C 1 SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND WELL COMPLETION REPORT	THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.
1 2 3 6 (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)	FILL IN THIS FORM COMPLETELY PLEASE TYPE	COUNTY
ST/CO USE ONLY DATE Received  MM / OD  B 13  DATE WELL COMPL  MM / A) 00 17	ETED Depth of Well	PERMIT NO. FROM "PERMIT TO DRILL WELL" - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0
OWNER WILLIAMS LINE GOODS	TOUR first name TOWAL	tehland
SUBDIVISION ESTATES C SCHOOL	MIL SECTIONTOWN_/	LOT 6
WELL LOG  Not required for driven wells	WELL HAS BEEN GROUTED (Circle Appropriate Box)	C 3
STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING	TYPE OF GROUTING MATERIAL (Circle one)	HOURS PUMPED (nearest hour)
DESCRIPTION (Use additional sheets if needed) FROM TO check if water bearing	NO. OF BAGS 46 38 NO. OF POUNDS 45 96 72	PUMPING RATE (gal. per min.)
Dark Bran	GALLONS OF WATER  DEPTH OF GROUT SEAL (to nearest foot)	METHOD USED TO MEASURE PUMPING RATE
mica 0 90	from 48 TOP 52 ft. to 54 BOTTOM 58 ft. (enter 0 if from surface)	WATER LEVEL (distance from land surface)
	casing types insert appropriate CASING RECORD CONCRETE	WHEN PUMPING  TO THE TRANSPORT OF THE TR
Gray 90 165	appropriate code below PLASTIC OTHER	TYPE OF PUMP USED (for test)
schist	MAIN Nominal diameter Total depth CASING top (main) casing of main casing	A air P piston T turbine
White 165/67/	TYPE (nearest inch)! (nearest foot)  60 61 63 64 66 70	C centrifugal R rotary O (describe below)  J jet S submersible
00 40 65 10/14/	E OTHER CASING (if used) A diameter depth (feet)	J jet Submersible
Gray 167 200	C	PUMP INSTALLED  DRILLER INSTALLED PUMP  (CIRCLE) (YES or NO)
schien	N G - LL CORP.	IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.
	screen type or open hole ST BR HO	TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29.
	appropriate code below BRONZE HOLE PL OTT	CAPACITY: GALLONS PER MINUTE (to nearest gallon)  31  35
	C 2 DEPTH (nearest ft.)	PUMP HORSE POWER  37 41
NUMBER OF UNSUCCESSFUL WELLS:	12 AO 104 175	PUMP COLUMN LENGTH (nearest ft.)
WELL HYDROFRACTURED Yes N	E 8 9 11 15 17 21 C	CASING HEIGHT (circle appropriate box and enter casing height)
A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED	H 23 24 26 30 32 36 S C 3	LAND SURFACE    DZ (nearest)   foot)
P TEST WELL CONVERTED TO PRODUCTION	R 38 39 41 45 47 51 E.	LATITUDE 3 9 . 1 688690
I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONSTRUCTION" AND CONSTRUCTION AND CONSTRUCTI	DIAMETER (NEAREST	LONGITUDE 7 6 9528961
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.	OF SCREEN INCH) 56 60 from to	(DEFAULT COORD. WGS 84) Pursuant to \$10-624 of the State Govt. Article of
DRILLERS LIC. NO.1 M SD 007	GRAVEL PACK	the Maryand Code personal info. requested on this form is used in processing this form pursuant to COMAR 26.04.04. Failure to provide the info.
DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)	WAS FLOWING WELL INSERT F IN BOX 68 68	may result in this form not being processed. You have the right to inspect, amend, or correct this
LIC. NO. 1 D I	MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q	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
SITE SUPERVISOR (sign. of driller or journeyman	70 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.

COUNTY

MDE/WMA/PER.071

2 COUNTY

MDE/WMA/PER.071

Date: December 6, 2017, 2017

## FIELD DATE SHEET HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO-17-0191

Location of Property: Scaggsville Rd Highland, Md 20777

Subdivision: \_Estates @ Schooly Mill \_Lot: 6\_\_

Well Driller: Andrew Houseman Owner: Williamsburg Group

Depth of Well: 175'

Distance of measuring point (M.P.) above ground: \_3'\_\_

Static water level (S.W.L.) below M.P.: 18'

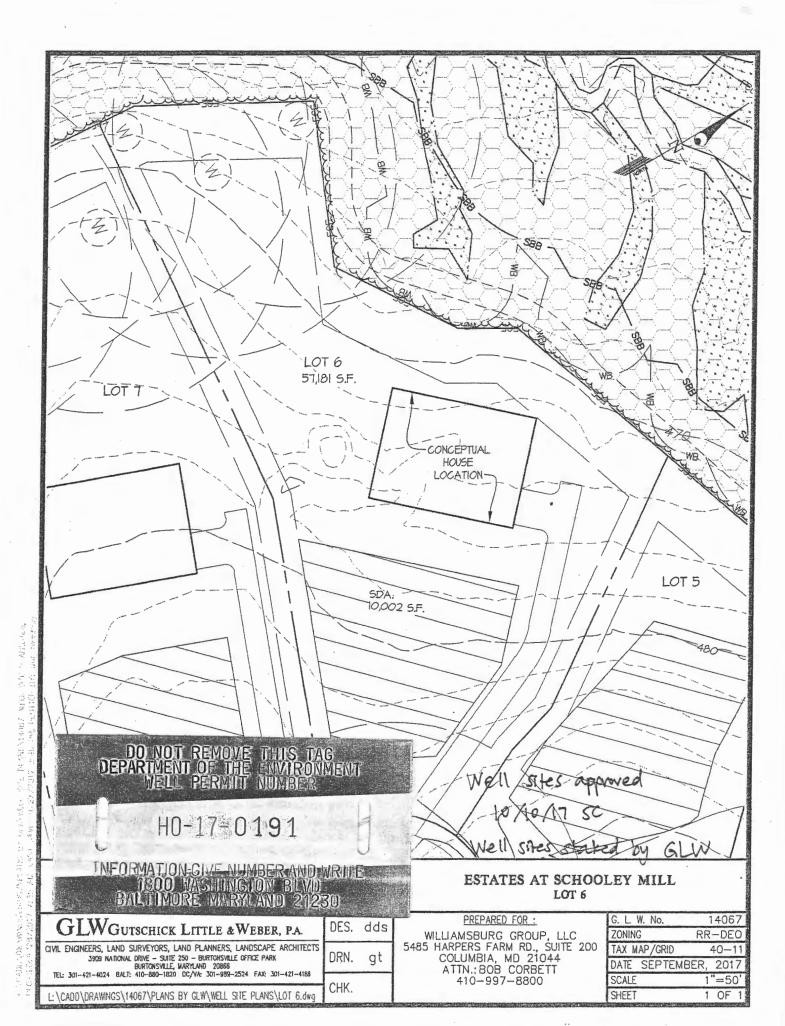
High rate pumping -reservoir Drawdown

Time pump started: 8:15 Pumping rate: 12 gpm

Total time <u>30 Mins</u> to reach pumping water level <u>40 ft</u>. below M.P.

Recovery pump test data - observations to be recorded every 15 minutes

TIME (in 15	WATER LEVEL	PUMPING RATE	FLOW METER	CALCULATED FLOW
minute intervals)	Below M.P.	Time to fill 1	READING	(gallons per
		gallon bucket	(if used)	minute)
8:15	18'	5 Seconds		12 gpm
8:30	36'	5 Seconds		12 gpm
8:45	40'	5 Seconds		12 gpm
9:00	40'	5 Seconds		12 gpm
9:15	40'	5 Seconds		12 gpm
9:30	40'	5 Seconds		12 gpm
9:45	40'	5 Seconds		12 gpm
10:00	40'	5 Seconds		12 gpm
10:15	40'	5 Seconds		12 gpm
10:30	40'	5 Seconds		12 gpm
10:45	40'	5 Seconds		12 gpm
11:00	40'	5 Seconds		12 gpm
11:15	40'	5 Seconds		12 gpm
11:30	40'	5 Seconds		12 gpm
,				
			,	





#### Bureau of Environmental Health

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

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

#### **MEMORANDUM**

DATE:

October 10, 2017

TO:

Allen Compten (MSD 009)

Fogle's Well Drilling

FROM:

Sarah Collins, L.E.H.S. SEC

Howard County Health Department

RE:

Estates at Schooley Mill

Well Permits

Please note the following special conditions for the wells at the Estates at Schooley Mill:

- 1. All wells require 50' of steel casing or 10' into competent bedrock, whichever is deeper.
- 2. All wells require a radium sample at the yield test.
- 3. Wells on lots 1 and 2 require volatile organic compounds (VOCs) sampling at the yield test.
- 4. Wells on lots 1, 3, 4, 7, and 9 require sodium, chloride, and total dissolved solids (TDS) sampling at the yield test.

Cc: File



13

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.

	import IIC
	Company Name: fooles WII Pump + water Treatment W. 410 795 5676  Address: 580 Object Rd
	Must circle one: Licensed Plumber / Kicensed Well Driller / Licensed Well Pump Installer
	License # and name of individual responsible for the field installation:
	Name (Print): DIA ( +GG) License# MSDZC6
	*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: WINAMSONA GRUD Telephone #:
	Subdivision: ESTATES @ SCHOOLY WILL LOT #: 10 Well Tag #: HO -17 - 019)
	Site Address: 7425 HOVEN Ct'
	Highand, mo 20777
	Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit
-	Submersible Pump Data  Make: CONO Del + Well Cap and Electric Conduit  Two piece watertight cap:
	Model #: 156007-760 Model#: NO Screened, vented well cap:
	Pump Capacity   GPM Depth: 20 1 (36" min) Cap secured to casing:
	Well Yield: 12 GPM NSF/WSC approved: VS Conduit min 18" B.G.: Conduit min 18" B.G.: Conduit secured to well case: VS
	Depth of well encountered at time of pump installation: \[ \frac{15}{15} \] (feet)  \text{Conduit secured to well caps: \[ \frac{15}{15} \]  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 House Connection
	Type: 1" poly pipe PVC sleeve to undisturbed soil at wall penetration: VCS PSI: 2(Y) (100 psi min) Length of sleeve(5' minimum from foundation): (//
•	PSI: 200 (160 psi/min)  Length of sleeve(5' minimum from foundation): 4/  Depth of supply line: 210" (36" min)  Length of sleeve(5' minimum from foundation): 4/  Sleeve sealed properly: 465
	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.
	$\mathcal{L}$
	1 de 19x 4/16/2020
	Signature of company representative responsible for installation date
	For Health Department Use Only - Not to be completed by Installer
	Date Insp. Requested: 17/1900 Date Insp. Approved: 04/13/2000 Inspector:
	Inspection Data: Pittess adapter watertight & water supply line at least 36" below grade
	Two piece cap installed and attached to casing securely
	Elec. conduit extends at least 18" below grade/attached to cap properly
	Safety rope not outside of well cap/casing  Correct well tag attached properly and casing 8" above finished grade
	Water supply line sleeved adequately at house connection
	Adequate grout observed below pitless adapter
	(Revised form 10/24/2018)
	CHANGED TO UNDER FOOTER
	SCEPUE PECOMMENDED
	μ συστο μ συστο μ συστο μ το μου το



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

# INTERIM CERTIFICATE OF POTABILITY PERMANENT DEVIATION FOR RADIUM

Expiration Date – January 22, 2021

July 22, 2020

Homeowner 7425 Haven Court Highland, MD 20777

RE:

Est. @ Schooley Mill, Lot 6

7425 Haven Court

Building Permit: B19002868 Well Permit: HO-17-0191

#### Dear Homeowner:

This is to advise you that the septic system installation and water well construction for the above referenced property have been inspected and approved. Final approval of the septic system was granted on 6/30/2020. Final approval of the well line connection to the dwelling was granted on 4/17/2020. The well construction was completed on 12/6/2017. Water samples were collected on 6/11/2020, 6/16/2020, 6/29/2020.

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 12/6/2017. Results showed a Gross Alpha level of  $17.2 \pm 2.9$  pCi/L and a Gross Beta level of  $11.6 \pm 2.2$  pCi/L. This exceeds the maximum contaminant level (MCL) combined Radium 226 and 228 of 5.0 pCi/L.

After installation of a radionuclide removal device (Water Softener), post-treatment water samples were collected on 7/7/2020 and indicated a combined Radium 226/228 level of <1.1 pCi/L which is below the MCL of 5 pCi/L.

This Department will grant a **permanent deviation** to the Interim Certificate of Potability on condition that the radionuclide removal system effectively maintains a Gross Alpha level of less than 15 pCi/L, a Gross Beta level of less than 50 pCi/L, and a Radium 226/228 level of less than 5 pCi/L.

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

- 1. 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 radionuclide analysis perform a <u>yearly</u> radionuclide analysis.

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



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

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.

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-17-0191. 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 Maryland 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: <a href="http://www.mde.state.md.us/assets/document/WSP-Labs-2010apr16.pdf">http://www.mde.state.md.us/assets/document/WSP-Labs-2010apr16.pdf</a>

In closing, please refer to our "<u>Homeowner Fact Sheet</u>" which illustrates a better understanding for your onsite sewage disposal system. You will also find a link to Maryland Department of the Environments website which describes in further detail operation and maintenance of your septic system.

Approving Authority,

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

Groundwater Management Section

- R. Half

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 #: 138338

Reference: Estates at Schooley Mill Lot 6

Location: 7425 Haven Court

Highland, MD 20777

Date/ Time Collected: 7/7/2020

Date/Time Rec'd:

Chlorine ppm:

Collected By:

7/7/2020 Free: ND 1420 1522

Total: ND

Source:

Account #:

Company:

Well Water Kitchen Sink Tap

Requested By: Bill McBride

4470

Site: Treatment:

Softener/Neutralizer

Williamsburg Homes LLC

5.8 pH:

J. Yeager 0819JY Well #: HO-17-0191

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Gross Alpha, Short Term	<2.2	pCi/L	15	900.0	7/10/2020 / 0636 / MJN
Gross Beta, Short Term	<3.0	pCi/L	50	900.0	7/10/2020 / 0636 / MJN
Gross Alpha, Long Term	<1.8	pCi/L	15	900.0	7/17/2020 / 0742 / MJN
Gross Beta, Long Term	<2.8	pCi/L	50	900.0	7/17/2020 / 0742 / MJN
Radium-226	<0.2	pCi/L	****	903.1	7/15/2020 / 1046 / MJN
Radium-228	< 0.9	pCi/L	***	Ra-05	7/15/2020 / 1046 / SN

#### **NOTES**

- \*\*\*\*Radium 226 and Radium 228 combined have a reference of 5 pCi/L 1
- Long Term Gross Alpha Detection Limit: 1.8 pCi/L; Long Term Gross Alpha Error: +/- 1.3 pCi/L 2
- Long Term Gross Beta Detection Limit: 2.8 pCi/L; Long Term Gross Beta Error: +/- 1.7 pCi/L 3
- 4 pCi/L = picocuries per liter
- Radium 226 Detection Limit: 0.2 pCi/L; Radium 226 Error: +/- 0.1 pCi/L 5
- Radium 228 Detection Limit: 0.9 pCi/L; Radium 228 Error: +/- 0.6 pCi/L 6
- Results less than or within the reference range are considered satisfactory and within potable water limits at the time of 7
- Short Term Gross Alpha Detection Limit: 2.2 pCi/L; Short Term Gross Alpha Error: +/- 1.5 pCi/L 8
- 9 Short Term Gross Beta Detection Limit: 3.0 pCi/L; Short Term Gross Beta Error: +/- 1.8 pCi/L
- ND:None Detected 10
- 11 Visual well check: Sealed, vented cap
- pH & Chlorine level tested on site

Reason for Test: Use & Occupancy B19002868 **Building Permit#:** 

Date Reported:

7/20/2020

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

## REPORT OF ANALYSIS

Laboratory ID #:

138337

Reference: Location:

Chlorine ppm:

Collected By:

Estates at Schooley Mill Lot 6

7425 Haven Court

Highland, MD 20777

Date/ Time Collected: 7/7/2020 Date/Time Rec'd:

7/7/2020

Free: ND

J. Yeager

1430 1522

> Total: ND 0819JY

Account #: Company:

4470

Williamsburg Homes LLC

Requested By: Bill McBride Source:

Well Water

Site:

Pressure Tank

Treatment:

pH: Well #:

5.8 HO-17-0191

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD.	DATE/TIME/ANALYST
Gross Alpha, Short Term	18.2	pCi/L	15	900.0	7/10/2020 / 0636 / MJN
Gross Beta, Short Term	19.2	pCi/L	50	900.0	7/10/2020 / 0636 / MJN
Gross Alpha, Long Term	6.7	pCi/L	15	900.0	7/17/2020 / 0742 / MJN
Gross Beta, Long Term	14.4	pCi/L	50	900.0	7/17/2020 / 0742 / MJN
Radium-226	3.7	pCi/L	****	903.1	7/15/2020 / 1046 / MJN
Radium-228	2.7	pCi/L	****	Ra-05	7/15/2020 / 1036 / SN

#### **NOTES**

- 1 \*\*\*\*Radium 226 and Radium 228 combined have a reference of 5 pCi/L
- Long Term Gross Alpha Detection Limit: 2.1 pCi/L; Gross Alpha Error: +/- 2.1 pCi/L 2
- Long Term Gross Beta Detection Limit: 2.8 pCi/L; Gross Beta Error: +/- 2.3 pCi/L 3
- pCi/L = picocuries per liter 4
- 5 pH & chlorine tested on site
- Radium 226 Detection Limit: 0.1 pCi/L; Radium 226 Error: +/- 0.3 pCi/L 6
- Radium 228 Detection Limit: 0.9 pCi/L; Radium 228 Error: +/- 0.8 pCi/L 7
- 8 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- Short Term Gross Alpha Detection Limit: 2.0 pCi/L; Gross Alpha Error: +/- 3.3 pCi/L 9
- Short Term Gross Beta Detection Limit: 3.0 pCi/L; Gross Beta Error: +/- 2.7 pCi/L 10
- ND:None Detected 11
- Visual well check: Sealed, vented cap 12
- 13 \*\*Sample collected prior to Softener & Neutralizer

Reason for Test:

Use & Occupancy

Building Permit #:

B19002868

Date Reported:

7/20/2020

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

## REPORT OF ANALYSIS

Laboratory ID #: 137775

Reference: Estates at Schooley Mill Lot 6

7425 Haven Court Location:

Highland, MD 20777

Date/ Time Collected: 6/11/2020

Date/Time Rec'd:

Chlorine ppm:

Collected By:

6/11/2020

Free: ND J. Yeager

1325 1530

> Total: ND 0819JY

Account #: Company:

Williamsburg Homes LLC

Requested By: Bill McBride

4470

Well Water Source:

Site:

Pressure Tank

Treatment: None 5.9 pH:

Well #: HO-17-0191

PARAMETERS	RESULTS	UNITS RE	PERENCE	METHOD D	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 m1	<1.0	SM20 9223B	6/12/2020 / 1030 / BCD
Bacteria, E. coli, MPN	<1.0 <b>&lt;</b> 1.0	MPN/ 100 ml	<1.0	SM20 9223B	6/12/2020 / 1030 / BCD
Nitrate	√ 4.91	mg/L	10	601	6/11/2020 / 1550 / CRS
Turbidity	/20,3	NTU	<10	SM20 2130B	6/11/2020 / 1645 / CRS
Sand	✓ ND	mg/L	5	Visual/Gravimetric	6/12/2020 / 0830 / CRS

#### **NOTES**

- mg/L = milligrams per liter (also, parts per million) 1
- MPN/100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample. 2
- NTU = Nephelometric Turbidity Units 3
- Results less than or within the reference range are considered satisfactory and within potable water limits at the time of 4 sampling.
- ND:None Detected 5
- Visual well check: Sealed, vented cap 6
- pH & Chlorine level tested on site

Reason for Test: Use & Occupancy **Building Permit#:** B19002868

Date Reported: 6/12/2020

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

## REPORT OF ANALYSIS

Laboratory ID #:

137850

Account #:

4470

Reference:

Estates at Schooley Mill Lot 6

Company:

Williamsburg Homes LLC

Location:

7425 Haven Court Highland, MD 20777

requester

Requested By: Bill McBride

Date/ Time Collected: 6/16/2020

1202

Source: Wel

Well Water

Date/ Time Conecte

16/2020 12

Site:

Pressure Tank

Date/Time Rec'd:

6/16/2020

1448 Total: ND

Treatment: pH:

None 6.1

Chlorine ppm: Collected By:

Free: ND J. Yeager

0819JY

Well #:

HO-17-0191

PARAMETERS	RESULTS	UNITS R	EFERENCE	METHOD 1	DATE/TIME/ANALYST
Turbidity	28.5	NTU	<10	SM20 2130B	6/16/2020 / 1640 / BCD
Iron	2.64	mg/L	0.3*	FR, 45 (126)	6/18/2020 / 0930 / CRS

#### **NOTES**

- 1 \*SMCL = Secondary Maximum Contaminant Level
- 2 mg/L = milligrams per liter (also, parts per million)
- 3 NTU = Nephelometric Turbidity Units
- 4 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 5 ND:None Detected
- 6 Visual well check: Sealed, vented cap
- 7 pH & Chlorine level tested on site

Reason for Test:

Use & Occupancy

**Building Permit#:** 

B19002868

Date Reported:

6/19/2020

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

FAX (410) 848-0298

## REPORT OF ANALYSIS

Laboratory ID #:

138147

Account #:

4470

Reference:

Estates at Schooley Mill Lot 6

Company:

Williamsburg Homes LLC

Location:

7425 Haven Court

Highland, MD 20777

Source:

Requested By: Bill McBride

Date/ Time Collected: 6/29/2020

1220

Well Water

Date/Time Rec'd:

6/29/2020

1445

Site: Treatment: Kitchen Corner Sink

Total: ND

Softener/Neutralizer

Chlorine ppm: Collected By:

Free: ND J. Yeager

0819JY

pH: Well #:

HO-17-0191

6.8

**PARAMETERS** Iron

RESULTS UNITS 0.13

mg/L

0.3\* FR, 45 (126)

REFERENCE METHOD

DATE/TIME/ANALYST 6/30/2020 / 1520 / CRS

Turbidity

1.04 NTU <10

SM20 2130B

6/30/2020 / 1030 / BCD

#### **NOTES**

- \*SMCL = Secondary Maximum Contaminant Level 1
- 2 NTU = Nephelometric Turbidity Units
- Results less than or within the reference range are considered satisfactory and within potable water limits at the time of 3 sampling.
- ND:None Detected 4
- 5 Visual well check: Sealed, vented cap
- pH & Chlorine level tested on site 6

Reason for Test:

Use & Occupancy

Building Permit #:

B19002868

Date Reported:

6/30/2020



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

**April 20, 2018** 

Williamsburg Group LLC 5485 Harpers Farm Road Columbia, Maryland 21044

> RE: Estates at Schooley Mill Lot 6 Scaggsville Road Well Tag: HO - 17 - 0191

Dear Williamsburg Group:

A sample was collected during a yield test on December 6, 2017 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 17.2  $\pm$  2.9 picocuries/liter (pCi/L), while the Gross Beta level was 11.6  $\pm$  2.2 pCi/L. The Gross Alpha result was above 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 does not meet EPA regulatory standards. Additional testing for these parameters will be required to secure the future Use & Occupancy. Additional raw water samples for short and long term Gross Alpha and Gross Beta, plus Radium 226 / 228 will be needed to assess any future treatment needs. Alternatively, treatment such as a water softener system or point of use reverse osmosis (R/O) could be considered. If installed, post-treated sampling for short and long term Gross Alpha, Gross Beta and Radium 226 / 228 will be needed. Please note that other standard testing parameters (bacteria, nitrate, turbidity and sand) will still be required 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 or to schedule additional testing.

Sincerely,

Bert Nixon, Director Bureau of Environmental Health

Enclosure cc: Property file

AND REPORT TO: BENT NIXM Howard County Health Dept 3ureau 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

Lab No.					
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		2.1			

#### LABORATORY ANALYSIS REQUEST FORM

Plant/Site Name:	states (	also G	opley Mill	Lot G	Count	y: Howa	wd	
Sample Source:	ca agen	lle	Rd.	Highland	Locat		ell no., lab sink, san	
Radon-222 Bo	ottle A	6.0		Radon-2	222 Field Blank	Bottle	: A	~
	ottle B				•		В	
			, ,					
County 13	ak v			Plant No	о.			
CHECK (one per Box)								
- 1011	<b>S</b> /				Point of Collection ee (Raw) bution (treated)	<b>\$</b>	Testin Emergency Routine Recheck Special	g <i>y</i>
Submitters Code:				Fe	ederal Project:	S		
Collector: S.	Callur	<		T	elephone No.:	410-313.	6287	
Date Collected:					ime Collected:	10		p.m.
	11101	1-1						T.
Field pH:	-			F1	ield Chlorine:			
Nitric Acid Preserve	ed.	Yes	./ No	Ic	ed: Yes	No No		
Trible Field Flescrive	,	105	110			110		
Remarks: Sau	male	stecte	d during	weld test				
	1,	EPA	J	· · · · · ·	1	1	1	Date
TEST TEST	1	Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Reported
Gross Alpha		4000	1109	EPA 900,0	172=29	12.18/17	1214	12/12/17
□ Gross Beta		4100	1109	ER1900.0	11.6-2.2	1 1	24	12/12/12
□ Radium-226		4020	1101	CD. 10010	111-0-010	10 11.		11
□ Radium-228		4030						
□ Total Uranium		4006						
□ Radon-222 (Bo	ottle A)	4004						
□ Radon-222 (Bo	ttle B)	4004				4		
□ Radon Field Bl	ank A	4004						
□ Radon Field Bl	ank B	4004						
□ Tritium								
Plan Ma	11.10	E	1109	EPAGOOD	18743.3	12/11/17	77	17/12/19
D Gross All	1	10	1100	EDAGANO	15 6+2.5	12/ /12	- The	12/12/12
621055 Br	72 ( ()	77	1101	ETH JUNE	13.6-43	1411/11		14141
Date Received:	1	210711	<b>a</b>	Received By:	In 3	7		
Data Release Signat	ture:		Til	1		Date:	12	12 17
	4			-)			ŧ	1
	and the same of th			THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	The second secon	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
		Jse Only		J Ye	s No	N/A		
Sample Intact upon ar		Jse Only	7	J Ye	s No	N/A		
Sample Intact upon ar Sample pH <2.0? Received within holdi	rival?	Jse Only		) Ye	s No	N/A		

Lot 6 FILE INQUIRY NOTES Property RESULTS OF REVIEW FOR FILE he Well installed this k have Steel casing installed to at least 50 feet depth, 0 10 feet into competent 10/11/17 Discussed special conditions on well permit with Athen Compton via phone (C) he septic system on his Lot must include a BAl uni must have LPD design or