

C1 42392

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT FILL IN THIS FORM COMPLETELY PLEASE TYPE

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

COUNTY NUMBER

ST/CO USE ONLY DATE RECEIVED MM DD YY 11/14/17

DATE WELL COMPLETED MM DD YY 11/3/17

Depth of Well 22 400 26 (TO NEAREST FOOT)

OK 12/29/17 SC

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-17-0190

OWNER Williamsburg Group last name first name TOWN Highland WELLSITE ADDRESS Scaddsville RD SUBDIVISION Estates @ Schoolly Mill SECTION LOT 5

WELL LOG Not required for driven wells

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

Table with columns: DESCRIPTION (Use additional sheets if needed), FEET (FROM, TO), check if water bearing. Rows include: Light brown to Dark brown (0-40), Gray Schist (40-250), White (250-251), Gray Schist (251-360), White (360-361), Gray Schist (361-400).

GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box) YES (Y) NO (N)

TYPE OF GROUTING MATERIAL (Circle one) CEMENT (CM) BENTONITE CLAY (BC) NO. OF BAGS 20 NO. OF POUNDS 1850 GALLONS OF WATER 120 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 52 ft.

CASING RECORD MAIN CASING TYPE (ST) Nominal diameter top (main) casing (nearest inch) 06 Total depth of main casing (nearest foot) 54

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

SCREEN RECORD screen type or open hole (HO) insert appropriate code below

DEPTH (nearest ft.) HO 54 400

NUMBER OF UNSUCCESSFUL WELLS: 0 WELL HYDROFRACTURED YES (Y) NO (N)

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

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

DRILLERS LIC. NO. MSB 009 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. D

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

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q 70 72 74 75 76

TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST

HOURS PUMPED (nearest hour) 3/4 PUMPING RATE (gal. per min.) 4. METHOD USED TO MEASURE PUMPING RATE 1 gal WATER LEVEL (distance from land surface) BEFORE PUMPING 43 ft. WHEN PUMPING 292 ft. TYPE OF PUMP USED (for test) S submersible

PUMP INSTALLED DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES NO

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 36 PUMP HORSE POWER 37 41 PUMP COLUMN LENGTH (nearest ft.) 43 47 CASING HEIGHT (circle appropriate box and enter casing height) + above LAND SURFACE - below 02 (nearest foot)

LATITUDE 39.1690598 LONGITUDE 76.9509048 (DEFAULT COORD. WGS 84)

Pursuant to §10-624 of the State Govt. Article of the Maryland Code personal info. requested on this form is used in processing this form pursuant to COMAR 26.04.04. Failure to provide the info. may result in this form not being processed. You have the right to inspect, amend, or correct this form. The Maryland Department of the Environment is subject to the Maryland Public Information Act. This form may be made available on the Internet via MDE's website and is subject to inspection or copying, in whole or in part, by the public and other governmental agencies, if not protected by federal or state law.

**B 1** SEQUENCE NO. (MDE USE ONLY) **56870** STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL STATE PERMIT NUMBER **H0-17-0190**

please type **5615201** **70** fill in this form completely **79**

**B 2** OWNER INFORMATION

Date Received (APA) **9/11/17**

8 MM DP YY 13

15 Last Name **Williamsburg Group** Owner First Name **34**

36 **5485 Harpers Farm RD** Street or RFD **55**

57 **Columbia Md 21044** Town 70 State 72 Zip 76

**B 3** LOCATION OF WELL

**Howard** COUNTY **21**

**Estates at Schooly Mill** SUBDIVISION **42**

SECTION **44 46** LOT **5** **48 50**

**Highland** NEAREST TOWN **71**

**B 2** DRILLER INFORMATION

Driller's Name **Allen Compton** License No. **M SD 009 76 81**

Firm Name **Fogles well Drilling, LLC**

Address **P.O. Box 302 Woodbine Md 2097**

Signature **Allen Compton** Date **9-8-17**

**B 4** SOURCES OF DRILLING WATER

1. **Well water**

2.

3.

**Scaggsville RD** STREET ADDRESS **30**

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

**34 175 37** DISTANCE FROM ROAD **38 39**

ENTER FT OR MI

TAX MAP: **40** BLK: **11** PARCEL **93**

**B 2** WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.) **5** **8 12**

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) **500** **14 20**

**USE FOR WATER** (CIRCLE APPROPRIATE BOX)

DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION

FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)

INDUSTRIAL, COMMERCIAL, DEWATERING

PUBLIC WATER SUPPLY WELL

TEST, OBSERVATION, MONITORING

OPEN LOOP GEOTHERMAL

CLOSED LOOP GEOTHERMAL

**NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL**

**Howard** COUNTY NAME **(13)** COUNTY NO. **41**

STATE SIGNATURE \_\_\_\_\_ INSERT S →

DATE ISSUED **10/10/17** CO SIGNATURE **Sal L.H.** EXP. DATE **10/10/18**

43 MM DD YY 48

**DON: 11/2/17 (SO) DOY: 11/3/17 (SO) DOG: 11/6/17 (SO)**

APPROXIMATE DEPTH OF WELL **300** FEET **24 28**

APPROXIMATE DIAMETER OF WELL **6** INCH **NEAREST**

PROPOSED LOCATION OF WELL ON LOT

SHOW PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL

**METHOD OF DRILLING** (circle one)

BORED (or Augered) **JETTED** **Jettied & DRIVEN**

**AIR-ROTARY** **AIR-PERCussion** **ROTARY (Hydraulic Rotary)**

**CABLE** **REVerse-ROTary** **DRive-POINT**

other \_\_\_\_\_



**REPLACEMENT OR DEEPEMED WELLS** (CIRCLE APPROPRIATE BOX)

THIS WELL WILL NOT REPLACE AN EXISTING WELL

THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED

THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS

THIS WELL WILL DEEPEM AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) **41** \_\_\_\_\_ **52**

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

APPROP. PERMIT NUMBER \_\_\_\_\_ **G** \_\_\_\_\_

PERMIT No. **H0-17-0190** **70 71 72 73 74 75 76 77 78 79**

**SPECIAL CONDITIONS**

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED- **See attached memo.**



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

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

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

Company Name: Foaks Well Pump & Water Treatment, LLC Telephone #: 410 795 5770  
 Address: 5880 Dyrecht Rd  
Sikesville, 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): David C Foale License# MSD226

\*A licensed individual must perform the actual installation. Apprentices must be under the supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification. Unlicensed individuals may be reported to the appropriate licensing agency.

Name of Property Owner: Williamshurg Group Telephone #: \_\_\_\_\_  
 Subdivision: Est 2 Schooley mini Lot #: 5 Well Tag #: HO-17-0190 (S)  
 Site Address: 7424 Haven Ct  
Fulton, MD 20759

**Submersible Pump Data**

Make: Grundfos  
 Model #: 1530E10-220  
 Pump Capacity: 15  
 Well Yield: 4

**Pitless Adapter**

Make: Campbell +  
 Model #: NA  
 GPM Depth: 36" (36" min)  
 GPM NSF/WSC approved: Y/S

**Well Cap and Electric Conduit**

Two piece watertight cap: Y/S  
 Screened, vented well cap: Y/S  
 Cap secured to casing: Y/S  
 Conduit min 18" B.G.: Y/S  
 Conduit secured to well cap: Y/S

Depth of well encountered at time of pump installation: 400 (feet)  
 If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4

Must circle one: Torque arrestors / Cable guards / Other acceptable method used  
 Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing NA

**Piping to house**

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

**House Connection**

PVC sleeve to undisturbed soil at wall penetration: Y/S  
 Length of sleeve (5' minimum from foundation): 6'  
 Sleeve sealed properly: Y/S

The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative responsible for installation: David C Foale date: 3/25/21

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

Date Insp. Requested: 3/25/21 Date Insp. Approved: 3/25/21 Inspector: (21)  
 Inspection Data:  
 Pitless adapter watertight & water supply line at least 36" below grade Y/S 60"  
 Two piece cap installed and attached to casing securely Y/S  
 Elec. conduit extends at least 18" below grade/attached to cap properly Y/S  
 Safety rope not outside of well cap/casing Y/S  
 Correct well tag attached properly and casing 8" above finished grade Y/S  
 Water supply line sleeved adequately at house connection Y/S  
 Adequate grout observed below pitless adapter Y/S

(Revised form 10/24/2018)

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

**INTERIM CERTIFICATE OF POTABILITY**  
**PERMANENT DEVIATION FOR RADIUM**

Expiration Date – January 7, 2022

July 7, 2021

Homeowner  
7429 Haven Court  
Highland, MD 20777

**RE:** Est. @ Schooley Mill, Lot 5  
7429 Haven Court  
**Building Permit: B20003595**  
**Well Permit: HO-17-0190**

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 **7/2/2021**. Final approval of the well line connection to the dwelling was granted on **3/25/2021**. The well construction was completed on **11/3/2017**. Water samples were collected on **6/8/2021**.

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 **1/19/2018**. Results showed a Gross Alpha level of **24.1 ± 4.1 pCi/L** and a Gross Beta level of **31.8 ± 3.1 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 (Reverse Osmosis/Water Softener), post-treatment water samples were collected on **6/23/2021** 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 yearly radionuclide analysis.

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

3. If you decide to sell or rent your home in the future, you must 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-17-0190. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

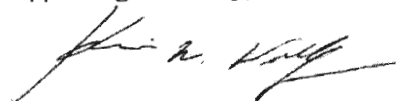
This Interim Certificate of Potability will expire **six months** from the date of issuance. Submission of a second bacteriological test indicating the water is free of coliform and fecal coliform bacteria is required prior to the expiration date, after which time a Final Certificate of Potability will 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:

<http://www.mde.state.md.us/assets/document/WSP-Labs-2010apr16.pdf>

In closing, please refer to our "[Homeowner Fact Sheet](#)" 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  
Well & Septic Program

cc: Howard County Dept. of Inspections, Licenses, and Permits  
Community Hygiene Program  
File

# FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

## REPORT OF ANALYSIS

Laboratory ID #: 145429 Account #: 4470  
Reference: Estates at Schooley Mill Lot 5 Company: Williamsburg Homes LLC  
Location: 7429 Haven Court Requested By: Bill McBride  
Highland, MD 20777 Source: Well Water  
Date/ Time Collected: 6/23/2021 1230 Site: R/O Tap  
Date/Time Rec'd: 6/23/2021 1448 Treatment: Reverse Osmosis/Softener  
Chlorine ppm: Free: ND Total: ND pH: 6.9  
Collected By: J. Yeager 0819JY Well #: HO-17-0190

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Gross Alpha, Short Term	<0.5	pCi/L	15	900.0	6/26/2021 / 0604 / MJN
Gross Beta, Short Term	2.8	pCi/L	50	900.0	6/26/2021 / 0604 / MJN
Radium-226	0.3	pCi/L	****	903.1	7/2/2021 / 1046 / MJN
Radium-228	<0.8	pCi/L	****	Ra-05	7/1/2021 / 1251 / SN

### NOTES:

- \*\*\*\*Radium 226 and Radium 228 combined have a reference of 5 pCi/L
- pCi/L = picocuries per liter
- Radium 226 Detection Limit: 0.2 pCi/L; Radium 226 Error: +/- 0.2pCi/L
- Radium 228 Detection Limit: 0.8 pCi/L; Radium 228 Error: +/- 0.6 pCi/L
- 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: 0.5 pCi/L; Short Term Gross Alpha Error: +/- 0.4 pCi/L
- Short Term Gross Beta Detection Limit: 0.7 pCi/L; Short Term Gross Beta Error: +/- 0.6 pCi/L
- ND:None Detected
- pH & Chlorine level tested on site
- Visual well check: Sealed, vented cap

Reason for Test : Use & Occupancy  
Building Permit # : 20003595

Date Reported: 7/2/2021

# FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

## REPORT OF ANALYSIS

Laboratory ID #: 145052 Account #: 4470  
Reference: Estates at Schooley Mill Lot 5 Company: Williamsburg Homes LLC  
Location: 7429 Haven Court Requested By: Bill McBride  
Highland, MD 20777 Source: Well Water  
Date/ Time Collected: 6/8/2021 1300 Site: Pressure Tank  
Date/Time Rec'd: 6/8/2021 1422 Treatment: None  
Chlorine ppm: Free: ND Total: ND pH: 6.8  
Collected By: J. Yeager 0819JY Well #: HO-17-0190

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Gross Alpha, Short Term	23.5	pCi/L	15	900.0	6/11/2021 / 1834 / MJN
Gross Beta, Short Term	26.0	pCi/L	50	900.0	6/11/2021 / 1834 / MJN
Gross Alpha, Long Term	13.3	pCi/L	15	900.0	6/17/2021 / 1211 / MJN
Gross Beta, Long Term	26.1	pCi/L	50	900.0	6/17/2021 / 1211 / MJN
Radium-226	4.5	pCi/L	****	903.1	6/16/2021 / 1047 / MJN
Radium-228	9.8	pCi/L	****	Ra-05	6/15/2021 / 1123 / SN

### NOTES:

- \*\*\*\*Radium 226 and Radium 228 combined have a reference of 5 pCi/L
- Long Term Gross Alpha Detection Limit: 1.3 pCi/L; Gross Alpha Error: +/- 1.8 pCi/L
- Long Term Gross Beta Detection Limit: 1.0 pCi/L; Gross Beta Error: +/- 1.2 pCi/L
- pCi/L = picocuries per liter
- Radium 226 Detection Limit: 0.2 pCi/L; Radium 226 Error: +/- 0.6 pCi/L
- Radium 228 Detection Limit: 0.6 pCi/L; Radium 228 Error: +/- 1.1 pCi/L
- 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: 0.9 pCi/L; Gross Alpha Error: +/- 1.8 pCi/L
- Short Term Gross Beta Detection Limit: 0.8 pCi/L; Gross Beta Error: +/- 1.0 pCi/L
- Sub-contracted to Reference Lab #278
- ND:None Detected
- pH & Chlorine level tested on site
- Visual well check: Sealed, vented cap

Reason for Test : Use & Occupancy  
Building Permit # : 20003595

Date Reported: 6/18/2021

# FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

## REPORT OF ANALYSIS

Laboratory ID #: 145051 Account #: 4470  
Reference: Estates at Schooley Mill Lot 5 Company: Williamsburg Homes LLC  
Location: 7429 Haven Court Requested By: Bill McBride  
Highland, MD 20777 Source: Well Water  
Date/ Time Collected: 6/8/2021 1300 Site: Pressure Tank  
Date/Time Rec'd: 6/8/2021 1422 Treatment: None  
Chlorine ppm: Free: ND Total: ND pH: 6.8  
Collected By: J. Yeager 0819JY Well #: HO-17-0190

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	6/9/2021 / 0900 / CRS
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	6/9/2021 / 0900 / CRS
Nitrate	<1.0	mg/L	10	601	6/8/2021 / 1520 / CRS
Sand	ND	mg/L	5	Visual/Gravimetric	6/8/2021 / 1425 / TSD
Turbidity	8.53	NTU	<10	SM20 2130B	6/8/2021 / 1550 / TSD

### NOTES:

- 1 mg/L = milligrams per liter (also, parts per million)
- 2 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 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 pH & Chlorine level tested on site
- 7 Visual well check: Sealed, vented cap

Reason for Test : Use & Occupancy

Building Permit # : 20003595

Date Reported: 6/9/2021

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

January 19, 2018

**Williamsburg Group**  
5485 Harpers Farm Road  
Columbia, Maryland 21044

**RE: Estates at Schooley Mill Lot 5**  
Scaggsville Road  
Well Tag: HO - 17 - 0190

Dear Williamsburg Group:

A sample was collected during a yield test on November 3, 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  $24.4 \pm 4.1$  picocuries/liter (pCi/L), while the **Gross Beta** level was  $31.8 \pm 3.1$  pCi/L. The **Gross Alpha** result was above its **maximum contaminant level (MCL)** of 15 pCi/L, while the **Gross Beta** level was below (though higher than normal) 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

SEND REPORT TO: Bert Nixon

Howard County Health Dept  
Bureau 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. \_\_\_\_\_

**LABORATORY ANALYSIS REQUEST FORM**

Plant/Site Name: Estates @ Schwankey Mill - Lot 5 County: Howard

Sample Source: Scaggsville Rd. Fulton Location: HO-17-0190  
(Well no., lab sink, sample tap, etc.)

Radon-222 Bottle A \_\_\_\_\_ Radon-222 Field Blank Bottle A \_\_\_\_\_  
Bottle B \_\_\_\_\_ Bottle B \_\_\_\_\_

County: 13 Plant No. \_\_\_\_\_

CHECK (one per Box)

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

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

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

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

Submitters Code: \_\_\_\_\_ Federal Project: 5

Collector: S. Collins Telephone No.: 410-313-6287

Date Collected: 11/3/17 Time Collected: \_\_\_\_\_ a.m. 3 p.m.

Field pH: \_\_\_\_\_ Field Chlorine: \_\_\_\_\_

Nitric Acid Preserved: Yes  No  Iced: Yes  No

Remarks: Sample collected during yield test

<input checked="" type="checkbox"/>	TEST	EPA Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Date Reported
<input checked="" type="checkbox"/>	Gross Alpha	4000	DE97	EPA 900.0	24.4 ± 4.1	11/2/17	JT	11/9/17
<input checked="" type="checkbox"/>	Gross Beta	4100	DE97	EPA 900.0	31.2 ± 3.1	11/2/17	JT	11/9/17
<input type="checkbox"/>	Radium-226	4020						
<input type="checkbox"/>	Radium-228	4030						
<input type="checkbox"/>	Total Uranium	4006						
<input type="checkbox"/>	Radon-222 (Bottle A)	4004						
<input type="checkbox"/>	Radon-222 (Bottle B)	4004						
<input type="checkbox"/>	Radon Field Blank A	4004						
<input type="checkbox"/>	Radon Field Blank B	4004						
<input type="checkbox"/>	Tritium							
<input type="checkbox"/>	Gross Alpha - DUP		DE97	EPA 900.0	25.4 ± 4.0	11/2/17	JT	11/9/17
<input type="checkbox"/>	Gross Beta - DUP		DE97	EPA 900.0	32.7 ± 3.1	11/2/17	JT	11/9/17

Date Received: 11/6/17 Received By: JT Date: 11-09-17

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

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

FORM REVISED 05/15  
DHMH 4540 05/17

PROGRAM COPY

SEND REPORT TO: Bert Nixon

Howard County Health Dept  
Bureau 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.

000895-6

LABORATORY ANALYSIS REQUEST FORM

Plant/Site Name: Field Blank

County: Howard

Sample Source: 4120

Location: HCHD Lab

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

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

Radon-222 Field Blank

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

County 13

Plant No. \_\_\_\_\_

CHECK (one per Box)

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

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

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

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

Submitters Code: \_\_\_\_\_

Federal Project: S

Collector: S. Collins

Telephone No.: 410-313-6287

Date Collected: 11/3/17

Time Collected: \_\_\_\_\_ a.m. 2 p.m.

Field pH: \_\_\_\_\_

Field Chlorine: \_\_\_\_\_

Nitric Acid Preserved: Yes  No

Iced: Yes  No

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

✓	TEST	EPA Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Date Reported
<input checked="" type="checkbox"/>	Gross Alpha	4000	0895	EPA 900.0	<2.0	11/7/17	IS	11/9/17
<input checked="" type="checkbox"/>	Gross Beta	4100	0895	EPA 900.0	<4.0	11/7/17	IS	11/9/17
<input type="checkbox"/>	Radium-226	4020						
<input type="checkbox"/>	Radium-228	4030						
<input type="checkbox"/>	Total Uranium	4006						
<input type="checkbox"/>	Radon-222 (Bottle A)	4004						
<input type="checkbox"/>	Radon-222 (Bottle B)	4004						
<input type="checkbox"/>	Radon Field Blank A	4004						
<input type="checkbox"/>	Radon Field Blank B	4004						
<input type="checkbox"/>	Tritium							
<input type="checkbox"/>								
<input type="checkbox"/>								

Date Received: 11/06/17

Received By: In 31

Data Release Signature: \_\_\_\_\_

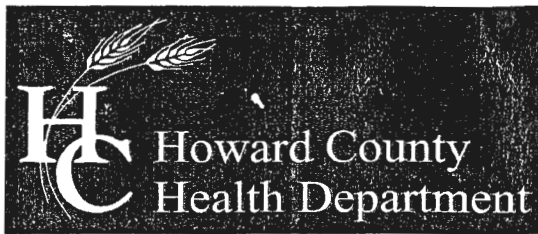
Date: 11-09-17

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

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

FORM REVISED 05/15  
DHMH 4540 05/17

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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

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***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

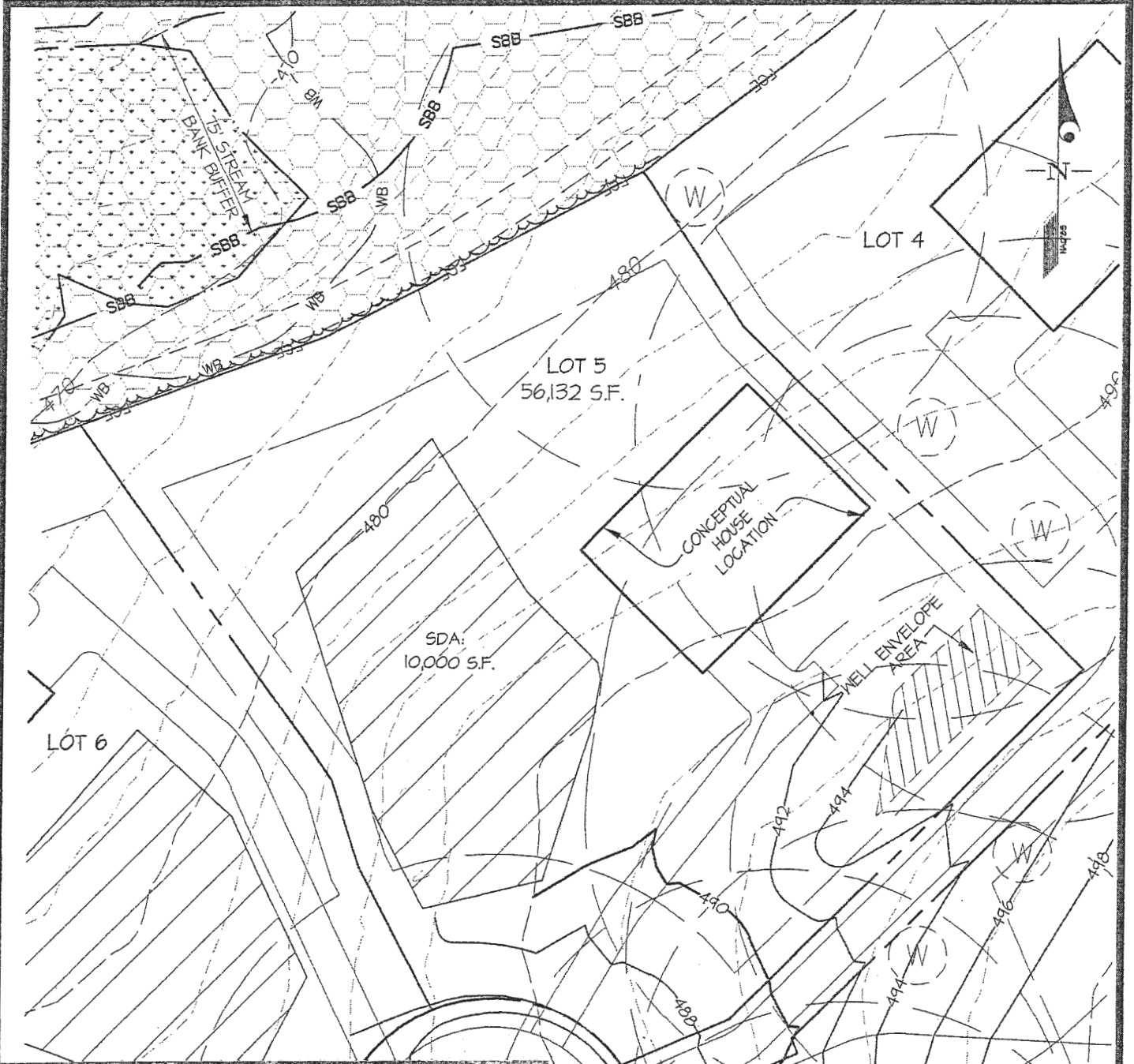
RE: Estates at Schooley Mill  
Well Permits

---

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*



**DO NOT REMOVE THIS TAG**  
**DEPARTMENT OF THE ENVIRONMENT**  
**WELL PERMIT NUMBER**

**H0-17-0190**

**INFORMATION GIVE NUMBER AND WRITE**  
**1800 WASHINGTON BLVD**  
**BALTIMORE MARYLAND 21230**

*Well box allowed*  
*10/10/17 SC*  
*Well box staked by GLW*

**ESTATES AT SCHOOLEY MILL**  
**LOT 5**

**GLW GUTSCHICK LITTLE & WEBER, P.A.**  
 CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
 3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK  
 BURTONSVILLE, MARYLAND 20866  
 TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186

PREPARED FOR :  
 WILLIAMSBURG GROUP, LLC  
 5485 HARPERS FARM RD., SUITE 200  
 COLUMBIA, MD 21044  
 ATTN.: BOB CORBETT  
 410-997-8800

G. L. W. No.	14067
ZONING	RR-DEO
TAX MAP/GRID	40-11
DATE	SEPTEMBER, 2017
SCALE	1"=50'
SHEET	1 OF 1

L:\CADD\DRAWINGS\14067\PLANS BY GLW\WELL SITE PLANS\LOT 5.dwg

DES. dds  
 DRN. gt  
 CHK.

Hinkle  
Property

FILE INQUIRY NOTES

Lot 5

DATE	RESULTS OF REVIEW FOR FILE
------	----------------------------

7/27/15	The Well installed on this lot must have steel casing installed to at least 50 feet depth, OR 10 feet into competent bedrock, WHICHEVER IS DEEPER.
---------	--

10/11/17 Discussed special conditions on well permit with Allen Compton via phone. (S)

R Buckner

7/27/15	The Septic System on this Lot must include a BAT unit and all drainfields must have LPD design or equivalent
---------	--

R Buckner