

C 1 65163 SEQUENCE NO. (MDE USE ONLY) STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE TYPE THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED. COUNTY NUMBER

ST/CO USE ONLY DATE Received DATE WELL COMPLETED DATE 2-18-19 Approved 4/6/20 Depth of Well 125' PERMIT NO. FROM "PERMIT TO DRILL WELL" H0-18-0155

OWNER Toll Brothers last name first name TOWN Ellicott City WELLSITE ADDRESS Pudding Lane SUBDIVISION Kungs Forest SECTION LOT 26

WELL LOG Not required for driven wells STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing
	FROM	TO	
Clay	0	12	
Sandy clay	12	31	
Gray Limestone	31	80	
Fracture	80	82	✓
Gray limestone	82	110	
Fracture	110	112	✓
Gray Limestone	112	125	

GRROUTING RECORD WELL HAS BEEN GROUTED (Circle appropriate box) TYPE OF GROUTING MATERIAL (Circle one) CEMENT [CM] BENTONITE CLAY [BC] NO. OF BAGS 9 NO. OF POUNDS 45 46 225 GALLONS OF WATER 225 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 50 ft. (enter 0 if from surface)

CASING RECORD casing types insert appropriate code below MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch) Total depth of main casing (nearest foot) [ST] 06 51

OTHER CASING (if used) diameter inch depth (feet) from to

SCREEN RECORD screen type or open hole (insert appropriate code below) [ST] [BR] [HO] [PL] [OT] [OTHER]

DEPTH (nearest ft.) 125

NUMBER OF UNSUCCESSFUL WELLS: 0 WELL HYDROFRACTURED [Y] [N]

CIRCLE APPROPRIATE LETTER A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED E ELECTRIC LOG OBTAINED P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. MSD 224 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. D

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

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 Q

TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST PUMPING TEST 3 HOURS PUMPED (nearest hour) 8 9 PUMPING RATE (gal. per min.) 10 METHOD USED TO MEASURE PUMPING RATE 1 gal WATER LEVEL (distance from land surface) BEFORE PUMPING 10 ft. WHEN PUMPING 17 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 [ ] below LAND SURFACE (nearest foot) 1

LATITUDE 39.253456 LONGITUDE 76.881525 (DEFAULT COORD. WGS 84)

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.

<b>B 1</b>	SEQUENCE NO. (MDE USE ONLY)  <div style="font-size: 2em; font-weight: bold;">66416</div>	<b>STATE OF MARYLAND</b> <b>APPLICATION FOR PERMIT TO DRILL WELL</b> <div style="font-size: 1.5em; font-weight: bold;">H0-18-0155</div>	STATE PERMIT NUMBER <div style="font-size: 1.5em; font-weight: bold;">H0 - 18 - 0155</div>
1 2 3 6 Date Received (APA) <div style="font-size: 1.5em; font-weight: bold;">11/8/19</div>		please type <div style="font-size: 1.5em; font-weight: bold;">H0-18-0155</div>	
<b>OWNER INFORMATION</b> 8 MM DD YY 13 <div style="font-size: 1.5em; font-weight: bold;">Toll Brothers</div> 15 Last Name Owner First Name 34 <div style="font-size: 1.5em; font-weight: bold;">7164 Columbia Gateway DR.</div> 36 Street or RFD 55 <div style="font-size: 1.5em; font-weight: bold;">Columbia, Md. 21046</div> 57 Town 70 State 72 Zip 76		<b>LOCATION OF WELL</b> 8 COUNTY 21 <div style="font-size: 1.5em; font-weight: bold;">Howard</div> 23 SUBDIVISION 42 <div style="font-size: 1.5em; font-weight: bold;">Kings Forest</div> SECTION 44 46 LOT 48 50 <div style="font-size: 1.5em; font-weight: bold;">Ellicott City</div> 52 NEAREST TOWN 71	
<b>DRILLER INFORMATION</b> Driller's Name 76 License No. 81 <div style="font-size: 1.5em; font-weight: bold;">Andrew Hauserman M5 D 224</div> Firm Name <div style="font-size: 1.5em; font-weight: bold;">Fogles Well Drilling LLC</div> Address <div style="font-size: 1.5em; font-weight: bold;">P.O. Box 202 Woodbine, Md 21797</div> Signature Date <div style="font-size: 1.5em; font-weight: bold;">Andrew Hauserman 11-1-19</div>		<b>SOURCES OF DRILLING WATER</b> 1 Wellwater 2 2/12/20 3 Quick Grout 2/15/20 Static 10' Pump 110' 10 gpm Level 17'	
<b>WELL INFORMATION</b> APPROX. PUMPING RATE (GAL. PER MIN.) 8 12 <div style="font-size: 1.5em; font-weight: bold;">5</div> AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 20 <div style="font-size: 1.5em; font-weight: bold;">500</div>		<b>ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)</b> NORTH WEST EAST SOUTH 34 12 37 DISTANCE FROM ROAD ENTER FT OR MI 38 39 <div style="font-size: 1.5em; font-weight: bold;">FT</div> TAX MAP: 23 BLK: 23 PARCEL 148	
<b>USE FOR WATER (CIRCLE APPROPRIATE BOX)</b> <input checked="" type="radio"/> DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION <input type="radio"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) <input type="radio"/> INDUSTRIAL, COMMERCIAL, DEWATERING <input type="radio"/> PUBLIC WATER SUPPLY WELL <input type="radio"/> TEST, OBSERVATION, MONITORING <input type="radio"/> OPEN LOOP GEOTHERMAL <input type="radio"/> CLOSED LOOP GEOTHERMAL		<b>NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL</b> COUNTY NAME COUNTY NO. <div style="font-size: 1.5em; font-weight: bold;">Howard 13</div> STATE SIGNATURE INSERT S 41 <div style="font-size: 1.5em; font-weight: bold;">Luba Thomas</div> DATE ISSUED 01/14/20 CO SIGNATURE EXP. DATE <div style="font-size: 1.5em; font-weight: bold;">01/14/21</div>	
APPROXIMATE DEPTH OF WELL 24 28 <div style="font-size: 1.5em; font-weight: bold;">300</div> FEET APPROXIMATE DIAMETER OF WELL NEAREST INCH <div style="font-size: 1.5em; font-weight: bold;">6</div>		<b>PROPOSED LOCATION OF WELL ON LOT</b> SHOW PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL 	
<b>METHOD OF DRILLING (circle one)</b> BORED (or Augered) JETTED Jetted & DRIVEN <input checked="" type="radio"/> AIR-ROTARY <input type="radio"/> AIR-PERCussion <input type="radio"/> ROTARY (Hydraulic Rotary) <input type="radio"/> CABLE <input type="radio"/> REVERSE-ROTARY <input type="radio"/> DRIVE-POINT other		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.	
<b>REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)</b> <input checked="" type="radio"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL <input type="radio"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED <input type="radio"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS <input type="radio"/> THIS WELL WILL DEEPEMED AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 52 <div style="font-size: 1.5em; font-weight: bold;">41</div>		2/12/20 total 125' casing 50' N	
<b>Not to be filled in by driller (MDE OR COUNTY USE ONLY)</b> APPROX. PERMIT NUMBER <div style="font-size: 1.5em; font-weight: bold;">H02018G004</div> PERMIT No. H0 - 18 - 0155 <div style="font-size: 1.5em; font-weight: bold;">H0 - 18 - 0155</div>		SPECIAL CONDITIONS STEEL CASING 50' OR 10' INTO COMPETENT BEDROCK, WHICHEVER IS DEEPER RADIUM SAMPLES REQUIRED, SODIUM, CHLORIDE AND TDS SAMPLES REQUIRED	

Well Permit No. HO-18-0155  
Location of Property: Pudding Lane Ellicott City, Md  
Subdivision: Kings Forest Lot#: 26  
Well Driller/Tech: Fogles Andrew Houseman MSD224 Owner/Buyer: Toll Brothers

**Total time 15 Mins to reach pumping water level 17ft. below M.P.**

[illegible]



# HOWARD COUNTY HEALTH DEPARTMENT

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

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

## Information Form for the Installation of the Well Pump, Pitless Adapter, and Supply Piping

NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.

Company Name: Eagles Well Pump + water Treatment, LLC Telephone #: 410 795 1535  
Address: UPB Box 63  
Woodbine, MD 21797

Must circle one: Licensed Plumber / Licensed Well Driller / Licensed Well Pump Installer

License # and name of individual responsible for the field installation:

Name (Print): Daniel C Eagle License #: MD0226

\*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: Toll Brothers Telephone #: \_\_\_\_\_  
Subdivision: Kingsley Woods Lot #: 26 Well Tag #: HO-18-0155  
Site Address: 10545 Pudding Lane  
Ellicott City, MD 21042

### Submersible Pump Data

Make: Grundfos  
Model #: ISS607-180  
Pump Capacity: 15  
Well Yield: 10

### Pitless Adapter

Make: Campbell +  
Model #: NA  
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.G.: YES  
Conduit secured to well cap: YES

Depth of well encountered at time of pump installation: 125 (feet)

If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4

Must circle one: Torque arrestors / Cable guards / Other acceptable method used

Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing NA

### Piping to house

Type: 1" poly pipe  
PSE: 200/160 psi min  
Depth of supply line: 36" (36" min)

### House Connection

PVC sleeve to undisturbed soil at wall penetration: YES  
Length of sleeve (5" 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: 7/20/22

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

Date Insp. Requested: <u>7/21/22</u>	Date Insp. Approved: <u>7/21/22</u>	Inspector: <u>RR</u>
Inspection Data:		
Pitless adapter watertight & 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"/>	
Elec. conduit extends at least 18" below grade/attached to cap properly	<input checked="" type="checkbox"/>	
Safety rope not outside of well cap/casing	<input checked="" type="checkbox"/>	
Correct well tag attached properly and casing 8" above finished grade	<input checked="" type="checkbox"/>	
Water supply line sleeved adequately at house connection	<input checked="" type="checkbox"/>	
Adequate grant observed below pitless adapter	<input checked="" type="checkbox"/>	

(Revised form 10/24/2018)



## INTERIM CERTIFICATE OF POTABILITY

Expiration Date – APRIL 26, 2023

October 26, 2022

Homeowner  
10545 Pudding Lane  
Ellicott City, MD 21042

**RE: King's Forest, Lot 26**  
**10545 Pudding Lane**  
**Building Permit: B22000599**  
**Well Permit: HO-18-0155**

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 **10/26/2022**. Final approval of the well line connection to the dwelling was granted on **7/21/2022**. The well construction was completed on **2/18/2019**. Water samples were collected on **9/21/2022, 10/5/2022, 10/12/2022**.

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 **2/18/2020**. Results showed a Gross Alpha level of **3.1 ± 1.3 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-18-0155. 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,



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

State of Maryland  
DHMH – Laboratories Administration

Division of Environmental Sciences

## TRACE METALS LABORATORY

1770 Ashland Avenue  
Baltimore, Maryland 21205

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

E20002792001  
Received: 02/19/2020  
Metals HOST0155NA

## LABORATORY ANALYSIS REQUEST

Do not write above this line

**Please Print**

Sample ID No: H05T0155 NA Site Name: Pudding Ln King's Forest Lot 26 County: Howard

**Sample Source:** Puddens Ln, King's Forest Lot 26 **Collector:** Susan Thomas  
Street Town or City Name

Date Collected: 2 / 18 / 20 20 Time Collected: 2:20 a.m. / p.m. Phone #: 410-313-6287

Sample Preserved By: ☐ Field ☐ ESRL ☐ WMRL ☐ Central Lab  
Preservative Used: ☒ HNO<sub>3</sub> 2 mL pH: 5.5

**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 end of yield

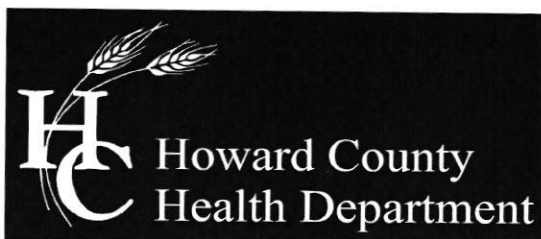
✓	Element	Lab Use	✓	Element	Lab Use	✓	Element	Lab Use
	Antimony (Sb)			Aluminium (Al)			Uranium (U)	
	Arsenic (As)			Calcium (Ca)			Vanadium (V)	
	Barium (Ba)			Cobalt (Co)			Zinc (Zn)	
	Beryllium (Be)			Copper (Cu)				
	Cadmium (Cd)			Iron (Fe)				
	Chromium (Cr)			Lead (Pb)				
	Mercury (Hg)			Magnesium (Mg)				
	Nickel (Ni)			Manganese (Mn)				
	Selenium (Se)			Molybdenum (Mo)				
✓	Sodium (Na)	5415		Potassium (K)				
	Thallium (Tl)			Silver (Ag)				

**Lab Supervisor:** \_\_\_\_\_

Date Reported: \_\_\_\_/\_\_\_\_/\_\_\_\_

•Phone: (443) 681 – 4596

•Fax: (443) 681-4507



## 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](http://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 26  
Pudding Ln  
Well Permit: HO-18-0155

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 6.51 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 79 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](mailto:sathomas@howardcountymd.gov)

✓Cc: File



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

March 17, 2020

**Toll Brothers**  
7164 Columbia Gateway Drive  
Columbia, Maryland 21045

**RE: Kings Forest Lot 26**  
**Pudding Lane**  
**Well Tag: HO – 18 – 0155**

To Who it May Concern:


A sample was collected during a yield test on February 18, 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  $3.1 \pm 1.3$  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: Peri Nantz

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

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

Lab No. 198**LABORATORY ANALYSIS REQUEST FORM**Plant/Site Name: Rolling Ln, Kings Farm Lot 21County: HowardSample Source: Rolling Ln, Kings Farm Lot 21Location: Field Plot

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

Radon-222 Bottle A \_\_\_\_\_

Radon-222 Field Blank \_\_\_\_\_

Bottle A 40-7 FB 20

Bottle B \_\_\_\_\_

Bottle B \_\_\_\_\_

County 112Plant 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 FFederal Project:  Collector: ThomasTelephone No.: 410 312-6257Date Collected: 2/18/20Time Collected: 9:47 a.m. \_\_\_\_\_ p.m.Field pH: 6.0Field Chlorine: 0.5Nitric Acid Preserved: Yes ☒ No ☐Iced: Yes ☐ No ☒

Remarks: \_\_\_\_\_

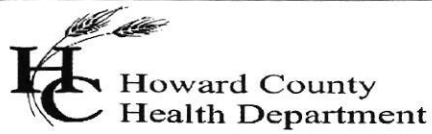
<input checked="" type="checkbox"/>	TEST	EPA Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Date Reported
<input checked="" type="checkbox"/>	Gross Alpha	4000	1118	EP19004	120	2/21/2020	K11	2/25/2020
<input checked="" type="checkbox"/>	Gross Beta	4100	1118	EP19004	140	2/21/2020	K11	2/25/2020
<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: \_\_\_\_\_ Received By: \_\_\_\_\_

Data Release Signature: Thomas Date: 02/26/20

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

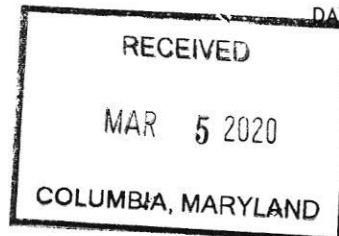


# Invoice

Bureau of Environmental Health  
Attn: Bert Nixon, Director

DATE: MARCH 2, 2020  
DATES OF SERVICE: FEBRUARY 18 & 19, 2020  
INVOICE #: 2020-005

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
2/18/2020	Gross Alpha/Beta testing performed for Kings Forest Lot <u>26</u> HO - 18 - 0155		\$45.00
2/19/2020	Gross Alpha/Beta testing performed for Kings Forest Lots <u>24</u> And <u>25</u> HO - 18 - 0153 HO - 18 - 0154		\$90.00
			AMOUNT DUE
			\$135.00

Please detach and return with payment.

REMITTANCE	
Invoice #	2020-005
Site Information	Kings Forest Lots 24, 25 & 26
Amount Due	\$135.00

Rec'd 3/16/20  
67352

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



# FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

## REPORT OF ANALYSIS

Laboratory ID #:	154694	Account #:	1933
Reference:	Kingley Woods 26	Client:	Fogle's Well Pump & Treatment
Location:	10545 Pudding Lane	Requested By:	Dave Fogle
	Ellicott City, MD 21042	Source:	Well Water
Date/ Time Collected:	9/21/2022 1100	Site:	Pressure Tank
Date/Time Rec'd:	9/21/2022 1316	Treatment:	None
Chlorine ppm:	Free: ND Total: ND	pH:	5.9
Collected By:	J. Evans 0309JE	Well #:	HO-18-0155

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	3.1	MPN/ 100 ml	<1.0	SM20 9223B	9/22/2022 / 1030 / CRS
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	9/22/2022 / 1030 / CRS
Nitrate.	<0.40	mg/L	10	EPA 300.0	9/21/2022 / 1844 / CRS
Turbidity	11.8	NTU	<10	SM2130B	9/21/2022 / 1620 / MEW
Sand	ND	mg/L	5	Visual/Gravimetric	9/22/2022 / 1130 / CRS
Iron	0.84	mg/L	0.3*	Hach 8146	9/21/2022 / 1615 / 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 Sample collected by client, analyzed as received
- 7 ND:None Detected
- 8 Visual well check: Sealed, vented cap
- 9 pH and Chlorine level tested in lab (pH tested after recommended holding time)

Reason for Test : Use & Occupancy

Building Permit # : B22000599

Date Reported: 9/22/2022





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 NoE20002794 Date Coll. 02/18/2020 Date Received: 02/19/2020 Submitted By: S. Thomas

Field ID: HOST0155CLTDS  
Lab No.: E20002794001

<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	79	mg/L	02/21/2020

### 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.



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: E20002792 Date Coll.: 02/18/2020 Date Received: 02/19/2020 Submitted By: Thomas

Field ID: HOST0155NA  
Lab No.: E20002792001

<u>Method</u>	<u>Element</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
EPA 200.7	Sodium	6.51	ppm	02/26/2020

### Comments:

Approved by:

*Wanda L. Tresson*

Approval date: 02/28/2020

\*\*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.



# FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

## REPORT OF ANALYSIS

Laboratory ID #:	155004	Account #:	1933
Reference:	Kingley Woods 26	Client:	Fogle's Well Pump & Treatment
Location:	10545 Pudding Lane	Requested By:	Dave Fogle
	Ellicott City, MD 21042	Source:	Well Water
Date/ Time Collected:	10/5/2022 0805	Site:	Kitchen Bath
Date/Time Rec'd:	10/5/2022 1400	Treatment:	None
Chlorine ppm:	Free: ND Total: ND	pH:	5.8
Collected By:	T. Cassell 0767TC	Well #:	HO-18-0155

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	1.0	MPN/ 100 ml	<1.0	SM20 9223B	10/6/2022 / 0930 / TSD
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	10/6/2022 / 0930 / TSD
Turbidity	11.5	NTU	<10	SM2130B	10/6/2022 / 0845 / TSD
Iron	1.74	mg/L	0.3*	Hach 8146	10/6/2022 / 1030 / TSD

### NOTES:

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

Reason for Test : Use & Occupancy  
Building Permit # : B22000599

Date Reported: 10/6/2022

# FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

## REPORT OF ANALYSIS

Laboratory ID #: 155171 Account #: 1933  
Reference: Kingley Woods 26 Client: Fogle's Well Pump & Treatment  
Location: 10545 Pudding Lane Requested By: Dave Fogle  
Ellicott City, MD 21042 Source: Well Water  
Date/ Time Collected: 10/12/2022 1130 Site: Kitchen Sink  
Date/Time Rec'd: 10/12/2022 1328 Treatment: None  
Chlorine ppm: Free: ND Total: ND pH: 5.9  
Collected By: J. Evans 0309JE Well #: HO-18-0155

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	10/13/2022 / 1030 / TSD
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	10/13/2022 / 1030 / TSD
Turbidity	2.00	NTU	<10	SM2130B	10/12/2022 / 1540 / MEW
Iron	0.61	mg/L	0.3*	Hach 8146	10/12/2022 / 1455 / MEW

### NOTES:

- 1 \*SMCL = Secondary Maximum Contaminant Level
- 2 mg/L = milligrams per liter (also, parts per million)
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- 4 NTU = Nephelometric Turbidity Units
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- 6 Sample collected by client, analyzed as received
- 7 ND:None Detected
- 8 Visual well check: Sealed, vented cap
- 9 pH and Chlorine level tested in lab (pH tested after recommended holding time)

Reason for Test : Use & Occupancy

Building Permit # : B22000599

Date Reported: 10/13/2022

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 *ST 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 26<sup>th</sup>, 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.**



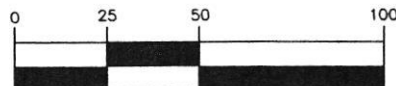
**BENCHMARK**

ENGINEERS • LAND SURVEYORS • PLANNERS

**ENGINEERING, INC.**

8480 BALTIMORE NATIONAL PIKE & SUITE 315 • ELLICOTT CITY, MARYLAND 21043  
(P) 410-465-8105 (F) 410-465-8644

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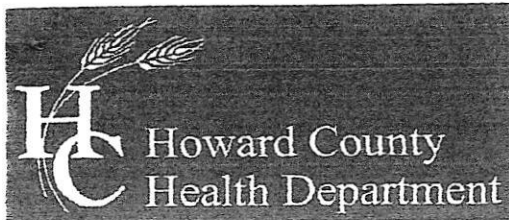
(IN FEET)  
1 inch = 50 ft.

**KINGS FOREST**  
**WELL EXHIBIT**

**LOT 26**

DATE: OCTOBER, 2019  
SCALE: 1" = 50'





## 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](http://www.hchealth.org)

Facebook: [www.facebook.com/hocohealth](https://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 Pudding Lane  
Subdivision/Property Name Lot # 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.