

B 1	66421	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type <u>56429-C</u>	STATE PERMIT NUMBER <u>HD-18-0150</u> <small>70 fill in this form completely 79</small>
Date Received (APA) <u>1/14/21</u> <small>8 MM DD YY 13</small>		OWNER INFORMATION		
15 Last Name <u>Toll Brothers</u>		34 First Name		
36 Street or RFD <u>7164 Columbia Gateway Dr</u>		55		
57 Town <u>Columbia, Md 21046</u>		76 Zip		
DRILLER INFORMATION				
Driller's Name <u>Andrew Houseman</u>		81 License No. <u>M S D 2211</u>		
Firm Name <u>Fools Well Drilling, LLC</u>				
Address <u>P.O. Box 202 Woodbine Md 21797</u>				
Signature <u>Andrew Houseman</u>		Date <u>11-1-19</u>		
B 2	WELL INFORMATION			
1	2	APPROX. PUMPING RATE (GAL. PER MIN.)		12
		8 <u>5</u>		
AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY)		20 <u>500</u>		
USE FOR WATER (CIRCLE APPROPRIATE BOX)				
<input checked="" type="checkbox"/> DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION				
<input type="checkbox"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)				
<input type="checkbox"/> INDUSTRIAL, COMMERCIAL, DEWATERING				
<input type="checkbox"/> PUBLIC WATER SUPPLY WELL				
<input type="checkbox"/> TEST, OBSERVATION, MONITORING				
<input type="checkbox"/> OPEN LOOP GEOTHERMAL				
<input type="checkbox"/> CLOSED LOOP GEOTHERMAL				
APPROXIMATE DEPTH OF WELL <u>300</u> FEET		24 28		
APPROXIMATE DIAMETER OF WELL <u>6</u> INCH		NEAREST		
METHOD OF DRILLING (circle one)				
BORED (or Augered)		JETTED		Jettied & DRIVEN
<input checked="" type="checkbox"/> AIR-ROTARY		<input type="checkbox"/> AIR-PERCussion		<input type="checkbox"/> ROTARY (Hydraulic Rotary)
<input type="checkbox"/> CABLE		<input type="checkbox"/> REVerse-ROTary		<input type="checkbox"/> Drive-POINT
other				
REPLACEMENT OR DEEPEINED WELLS (CIRCLE APPROPRIATE BOX)				
<input checked="" type="checkbox"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL				
<input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED				
<input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS				
<input type="checkbox"/> THIS WELL WILL DEEPEIN AN EXISTING WELL				
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE) 41 _____ 52				
Not to be filled in by driller (MDE OR COUNTY USE ONLY)				
APPROP. PERMIT NUMBER <u>HD 2018-G004</u>				
PERMIT No. <u>110-18-0150</u> <small>70 71 72 73 74 75 76 77 78 79</small>				
B 3		LOCATION OF WELL		
8 COUNTY <u>Howard</u>		21		
23 SUBDIVISION <u>Kings Forest</u>		42		
SECTION <u>44</u> <u>46</u>		LOT <u>21</u> <u>50</u>		
52 NEAREST TOWN <u>Ellicott City</u>		71		
B 4	SOURCES OF DRILLING WATER			
1 well water				
2 2/7/10				
3 2/7/10				
4 2/7/10				
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NOT TO BE FILLED IN BY DRILLER
HEALTH DEPARTMENT APPROVAL

Howard COUNTY NAME COUNTY NO. 13

STATE SIGNATURE _____ INSERT S → 41

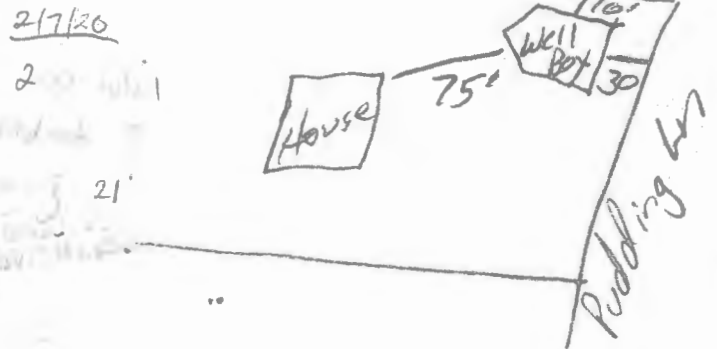
DATE ISSUED 01/14/21 CO SIGNATURE Andrew Houseman EXP. DATE 01/14/21

43 MM DD YY 48

DON: 2/15/2020 SD DOG: 2/7/20 @ DOY: 2/7/20 @

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



Pursuant to § 10-624 of the State Govt. Article of the Maryland Code, personal info requested on this form is used in processing this form pursuant to COMAR 26.04.04. Failure to provide the info may result in this form not being processed. 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 public and other governmental agencies, if not protected by federal or State Law.



SPECIAL CONDITIONS RADIUM SAMPLES REQUIRED, SODIUM CHLORIDE AND TDS SAMPLES REQUIRED

NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

Well Permit No. HO-18-0150
Location of Property: Pudding Lane Ellicott City, Md
Subdivision: Kings Forest Lot#: 21
Well Driller/Tech: Fogles Andrew Houseman MSD224 Owner/Buyer: Toll Brothers

Total time 60 Mins to reach pumping water level 106 ft. below M.P.

[illegible]



HOWARD COUNTY HEALTH DEPARTMENT

Bureau of Environmental Health
8990 Stanford Blvd | Columbia, MD 21046
410.313.2640 - Voice/Relay
410.313.2640 - Fax
1.800.313.4300 - Toll Free

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

Information Form for the Installation of the Well Pump, Filter 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 #: 410-795-1333
Address: P.O. Box 43

Woodbine, Maryland 21797

Most 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 # MS0026

*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. Violations may be reported to the appropriate licensing agency.

Name of Property Owner: Toll Brothers

Telephone #

Subdivision: Kingsley Woods

Lot #: 21 Well Tag #: NO - 16 - 0150

Site Address: 10926 Biddins Lane

21110 Hillery, MD 20412

Submittable Pump Data

Make: Campbell

Model #: 15301-150

Pump Capacity: 244 gpm

Well Yield: 42 gpm

Depth of well encountered at time of pump installation: 200 (feet)

If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 57.8.4

Most circle one: Tongue arrestor / 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

Filter Adapter

Make: Campbell

Model #: N/A

GPM Depth: 36" (36" min)

GPM NSF/WSC approved: yes

Well Cap and Electric Conduit

Two piece watertight cap: yes

Screened, vented well cap: yes

Cap secured to casing: yes

Conduit min 18" B.O.: yes

Conduit secured to well cap: yes

Piping to house

Type: 1" poly pipe

PSI: 200 psi (160 psi min)

Depth of supply line: 36" (36" min)

House Connection

PVC sleeve to undisturbed soil at well penetration: yes

Length of sleeve (3" minimum from foundation): 6"

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: [Signature]

Date: February 9, 2023

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

Date Insp. Requested: 2/3/2023

Date Insp. Approved: 2/3/2023

Inspector: [Signature]

Inspection Date:

Filter adapter watertight & water supply line at least 36" below grade: yes

Two piece cap installed and attached to casing securely: yes

Elec. conduit extends at least 18" below grade/attached to cap properly: yes

Safety rope not outside of well casing: yes

Correct well tag attached properly and casing 8" above finished grade: yes

Water supply line sleeved adequately at house connection: yes

Adapter grom observed below filter adapter: yes

(Revised form 10/24/2018)

INTERIM CERTIFICATE OF POTABILITY**Expiration Date – December 16, 2023**

July 16, 2023

Homeowner
10528 Pudding Lane
Ellicott City, MD 21042**RE: Kingsley Woods, Lot 21
10528 Pudding Lane
Building Permit: B21003350
Well Permit: HO-18-0150**

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 **6/15/2023**. Final approval of the well line connection to the dwelling was granted on **2/3/2023**. The well construction was completed on **2/8/2020**. Water samples were collected on **4/10/2023**.

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 **2/7/2020**. Results showed a Gross Alpha level of **2.8 ± 1.2 pCi/L** and **Gross Beta** level of **4.0 ± 0.0 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-18-0150. 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.**

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 Environment's 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
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 #: 158372 Account #: 1933
Reference: Kingsley Woods Lot 21 Client: Fogle's Well Pump & Treatment
Location: 10528 Pudding Lane Requested By: Dave Fogle
Ellicott City, MD 21042 Source: Well Water
Date/ Time Collected: 4/10/2023 0755 Site: Pressure Tank
Date/Time Rec'd: 4/10/2023 0929 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 6.0
Collected By: J. Evans 0309JE Well #: HO-18-0150

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	4/11/2023 / 0950 / TSD
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	4/11/2023 / 0950 / TSD
Nitrate.	1.48	mg/L	10	EPA 300.0	4/10/2023 / 1610 / MEW
Turbidity	<0.30	NTU	<10	SM2130B	4/11/2023 / 1015 / TSD
Sand	ND	mg/L	5	Visual/Gravimetric	4/10/2023 / 1615 / MEW
Iron	<0.02	mg/L	0.3*	Hach 8146	4/11/2023 / 1050 / TSD

OK

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 pH and Chlorine level tested in lab (pH tested after recommended holding time)
- 9 Visual well check: Sealed, vented cap

Reason for Test : Use & Occupancy
Building Permit # : 21003350

Date Reported: 4/11/2023

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

March 31, 2020

Toll Brothers
7164 Columbia Gateway Drive
Columbia, Maryland 21045

RE: Kings Forest Lot 21
Pudding Lane
Well Tag: HO – 18 – 0150

To Who it May Concern:

A sample was collected during a yield test on February 7, 2020 and submitted to the Maryland Department of Health 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. 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 2.8 ± 1.2 picocuries/liter (pCi/L), while the **Gross Beta** level was $< 4.0 \pm 0.0$ 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 targeted standard 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 well water supply **meets** EPA regulatory standards. Additional testing **for these parameters** will not be required to secure the future Use & Occupancy. Please **note** that other standard testing parameters (bacteria, nitrate, turbidity and sand) will still be needed to help secure Use & Occupancy.

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,



Bert Nixon, Director
Bureau of Environmental Health

Enclosure

✓ cc: Property file
Theresa Miller, Fogles

SEND REPORT TO: Bert Nixon

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

Lab No.

Howard County Health Department
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, Maryland 21045

LABORATORY ANALYSIS REQUEST FORMPlant/Site Name: Pudding Lane Kings Forest, Lot 21County: HowardSample Source: Pudding Lane Kings Forest, Lot 21Location: HO-18-0150

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

Radon-222

Bottle A HO-18-0150 RA

Radon-222 Field Blank

Bottle A _____

Bottle B _____

Bottle B _____

County 113

Plant No.

CHECK (one per Box)

Type	
Drinking Water	<input checked="" type="checkbox"/>
Landfill	<input type="checkbox"/>
Stream	<input type="checkbox"/>
Other	<input type="checkbox"/>

Service	
Community	<input type="checkbox"/>
Non-Community	<input type="checkbox"/>
Private	<input checked="" type="checkbox"/>
Other	<input type="checkbox"/>

Point of Collection	
Source (Raw)	<input checked="" type="checkbox"/>
Distribution (treated)	<input type="checkbox"/>
MCL	<input type="checkbox"/>

Testing	
Emergency	<input type="checkbox"/>
Routine	<input checked="" type="checkbox"/>
Recheck	<input type="checkbox"/>
Special	<input type="checkbox"/>

Submitters Code: 4 F

Federal Project: _____

Collector: Alison ThomasTelephone No.: 410 212 6287Date Collected: 2/7/2020Time Collected: _____ a.m. 1:50 p.m.Field pH: 6.0Field Chlorine: negativeNitric Acid Preserved: Yes ☒ No ☐Iced: Yes ☐ No ☒Remarks: collected at yield of HO-18-0150

<input checked="" type="checkbox"/>	TEST	EPA Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Date Reported
<input checked="" type="checkbox"/>	Gross Alpha	4000	11724	EPA 9000	28 ± 1.2	2/12/2020	KH	2/17/2020
<input checked="" type="checkbox"/>	Gross Beta	4100	11724	EPA 9000	24.0	2/12/2020	KH	2/17/2020
<input type="checkbox"/>	Radium-226	4020						
<input type="checkbox"/>	Radium-228	4030						
<input type="checkbox"/>	Total Uranium	4006						
<input type="checkbox"/>	Radon-222 (Bottle A)	4004						
<input type="checkbox"/>	Radon-222 (Bottle B)	4004						
<input type="checkbox"/>	Radon Field Blank A	4004						
<input type="checkbox"/>	Radon Field Blank B	4004						
<input type="checkbox"/>	Tritium							
<input type="checkbox"/>								
<input type="checkbox"/>								

Date Received: 2/10/20Received By: K. HolmesData Release Signature: Administration TechnicianDate: 02/20/20

Lab Use Only	Yes	No	N/A
Sample Intact upon arrival?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample pH <2.0?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

PORT TO: Port Nixon

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

Lab No.

Howard County Health Department
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, Maryland 21045

LABORATORY ANALYSIS REQUEST FORM

Plant/Site Name: Pudding Lane, Kings Forest, Lot 21

County: Howard

Sample Source: Pudding Lane, Kings Forest, Lot 21

Location: Field Blank

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

Radon-222 Bottle A _____

Radon-222 Field Blank

Bottle A H01 F B 21

Bottle B _____

Bottle B _____

County 13

Plant No.

--	--	--	--	--	--	--	--	--	--

CHECK (one per Box)

Type	
Drinking Water	<input checked="" type="checkbox"/>
Landfill	<input type="checkbox"/>
Stream	<input type="checkbox"/>
Other	<input type="checkbox"/>

Service	
Community	<input type="checkbox"/>
Non-Community	<input type="checkbox"/>
Private	<input checked="" type="checkbox"/>
Other	<input type="checkbox"/>

Point of Collection	
Source (Raw)	<input checked="" type="checkbox"/>
Distribution (treated)	<input type="checkbox"/>
MCL	<input type="checkbox"/>

Testing	
Emergency	<input type="checkbox"/>
Routine	<input checked="" type="checkbox"/>
Recheck	<input type="checkbox"/>
Special	<input type="checkbox"/>

Submitters Code: 4 F

Federal Project: ☐

Collector: Wanda Thomas

Telephone No.: 410-213-6287

Date Collected: 2/7/2020

Time Collected: _____ a.m. 12:55 p.m.

Field pH: 5.5

Field Chlorine: NEGATIVE

Nitric Acid Preserved: Yes ☒ No ☐

Iced: Yes ☐ No ☒

Remarks: _____

<input checked="" type="checkbox"/>	TEST	EPA Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Date Reported
<input checked="" type="checkbox"/>	Gross Alpha	4000	1121	4119006	2.20	2/12/2020	KH	2/13/2020
<input checked="" type="checkbox"/>	Gross Beta	4100	1121	4119000	24.0	2/12/2020	KH	2/13/2020
<input type="checkbox"/>	Radium-226	4020						
<input type="checkbox"/>	Radium-228	4030						
<input type="checkbox"/>	Total Uranium	4006						
<input type="checkbox"/>	Radon-222 (Bottle A)	4004						
<input type="checkbox"/>	Radon-222 (Bottle B)	4004						
<input type="checkbox"/>	Radon Field Blank A	4004						
<input type="checkbox"/>	Radon Field Blank B	4004						
<input type="checkbox"/>	Tritium							
<input type="checkbox"/>								
<input type="checkbox"/>								

Date Received: 2/10/20

Received By: R. Holmes

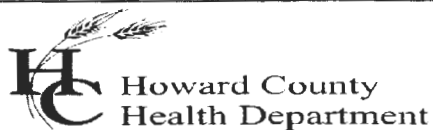
Data Release Signature: Wanda Thomas

Date: 02/20/20

Lab Use Only	Yes	No	N/A
Sample Intact upon arrival?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample pH <2.0?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received within holding time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

Invoice



APR 02 2020

Bureau of Environmental Health
Attn: Bert Nixon, Director

DATE: FEBRUARY 27, 2020
DATES OF SERVICE: FEBRUARY 7, 10, 11 & 12, 2020
INVOICE #: 2020-004

8930 Stanford Boulevard, Columbia, MD 21045
Phone 410-313-2640 Fax 410-313-2648
www.hchealth.org

BILL TO Toll Brothers
7164 Columbia Gateway Drive
Columbia, Maryland 21046

COMMENTS Payment due upon receipt. Letter
and results will be released upon
receipt of payment.

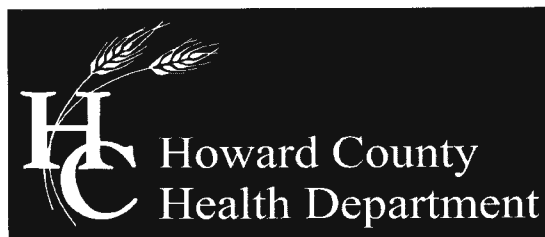
DATE	DESCRIPTION	BALANCE	AMOUNT
2/7/2020	Gross Alpha/Beta testing performed for Kings Forest Lot 21 HO - 18 - 0150		\$45.00
2/10/2020	Gross Alpha/Beta testing performed for Kings Forest Lot 29 HO - 18 - 0158		\$45.00
2/11/2020	Gross Alpha/Beta testing performed for Kings Forest Lot 28 HO - 18 - 0157		\$45.00
2/12/2020	Gross Alpha/Beta testing performed for Kings Forest Lot 27 HO - 18 - 0156		\$45.00
			AMOUNT DUE
			\$180.00

Please detach and return with payment.

REMITTANCE	
Invoice #	2020-004
Site Information	Kings Forest Lots 21, 27, 28 & 29
Amount Due	\$180.00

RECEIVED 3/13/20
67344

Make Checks Payable to: **Director of Finance** Mail Payments to: **Bureau of Env. Health**



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 17, 2021

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

Re: Kings Forest Lot 21
Pudding Ln
Well Permit: HO-18-0150

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 6.45 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 is 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 your well measured <10 mg/L.** The secondary maximum contaminant level for TDS is 500 mg/L; **TDS from your well measured 92 mg/L.**

Feel free to 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

Send Report To: Bert Nixon

State of Maryland
DHMH - Laboratories Administration

Division of Environmental Sciences
TRACE METALS LABORATORY

1770 Ashland Avenue
Baltimore, Maryland 21205

Howard County Health Department
Bureau of Environmental Health
30 Stanford Blvd.
Columbia, Maryland 21045



E20002679001

Received: 02/10/2020

Metals

HOST0150NA

LABORATORY ANALYSIS REQUEST

Do not write above this line

Please Print

Sample ID No: HOST0150NA Site Name: Pudding Lane, King's Forest County: Howard

Sample Source: Pudding Ln, King's Forest, Lot 21, Ellicott City Collector: Susan Thomas
Street Town or City Name

Date Collected: 02/07/2020 Time Collected: 1:50 a.m. (p.m.) Phone #: 410-313-6287
pH < 2 P.S. 02-10-20

Sample Preserved By: ☐ Field ☒ ESRL ☐ WMRL ☐ Central Lab

Preservative Used: ☒ HNO₃ 2 mL pH: 6.0

Sample Type: ☒ Drinking Water ☐ Landfill ☒ Source (Raw Water) ☐ Liquid
Data Category: ☐ Community ☐ Stream ☐ Distribution (Treated) ☐ Solid
Code ☐ ☐ Non-Community ☐ Sediment ☐ Other _____
☒ Private

Specify Program: ☐ SDWA ☐ NPDES ☐ CWA ☐ RCRA ☐ Consumer Products ☐ Other _____

Type of Sample Preparation: ☒ Total Metals ☐ Total Metals TCLP ☐ Dissolved Metals
(field preparation required)

Remarks: collected at yield of 40-18-0150

✓	Element	Lab Use	✓	Element	Lab Use	✓	Element	Lab Use
	Antimony (Sb)			Aluminum (Al)			Uranium (U)	
	Arsenic (As)			Calcium (Ca)			Vanadium (V)	
	Barium (Ba)			Cobalt (Co)			Zinc (Zn)	
	Beryllium (Be)			Copper (Cu)				
	Cadmium (Cd)			Iron (Fe)				
	Chromium (Cr)			Lead (Pb)				
	Mercury (Hg)			Magnesium (Mg)				
	Nickel (Ni)			Manganese (Mn)				
	Selenium (Se)			Molybdenum (Mo)				
✓	Sodium (Na)	<u>PSA</u>		Potassium (K)				
	Thallium (Tl)			Silver (Ag)				

Lab Supervisor: _____

Date Reported: ____/____/____

•Phone: (443) 681 - 4596

•Fax: (443) 681 - 4507

DHMH 4432 (05/17)

SUBMITTER'S COPY



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

Lab Project No: E20002679 Date Coll.: 02/07/2020 Date Received: 02/10/2020 Submitted By: Thomas

Field ID: HOST0150NA
Lab No.: E20002679001

<u>Method</u>	<u>Element</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
EPA 200.7	Sodium	6.45	ppm	02/24/2020

Comments:

Approved by:

Wanda L. Hueson

Approval date: 02/24/2020

**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.

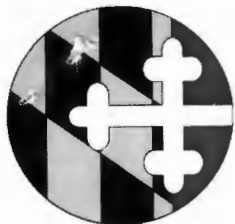
This document contains confidential health information that is privileged, confidential and exempt from disclosure under law. If you have received this information in error, please call (410) 767-6944 and arrange for return or destruction.

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

HOST0150CLT

CHECK TESTS	TESTS	Error Code	RESULTS
	Alkalinity (Total)		
	Ammonia - N		
✓	Chloride		
	Conductance*, Spec.		
✓	Dissolved Solids (Total)		
	Hardness		
	Fluoride		
	Nitrite, N		
	Nitrate + Nitrite, N		
	Sulfate		
	Total Solids		
	Turbidity*		
	Other:		
	* SAMPLE TEMPERATURE 7°C (SHOULD BE 4°C ± 2). NO ICE IN COOLER		

Reported



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



Certificate of Analysis

HOWARD CO ENVIRONMENTAL HLTH
8930 STANFORD BLVD
COLUMBIA, MD 21045

Lab Project NoE20002680 Date Coll. 02/07/2020 Date Received: 02/10/2020 Submitted By: S. Thomas

Field ID: HOST0150CLTDS
Lab No.: E20002680001

<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
Chloride	SM 4500-Cl E	<10	mg/L	02/24/2020
Total Dissolved Solids	SM 2540C	92	mg/L	02/14/2020

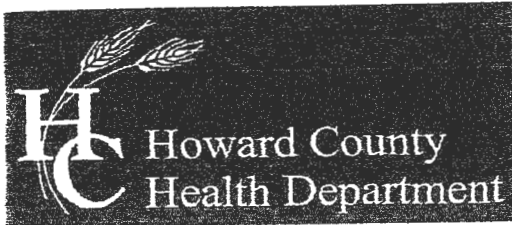
Comments:

Approved by:

Approval date: 02/25/2020

*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.



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:

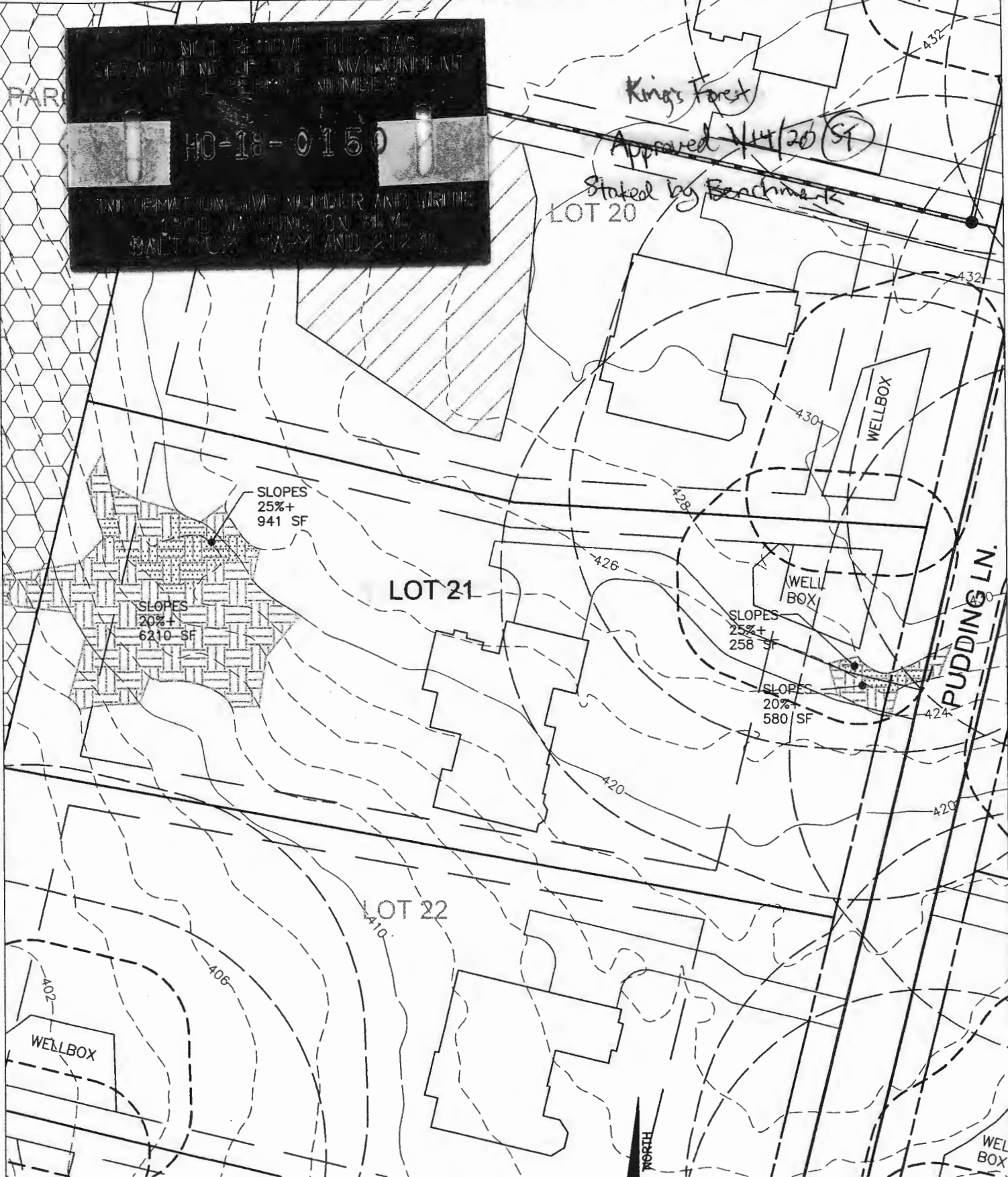
Well Site Location:

Kings Forest ^{#18 thru 35}
Subdivision/Property Name Parcel D Lot # Pudding Lane
Road Name

☒ The well site has been staked by Benchmark
(professional land surveyor or company employing professional land surveyors)
on OCT 22, 2019 (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.



DO NOT REMOVE THIS TAG
CONTAINING THE ENVIRONMENTAL
WELL PERMIT NUMBER

HO-18-0150

FOR INFORMATION ONLY NUMBER AND WRITE
1200 WASHINGTON BLVD
BALTIMORE, MARYLAND 21201

Kings Forest
Approved 1/14/20 (ST)

Staked by Benchmarks

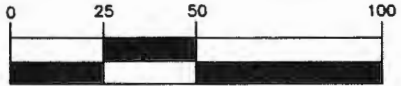
BENCHMARK

ENGINEERS • LAND SURVEYORS • PLANNERS

ENGINEERING, INC.

8480 BALTIMORE NATIONAL PIKE • SUITE 315 • ELICOTT CITY, MARYLAND 21043
(P) 410-465-8105 (F) 410-465-8844

WWW.BE-CIVILENGINEERING.COM



1 inch = 50 ft.

KINGS FOREST
WELL EXHIBIT

LOT 21

DATE: OCTOBER, 2019

SCALE: 1" = 50'

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 (S) 12/27/19
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.**