling was granted on **3/17/2023**. The well construction was completed on **12/27/2022**. Water samples were collected on **3/2/2007**.

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 **8/29/2007**. Results showed a Gross Alpha level of **1.2 ± 0.8 pCi/L** and **Gross Beta** level of **2.1 ± 1.2 pCi/L**. The Gross Alpha was below the maximum contaminant level (MCL) of 15 pCi/L and the Gross Beta was below the target level of 50pCi/L (roughly equivalent to the annual dose rate of 4 millirems per year). At the time of testing and with respect to these parameters, the well water is safe for all uses.

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-95-1227. 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.**



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

Please contact (410) 313-1773 to schedule a final water sample appointment or contact a 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>

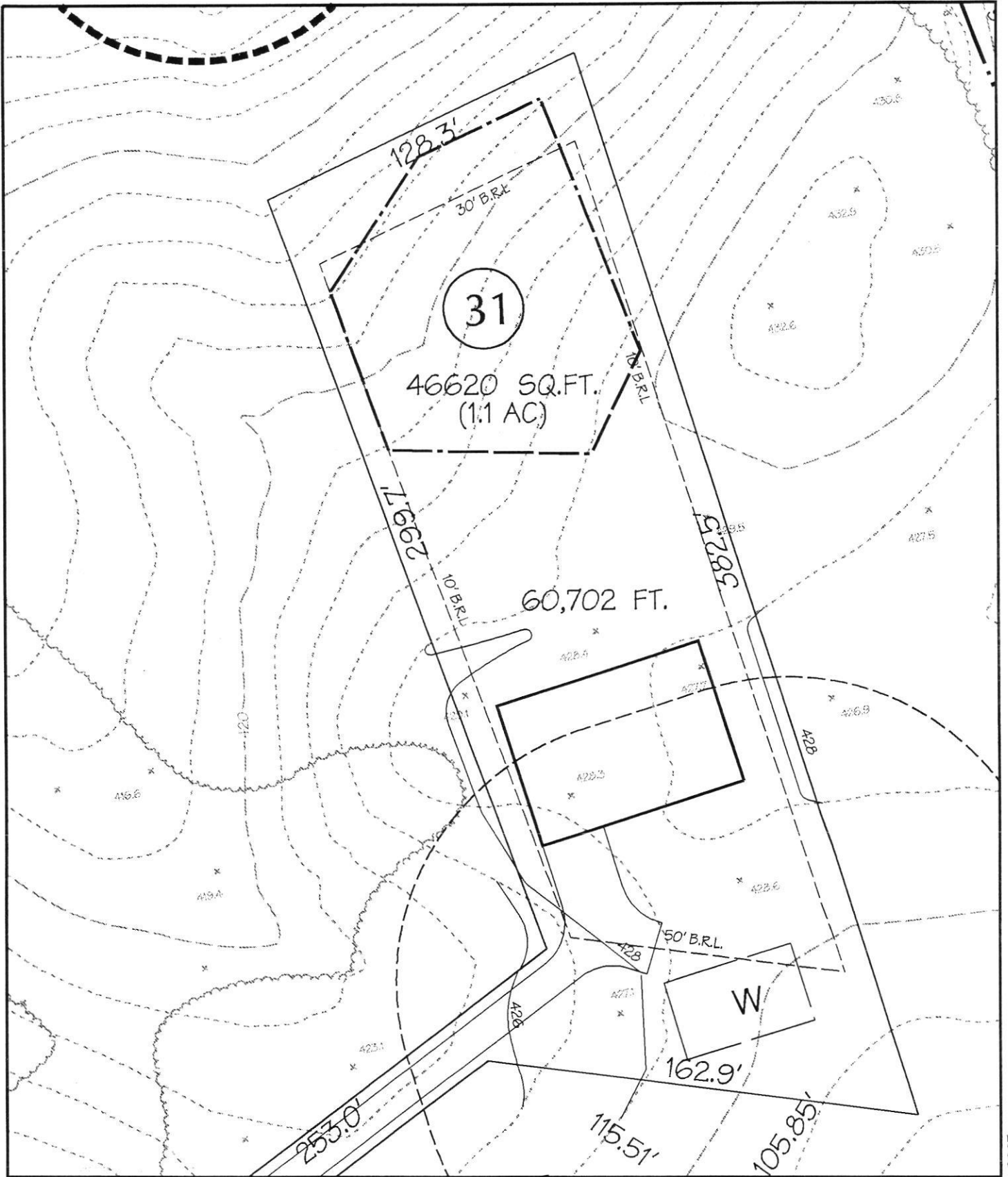
In closing, please refer to our "Homeowner Fact Sheet" for understanding your onsite sewage disposal system. You will also find a link to Maryland Department of the Environments website which elaborates in further detail operation and maintenance of your Septic System.

Approving Authority,

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

Kevin M Wolf, L.E.H.S., REHS/R.S., Supervisor
Groundwater Management Section
Well & Septic Program

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



MYRTUE PROPERTY

LOT 31

DMW

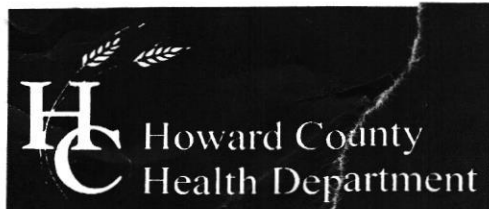
Daft·McCune·Walker, Inc.

200 East Pennsylvania Avenue
 Towson, Maryland 21286
 (410) 296-3333
 Fax 296-4705

A Team of Land Planners,
 Landscape Architects,
 Engineers, Surveyors &
 Environmental Professionals

Job No. 02033	Scale: 1"=50'	Date: 04/16/07	Drawn By: MDT
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n:\02033\Lot Wells\Lot31.DGN



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

October 9, 2007

James Keelty and Company, Inc.
61 East Padonia Road
Timonium, MD 21093

RE: Myrtue Property, Lot# 31
Well Tag: HO-95-1227

To Whom It May Concern:

A sample was collected from a yield test August 29, 2007 and submitted to GPL Laboratories 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. In turn, this can provide information regarding naturally occurring radiation (i.e., Radionuclides) that may exist in your area of development within the County.

Results from this screening revealed a **Gross Alpha** of 1.2 ± 0.8 picocuries/liter (pCi/L); while the **Gross Beta** level was 2.1 ± 1.2 pCi/L. The **Gross Alpha** result was below its **maximum contaminant level (MCL)** of 15 pCi/L, while the **Gross Beta** level was below its target value of 50 pCi/L (roughly equivalent to the **annual dose rate** of 4 millirems/year).

At the time of testing and with respect to these parameters, the future well water supply appears safe for all uses. No additional testing for these parameters will be required to secure the future Use & Occupancy. However, other standard (potability) testing will still be necessary.

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.

Sincerely,

Handwritten signature of Bert Nixon in cursive.

Bert Nixon, Director
Bureau of Environmental Health

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

HOME LAND

L A B S

1220 East Joppa Road #C505
Towson, MD 21286
Phone 443.505.8375
lab@homelandhealthyhomes.com
State Certified Water Quality Lab 365

108 Old Solomons Island Road, Suite I2
Annapolis, MD 21401
Phone 443.505.8375
lab@homelandhealthyhomes.com
State Certified Water Quality Lab 106

3430 Rockefeller Court
Waldorf, MD 20602
Phone 443.505.8375
lab@homelandhealthyhomes.com
State Certified Water Quality Lab 139

Certificate of Analysis

Report Date: 03/07/2023

Client: Barlow Well Drilling

Property Address: 1910 Davis Branch Road LOT 31
Woodstock, MD

Report No: 235279

Sample Time: 03/02/2023 07:45

Date & Time Received: 03/03/2023 07:58

Sampled By: Steve Duklewsk

Field Preservation: Ice

Sample Point(s): Pressure Tank

Water Conditioning Appears to be: None

Field Chlorine: 0.00

Field pH: Not Noted

Well Type: Drilled

Well Height: 1'

Cap Type: 2 Piece PVC

Casing: PVC

Conduit: PVC

Clarity: Clear

Sand: None Observed

Well Tag Number: HO-95-1227

This report is the sole property of Barlow Well Drilling. Any questions about the report MUST be directed to Barlow Well Drilling at (410) 838-6910. Home Land Labs is not at liberty to discuss this report without written consent from Barlow Well Drilling.

Primary Contaminants								
Parameter	Method	Result	Pass/Fail	Units	MCL	RL	Analyst	Date of Analysis
Bacteria-Total Coliform	Colisure Test	Absent	Pass	Per/100ml	Present	1	D J - 365	03/05/2023
Bacteria-E.coli	Colisure Test	Absent	Pass	Per/100ml	Present	1	D J - 365	03/05/2023
Nitrate + Nitrite as N	EPA 353.2	1.6	Pass	mg/L	10	0.5	A D - 365	03/03/2023
Turbidity	EPA 180.1	0.8	Pass	NTU	10	0.5	M K - 365	03/03/2023
Radium Gross Alpha	EPA 900.0	Pending	Pending	pCi/L	15			

Secondary Contaminants								
Parameter	Method	Result	Acceptable/High	Units	SMCL	RL	Analyst	Date of Analysis
pH	EPA 150.1	6.4	-	pH Units	-	1	M K - 365	03/03/2023

Contaminants								
Parameter	Method	Result	Acceptable/High	Units	SMCL	RL	Analyst	Date of Analysis
Sand	SM 2540F	Not Detected	NA	ml/L/hr	-	0.5	M K - 365	03/03/2023

Report Notes

The lab added the following notes for your report:

- pH must be analyzed in the field to be in accordance with EPA protocol.

Approved By: Denise Junis Denise Junis, Lab Director

Understanding the Results

This narrative is intended to help the recipient understand the results. The information listed below is for tests commonly sampled or analyzed by Home Land Environmental Labs. For a full list of the Environmental Protection Agency's (EPA) Primary and Secondary Drinking Water Standards, please visit www.epa.gov. For more information on the services we offer, please visit www.homelandhealthyhomes.com.

Definitions and Acronyms

Maximum Contamination Level (MCL): A level established by the EPA which is the "highest level of a contaminate that is allowed in drinking water." Any level that exceeds the MCL is considered unsafe for human consumption. Secondary MCL (SMCL) is used for Secondary Drinking Water Standards.

Action Level: A measure of the effectiveness of the corrosion control treatment in water systems.

Not Detected (ND): Any level below the reporting limit.

Analyst: Refers to the individual whom conducted the test.

Method: The type of analysis used to determine the results.

Reporting Limit (RL): The lowest level that can be detected by the method used for the analysis.

Primary Drinking Water Standard: Enforceable standards developed by the EPA. Levels that exceed the MCL for a particular standard are considered too unsafe for human consumption.

Secondary Drinking Water Standard: Standards developed by the EPA. Secondary standards are generally not considered to be dangerous to human health. They may cause aesthetic or cosmetic problems to the water quality or plumbing distribution system.

This table is for informational purposes only. See first page of report for your results.

Parameter	MCL/SMCL	Type	Effects	Source	Common Treatment Options
Total Coliform Bacteria	Present or 1 MPN/100mL	Primary	Used to indicate whether potentially harmful bacteria are present	Naturally Present	Well Repair and Chlorination, UV light
E. Coli Bacteria	Present or 1 MPN/100mL	Primary	Stomach illness	Human and animal fecal waste	Well Repair and Chlorination, UV light
Nitrates	10.0 mg/L	Primary	Blue-Baby Syndrome	Fertilizers and sewage	Reverse Osmosis System
Nitrites	1.0 mg/L				
Lead	Action Level of 0.015 mg/L	Primary	Slowed mental development, kidney problems, high blood pressure	Corrosion of household plumbing systems; erosion of natural deposits	Acid Neutralizer, Chemical Feeder (Soda Ash), Pipe Replacement
Radium Gross Alpha	15.0 pCi/L	Primary	Increased risk of cancer	Naturally occurring	Water Softener
Radium 226 & 228	5.0 pCi/L				
Volatile Organic Compounds (VOCs)	Varies	Primary	Increased risk of cancer	Gas and chemical leaks	Charcoal Filter
Arsenic	0.010 mg/L	Primary	Skin Damage, circulatory problems, cancer	Natural deposits, orchards, industrial waste	Reverse Osmosis System
Cadmium	0.005 mg/L	Primary	Kidney damage	Pipes, natural deposits, industrial waste	Reverse Osmosis System, Water Softener
Copper	Action Level of 1.3 mg/L	Primary	Gastrointestinal distress, liver or kidney damage	Corrosion of household plumbing systems, erosion of natural deposits	Acid Neutralizer, Reverse Osmosis System, Pipe Replacement
	1.0 mg/L	Secondary	Metallic taste; blue-green staining		
Turbidity (Public Water Systems)	1.0 NTU	Primary	Water treatment interference, possible bacteria indicator	Varies	Filtration, Source Protection
Turbidity (Private Wells)	10.0 NTU (MD COP Requirement)	Primary	Possible bacteria indicator	Surface water, iron, other	Filtration, Source Protection
Iron	0.3 mg/L	Secondary	Possible staining on plumbing fixtures and laundry	Naturally occurring	Water Softener
Chlorides	250 mg/L	Secondary	Salty taste, plumbing corrosion	Salt water intrusion, road salts	Source Protection, Whole House Reverse Osmosis System
pH	Outside of 6.5-8.5 (Neutral range)	Secondary	Low pH: Bitter metallic taste, corrosion High pH: Slippery feel, soda taste, Deposits	Naturally occurring	Acid Neutralizer