FILL IN THIS FORM COMPLETELY PLEASE TYPE Depth of Well STOOD USE ONLY OWNER	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
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protected by federal or State Law.

SPECIAL CONDITIONS RADIUM SAMADLE

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

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THIS WELL WILL REPLACE A WELL THAT WILL BE USED

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED

AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY

ABANDONED AND SEALED

APPROP. PERMIT NUMBER

FOR POLICY ON STANDBY WELLS

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

THIS WELL WILL DEEPEN AN EXISTING WELL

REPLACEMENT OR DEEPENED WELLS (CIRCLE APPROPRIATE BOX)

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NOV 07, 2015

HOWARD COUNTY HEALTH DEPT. POOD PROTECTION PROGRAM

Date: March 19, 2020

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-18-0137

Location of Property: Reynolds Ct Ellicott City, Md

Subdivision: Kings Forest Lot#: 11

Well Driller/Tech: Fogles Andrew Houseman MSD224 Owner/Buyer: Toll Brothers

Depth of Well: 200' Casing: 59' of 6" Steel Casing Pump Depth: 180'

Distance of measuring point (M.P.) above ground: $\underline{1}'$

Static water level (S.W.L.) below M.P.: 31'

High rate pumping -reservoir Drawdown

Time pump started: 9:00 Pumping rate: 10

Total time__15 Mins__to reach pumping water level_36 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)
9:00	31'	6 Seconds		10 gpm
9:15	36'	6 Seconds		10 gpm
9:30	36'	6 Seconds		10 gpm
9:45	36'	6 Seconds		10 gpm
10:00	36'	6 Seconds		10 gpm
10:15	36'	6 Seconds		10 gpm
10:30	36'	6 Seconds		10 gpm
10:45	36'	6 Seconds		10 gpm
11:00	36'	6 Seconds		10 gpm
11:15	36'	6 Seconds		10 gpm
11:30	36'	6 Seconds		10 gpm
11:45	36'	6 Seconds		10 gpm
12:00	36'	6 Seconds		10 gpm
12:15	36'	6 Seconds		10 gpm

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HOWARD COUNTY HEALTH DEPT. COMMUNITY HYGIENE TO OGRAM.



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

Liceuse # 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.

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: Subdivision: Site Address: Submersible Pump Data Make: Make: Make: Model #: Model #:
Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing N/A
Piping to houseHouse ConnectionType: 1" poly pipePVC sleeve to undisturbed soil at wall penetration: yesPSI: 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
For Health Department Use Only - Not to be completed by Installer
(Revised form 10/24/2018)



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

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – JUNE 13, 2024

December 13, 2023

Homeowner 10617 Reynolds Court Ellicott City, MD 21042

RE: Kingsley Woods, Lot 11

10617 Reynolds Ct.

Building Permit: B23000641 Well Permit: HO-18-0137

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 11/17/2023. Final approval of the well line connection to the dwelling was granted on 11/22/2023. The well construction was completed on 3/19/2020. Water samples were collected on 11/1/2023.

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.

Radium samples were also collected on 11/27/2023. Results showed a combined level of Radium 226/228 2.6 ± 1.1 pCi/L. The combined level of Radium 226/228 was below the maximum contaminant level (MCL) of 5 pCi/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-18-0137. 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.

Website: www.hchealth.org Facebook: www.facebook.com/hocohealth Twitter: @HoCoHealth



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,

Kevin M Wolf, L.E.H.S., REHS/R.S., Supervisor

Groundwater Management Section

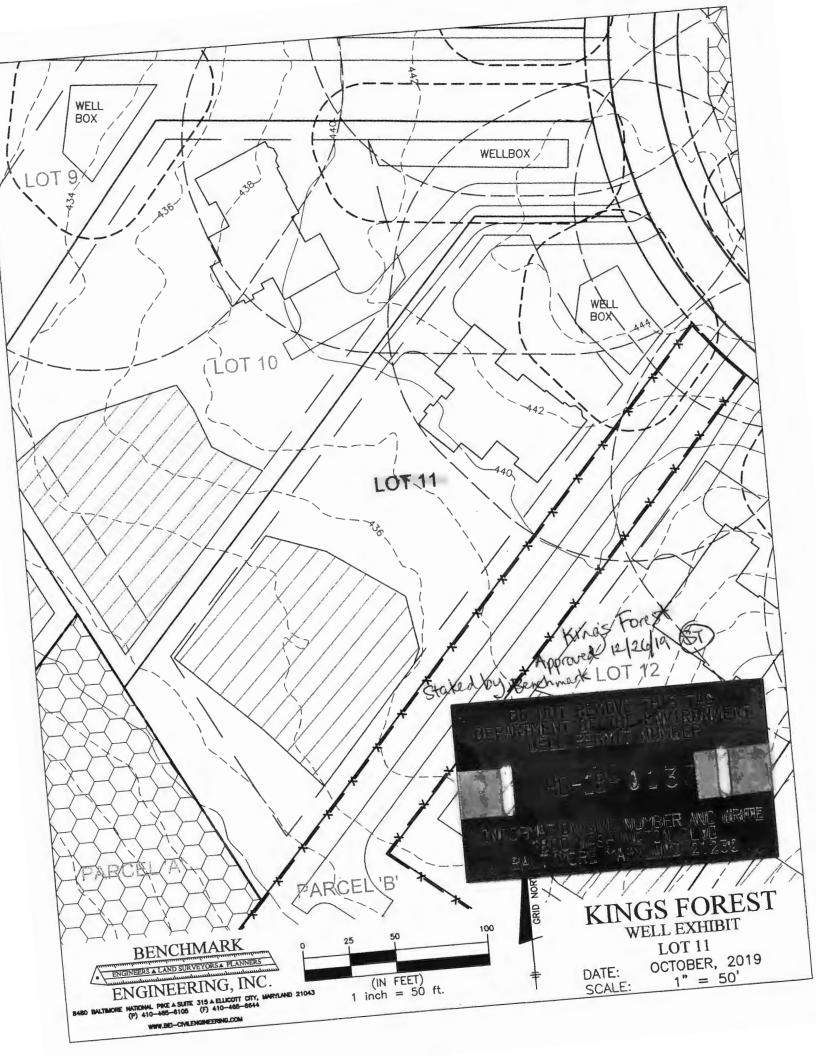
hin R. Vill

Well & Septic Program

cc: Howard County Dept. of Inspections, Licenses, and Permits

Community Hygiene Program

File



Send Report To: Bert Nixon

Howard County Health Department

Pregau of Environmental Health

Stanford Blvd.

Columbia, Maryland 21045

n

State of Maryland MDH – Laboratories Administration

Division of Environmental Sciences

TRACE METALS LABORATORY

1770 Ashland Avenue Baltimore, Maryland 21205 Lab No. Date Received

F20003221002

I DO not write above this line

E20003221002 Received: 03/20/2020

Metals

HOST0137NA

LABORATORY ANALYSIS REQUEST

				Please Print				
amp	le ID No: HOSTO	SINA SI	te Na	ame: King's Fore	est Lot	11	_ County: _	Howard
amp	le Source: Rud	Street)	+	Ame: King's Forest Town or City	Lot 11	_Coll	ector: Sign	A Thom
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MDH 4432 (03/19)

SUBMITTER'S COPY

•Fax: (443) 681 – 4507

•Phone: (443) 681 – 4596

SAMPLE TESTED AS RECEIVED

Send Report Too Bert N. Menn

to an a control of the control of th

SHOEL CHRISTIAN LIGHT

State of Maryland
MDH - Laborative Admerimant

TWACE METALS LABORATORY

1770 Ashlani Avenus Danunga Maralah 18411

Saladi immedia

LINBURATURY ANALYSIS REQUEST

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	E Source (Raw Water)	□ Landid □ Stream	Ef Drinking Water	Sample Type: Dan Caugory
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=00	O Brazolori consulti I	W/ E RCRA	SOWA CIMPDES EC	Specify Programs: II
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		Molyboaning (Ma)		Selenium (Se)	
		Potassium (K)	543	Sodium (Na)	
		Silver (Ag)		(II) muiller(II)	

Lub Supervisor:

*Phone: (4=4) (81 - 4596)

*Fac: (443) 681 - 4507

Date Reguerant.



State of Maryland Department of Health Laboratories Administration Division of Environmental Sciences TRACE METALS LABORATORY 1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director



Certificate of Analysis

HOWARD CO ENVIRONMENTAL HLTH 8930 STANFORD BLVD COLUMBIA, MD 21045

Date Received: 03/20/2020 Submitted By: Susan Thomas Lab Project No: E20003221 Date Coll.: 03/19/2020

Field ID: HOST0137NA Lab No.: E20003221002

EPA 200.7

Result Units **Date Analyzed** Method Element 03/25/2020 5.31 Sodium ppm

Comments:

Warnishen - Cuessian Approved by:

Approval date: 04/09/2020

This document contains confidential health information that is privileged, confidential and exempt from disclosure under law. If you have received this information in error, please call (410) 767-6944 and arrange for return or destruction.

Telephone: (443) 681 - 3853

Fax: (443) 681-4507

S:\EnviroFinal-Metals.rpt

^{**}The following methods are included in our A2LA Scope of Accreditation: EPA 200.7, EPA 200.8, EPA 245.1. Samples are tested as received.

REC'D BY WELL & SEPTIC '20 APR 14 AH9:11

Send Report To: Bert Nixon

Howard County Health Department
Burear of Environmental Health
8930 Stanford Blvd.
C. Abia, Maryland 21045

MDH-90-A 07/17

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

E20003220001

Received: 03/20/2020

WATER ANALYSIS

Inorganic HOST0137

M Adding P L Colle E CHE I Land Stree Other	ress Tucker h King's Foresected: Pate 3/9 Time 1:27 CCK fone per box) Iking water dfill	Collector & Phone Source (raw w. Distribution (tr. MCL	vater) Emergency D
I pH	ant No. Station	Total [Preservation: feed Acid Acid Acid Specific Conductance
CHECK TESTS	TESTS	Error Code	RESULTS
1E515	Alkalinity (Total)	Code	ILES CETS
7.77	Ammonia - N		
V.	Chloride		
	Conductance*, Spec.		
in the same	Dissolved Solids (Total)		
	Hardness		
	Fluoride		
	Nitrite, N		
	Nitrate + Nitrite, N		
	Sulfate		
	Total Solids		
	Turbidity*		
	Other:		
			,
	* TEMP. BLANK - 7°C; INSUF	FICTENT	AMOUNT OF ICE IN COOLER TO
	SURROUND TEMP, BLANK	138 3/20/20	
		,	
1			
Nun	esults reported in Units, all others in milligrams per nber of s Requested Section Chief	liter (ppm)	*Samples are tested as received. Date Reported

SUBMITTER'S COPY

Partial List of Submitter Codes

Code	Description	omifolitimi./s-m/	Code	Description Heading of the North Control of the Con	
1-30		accounted facilitation of the state of the s	53	may mile	
41	Individual Septics & Wells Program		59	Standards & Certification Program half has a large	
42	Public Drinking Water		63	Division of Food Control ELGTS brisaly with side	
43	Recreational Sanitation & Migrant		64	Engineering & Maintenance, MDH	
40	Camps, MDH		0.	Baitle	
44	STP Inspection Division	De yaver -	65	Division of Community Services	
45	Hazardous & Solid Waste Admin.		66	Office of Attorney General	
40	(Landfill Samples)		67	Dept. of General Services	
46	Pre-Treatment Enforcement Division		77	E.P.A.	
48	Licensing and Certification, MDH		91	State Highway Administration	9
52	Water Quality Monitoring Program		96	L.U.S.T./U.S.T./CERÇLA	
42	vator stately morntoning rivers.		99	Unknown	
					-(1
	Codes for Federally	Funded Projects	(leave	box blank if not federal)	
Code	Description	-to-I my I	Code	Description	Na atily
	miller the variety of Adorda 3.	near the	N	National Pollution Discharge	THE REAL PROPERTY.
S	Safe Drinking Water Act (SDWA)		1/1		
_	December Consequentian and		M	Elimination System (NPDES)	31
R	Resource Conservation and		M	Miscellaneous (Other)	
	Recovery Act (RCRA)				
	Part	ial List of Data C	atego	y Codes	
Codo	Description		Code	Description	
Code	Description			Alta Stanton (Total)	
1F	Sediment Samples		2F	Innovative Disposal	1
2A	Industrial Effluents/Compliance		5A.	Solid Waste/Landfills	1
2B	Industrial Grab		5B	Kidney Dialysis	
2C	Municipal Compliance		5C	Commercial Bottled Waters	
2D	Municipal Grab		5D	Misc. Wastewaters	
4A	MCL Surveys		5E	Misc. River/Stream	
4B	Routine Monitoring & Other		5F	Misc. Drinking Water	
	Communities		5G	Own thing I dolo	
4D	Potable - County Community		5H	Marine or Estuarine Natural Bathing	
4E	Potable - Non Community			Areas	
4F	Potable - Private Wells				
4G	Real Estate Trans:/Charge Samples				
		Partial List of E	rror Co		
Code	Description		Code	Description	
			1		
A	Laboratory Accident	SOUTH TAXES	RR	Wrong sample type No sample received	
C	THE GITTER THE THE TAIL OF THE				
D	Insufficient Sample		X X	Improper preservation Mislabeled sample	
E	Sample past holding time		In la	misiabeled sample	
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State of Maryland Department of Health Laboratories Administration Division of Environmental Sciences INORGANICS ANALYTICAL LABORATORY 1770 Ashland Avenue, Baltimore, Maryland 21205 Robert Myers, Ph.D., Director



HOWARD CO ENVIRONMENTAL HLTH 8930 STANFORD BLVD COLUMBIA, MD 21045

Certificate of Analysis

Lab Project NoE20003220 Date Coll. 03/19/2020 Date Received: 03/20/2020 Submitted By: S. Thomas

Field ID: HOST0137CLTDS Lab No.: E20003220001

<u>Analyte</u>	Method	Result	<u>Units</u>	Date Analyzed
Chloride	SM 4500-CI E	<10	mg/L	03/30/2020
Total Dissolved Solids	SM 2540C	62	mg/L	03/23/2020

Comments:

Approved by:

Shahler andi

Approval date: 03/31/2020

*The following methods are included in our A2LA Scope of Accreditation: EPA150.1, EPA 353.2, EPA 375.2, SM4500F C, SM 4500-CN G & QCM-CN, QCM-CN. Samples are tested as received.

This document contains confidential health information that is privileged, confidential and exempt from disclosure under law. If you have received this information in error, please call (410) 767-6190 and arrange for return or destruction.

Telephone: (443) 681 - 3855

Fax: (443) 681 - 4507

S:\EnviroFinal-InorganicsA.rpt



Bureau of Environmental Health

8930 Stanford Blvd, Columbia, MD 21045 Main: 410-313-2640 | Fax: 410-313-2648 TDD 410-313-2323 | Toll Free 1-866-313-6300 www.hchealth.org

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

Sodium, Chloride and Total Dissolved Solids water sampling results

February 16, 2021

Toll Brothers 7164 Columbia Gateway Dr, Suite 230 Columbia, MD 21046

Re:

Kings Forest Lot 11

Reynolds Ct

Well Permit: HO-18-0137

Dear Toll Brothers,

The Health Department received results from the testing for sodium, chloride, and total dissolved solids (TDS) from your well water. These samples were collected directly from the raw well water when your well was drilled.

Sodium from your well measured 5.31 mg/L. There is no maximum contaminant level for sodium, however elevated sodium levels in drinking water could affect individuals on low-salt diets. If anyone in your household in on a low-salt diet, you may want to discuss these results with your physician.

Chloride and TDS are both considered secondary contaminants, meaning high concentrations can affect taste, color, odor, or corrosive properties of water but present no risk to health. The secondary maximum contaminant level for chloride is 250 mg/L; chloride from you well measured <10 mg/L. The secondary maximum contaminant level for TDS is 500 mg/L; TDS from your well measured 62 mg/L.

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

Respectfully,

Susan Thomas

Environmental Health Specialist Howard County Health Department Well and Septic Program

410-313-6287

sathomas@howardcountymd.gov

√Cc: File

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

REPORT OF ANALYSIS

Laboratory ID #: 162372

Account #: 1933 Reference:

Kingsley Woods Lot 11 Client: Fogle's Well Pump & Treatment Location:

10617 Reynolds Court Dave Fogle Requested By: Ellicott City, MD 21042

Well Water Source: Date/ Time Collected: 11/1/2023 1030 Site: Pressure Tank

Date/Time Rec'd: 11/1/2023 1423 Treatment: None Chlorine ppm: Free: ND Total: ND pH: 6.1

Collected By: J. Evans 0309JE Well #: HO-18-0137

PARAMETERS	RESULTS	UNITS RE	FERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	11/2/2023 / 1000 / KDR
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	11/2/2023 / 1000 / KDR
Nitrate.	< 0.40	mg/L (as N)	10	EPA 300.0	11/1/2023 / 1644 / CRS
Turbidity	9.58	NTU	<10	SM2130B	11/1/2023 / 1605 / KDR
Sand	ND	mg/L	5	Visual/Gravimetric	11/2/2023 / 1030 / CJM
Iron	0.59	mg/L	0.3*	Hach 8146	11/2/2023 / 0900 / CJM

NOTES:

- 1 Report revised to change lot number to Lot 11. 11/6/23 CH/FVAL
- 2 *SMCL = Secondary Maximum Contaminant Level
- 3 mg/L = milligrams per liter (also, parts per million)
- MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample. 4
- 5 NTU = Nephelometric Turbidity Units
- Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 7 ND:None Detected
- 8 pH and Chlorine level tested in lab (pH tested after recommended holding time)
- Sample collected by client, analyzed as received

Reason for Test: Use & Occupancy B23000641 **Building Permit#:**

Date Reported: 11/6/2023

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

REPORT OF ANALYSIS

Laboratory ID #:

162803

Account #:

Reference:

Kingsley Woods Lot 11

Client:

Fogle's Well Pump & Treatment

Location:

10617 Reynolds Court

Requested By:

Dave Fogle

Ellicott City, MD 21042

Source:

Well Water

Date/ Time Collected: 11/27/2023

Site:

Kitchen Sink

Date/Time Rec'd:

11/27/2023

0815 1445

Treatment:

None

Free: ND

Total: ND

pH:

5.9

Chlorine ppm: Collected By:

J. Evans

0309JE

Well #:

HO-18-0137

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Radium-226	0.6	pCi/L	****	903.0	12/11/2023 / 0920 / MJN
Radium-228	2.0	pCi/L	****	Ra-05	12/8/2023 / 1229 / SN

NOTES:

- ****Radium 226 and Radium 228 combined have a reference of 5 pCi/L 1
- pCi/L = picocuries per liter 2
- Radium 226 Detection Limit: 0.2 pCi/L; Radium 226 Error: +/- 0.4 pCi/L 3
- Radium 228 Detection Limit: 0.8 pCi/L; Radium 228 Error: +/- 0.7 pCi/L 4
- Sub-contracted to Reference Lab #278 5
- 6 ND:None Detected
- pH and Chlorine level tested in lab (pH tested after recommended holding time) 7
- Sample collected by client, analyzed as received 8

Reason for Test:

Use & Occupancy

Building Permit #:

B23000641

Date Reported:

12/11/2023



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

MEMORANDUM

TO:

Fogle's Well Drilling 580 Obrecht Road

Sykesville, MD 21784

FROM:

Susan Thomas

Environmental Health Specialist 🛞 1421/19

Howard County Health Department

Well & Septic Program

RE:

Kings Forest Subdivision - Well Permits Lots 1-36 and Parcel D

Special Conditions for wells

DATE:

December 26th, 2019

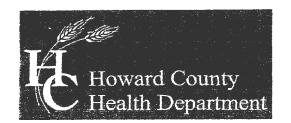
The following comments apply to the above referenced Well Permit Applications. Please read through and complete as needed.

A. Lots 17, 26, 27, and 33-35 will require 50' of Steel Casing or 10' into competent bedrock, whichever is deeper.

10. A waiver for the location of the septic systems and wells, as shown on [Revised Percolation Certification Signed 11/12/2019] has been approved by MDE. As a condition of the approved [sic] of this waiver the initial and all replacement wells on lots 17, 26, 27, and 33 – 35 will require Steel Casings to be installed to 50' or 10' into competent bedrock, whichever is deeper.

- B. All lots in the Kings Forest Subdivision are within the Baltimore Gneiss Formation and will require Water Quality Tests for Radium to be collected at the time of the Yield Test.
- C. If the wells on Lot 13 or Lot 28 are within 10' of the driveway the well must be surrounded by bollards.
- D. Lots 2, 8, 9, 13, 18, 21, 24, 26, 27, 28, 33, 34 and 35 will require samples for Sodium, Chloride and TDS to be collected at the time of the Yield Test.

Website: www.hchealth.org Facebook: www.facebook.com/hocohealth Twitter: @HoCoHealth



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

3,

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:			
Kings Forest Subdivision/Property Name	LOF#1+1VCU LOF#17 Lot#	Road Name	
The well site has been stake (professional land surveyor or contain on OCA 22, 30	red by Book npany employing profe (date)	fessional land surveyors) and does not require a site inspec	ction.

☐ 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.

	HOWARD COUNTY HEALTH DEPARTMENT	66428
	DAJE 1/1	(5
Received From	(() PHONE #	12/18 / 1/14
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NO.		
(1/26)	- garage and the last will	Dollars
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