

## Bureau of Environmental Health

8930 Stanford Blvd., Columbia, MD 21046-2147 Main: 410-313-1774 | Fax: 410-313-2648 TDD 410-313-2323 | Toll Free 1-866-313-6300 www.hchealth.org

Facebook: www.facebook.com/hocohealth Twitter: HowardCoHealthDep

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

# INTERIM CERTIFICATE OF POTABILITY PERMANENT DEVIATION FOR BACTERIA

Expiration Date - DECEMBER 14, 2019

June 14, 2019

Homeowner 5045 Lindera Court Ellicott City, MD 21042

RE: Walnut Creek, Lot 123

5045 Lindera Court

**Building Permit: B17000058** 

Well Permit: HO-15-0148 (Well Deepened)

#### 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 7/7/2017. Final approval of the well line connection to the dwelling was granted on 5/4/2017. The well construction was completed on 8/16/2018. Water samples were collected on 8/20/2018, 9/5/2018, 9/25/2018, 10/23/2018.

The untreated water sample results indicate that the water samples submitted for testing contained elevated levels of coliform bacteria at the time of sampling and the untreated water is **NOT** bacteriologically safe for drinking.

After installation of a water disinfection device (UV light disinfection system), a post-treatment water sample was collected on 6/10/2019 and indicated that the treated water was free from coliform bacteria and is bacteriologically safe for drinking.

This Department will grant a **permanent deviation** to the Interim Certificate of Potability on condition that the water disinfection system effectively maintains the water free from bacteria.

#### Furthermore, it will be necessary for you to comply with the following conditions:

- The system must be properly operated and maintained continuously in accordance with the service contract for the life of the residence.
- 2. It is recommended that a Maryland certified water laboratory certified for bacteriological analysis perform a <u>yearly</u> potability analysis.
- 3. If you decide to sell or rent your home in the future, you <u>must</u> make any potential buyer/tenant aware of this permanent deviation. A person who fails to make this disclosure is subject to the penalties set out in COMAR 26.04.04.12F

# **Enforcement** and Environment Article 9-1311, Annotated Code of Maryland.

Gross Alpha and Beta samples were also collected on 8/16/2018. Results showed a Gross Alpha level of  $3.4 \pm 1.4$  pCi/L and Gross Beta level of  $4.0 \pm 0.0$  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-15-0148. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

This Interim Certificate of Potability will expire six months from the date of issuance. Submission of a second bacteriological test indicating the water is free of coliform and fecal coliform bacteria is required prior to the expiration date, after which time a Final Certificate of Potability will be issued. Failure to submit an additional sample and obtain a Final Certificate of Potability will result in a Notice of Violation and is punishable as a misdemeanor under the Annotated Code of Maryland, Environment Article, 9-1311, subject to a fine of up to \$500 or imprisonment not to exceed three months.

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

Approving Authority,

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

Groundwater Management Section

hin they

Well & Septic Program

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

Community Hygiene Program

File

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

# REPORT OF ANALYSIS

Laboratory ID #:

124300

Account #:

1930

Reference:

Fogle's Well Drilling

Company:

Fogle's Well Drilling

Location:

5045 Lindera Court

Requested By: Theresa Miller

Date/ Time Collected: 8/20/2018

Ellicott City, MD 21042 1322

Source:

Well Water

Date/Time Rec'd:

8/20/2018

1530

Site: Treatment: Kitchen Sink

Chlorine ppm:

Free: ND

Total: ND

pH:

None 7.1

Collected By:

J. Fogle

1974JF

Well #:

HO-15-0148\*

PARAMETERS	RESULTS	UNITS RE	FERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	15.0	MPN/ 100 ml	<1.0	SM20 9223B	8/21/2018 / 1030 / RER
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	8/21/2018 / 1030 / RER
Nitrate	1.67	mg/L	10	601	8/21/2018 / 0945 / RER
Turbidity	2.74	NTU	<10	SM20 2130B	8/21/2018 / 0955 / RER
Sand	NS	mg/L	5	Visual/Gravimetri	8/21/2018 / 0955 / RER

#### NOTES

- 1 \* Existing well drilled deeper.
- 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.
- NS = None Seen (NS indicates less than 5 mg/L)
- 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.
- ND:None Detected
- Sample collected by client, analyzed as received
- pH and Chlorine level tested in lab (pH tested after recommended holding time)

Reason for Test:

**HoCHD** 

Date Reported:

8/21/2018

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

# REPORT OF ANALYSIS

Laboratory ID #:

124755

Account #:

Reference:

Fogle's Well Drilling

5045 Lindera Court

Company:

Fogle's Well Drilling

Location:

Ellicott City, MD 21042

Requested By:

Theresa Miller

Date/ Time Collected: 9/5/2018

1236

Source: Site:

Well Water Powder Room Sink

Date/Time Rec'd:

9/5/2018

1430

Treatment:

None

Chlorine ppm:

Free: ND

Total: ND 1974JF

pH:

6.7

Collected By:

J. Fogle

Well #:

HO-15-0148

PARAMETERS	RESULTS	UNITS REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	2.0	MPN/ 100 ml <1.0	SM20 9223B	9/6/2018 / 1030 / CRS
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml <1.0	SM20 9223B	9/6/2018 / 1030 / CRS

#### NOTES

- MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample. 1
- 2 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 3 ND:None Detected
- 4 Sample collected by client, analyzed as received
- pH and Chlorine level tested in lab (pH tested after recommended holding time) 5

Reason for Test:

**HoCHD** 

Date Reported:

9/6/2018

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

# REPORT OF ANALYSIS

Laboratory ID #: 125302

Account #:

Reference:

Fogle's Well Drilling

Fogle's Well Drilling

Location:

5045 Lindera Court

Requested By: Theresa Miller

Ellicott City, MD 21042

Source:

Date/ Time Collected: 9/25/2018

Site:

Company:

Well Water

Date/Time Rec'd:

9/25/2018

0803 1030

Treatment:

Kitchen Sink Tap Neutralizer/Softener

Chlorine ppm:

Free: ND

Total: ND

pH:

Collected By:

J. Fogle

1974JF

Well #:

7.0 N/A

**PARAMETERS** Bacteria, Coliform, Total, MPN

Bacteria, E. coli, MPN

RESULTS 6.4 <1.0

UNITS REFERENCE MPN/ 100 ml

MPN/ 100 ml

<1.0 <1.0

SM20 9223B SM20 9223B

**METHOD** 

9/26/2018 / 0815 / CRS 9/26/2018 / 0815 / CRS

DATE/TIME/ANALYST

#### NOTES

- MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample. 1
- 2 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 3 ND = None Detected; N/A: Not Available
- Sample collected by client, analyzed as received
- pH and Chlorine level tested in lab (pH tested after recommended holding time)

Reason for Test:

Client's Information

Date Reported:

9/26/2018

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

## REPORT OF ANALYSIS

Laboratory ID #:

126084

Reference:

Fogle's Well Drilling

Account #:

1930

Company:

Fogle's Well Drilling

Location:

5045 Lindera Court

Requested By:

Theresa Miller

Ellicott City, MD 21042

Date/ Time Collected: 10/23/2018

Source:

Well Water

1233 Site:

Kitchen Sink

Date/Time Rec'd:

10/23/2018

1440

Treatment:

Neutralizer/Softener

Chlorine ppm:

Collected By:

Free: ND J. Fogle

Total: ND

1974JF

pH: Well #: 6.7 HO-15-0148

**PARAMETERS** 

RESULTS Bacteria, Coliform, Total, MPN 2.0

<1.0

UNITS REFERENCE MPN/ 100 ml

<1.0

METHOD SM20 9223B DATE/TIME/ANALYST 10/24/2018 / 1000 / CRS

Bacteria, E. coli, MPN

MPN/ 100 ml

<1.0

SM20 9223B

10/24/2018 / 1000 / CRS

Per Best, samples (je Ballaris)

Cat 2 more samples Sample Q

No. Samples sample.

#### NOTES

- 1 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 2 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 3 ND = None Detected: N/A: Not Available
- 4 Sample collected by client, analyzed as received
- pH and Chlorine level tested in lab (pH tested after recommended holding time)

Reason for Test:

Client's Information

Perm. Derector Scapes Deser.

Brown to the Company Scapes Deser.

Date Reported:

10/29/2018



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

# AGREEMENT FOR APPROVAL OF AN INDIVIDUAL DRINKING WELL WITH AN ON-SITE DISINFECTION SYSTEM

This agreement is entered into by and between the Howard County Health Department ("the Health Department") and LRIATIWARI, SHREYATIWARI ("the Owner").

WHEREAS, the Owner owns a tract of land at street address 5045 LINDERA COURT, FLUICOTT (1TY M) 21042 and the deed and subdivision plat of the property is recorded among the Land Records of Howard County, Maryland, Tax Map #0028, Block #0011, Parcel # 0049, Deed Reference # 17716/00085 and Tax Account # 05-598876 ("the Property").

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

WHEREAS, the Owner has installed a residential drinking well under well permit  $\frac{160-15-0148}{100}$  that has been tested by the Health Department (or a private laboratory certified to perform testing) for coliform bacteria. The results of the tests have shown that coliform bacteria was present in the water sample at the time of testing.

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

WHEREAS, MDE regulations permit the Health Department to issue as a special condition, a permanent deviation to the Certificate of Potability, for individual wells to which a water disinfection device has been installed.

WHEREAS, MDE has determined that bacteria can be effectively removed from the drinking water by the use of disinfection devices (e.g. ultraviolet radiation).

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

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

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

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

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

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

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

Knipa Midhi.	04/2/19	P	
Owner	Date	Buyer	Date
Shoys	04/02/19	_	
Owner /	\ / Date	Buyer	Date
But Nin	ran 4/11/20	19	

**Howard County Health Department** 

MDH - Laboratories Administration

Bureau of Environmental Health

DIVISION OF ENVIRONMENTAL SCIENCES 1770 Ashland Avenue, Baltimore, MD 21205

8930 Stanford Blvd. FCONFINA, Maryland 21045

Robert A. Myers, Ph.D. Director
MICROBIOLOGICAL ANALYSIS OF DRINKING WATER

DOCIDA

Category Code: 4 F	Invoice	No.: Rea	test	Lab No.:_	000	1, 0 3	
		FIELD RECO	RD				
Sample Type:  Community Transient Non-Transient Private Repeat Sample C.O.P Bottled Water OTHER:  Test Requested: Quantitative: Colilert-QT Heterotrophic Plate Count Multiple Tube Fermentation: Quantitative: Enterolert Other:	Source Address: Sampling Site: Ice: Yes IN No ID Date Collected: Collector Name: Collector Tel. No ID P/A: Co	FIELD RECO	Tiwari, S  ALY Ray A  PS No Cou  A Tim  Klyav Colle  PWS  County	Bottle Inty: HD  Re Collected: 2  Bector ID No.: 3  BID No.:	No.: Howard 8;30 6179 Sampli	Ø am □ pm  B S  Ing Station	
Remarks:	The state of the s		pН	Res.CI: F	ree	Total	
	The second secon	RY RECORD (I	MDH Use Only)				
Test Method(s): (check all that apply)  □ SM 9223 Colilert □ SM □ SM 9221B (MTF) □ SM □ SM 9215B (HPC) □ Ente □ Other:	9223 Colilert-18 9223 Colisure Plate	Temperature Control:	Pro Ab	Ifate: esent esent ndetermined			
	Quantitative Test			Heterotrophi			
100 mL Sample (+/-)	Dilution: □ 1:10 □			incubated 24, 4	18, 72hr @	35°C	
Total Coliforms	100 mL Sample Total Coliforms	wells					
E. coli	E. coli	0-0	4	Plate B:			
Enterococci	Enterococci			Average:	-	CFU/mL MPN/mL	
	Presumptive MTF						
OCT 31'18 PM 2:12	mL of Sample Gas/24h	10	mL				
Received	Gas/48h			MTF Results			
OCT 31'18 PM 3:40	Confirmed MTF Te	est		No. of	MPN/	Recorded	
OCI 31 16 PM 3-40 Pp	mL of Sample	10	mL	Positive (+)	100 mL	Value	
Placed in Incubator	Total Coliforms						
	E. coli						
NOV 1'18 AM 9:48	Specialized Testing Results:						
Results Read/Reported	4			,			
Analyst: Player 11-1-1	8	_Reviewed by/	Date: K. Ve	mas 111	118		
Remarks:			, -	□ Fax	□ Email □	Phone	
aboratory: It Control Lab (442) 69	1.20c0 DECDI //10	N OHO DOOF FIN	MDI (201) 750-5115				

This report shall not be reproduced except in full without the written approval of the laboratory. Results only valid for sample received.

SEND REPORT TO:

Howard County Health Department

Bureau of Environmental Health

State of Maryland MDH - Laboratories Administration

DIVISION OF ENVIRONMENTAL SCIENCES

1770 Ashland Avenue, Baltimore, MD 21205

8930 Stanford Blvd.

POONENSia, Maryland 21045

Robert A. Myers, Ph.D. Director
MICROBIOLOGICAL ANALYSIS OF DRINKING WATER

Category Code: 4	E Invoice	No.:	Rei	rest		Lab No.:	006	108
		FIELD R	ECOR	D				
Sample Type:  Community Transient Non-Transient Private Repeat Sample C.O.P Bottled Water OTHER:	Source Address Sampling Site: Ice: Yes D No D Date Collected: Collector Name: Collector Tel. No	Sh ve Ba 1 Treate [0]	YA Fu M ed: Yes 31/	DOM CONO D	Cour	m Lut Bottle  aty: HO  e Collected: 8  ector ID No.:	vara :20	v Øam⊡pm
Quantitative: Colilert-QT     Heterotrophic Plate Count     Multiple Tube Fermentation     Quantitative: Enterolert     Other:  Remarks:	□ P/A: Co □ SimPla i: MTF			County 7		Plant No. Res.Cl: F	Samp	ing Station
	LABORATO	RY RECO	RD (M	DH Use	Only)			
□ SM 9221B (MTF) □ SM	y) I 9223 Colilert-QT I 9221B, F (MTF) terolert ASTM D6503			223 Coli 223 Coli late		Temperature Control:	P	ulfate: resent bsent ndetermined
P/A Test	Quantitative Test					Heterotrophi		
100 mL Sample (+/-) Total Coliforms  E. coli Enterococci	Dilution: 🗆 1:10 🗆  100 mL Sample  Total Coliforms  E. coli  Enterococci	# Positi wells 4-0	ve	MPN/10	00 mL	Plate A: Plate B: Average:	48, 72hr @	GFU/mL MPN/mL
	Presumptive MTF	Toet						
0CT 31 '18 pm 2:12	mL of Sample Gas/24h Gas/48h		10 :	nL.		MTF Results		
OCT 31 '18 PM 3:40	Confirmed MTF To	est				No. of	MPN/	Recorded
Placed in Incubator	mL of Sample Total Coliforms E. coli		10 1	nL		Positive (+)	100 mL	Value
NOV 1'18 AM 9:48 Results Read/Reported	Specialized Testin	g Results						
Analyst: I flage 11-1	-18	Reviewe	d by/L	ate:_K	Cla	nea 11/	110	
Remarks: 1		-			00	□ Fax	□ Email	☐ Phone
Laboratory: Central Lab (443) 6 This report shall not be report	The state of the s			RL (301) 7 al of the lai		esults only valid for s	ample recei	ved.

SEND REPORT TO:

CIGIO UI MIGI YIGIN MDH - Laboratories Administration

Howard County Health Department Bureau of Environmental Health

DIVISION OF ENVIRONMENTAL SCIENCES

1770 Ashland Avenue, Baltimore, MD 21205 Robert A. Myers, Ph.D. Director

8020 Stanford Blvd. PHONE NOS Maniford 21045

MICROBIOLOGICAL ANALYSIS OF DRINKING WATER

Category Code: 4/2	Invoice No.: Re	Lab No.: 006109					
FIELD RECORD							
Sample Type:  Community Transient Non-Transient Repeat Sample C.O.P Bottled Water OTHER:  Test Requested: Quantitative: Colilert-QT Heterotrophic Plate Count Multiple Tube Fermentation: Quantitative: Enterolert Other:	Source Address: Shranger Sampling Site: 13874 Ice: Yes DXNo D Treate Date Collected: 19/3 Collector Name: B Collector Tel. No.: 4/10  P/A: Collect SimPlate	Aros Mast ed: Yes No Cou Shklyar Coll	Bottle No.: HC SOUS-  nty: HD WARA  ne Collected: 8:30 D am D pm  ector ID No.: 31 79 13 S  S ID No.:  Plant No. Sampling Station  Res.Cl: Free Total				
Remarks:	LABORATORY RECO						
☐ SM 9221B (MTF) ☐ SM	9223 Colilert-QT 12 9221B, F (MTF) 5 erolert ASTM D6503-99 5	SM 9223 Colilert-18 SM 9223 Colisure SimPlate	Temperature Control:  4.3 °C  Thiosulfate: Present Absent Undetermined				
P/A Test  100 mL Sample (+/-)  Total Coliforms  E. coli  Enterococci	Quantitative Test   Dilution: □ 1:10 □ 1:100 □ 1   100 mL Sample # Posit wells   Total Coliforms 7 - 0   E. coli 0 - 0   Enterococci	MPN/100 mL	Heterotrophic Plate Count Incubated 24, 48, 72hr @ 35°C  Plate A: Plate B:  CFU/mL MPN/mL				
OCT 31 '18 PM 2:12 A	mL of Sample Gas/24h Gas/48h	10 mL	MTF Results				
OCT 31 '18 PM 3:40 Placed in Incubator	mL of Sample Total Coliforms  E. coli	10 mL	No. of MPN/ Recorded Positive (+) 100 mL Value				
NOV 1'18 AN 9:48  Results Read/Reported  Analyst: LI all 1 - 1	Specialized Testing Results		Re WILLS				
Remarks: Central Lab (443) 6		□ WMRL (301) 759-5115	☐ Fax ☐ Email ☐ Phone				

ľ	0 0 0 0 0 0 0 0	WELL COMPLETION REPORT	45 DAYS AFTER WELL IS COMPLETED.
-	1 2 3 6 (THIS NUMBER IS TO BE PUNCHED	FILL IN THIS FORM COMPLETELY	COUNTY NUMBER A
1	ST/CO USE ONLY DATE WELL COMPLE	PLEASE TYPE  Depth of Well	PERMIT NO. FROM "PERMIT TO DRILL WELL"
1	DATE Received MM 8 DD YY	18 22 225 26 W	HO-15 - DIVS
-	8 13 15 2	(TO NEAREST FOOT)	28 29 30 31 32 33 34 35 36 37
	OWNER	first name Tours Ell	0611 0:111
1	SUBDIVISION WORLD (YEEV	section Town Elli	LOT /23
1	WELL LOG	GROUTING RECORD Yes no	
-	Not required for driven wells	WELL HAS BEEN GROUTED (Circle Appropriate Box)	1 2
-	STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING	TYPE OF GROUTING MATERIAL (Circle one)	HOURS PUMPED (nearest hour)
İ	DESCRIPTION (Use FEET check if water	CEMENT CM BENTONITE CLAY BC	8 9
ł	additional sheets if needed) FROM TO bearing	NO. OF BAGS NO. OF POUNDS 45 46	PUMPING RATE (gal. per min.)
ı	D 11 0	DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE 1000
ı	Pulled	from 48 TOP 52 to 54 BOTTOM 58	
-	Jam 11-1-11	48 TOP 52 54 BOTTOM 58 (enter 0 if from surface)	WATER LEVEL (distance from land surface)
	Arm 15, 552	casing CASING RECORD	BEFORE PUMPING 17 20 ft.
1	Gray	types insert appropriate STEEL CONCRETE	WHEN PUMPING 12 ft.
	chisi	code below PL OT	TYPE OF PUMP USED (for test)
		PLASTIC OTHER	A air P piston T turbine
1		MAIN Nominal diameter Total depth CASING top (main) casing of main casing	27 27 27 other
3		TYPE (nearest inch)! (nearest foot)	C centrifugal R rotary (describe below)
		60 61 63 64 66 70	J jet S submersible
		OTHER CASING (if used) A diameter depth (feet)	27 27
		H ST inch from to	PUMP INSTALLED
		S.	DRILLER INSTALLED PUMP YES NO (CIRCLE) (YES or NO)
	Anti- of the first than the same of the	N C C C C C C C C C C C C C C C C C C C	IF DRILLER INSTALLS PUMP, THIS SECTION
24	Same of the second of the second for the second of the sec	screen type SCREEN RECORD	MUST BE COMPLETED FOR ALL WELLS.  TYPE OF PUMP INSTALLED
S 13/5	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	or open hole SIT RIP HIO	PLACE (A,C,J,P,R,S,T,O) IN BOX 29.
		insert appropriate BRASS OPEN BRONZE HOLE	CAPACITY:
-1		code below PL OT	(to nearest gallon) 31 35
		PLASTIC OTHER	PUMP HORSE POWER
	NUMBER OF UNCHOOSESSELL WELLS	C 2 DEPTH (nearest ft.)	PUMP COLUMN LENGTH 37 41
	NUMBER OF UNSUCCESSFUL WELLS:	1 2	(nearest ft.) 43 47
	WELL HYDROFRACTURED	A 8 9 11 15 17 21	CASING HEIGHT (circle appropriate box and enter casing height)
	CIRCLE APPROPRIATE LETTER	C 2 H 23 24 26 30 32 36	above LAND SURFACE
	A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED	S C 3	below (nearest) foot)
	E ELECTRIC LOG OBTAINED  TEST WELL CONVERTED TO PRODUCTION	R 38 39 41 45 47 51.	49 50 51
-	WELL  I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN	E SLOT SIZE 1 2 3	ATITUDE 3 9 . 23477 1
	ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE	DIAMETER (NEAREST L INCH)	ONGITUDE 7 . 9 43335
	CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.	56 60 (	DEFAULT COORD. WGS 84)  Pursuant to \$10-624 of the State Govt. Article of
	DRILLERS LIC. NO. 1 MSD 009	GRAVEL PACK	the Maryand Code personal info. requested on this form is used in processing this form pursuant
	allo line	IF WELL DRILLED WAS FLOWING WELL	to COMAR 26.04.04. Failure to provide the info. may result in this form not being processed. You
	DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)	INSERT F IN BOX 68 68  MDE USE ONLY	have the right to inspect, amend, or correct this form. The Maryland Department of the
13	LIC. NO.1 D 1	(NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q	Environment is subject to the Maryland Public
			Information Act. This form may be made available on the Internet via MDE's website and is
	SITE SUPERVISOR (sign. of driller or journeyman	70 72 72 74 75 76	subject to inspection or copying, in whole or in part, by the pulic and other governmental
	responsible for sitework if different from permittee)	TELESCOPE LOG CASING INDICATOR OTHER DATA	agencies, if not protected by federal or state law.
	MDE/WMA/PER.071	COUNTY	2 2

Date: August 16, 2018

## 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-15-0148

Location of Property: 5045 Lindera Ct Ellicott City, Md

Subdivision: Walnut Creek Sec: 4 Lot: 123

Well Driller/Tech: Fogles Andrew Houseman MSD224 Owner/Buyer: NV Homes

Depth of Well: 225'

Distance of measuring point (M.P.) above ground: 3'\_\_

Static water level (S.W.L.) below M.P.: 10'
High rate pumping –reservoir Drawdown

Time pump started: \_11:00 Pumping rate: 10

Total time \_15 Mins \_\_ to reach pumping water level 12ft. 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)	(gallons per minute)
11:00	10'	6 Seconds		10 gpm
11:15	12'	6 Seconds		10 gpm
11:30	12'	6 Seconds		10 gpm
11:45	12'	6 Seconds		10 gpm
12:00	12'	6 Seconds		10 gpm
12:15	12'	6 Seconds		10 gpm
12:30	12'	6 Seconds		10 gpm
12:45	12'	6 Seconds		10 gpm
1:00	12'	6 Seconds		10 gpm
1:15	12'	6 Secands		10 gpm
1:30	12'	6 Seconds		10 gpm
1:45	12'	6 Seconds		10 gpm
2:00	12'	6 Seconds		10 gpm



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

September 10, 2018

Homeowner 5045 Lindera Court Ellicott City, MD 21042

Dear Homeowner,

The Health Department received results from the testing for sodium, chloride, and total dissolved solids (TDS) from your well water.

Elevated sodium levels in drinking water may affect individuals on low-salt diets. The action level for sodium is 20 milligrams per liter (mg/L); sodium from your well measured 4.67 mg/L.

Chloride and TDS are both considered secondary contaminants, meaning high concentrations may 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 15 mg/L. The secondary maximum contaminant level for TDS is 500 mg/L; TDS from your well measured 260 mg/L.

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

Sincerely,

Sarah Collins, L.E.H.S. Howard County Health Department

Well & Septic Program SCollins@howardcountymd.gov

Sah alli

410-313-6287

Cc: Community Hygiene Program
File

# Send Report To: Bert Nixov

Howard County Health Dept Sureau of Environmental Health 8930 Stanford Blvd Columbia, MD 21045

# State of Maryland DHMH - Laboratories Administration

Division of Environmental Sciences

### TRACE METALS LABORATORY

1770 Ashland Avenue Baltimore, Maryland 21205

# E19000588001 Received: 08/17/2018

HO-15-0148 Metals

# LABORATORY ANALYSIS REQUEST



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D	0000	Print
_	PAISE.	PFINI

Samp	le ID No: Ho-19	5-0148 Si	te N	ame: Walnut Creek	c- Let 12	3	_ County: _	Howard
Samp	le Source: 504	5 Linders	CH	Ellicott O	ity	_Col	lector: S. G.V	Name
	le Preserved By:	☐ Field		□ ESRL	0	ρş WMF	RL 08-17-1	g □ Central Lab
Data (Code Specially Specially Special Spe	Category □□ 以下  fy Program: ☑/S  of Sample Prepara	☐ Commu ☐ Non-Co ☐ Private  SDWA ☐ I ation: ☐	mmu NPD Tota	tter	n	istrib ther nsum	er Products  Dis	Othersolved Metals
<b>√</b>	Element	Lab Use	√	Element	Lab Use	<b>√</b>	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)				a c 1000
	Mercury (Hg)			Magnesium (Mg)		RE	CEIVED	
	Nickel (Ni)			Manganese (Mn)		GE	P 0 6 2018	
	Selenium (Se)			Molybdenum (Mo)		-		
V	Sodium (Na)	SHS		Potassium (K)	HOWA	RDC	OUNTY HEALTH DI	M.
	Thallium (Tl)			Silver (Ag)	1 100			

Phone: (443) 681 − 4596

•Fax: (443) 681 – 4507



# 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: E19000588 Date Coll.:08/16/2018 Date Received:08/17/2018 Submitted By: Collins

Field ID: HO-15-0148 Lab No.: E19000588001

Method Element

Result Units Date Analyzed

EPA 200.7

Sodium

4.67

ppm

08/27/2018

Comments:

RECEIVED

SEP 0 6 2018

HOWARD COUNTY HEALTH DEPT FOOD PROTECTION PROGRAM

Approved by:

Timptono

Choi

Approval date: 08/28/2018

\*\*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.

Telephone: (443) 681 - 3853

Fax: (443) 681-4507

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Send Report To: Bert Nixon

Howard County Health Dept

Sureau of Envrionmental Health

8930 Stanford Blvd

Columbia, MD 21045

State of Maryland DHMH – Laboratories Administration

Division of Environmental Sciences

#### TRACE METALS LABORATORY

1770 Ashland Avenue Baltimore, Maryland 21205



# LABORATORY ANALYSIS REQUEST

Do not write above this line

-	00	CO	$\mathbf{Pr}$	mt

S	ampl	e ID No: H0-15	- 0148 Sin	te Na	me: Walnut Creek	· Let 123	,	_ County: _	Howard		
S	Sample Source: 5045 Lindered Ct. Ellicott City Collector: 5. Callens Street Town or City Collector: Name										
			Street		Town or City				Name		
D	ate (	Collected: 9/	16/20 18	Time	e Collected: 12:30	_ a.m. /p.m.	Pho	one #: 410-313-	6287		
S	Sample Preserved By:     Field   ESRL   WMRL   Central Lab										
D	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										
	ype o	of Sample Prepara	ation:	Total	Metals	otal Metals 7	CLF	Diss (field	solved Metals preparation required)		
R	ema	rks: Well de	epened	1.	sample collecte	d durin	3 4	reld test.			
-		16			,			- 1			
And I	√.	Element	Lab Use	1	Element	Lab Use	1	Element	Lab Use		
		Antimony (Sb)			Aluminum (Al)			Uranium (U)			
		Arsenic (As)			Calcium (Ca)	V		Vanadium (V)			
		Barium (Ba)			Cobalt (Co)			Zinc (Zn)			
		Beryllium (Be)	141		Copper (Cu)						
		Cadmium (Cd)	14		Iron (Fe)		Riph.				
		Chromium (Cr)	P.		Lead (Pb)	EARTH IN					
		Mercury (Hg)		4	Magnesium (Mg)			all the later			
		Nickel (Ni)	The state of		Manganese (Mn)				A A Second		
		Selenium (Se)		1	Molybdenum (Mo)	50	2.1./	a discourt of the	E STATE OF S		
17.	/	Sodium (Na)	SHS	*	Potassium (K)						
		Thallium (Tl)			Silver (Ag)	advanta de la					
	Lab Supervisor: Date Reported:/										

•Phone: (443) 681 - 4596

•Fax: (443) 681 - 4507



# 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:	E19000588	Date Coll.: 08/16/2018	Date Received: 08/17/2018	Submitted Ry: Callin
,			Date Neccived. Ob/1/2018	Sublinien by: ( Anni

Field ID: HO-15-0148 Lab No.: E19000588001

Method Element Result Units Date Analyzed

EPA 200.7 Sodium 4.67 ppm 08/27/2018

## Comments:

Approved by: Thetas Chai

Approval date: 08/28/2018

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Telephone: (443) 681 - 3853

Fax: (443) 681-4507

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<sup>\*\*</sup>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.

# Send Report To: Bert Nixon

Howard County Health Dept Bureau of Envrionmental Health 8930 Stanford Blvd Columbia, MD 21045

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

### WATER ANALYSIS

E19000587001 Received: 08/17/2018

Inorganic

HO-15-0148

Do not write above this line.

S A M P L E	Collec	cted: Date 8/16/18 Time 12:30 pm  CK (one per box)  Community Non-community Private	Collector & Phone	S. Collins 410-313-6287 Code  Emergency Routine Recheck Special Federal Project
F I E L D	рН	chlorine: Free es to Lab/Remarks: We\\ deepend - So	Total C	Preservation: Iced Acid Type of Acid  Specific Conductance  Conductance Type of Acid  Specific Conductance Acid
	ECK STS	TESTS	Error Code	RESULTS
		Alkalinity (Total)		
-		Ammonia - N		
	/	Chloride		
		Conductance*, Spec.		国的特别的 (1995年—1995年) (1995年) (
	/	Dissolved Solids (Total)		
		Hardness		
		Fluoride		The state of the s
		Nitrite, N		College Company of the College
		Nitrate - Nitrite, N		
		Sulfate		
		Total Solids		
		Turbidity*	The Paris Mark St	
		Other:		
		and oldayer of the		
		The complete the second of the complete the		
	Num	sults reported in Units, all others in milligrams per aber of s Requested Section Chief_	liter (ppm)	SAMPLE TESTED AS RECEIVED  Date Reported_

### Partial List of Submitter Codes

	Partial List	t of Submitter	Codes
Code	Description of Low day	Code	Description
1-30	County Codes	53	Chesapeake Bay & Special Projects
41	Individual Septics & Wells Program	59	Standards & Certification Program
42	Public Drinking Water	63	Division of Food Control
43	Recreational Sanitation & Migrant	64	Engineering & Maintenance, MDH
	Camps, MDH		
44	STP Inspection Division	65	Division of Community Services
45	Hazardous & Solid Waste Admin.	66	Office of Attorney General
	(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
52	Water Quality Monitoring Program	96	L.U.S.T./U.S.T./CERCLA
		99	Unknown
	Codes for Federally Funded	Projects (leave	box blank if not federal)
Code	Description	Code	Description
S	Safe Drinking Water Act (SDWA)	Initial N	National Pollution Discharge
		sa svarusiz	Elimination System (NPDES)
R	Resource Conservation and	M	Miscellaneous (Other)
	Recovery Act (RCRA)		
	Partial List o	f Data Categor	ry Codes
		and a	
Code	Description	Code	Description
1F	Sediment Samples	2F	Innovative Disposal
2A	Industrial Effluents/Compliance	5A	Solid Waste/Landfills
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	Swimming Pools
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		Sulfate of Solidar Solidar
	Partial L	ist of Error Co	
Code	Description	Code	Description
A	Laboratory Accident	J	Wrong sample type
C	Mechanical/Materials failure	RR	No sample received
D	Insufficient Sample	X	Improper preservation
E	Sample past holding time	LL	Mislabeled sample
		THE CALL	

AUG 24 2018

SAMPLE TESTED AS RECRIVED

HOWARD COUNTY HEALTH DEPT.



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 NoE19000587 Date Coll. 08/16/2018 Date Received 08/17/2018 Submitted By:S. Collins

Field ID: HO-15-0148 Lab No.: E19000587001

 Analyte
 Method
 Result
 Units
 Date Analyzed

 Chloride
 SM 4500-Cl E
 15
 mg/L
 08/20/2018

 Total Dissolved Solids
 SM 2540C
 260
 mg/L
 08/22/2018

#### Comments:

Approved by:

Shahler andi

Approval date: 08/24/2018

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

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<sup>\*</sup>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.



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

August 29, 2018

Mr. and Mrs. Kripa Tiwari 5045 Lindera Court Ellicott City, Maryland 21042

> RE: Lot 123 Walnut Creek Phase 4 5045 Lindera Court Ellicott City, Maryland 21042 Deepened Well Well Tag: HO - 15 – 0148

Dear Mr. and Mrs. Tiwari:

A sample was collected during a yield test on August 16, 2018 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  $3.4 \pm 1.4$  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 a Final Certificate of Potability (FCOP). Please **note** that other standard testing parameters (bacteria, nitrate, turbidity and sand) may still be required to help secure an FCOP for the deepened well.

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

Sincerely.

Bert Nixon, Director

Bureau of Environmental Health

Enclosure

cc: Property file

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

\*Howard County Health Dept

Sureau of Environmental Health

8930 Stanford Blvd

Columbia, MD 21045

State of Maryland DHMH - Laboratories Administration Division of Environmental Sciences

RADIATION LABORATORY

1770 Ashland Avenue Baltimore, Maryland 21205

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US - 37	8876	
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	1150000	

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Pla	nt/Site Name: Walk	unt Cx	eck to	1 173	•	Cour	ity: How	evd	
		Linde	va Ct			Loca 21047 Field Blank	C	NS- 014 9 Well no., lab sink, s le A	sample tap, etc.)
Cor	unty \3			1	Plant No.				
СН	ECK (one per Box)		4 A 10 - 10 - 11 - 12 - 13 - 13				,		
Lan	Type nking Water  odfill  cam  odfill			Source (F	int of Collection Raw) on (treated)	D	Emergency Routine Recheck Special		
Sub	omitters Code:				Feder	ral Project:	[2]		
	llector: S. Coll	ms				hone No.:	410-313	6291	
	te Collected: 9/16	/13				Collected:		a.m	12:33 p.m.
rie	ld pH:				Field	Chlorine:			
Nit	ric Acid Preserved:	Yes [	No		Iced:	Yes	No No		
Ren	and and								
or/Arciant.v.	narks: Well	deeper	ved sa	usple C	Nected	durin	g yield	test	
<del>d</del>	TEST	EPA Code	Lab No.	Method		esults (pCi/L)	Date Analyzed	-	Date Reported
e/Morest vill	TEST Gross Alpha	EPA		Method	No. R		Date Analyzed	Analyst	Reported
<b>√</b>	TEST Gross Alpha Gross Beta	EPA Code 4000 4100	Lab No.	Method ERA900	No. R	esults (pCi/L)			
D D D	TEST Gross Alpha Gross Beta Radium-226	EPA Code 4000 4100 4020	Lab No.	Method	No. R	esults (pCi/L)	Date Analyzed	Analyst	Reported
<b>8</b>	TEST  Gross Alpha Gross Beta Radium-226 Radium-228	EPA Code 4000 4100 4020 4030	Lab No.	Method ERA900	No. R	esults (pCi/L)	Date Analyzed	Analyst	Reported
	TEST  Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium	EPA Code 4000 4100 4020 4030 4006	Lab No.	Method ERA900	No. R	esults (pCi/L)	Date Analyzed	Analyst	Reported
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× 00000	TEST  Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon-222 (Bottle B)	EPA Code 4000 4100 4020 4030 4006 4004 4004	Lab No.	Method ERA900	No. R	esults (pCi/L)	Date Analyzed	Analyst	Reported
	TEST  Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon-Field Blank A	EPA Code 4000 4100 4020 4030 4006 4004 4004	Lab No.	Method ERA900	No. R	esults (pCi/L)	Date Analyzed	Analyst	Reported
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<b>a</b>	TEST  Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon-222 (Bottle B) Radon Field Blank A Radon Field Blank B	EPA Code 4000 4100 4020 4030 4006 4004 4004	Lab No.	Method ERA900	No. R	esults (pCi/L)	Date Analyzed	Analyst	Reported
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Howard County Health Dept

Bureau of Envrionmental Health

8930 Stanford Blvd Columbia, MD 21045

State of Maryland DHMH - Laboratories Administration Division of Environmental Sciences

#### RADIATION LABORATORY

1770 Ashland Avenue Baltimore, Maryland 21205

Lab No.				4.5	· · · · ·	1
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#### LABORATORY ANALYSIS REQUEST FORM

Plan	nt/Site Name: Feld	Blan	K C			Cour	ity:	HVING	vd	
Sam	ple Source: dH20	_ n				Loca	tion:	W)	Vell no., lab sink, s	
Rad	on-222 Bottle A Bottle B				Radon-2	22 Field Blank		Bottle	e A	
Cou	inty 13				Plant No					
CHE	ECK (one per Box)									
	Type		Service			Point of Collection	1		Test	ing
Drir	nking Water	Com	munity			e (Raw)			Emergency	
	dfill		Community		Distril	bution (treated)		1-1	Routine	0
Stre	am 🗆	Priva		0	MCL				Recheck	
Oth		Other							Special	
Col	mitters Code:  lector: S (a)  e Collected: 8/16  d pH:	1/19			Te	elephone No.: me Collected:		] 0-313	- 62 67 _a.m.	<u></u> у р.т.
		-				-			367 1 34	
Niti	ric Acid Preserved:	Yes	No		Ice	ed: Yes	S	No	/	
									Partie No.	
Ren	marks:									
Ren	TEST	EPA Code	Lab No.		hod No.	Results (pCi/L)	Date A	nalyzed	Analyst	Date Reported
Q Ø	TEST Gross Alpha	<b>Code</b> 4000	Lab No.		hod No.		Date A		Analyst	
A D	TEST Gross Alpha Gross Beta	4000 4100		EPA		Results (pCi/L)		118		Reported
	Gross Alpha Gross Beta Radium-226	4000 4100 4020	0314	EPA	100.0	Results (pCi/L)	8/20	118		Reported
<b>A</b>	Gross Alpha Gross Beta Radium-226 Radium-228	Code 4000 4100 4020 4030	0314	EPA	100.0	Results (pCi/L)	8/20	118		Reported
	TEST Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium	Code 4000 4100 4020 4030 4006	0314	EPA	100.0	Results (pCi/L)	8/20	118		Reported
	TEST Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A)	Code 4000 4100 4020 4030 4006 4004	0314	EPA	100.0	Results (pCi/L)	8/20	118		Reported
	TEST Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon-222 (Bottle B)	4000 4100 4020 4030 4006 4004 4004	0314	EPA	100.0	Results (pCi/L)	8/20	118		Reported
	TEST Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon-222 (Bottle B) Radon Field Blank A	4000 4100 4020 4030 4006 4004 4004	0314	EPA	100.0	Results (pCi/L)	8/20	118		Reported
	TEST Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon-222 (Bottle B) Radon Field Blank A Radon Field Blank B	4000 4100 4020 4030 4006 4004 4004	0314	EPA	100.0	Results (pCi/L)	8/20	118		Reported
	TEST Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon-222 (Bottle B) Radon Field Blank A	4000 4100 4020 4030 4006 4004 4004	0314	EPA	100.0	Results (pCi/L)	8/20	118		Reported
	TEST Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon-222 (Bottle B) Radon Field Blank A Radon Field Blank B	4000 4100 4020 4030 4006 4004 4004	0314	EPA	100.0	Results (pCi/L)	8/20	118		Reported
	Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon-222 (Bottle B) Radon Field Blank A Radon Field Blank B Tritium	4000 4100 4020 4030 4006 4004 4004	0314	EPA	100.0	Results (pCi/L)	8/20	118	J.T.	8 23 .8 8 23 18
	TEST Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon-222 (Bottle B) Radon Field Blank A Radon Field Blank B	4000 4100 4020 4030 4006 4004 4004	0314	EPA	100.0	Results (pCi/L)	8/20	118		8 23 .8 8 23 18
Dat	Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon-222 (Bottle B) Radon Field Blank A Radon Field Blank B Tritium	4000 4100 4020 4030 4006 4004 4004	0314	EPA	100.0	Results (pCi/L)	8 20	118	J.T.	8 23 .8 8 23 18
Dat	Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon-222 (Bottle B) Radon Field Blank A Radon Field Blank B Tritium  e Received:	Code 4000 4100 4020 4030 4006 4004 4004 4004 4004	0314	EPA	ived By:	Results (pCi/L)	8120 8120	Repate: A	J.T.	8 23 .8 8 23 18
Date	TEST  Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon-222 (Bottle B) Radon Field Blank A Radon Field Blank B Tritium  e Received:	4000 4100 4020 4030 4006 4004 4004	0314	EPA	100.0	Results (pCi/L)	8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z	Reate: A	ECEIVE UG 28 20 COUNTY HE	Reported 8   23   8   8   23   18   8   23   18   8   8   8   8   8   8   8   8
Date	TEST  Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon-222 (Bottle B) Radon Field Blank A Radon Field Blank B Tritium  e Received: a Release Signature:	Code 4000 4100 4020 4030 4006 4004 4004 4004 4004	0314	EPA	ived By:	Results (pCi/L)	8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z	Repate: A	ECEIVE UG 28 20 COUNTY HE	Reported 8   23   8   8   23   18   8   23   18   8   23   18   8   8   8   8   8   8   8   8
Dat Dat Sam	TEST  Gross Alpha Gross Beta Radium-226 Radium-228 Total Uranium Radon-222 (Bottle A) Radon-222 (Bottle B) Radon Field Blank A Radon Field Blank B Tritium  e Received:	Code 4000 4100 4020 4030 4006 4004 4004 4004 4004	0314	EPA	ived By:	Results (pCi/L)	8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z c   8   z	Reate: A	ECEIVE UG 28 20 COUNTY HE	Reported 8   23   8   8   23   18   8   23   18   8   8   8   8   8   8   8   8

# 5045 Lindera Ct. FILE INQUIRY NOTES

DATE	RESULTS OF REVIEW FOR FILE
6/27/18	I met with Mr. + Mrs. Tiwari at their house. They explained
	that they have had their well chlorinated 5x, including one
	superchiorination, and they have persistent E. Coli contamination
• 180	There is a stormwater management point behind their house
	with lots of geese - droppings present between the well and
	the pond. Could be a potential source of contamination if
	well construction is allowing surface water to exter. Upon
	walking back to the well to get measurements from the
	well to the house, I noticed that the area immediately
	surrounding the well had greener grass. Could be due
	to a leak from the pitters adaptor of break in the water line. (59)
7/9/18	
11.11.11	Met with the homeowners, Mr. + Mrs. Towari, and Fogless on site Fogless day at well to pittess adaptor, 42" below grade Soil was
	slightly moist for entire depth more wet a darker color starting
	@ 36". Pan well pump by turning on yard sprinklers and saw
	no water leaking from pitters. Let water run ~10 mins and no
	leatage Grout around casing above pitters appears solid. (50)
	On site while Fogles is installing 5" steel sleeve in well. Drive shoe @
	bottom of sidere, will case to 120' to seal off existing fractures.
	Aut a bag of hole plug @ bottom initially to make seal. Skems
	that existing casing is bent @ bottom - Fogle's had trouble
	nstalling shear past this point. Will install a packer @ top of sleeve (SQ)

# 5045 Lindera Ct. FILE INQUIRY NOTES

DATE	RESULTS OF REVIEW FOR FILE
8/15/19	3 Figless drilling deeper after installing 5' sleeve, using a 5' drill bit.
	At 175! hit ~10 gpm water @ 135! Drining in Imestone per
	Allen Compron. (50)
8/16/18	Call from Andy @ Fogle's - Static water level is above 5" steeves
	will install additional liner to above static level to ensure
	water is not from old fracture. (SC)
8/16/18	On site for yield test. Static water level was 10; pumping 10 gpm
	and 'measuring pt. @ 12! Started pumping at 11 am. Collected
	gross or, A. Na, a. + TDS samples @ 12:30 pm. (50)

# SITE INSPECTION SHEET

OWNER: PHONE #: NA	
ADDRESS: 5045 LINDERA COURT CONTRACTOR: FOGLES	
WELL TAG #: HO-15-0148	
SUBDIVISION: WALNUT CREEK LOT: 123 COUNTY #: TOU	
PROPOSAL: INVESTIGATE ELEVATED BACTERIAL LEVELS	2
E. Coll.	
LOCATION DIAGRAM 0, 10:30	
OF CASING WELL CAMERA NOTES (OBS. DRECTION)	
3 WELL CASING EXTENSION (1)	
78' STATIC WATER LEVEL ( )	
37' CAMERA SHIFT (1)  CASING?  *WATER IN COLUMN  HAS TURBIDITY  FROM PUMP EX	
96' FORMATION CHANGE (4)	
CRYSTILLINE ROCKIN	
112-113' WATTER FRACTURE (1)	
119' BOTTOM OF WELL (4)	
COMMENTS: MDE J. BORIS	
SINC: 7.8' HCHO J. W.LIAMS	
HOMEOWNERS REPORT POSSIBLE J. CABINHUG	
FAULTY SUPER CHLORINATION FOGLES ANDI	
PROTOCOL. TABLETS+ HOME OWNERS	
DATE: 07/26/208 INSPECTOR: 01997 (10)	•





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

June 28, 2018

Kripa & Shreya Tiwari 5045 Lindera Court Ellicott City, MD 20142

Dear Mr. and Mrs. Tiwari,

On a site visit to your property on 6/27/18 to investigate ongoing *E. Coli* contamination of your well water, I noticed that the grass immediately surrounding the well is greener than the rest of the backyard. The greener grass surrounding the well could be due to a leak at the pitless adaptor (the connection of the well and the water line) or in the water line leaving the well. You may want to consider having a contractor dig beside the well to expose the pitless adaptor and the water line.

If you decide to have a contractor dig beside the well, the Health Department can inspect both the pitless adaptor and water line at the well to determine if the well's connection to the water line could be contributing to contamination of the water supply.

If no leaks are found at the pitless adaptor or water line, you may want to consider contacting a well driller to look into the well's construction. A well driller can use a camera to see the casing inside the well, specifically looking for any cracks or entry points for contamination.

The well #HO-15-0148 has not yet received its Final Certificate of Potability per *The Code of Maryland Regulations 26.04.04.30*.

Sincerely,

Sarah Collins, L.E.H.S. Howard County Health Department

Well and Septic Program

Cc: Community Hygiene Program
File

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

Labs Administration	6/22/2018	11:28:24	AM PA	AGE 3/	003 Fax	Server	
Labs Administration		OLALE UI IVI	ы уыл к	1077	notified	moti	way but
Howard County Health Depar	mient Division	IMH - Laboratorie I OF ENVIRON			Λ	I Will	Town Dig
Bureau of Environmental Hea	aith 1770 A	Ashland Avenue, I	Baltimore, Mi	21205	phone		U
8930 Stanford Blvd.	MICROBIOLOG	Robert A. Myers,	Ph.D. Direct	or RINKING WA	TERI 1980	)	, - 1
POONENSia, Maryland 21045		ce No.: R					
Category Code: 4/-	Invol	FIELD RE			Lab No.:		
Sample Type:	T						
☐ Community					5045 Liu		
☐ Transient	Sampling Site:	Baturoo	W 5 W	d floor	right ottle	lo.: HC	5045-1
□ Non-Transient ☑ Private	Ice: Yes 1 No	☐ Treated:	Yes D No	Cour	ity: HOU	vard	
☐ Repeat Sample	Date Collected:	6/21/1	18	Time	Collected: 9	00	_Syam □ pm
☐ C.O.P. ☐ Bottled Water	Collector Name	B. 3h	KNAV	Colle	ctor ID No.: 3	1791	85
☐ OTHER:	Collector Tel. No	: 410-3	13-17	87 PWS	ID No.:		
Test Requested:	C 54.		Па	1		Г	
Quantitative: Colilert-QT  Heterotrophic Plate Count	☐ P/A: 0		13				
☐ Multiple Tube Fermentation			County		Plant No.	Samplin	g Station
☐ Quantitative: Enterolert				70	000	11/1	00
☐ Other:			, LL	H	Res.Cl: Fr	99	Total
itemaks.	LABORA	TORY RECOR	D (DHMH	Use Only)			, ,
Test Method(s): (check all that appl	ý)				Temperature		
	1 9223 Colilert-QT 1 9221B, F (MTF)		M 9223 C M 9223 C		Control:		esent
	terolert ASTM D65			olisara	3.3 0		ndetermined
Other:							
* ***	Quantitative Test Dilution: 1:10		000		Heterotrophi Incubated 24,		
100 mL Sample (+/-)	100 mL Sample	# Positive		N/100 mL	,,		
Total Coliforms	Total Coliforms	wells	9 6	2	Plate A:		
E. coli	E. coli	2-1		7	Plate B:		
Enterococci	Enterococci			-			
	,				Average:		CFU/mL
					I		MPN/mL
145	Presumptive M	F Test		: " " .	1		
JUN 21'18 PM 2:07	mL of Sample	1	10 mL				4
	Gas/24h						
Received CJ	Gas/48h				MTF Results		
HN 04 14 0 ov 2000	Confirmed MTF	Test			No. of	MPN/	Recorded
JUN 21'18 PM 2:26	mL of Sample		10 mL	· · · · ·	Positive (+)	100 mL	Value
Placed in Incubator	Total Coliforms		, ,				·
JUN 22'18 AN 8:34	E. coli						
VGH 22 18 AN 8:34	Specialized Testi	ng Results:	,				
Results Read/Reported		y					
Analyst: Analyst:		Reviewed	by/Date:	SPlana	6/22/19		· 1/4/1
Remarks:				alna	Fax	☐ Email	☐ Phone
_aboratory:						,	
This report shall not be repro	oduced except in full w	thout the written	approval of the	ne laboratory. R	esults only valid for	sample receiv	red.

**Howard County Health Department** 

CLOSO UL IVIGI YIGILU DHMH - Laboratories Administration DIVISION OF ENVIRONMENTAL SCIENCES

**Bureau of Environmental Health** 8930 Stanford Blvd.

1770 Ashland Avenue, Baltimore, MD 21205 Robert A. Myers, Ph.D. Director

Bohmbia, Maryland 21045

MICROBIOLOGICAL ANALYSIS OF DRINKING WATER

011979

Invoice No.: RCTEST Category Code: Lab No .:\_\_\_ FIELD RECORD Sample Type: Source Address: Shreya Tiwori, 5045 Lindera Ct. □ Community Buthroom 2nd floor, left Bottle No .: He 5045 □ Transient Sampling Site: ☐ Non-Transient Treated: Yes □ No □ County: H € 50 45 Ice: Yes V No 🗆 Private Time Collected: 9:00 Ø am □ pm Repeat Sample Date Collected: □ C.O.P. Collector ID No.: 3/79 BS Collector Name: **Bottled Water** Collector Tel. No: 410-313-1787 PWS ID No .: ☐ OTHER: Test Requested: M Quantitative: Colilert-QT ☐ P/A: Colilert Heterotrophic Plate Count Plant No. Sampling Station County ☐ Multiple Tube Fermentation: MTF □ Quantitative: Enterolert ☐ Other: Res.Cl: Remarks: LABORATORY RECORD (DHMH Use Only) Temperature Test Method(s): (check all that apply) Thiosulfate: Control: ☐ SM 9223 Colilert ☐ SM 9223 Colilert-QT SM 9223 Colilert-18 Present ☐ SM 9221B (MTF) ☐ SM 9221B, F (MTF) SM 9223 Colisure □ Absent ☐ SM 9215B (HPC) ☐ Enterolert ASTM D6503-99 □ SimPlate Undetermined □ Other: P/A Test **Quantitative Test** Heterotrophic Plate Count Dilution: ☐ 1:10 ☐ 1:100 ☐ 1:1000 Incubated 24, 48, 72hr @ 35°C 100 mL Sample (+/-) # Positive 100 mL Sample MPN/100 mL wells Plate A: **Total Coliforms** Total Coliforms E. coli Plate B: E. coli Enterococci Enterococci CFU/mL Average: MPN/mil Presumptive MTF Test mL of Sample 10 mL JUN 21'18 PM 2:07 Gas/24h Received MTF Results Gas/48h No. of MPN/ Recorded Confirmed MTF Test JUN 21'18 PM 2:26 Positive (+) Value 100 mL mL of Sample 10 mL Total Coliforms Placed in Incubator E. coli JUN 22'18 AM 8:34 Specialized Testing Results: Results Read/Reported Analyst: Reviewed by/Date: Fax D Email D Phone Remarks: 

This report shall not be reproduced except in full without the written approval of the laboratory. Results only valid for sample received.

Collins

Company Name: Robert L. Feezer Co.

Address: 6321 Samett Avenue

#### HOWARD COUNTY HEALTH DEPARTMENT

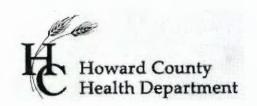
BUREAU OF ENVIRONMENTAL HEALTH WELL & SEPTIC PROGRAM TEL: (410)313-1771 FAX: (410)313-2648

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

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

Telephone #: 410-781-4655

	Sykesville, MD 21784
	(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer License # and name of individual responsible for the field installation:  Name (Print): Joshua Hendeks License# Pl0173
-0.	*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: NV Homes Telephone #: 410-379-5956
	Subdivision: Walnut Creek Lot #: 123 Well Tag #: HO - 15 - 0148
	Site Address: 5045 Lindera Court
	Ellicoff City, MD 21042
	Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit
	Make: Boshart Two piece watertight cap: Yes
	Model #: B7P4MS07221 Model#: P-100-SS Screened, vented well cap: Yes
	Pump Capacity 7 GPM Depth: 42" (36" min) Cap secured to casing: Yes Well Yield: 20.0 GPM NSF/WSC approved: Yes Conduit min 18" B.G.: Yes
	Well Yield: 20.0 GPM NSF/WSC approved: Yes Conduit min 18" B.G.; Yes  Depth of well encountered at time of pump installation: 120 (feet) Conduit secured to well cap; Yes
	If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4
	Torque arrestors, Cable guards, or other acceptable method used—Must circle one
	Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing N/A
	contest to post, it does a state to be and to pe and prote of other necessaries metado of west causing
	Piping to house House Connection
	Type: Poly PVC sleeve to undisturbed soil at wall penetration: Yes
	PSI: 200 (160 psi min) Length of sleeve(5' minimum from foundation): 10'
	Depth of supply line: 42" (36" min) Sleeve sealed properly: Yes
all the same of th	
_	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
Tens.	
Con	approval prior to installation.  Joshua Henricks  April 4, 2017  Signature of company representative responsible for installation date
*	Signature of company representative responsible for installation date
	orginature or company representative responsive for mountation have
)	For Health Department Use Only - Not to be completed by Installer
1	1 of Fredhild Department one only 1 to 10 of completed by Fredhild.
J	Date Insp. Requested: 05/02/2017 Date Insp. Approved: 05/04/2017 Inspector:
	Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade os 10460732" os 10412617 0
-	Two piece cap installed and attached to casing securely
me Spec	
Harlotte	Safety rope not outside of well cap/casing
20 -	Correct well tag attached properly and casing 8" above finished grader of 104 box Richard Oregon
LH IAO	Water supply line sleeved adequately at house connection
02032	Adequate grout observed below pittess adapter
4 64 4	35 Fe duy
CT M	71.60 Dur
0 00	757 200 1786 NSE 2WG
o he	250 PSI @ 23°C NSF PWG
Code ART	CO-110-P MADE IN LEA 12/10/16 05:46 Ext & 12 L CG
SUM TE	CP-110-P MACE IN IGA 12/10/16 05:46 EXT # 12 L CG



NV Homes - Clint POU Ro in kitchen Sx chlorination

15-0148

Bureau of Environmental Health 8930 Stanford Blvd Columbia, MD 21045 (410) 313-2640Fax (410) 313-2648 TDD (410) 313-2323 Toll Free 1-866-313-6300 website: www.hchealth.org

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

Emailed to: Shreya dubey@yahoo.com

June 22, 2018

Shreya Tiwari 5045 LINDERA CT

ELLICOTT CITY, MD 21042

RE: Water Sample Results 5045 LINDERA CT

Dear Shreya Tiwari,

We have received the results from the testing of the water sample(s) taken from the above referenced property on June 21, 2018. A description of the results and the established standards for each test is included below. Standards such as maximum contaminant levels (MCL), secondary maximum contaminant levels (SMCL), and drinking water equivalency levels (DWEL) are established by the EPA and other agencies to provide a reference for determining when action should be taken. These standards help to improve the overall quality of your water or ensure that steps are taken to treat the water to prevent you and your family from getting sick. Typically, no water is completely free of contamination but you should be concerned if the level of contamination for a particular test exceeds the standard.

The results from the **Bacteria** testing found that bacteria was present in the sample taken from the bathroom faucet and at this time is not considered safe for all uses. According to drinking water standards there should be no bacteria present.

The results from the **Bacteria** testing found that bacteria was present in the sample taken from the bathroom faucet and at this time is not considered safe for all uses. According to drinking water standards there should be no bacteria present.

Please contact the Health Department at (410) 313-1773 between 8:30 a.m. and 4:30 p.m., Monday through Friday if you have any questions regarding these test results.

Sincerely

Kathleen Cook, R.S.

Community Hygiene Program

Enclosures

## Collins, Sarah

From:

Collins, Sarah

Sent:

Tuesday, July 10, 2018 11:00 AM

To:

Shreya Tiwari

Subject:

Pitless adaptor inspection

Hi Shreya,

I wanted to write to report my observations during an inspection of the pitless adaptor yesterday. On Monday, 7/9 around 10am, I met with you, your husband, and Fogle's at your property. Fogle's observed no wetness of the ground around the well where the grass appeared greener. The well cap and all bolts on the well were tight. Fogle's dug around the well to expose the pitless adaptor and well line leading from the house to the well, approximately 3.5' depth. The soil was moist from the ground surface to as deep as Fogle's dug, possibly due to a high water table in the area. We ran a sprinkler to turn on the well pump and let it run for about 10 minutes; no water was seen leaking from the pitless or line leading to the house where Fogle's exposed it. The grout that was visible around the steel casing appeared solid.

I did not observe any inconsistencies in well construction that could be contributing to the E. coli contamination in the well. One possible next step would be to have a well driller to use a camera look inside the well for a potential source of contamination. This information could be helpful to a driller if a new well is drilled on your property.

Please let me know if you have any questions.

Thanks, Sarah

Sarah Collins, L.E.H.S.
Howard County Health Department
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, MD 21045
SCollins@howardcountymd.gov
410-313-6287

#### CONFIDENTIALITY NOTICE

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## Wolf, Kevin

From:

Wolf, Kevin

Sent:

Tuesday, April 02, 2019 8:33 AM

To: Cc: Kripa Tiwari Shreya Tiwari

Subject:

RE: 5045 Lindera Ct Test Results

Kripa,

Were you ever able to get the agreement signed and recorded with Land Records?

From: Wolf, Kevin

Sent: Monday, December 31, 2018 9:34 AM
To: Kripa Tiwari <kripa\_tiwari@yahoo.com>

Cc: Cook, Kathleen <kcook@howardcountymd.gov>; Shreya Tiwari <shreya dubey@yahoo.com>

Subject: Re: 5045 Lindera Ct Test Results

#### Kripa,

Ok thanks for the update. You can coordinate the quarterly sampling with Kathleen. Let me know when the agreement is signed it will need to be brought back to me for review and a signature from us before you can record the document.

#### Kevin

----- Original message ------

From: Kripa Tiwari < kripa tiwari@yahoo.com>

Date: 12/30/18 9:03 PM (GMT-05:00)

To: "Wolf, Kevin" < KWolf@howardcountymd.gov>

Cc: "Cook, Kathleen" < kcook@howardcountymd.gov>, Shreya Tiwari < shreya dubey@yahoo.com>

Subject: Re: 5045 Lindera Ct Test Results

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

#### Kevin

UV system has been installed 2-3 weeks back and first water test for bacteria was done last week and it came good. I was waiting for the test results.

I will work on the document shared by you earlier tomorrow.

We will need to schedule quarterly test for next few quarter to make sure that system is working.

Should I forward you water test results?

Thanks,

Kripa

On Dec 27, 2018, at 8:51 AM, Wolf, Kevin < KWolf@howardcountymd.gov > wrote:

Kripa,

It has been awhile and have not heard back with you and wanted to check in to see what you decided. Are you going with the UV system? Did you get the agreement I sent you?

From: Wolf, Kevin

Sent: Tuesday, October 30, 2018 9:48 AM

**To:** 'Kripa Tiwari'; Cagle, Clint **Cc:** Cook, Kathleen; Shreya Tiwari

Subject: RE: 5045 Lindera Ct Test Results

#### Kripa,

Reviewing the last submitted water test, it shows a bacteria of 2.0 taken from the kitchen sink. Due to the nature of "swivel" faucets (which are known to collect bacteria), we would like to come out and resample and 2 different locations (preferably bathrooms) for bacteria, e. coli. Can you please coordinate efforts with Kathleen (she is copied on this email) to set up a date and time. Thank you

#### Kevin

From: Kripa Tiwari [mailto:kripa tiwari@yahoo.com]

Sent: Monday, October 29, 2018 7:21 AM

To: Cagle, Clint

Cc: Wolf, Kevin; Theresa Miller; Carrie Condon; Cook, Kathleen; Shreya Tiwari

Subject: Re: 5045 Lindera Ct Test Results

Carrie

Can we have test results from last sample?

Thanks, Kripa

On Oct 22, 2018, at 11:07 AM, Cagle, Clint < ccagle@nvrinc.com > wrote:

Got it. Thanks Kevin.

Clint Cagle | NVHomes | 301-237-5776

Message classified as NVR - Business Use Only on Monday, October 22, 2018 11:07:34 AM

From: Wolf, Kevin < KWolf@howardcountymd.gov>

Sent: Monday, October 22, 2018 10:50 AM

To: Cagle, Clint <ccagle@nvrinc.com>; Theresa Miller <Theresa@foglesinc.com>; Kripa

Tiwari < kripa tiwari@yahoo.com>

Cc: Carrie Condon < Carrie@foglesinc.com>; Cook, Kathleen

<kcook@howardcountymd.gov>; Shreya Tiwari <shreya\_dubey@yahoo.com>

Subject: [Ext] RE: 5045 Lindera Ct Test Results

The pressure tank is fine. I do not really believe this should be location specific if the disinfection process was done correctly.

From: Cagle, Clint [mailto:ccagle@nvrinc.com]

Sent: Friday, October 19, 2018 3:52 PM

To: Theresa Miller; Kripa Tiwari; Wolf, Kevin Cc: Carrie Condon; Cook, Kathleen; Shreya Tiwari

Subject: RE: 5045 Lindera Ct Test Results

Hi Kevin,

Would you suggest the test is taken at the pressure tank this time? Or suggest somewhere else?

Thanks,

Clint Cagle | NVHomes | 301-237-5776

Message classified as NVR - Business Use Only on Friday, October 19, 2018 3:51:58 PM

From: Theresa Miller < Theresa@foglesinc.com >

Sent: Friday, October 19, 2018 11:18 AM
To: Kripa Tiwari < kripa tiwari@yahoo.com>

Cc: Cagle, Clint < ccagle@nvrinc.com >; Carrie Condon < Carrie@foglesinc.com >; Wolf,

Kevin < KWolf@howardcountymd.gov>; Cook, Kathleen

<a href="mailto:kcook@howardcountymd.gov">kcook@howardcountymd.gov</a>; Shreya Tiwari <shreya dubey@yahoo.com</a>

Subject: [Ext] RE: 5045 Lindera Ct Test Results

Ok great we will see you then. Have a great weekend!

Theresa

From: Kripa Tiwari [mailto:kripa tiwari@yahoo.com]

Sent: Thursday, October 18, 2018 5:12 PM
To: Theresa Miller < Theresa@foglesinc.com >

Cc: Cagle, Clint <ccagle@nvrinc.com>; Carrie Condon <Carrie@foglesinc.com>; Wolf,

Kevin < KWolf@howardcountymd.gov>; Cook, Kathleen

<kcook@howardcountymd.gov>; Shreya Tiwari <shreya dubey@yahoo.com>

Subject: Re: 5045 Lindera Ct Test Results

12:30-1:00 window is fine.

Thanks, Kripa

On Oct 18, 2018, at 3:22 PM, Theresa Miller < Theresa@foglesinc.com > wrote:

Tuesday is fine. I give her a half hour window. Would you like me to send her between 12:00-12:30 or 12:30-1:00?

From: Kripa Tiwari [mailto:kripa tiwari@yahoo.com]

Sent: Thursday, October 18, 2018 3:08 PM
To: Theresa Miller < Theresa@foglesinc.com >

Cc: Cagle, Clint <ccagle@nvrinc.com>; Carrie Condon

<<u>Carrie@foglesinc.com</u>>; Wolf, Kevin <<u>KWolf@howardcountymd.gov</u>>; Cook, Kathleen <<u>kcook@howardcountymd.gov</u>>; Shreya Tiwari <<u>shreya\_dubey@yahoo.com</u>>

Subject: Re: 5045 Lindera Ct Test Results

Can you please do 12:30pm on Tuesday 23rd?

Thanks, Kripa

On Oct 18, 2018, at 2:59 PM, Theresa Miller < <a href="mailto:Theresa@foglesinc.com">Theresa@foglesinc.com</a>> wrote:

Unfortunately we do not have anyone that can come out tomorrow. I can set something up for next week. I can do any day and appointments run from 11:30 to 3:00. Let me know what day & time would work best.

Thanks Theresa 443-609-4195

From: Cagle, Clint [mailto:ccagle@nvrinc.com]
Sent: Thursday, October 18, 2018 1:47 PM

To: Kripa Tiwari < kripa tiwari@yahoo.com >; Carrie

Condon < Carrie@foglesinc.com>

Cc: Wolf, Kevin < <a href="mailto:KWolf@howardcountymd.gov">KWolf@howardcountymd.gov</a>; Cook, Kathleen < <a href="mailto:kcook@howardcountymd.gov">kcook@howardcountymd.gov</a>; Theresa Miller < <a href="mailto:Theresa@foglesinc.com">Miller < <a href="mailto:Theresa@foglesinc.com">Theresa@foglesinc.com</a>; Shreya Tiwari < <a href="mailto:shreya">shreya dubey@yahoo.com</a>

Subject: RE: Re: 5045 Lindera Ct Test Results

Hello Carrie, Is this set up for tomorrow?

Thanks,

Clint Cagle | NVHomes | 301-237-5776

Message classified as NVR - Business Use Only on Thursday, October 18, 2018 1:46:31 PM

From: Kripa Tiwari < kripa tiwari@yahoo.com > Sent: Friday, October 12, 2018 5:15 PM

To: Carrie Condon < Carrie@foglesinc.com > Cc: Cagle, Clint < ccagle@nvrinc.com >; Wolf, Kevin < KWolf@howardcountymd.gov >; Cook, Kathleen

< kcook@howardcountymd.gov>; Theresa Miller

< Theresa@foglesinc.com >; Shreya Tiwari

<shreya dubey@yahoo.com>

Subject: [Ext] Re: 5045 Lindera Ct Test Results

Let's try 8am Friday Oct 19 for retest. Also please confirm the correct place to take water samples.

The person coming to take samples asks us from where to take sample but Kevin suggested to take untreated water for testing. So far samples have been take either from bathrooms or Kitchen.

Thanks, Kripa

On Oct 12, 2018, at 11:09 AM, Carrie Condon < Carrie@foglesinc.com > wrote:

The well was super chlorinated yesterday. Everything went good. Let us know when the chlorine is out and we will be out to get a bacteria retest!

Carrie Condon
Fogle's Well Pump & Water Treatment,
LLC
24 HR EMERGENCY SERVICE
410-795-5670
"LIKE" us on Facebook!!

From: Cagle, Clint < ccagle@nvrinc.com > Sent: Friday, October 12, 2018 11:02

AM

To: Carrie Condon

<<u>Carrie@foglesinc.com</u>>; Kripa Tiwari

<kripa tiwari@yahoo.com>

Cc: Wolf, Kevin

< KWolf@howardcountymd.gov >; Cook,

Kathleen

<kcook@howardcountymd.gov>;

Theresa Miller

<<u>Theresa@foglesinc.com</u>>; Shreya Tiwari <<u>shreya\_dubey@yahoo.com</u>>

Subject: RE: 5045 Lindera Ct Test

Results

Good Morning, Checking in to see if all went well yesterday?

Thanks,

Message classified as NVR - Business Use Only on Friday, October 12, 2018 11:02:24 AM

From: Carrie Condon <Carrie@foglesinc.com>

Sent: Tuesday, October 9, 2018 9:45

AM

To: Kripa Tiwari

<kripa tiwari@yahoo.com>

Cc: Cagle, Clint < ccagle@nvrinc.com>;

Wolf, Kevin

< KWolf@howardcountymd.gov >; Cook,

Kathleen

<kcook@howardcountymd.gov>;

Theresa Miller

<Theresa@foglesinc.com>; Shreya

Tiwari <shreya dubey@yahoo.com>

Subject: [Ext] RE: 5045 Lindera Ct Test

Results

Ok great. We will see you then!

Carrie Condon
Fogle's Well Pump & Water Treatment,
LLC
24 HR EMERGENCY SERVICE
410-795-5670
"LIKE" us on Facebook!!

From: Kripa Tiwari

<kripa tiwari@yahoo.com>

Sent: Monday, October 08, 2018 6:35

PM

To: Carrie Condon

<Carrie@foglesinc.com>

Cc: Cagle, Clint < ccagle@nvrinc.com>;

Wolf, Kevin

<KWolf@howardcountymd.gov>; Cook,

Kathleen

<kcook@howardcountymd.gov>;

Theresa Miller

<Theresa@foglesinc.com>; Shreya

Tiwari <shreya dubey@yahoo.com>

Subject: Re: 5045 Lindera Ct Test

Results

Yes, Thursday 8-9am is fine.

Thanks, Kripa

On Oct 8, 2018, at 10:00 AM, Carrie Condon < Carrie@foglesinc.com > wrote:

Would this Thursday the 11<sup>th</sup> between 8a-9a work for you for a super chlorination?

Carrie Condon
Fogle's Well Pump &
Water Treatment, LLC
24 HR EMERGENCY
SERVICE
410-795-5670
"LIKE" us on Facebook!!

From: Kripa Tiwari <kripa tiwari@yahoo.c om> Sent: Saturday, October 06, 2018 8:55 AM To: Cagle, Clint <ccagle@nvrinc.com> Cc: Carrie Condon <Carrie@foglesinc.com >; Wolf, Kevin < KWolf@howardcounty md.gov>; Cook, Kathleen < kcook@howardcounty md.gov>; Theresa Miller <Theresa@foglesinc.co m>; Shreya Tiwari <shreya dubey@yahoo .com> Subject: Re: 5045 Lindera Ct Test Results

Is super chlorination required? If yes then when can this be scheduled? We are open for next week.

Thanks,