

C1 52152 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)

COUNTY NUMBER

ST/CO USE ONLY DATE RECEIVED MM DD YY 11/28/17

DATE WELL COMPLETED MM DD YY 11/28/17 Depth of Well 500 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO-17-0187

OWNER Williamsburg Group last name TOWN Highland

WELL LOG Not required for driven wells

GROUTING RECORD

C 3 PUMPING TEST

Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Rows: Brown 0-33, Grey 33-380, Fracture 380-381, Grey 381-500.

WELL HAS BEEN GROUTED (Y) NO (N) TYPE OF GROUTING MATERIAL (CM) BENTONITE CLAY (BC) NO. OF BAGS 20 NO. OF POUNDS 120

HOURS PUMPED (nearest hour) 6 PUMPING RATE (gal. per min.) 1.8

CASING RECORD (ST) STEEL (CO) CONCRETE (PL) PLASTIC (OT) OTHER MAIN CASING TYPE (ST) Nominal diameter top (main) casing (nearest inch!) 06 Total depth of main casing (nearest foot) 52

WATER LEVEL (distance from land surface) BEFORE PUMPING 23 ft. WHEN PUMPING 205 ft.

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

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

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

SCREEN RECORD (ST) STEEL (BR) BRASS (PL) PLASTIC (HO) OPEN HOLE (OT) OTHER screen type or open hole (insert appropriate code below)

TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29 CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35

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

C 2 DEPTH (nearest ft.) 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76

PUMP HORSE POWER 37 41 PUMP COLUMN LENGTH (nearest ft.) 43 47 CASING HEIGHT (circle appropriate box and enter casing height) (+) above () below LAND SURFACE 3 (nearest foot)

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.

DIAMETER OF SCREEN (NEAREST INCH) from to GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68

LATITUDE 39.1682330 LONGITUDE 76.9513855 (DEFAULT COORD. WGS 84)

DRILLERS LIC. NO. 1 M SD 2224 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

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

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.

LIC. NO. 1 D SITE SUPERVISOR (sign. of driller or journeyman responsible for sitework if different from permittee)

TELESCOPE CASING LOG INDICATOR OTHER DATA

agencies, if not protected by federal or state law.

TAG: 11/28/17

B 1	SEQUENCE NO. (MDE USE ONLY) 56866	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL 561520 please type	STATE PERMIT NUMBER HO-17-0187 fill in this form completely
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OWNER INFORMATION

Date Received (APA) **09/11/17**

8 MM DD YY 13

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

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

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

B 3 LOCATION OF WELL

8 COUNTY **Howard** 21

23 SUBDIVISION **Estates at Schoddy Mill** 42

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

52 NEAREST TOWN **Highland** 71

DRILLER INFORMATION

Driller's Name **Allen Compton M S D 005** 76 License No. 81

Firm Name **Fogles Well Drilling, LLC**

Address **P.O. Box 202 Woodbine Md 21777**

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

B 4 SOURCES OF DRILLING WATER

1. **Well Water**

11 STREET ADDRESS **Scaggsville Rd** 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

NORTH WEST EAST SOUTH

34 **250** 37 DISTANCE FROM ROAD **FT**

ENTER FT OR MI 38 39

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

B 2 WELL INFORMATION

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

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

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

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

STATE SIGNATURE _____ INSERT S → 41

DATE ISSUED **10/10/17** CO SIGNATURE **CLC** EXP. DATE **10/10/18**

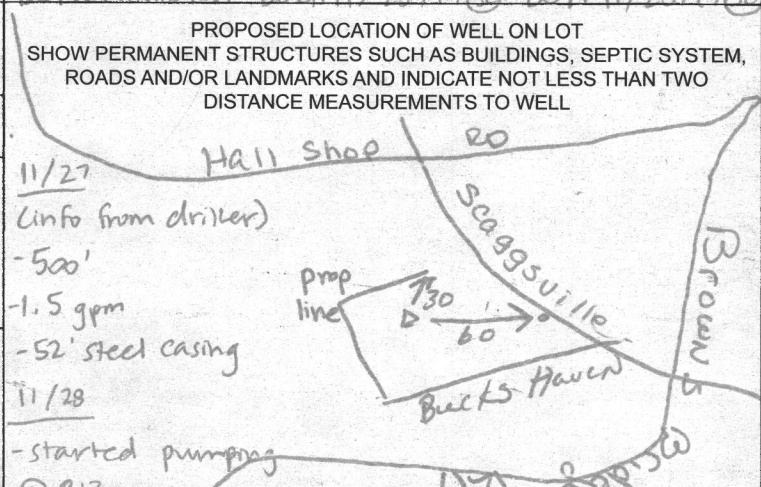
43 MM DD YY 48

no DNI

DOI: notification DOG: 11/28/17 DOI: 11/28/17

APPROXIMATE DEPTH OF WELL **300** FEET

APPROXIMATE DIAMETER OF WELL **6** INCH



METHOD OF DRILLING (circle one)

BORED (or Augered) AIR-ROTary

JETTED AIR-PERCussion

Jetted & DRIVEN ROTARY (Hydraulic Rotary)

CABLE REVERSE-ROTary

DRIVE-POINT

other _____

REPLACEMENT OR DEEPEINED 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 DEEPEIN AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE) 41 _____ 52

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

APPROP. PERMIT NUMBER _____ **G** _____

PERMIT No. **HO-17-0187**

70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

See attached memo Drill locations #2 + #3 first

Date: November 28, 2017

FIELD DATE SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO-17-0187Location of Property: Scaggsville Rd Highland, Md 20777Subdivision: Estates @ Schooly Mill Lot: 1Well Driller: Allen Compton/Andrew Houseman Owner: Williamsburg GroupDepth of Well: 500'Distance of measuring point (M.P.) above ground: 3'Static water level (S.W.L.) below M.P.: 23'

High rate pumping –reservoir Drawdown

Time pump started: 8:45 Pumping rate: 12 gpmTotal time 90 Mins to reach pumping water level 205ft. 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)	CALCULATED FLOW (gallons per minute)
8:45	23'	5 Seconds		12 gpm
9:00	87'	6 Seconds		10 gpm
9:15	149'	6 Seconds		10 gpm
9:30	175'	6 Seconds		10 gpm
9:45	189'	6 Seconds		10 gpm
10:00	199'	6 Seconds		10 gpm
10:15	205'	33 Seconds		1.8 gpm
10:30	205'	33 Seconds		1.8 gpm
10:45	205'	33 Seconds		1.8 gpm
11:00	205'	33 Seconds		1.8 gpm
11:15	205'	33 Seconds		1.8 gpm
11:30	205'	33 Seconds		1.8 gpm
11:45	205'	33 Seconds		1.8 gpm
12:00	205'	33 Seconds		1.8 gpm
12:15	205'	33 Seconds		1.8 gpm
12:30	205'	33 Seconds		1.8 gpm
12:45	205'	33 Seconds		1.8 gpm
1:00	205'	33 Seconds		1.8 gpm
1:15	205'	33 Seconds		1.8 gpm
1:30	205'	33 Seconds		1.8 gpm
1:45	205'	33 seconds		1.8 gpm
2:00	205'	33 Seconds		1.8 gpm
2:15	205'	33 Seconds		1.8 gpm
2:30	204'	33 Seconds		1.8 gpm
2:45	204'	33 Seconds		1.8 gpm
3:00	204'	33 Seconds		1.8 gpm
3:15	203'	33 Seconds		1.8 gpm
3:30	203'	33 Seconds		1.8 gpm
3:45	203'	33 Seconds		1.8 gpm
4:00	203'	33 Seconds		1.8 gpm
4:15	202'	33 Seconds		1.8 gpm

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: Fogles Well Pump & Water Treatment LLC Telephone #: 410 795 5670
 Address: 580 Obrecht Rd
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): David C Fogle 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: Williamsburg Homes Telephone #:
 Subdivision: Est 2 Schooley Mill Lot #: 1 Well Tag #: HO-17-0187
 Site Address: 7410 Haven Ct
Highland, MD 20777

07/10/2020

Submersible Pump Data

Make: Grundfos
 Model #: NS10422
 Pump Capacity: 7
 Well Yield: 1.8

Pitless Adapter

Make: Campbell +
 Model #: NA
 GPM Depth: 36' (36" min)
 GPM NSF/WSC approved: Y/S
 Depth of well encountered at time of pump installation: 500 (feet)

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

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: [Signature]

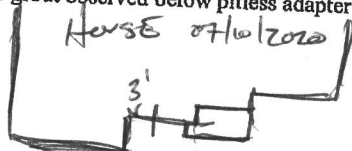
date: 7/10/2020

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

Date Insp. Requested: 07/10/2020 Date Insp. Approved: 07/10/2020 Inspector: [Signature]
 Inspection Data: Pitless 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

42" 07/10/2020
 35" 07/10/2020
 22" 07/10/2020
 19' 07/10/2020

(Revised form 10/24/2018)



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

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – MARCH 2, 2021

September 2, 2020

Homeowner
7410 Haven Court
Highland, MD 20777

RE: Est. @ Schooley Mill, Lot 1
7410 Haven Court
Building Permit: B20000092
Well Permit: HO-17-0187

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 **8/31/2020**. Final approval of the well line connection to the dwelling was granted on **7/10/2020**. The well construction was completed on **11/28/2017**. Water samples were collected on **8/17/2020, 8/27/2020**.

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 **11/28/2017**. Results showed a Gross Alpha level of **7.9 ± 1.8 pCi/L** and **Gross Beta** level of **11.0 ± 2.1 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-17-0187. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

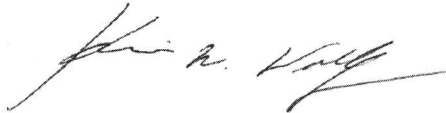
This Interim Certificate of Potability will expire **six months** from the date of issuance. Submission of a second bacteriological test indicating the water is free of coliform and fecal coliform bacteria is required prior to the expiration date, after which time a Final Certificate of Potability will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

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

Please contact (410) 313-1773 to schedule a final water sample appointment or contact a certified water quality laboratory to schedule a water sample. A list of laboratories certified by the state of Maryland may be found at the following website: <http://www.mde.state.md.us/assets/document/WSP-Labs-2010apr16.pdf>

In closing, please refer to our "Homeowner Fact Sheet" for understanding your onsite sewage disposal system. You will also find a link to Maryland Department of the Environment's website which elaborates in further detail operation and maintenance of your Septic System.

Approving Authority,



Kevin M Wolf, L.E.H.S., REHS/R.S., Supervisor
Groundwater Management Section
Well & Septic Program

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

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

REPORT OF ANALYSIS

Laboratory ID #: 139211 Account #: 4470
Reference: Estates at Schooley Mill Lot 1 Company: Williamsburg Homes LLC
Location: 7410 Haven Court Requested By: Bill McBride
Highland, MD 20777 Source: Well Water
Date/ Time Collected: 8/17/2020 1145 Site: Pressure Tank
Date/Time Rec'd: 8/17/2020 1425 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 7.3
Collected By: J. Yeager 0819JY Well #: HO-17-0187

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	22.2	MPN/ 100 ml	<1.0	SM20 9223B	8/18/2020 / 1045 / BCD
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	8/18/2020 / 1045 / BCD
Nitrate	<1.0	mg/L	10	601	8/18/2020 / 1040 / BCD
Turbidity	4.09	NTU	<10	SM20 2130B	8/18/2020 / 0950 / BCD
Sand	ND	mg/L	5	Visual/Gravimetric	8/18/2020 / 0900 / BCD

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 Visual well check: Sealed, vented cap
- 7 pH & Chlorine level tested on site

Reason for Test : Use & Occupancy

Building Permit # : 20000092

Date Reported: 8/18/2020

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

REPORT OF ANALYSIS

Laboratory ID #: 139469 Account #: 4470
Reference: Estates at Schooley Mill Lot 1 Company: Williamsburg Homes LLC
Location: 7410 Haven Court Requested By: Bill McBride
Highland, MD 20777 Source: Well Water
Date/ Time Collected: 8/27/2020 1120 Site: Pressure Tank
Date/Time Rec'd: 8/27/2020 1501 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 7.0
Collected By: J. Yeager 0819JY Well #: HO-17-0187

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	8/28/2020 / 1000 / LLO
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	8/28/2020 / 1000 / LLO

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
- 4 Visual well check: Sealed, vented cap
- 5 pH & Chlorine level tested on site

Reason for Test : Use & Occupancy
Building Permit # : 20000092

Date Reported: 8/28/2020

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 1
Scaggsville Road
Well Tag: HO - 17 - 0187

Dear Williamsburg Group:

A sample was collected during a yield test on November 28, 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 7.9 ± 1.8 picocuries/liter (pCi/L), while the **Gross Beta** level was 11.0 ± 2.1 pCi/L. The **Gross Alpha** result was above its **maximum contaminant level (MCL)** of 15 pCi/L, while the **Gross Beta** level was below 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 is **within** EPA regulatory standards. Additional testing **for these parameters** will not be required to secure the future Use & Occupancy. Please **note** that other standard testing parameters (bacteria, nitrate, turbidity and sand) will still be 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.

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: Eclatex @ Schaeley Mill - Lot 1 County: Howard

Sample Source: Seagrave Rd Highland Location: HO-17-0137

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

Radon-222 Bottle A _____ Radon-222 Field Blank _____ Bottle A _____
Bottle B _____ Bottle B _____

County 113 Plant No. _____

CHECK (one per Box)

Type	Service	Point of Collection	Testing
Drinking Water <input checked="" type="checkbox"/>	Community <input type="checkbox"/>	Source (Raw) <input checked="" type="checkbox"/>	Emergency <input type="checkbox"/>
Landfill <input type="checkbox"/>	Non-Community <input type="checkbox"/>	Distribution (treated) <input type="checkbox"/>	Routine <input checked="" type="checkbox"/>
Stream <input type="checkbox"/>	Private <input checked="" type="checkbox"/>	MCL <input type="checkbox"/>	Recheck <input type="checkbox"/>
Other _____ <input type="checkbox"/>	Other _____ <input type="checkbox"/>		Special <input type="checkbox"/>

Submitters Code: _____ Federal Project: 5

Collector: S. Collins Telephone No.: 410 311 2237

Date Collected: 11/28/17 Time Collected: 10 a.m. _____ 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 type="checkbox"/>	Gross Alpha	4000	1070	EPA 9100.10	7.9 ± 1.8	11/29/17	JJ	11/30/17
<input checked="" type="checkbox"/>	Gross Beta	4100	1070	EPA 9100.10	11.0 ± 2.1	11/29/17	JJ	11/30/17
<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: 11/28/17 Received By: _____

Data Release Signature: _____ Date: 11/30/17

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

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

FORM REVISED 05/15
DHMH 4540 05/17

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

February 20, 2018

Williamsburg Group, LLC
5485 Harpers Farm Road
Columbia, MD 21044

Re: Water sample results for Estates at Schooley Mill – Lot 1

Dear Homeowner,

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

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 the well measured 8.42 mg/L pre-treatment.**

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 the well measured 14 mg/L.** The secondary maximum contaminant level for TDS is 500 mg/L; **TDS from the well measured 123 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
410-313-6287

Cc: Community Hygiene Program
File

 WATER WELL ABANDONMENT-SEALING REPORT FORM

SUBMIT COPIES OF COMPLETED FORM TO:

- * COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
- * WELL OWNER
- * MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 11-8-17 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) — N/A —

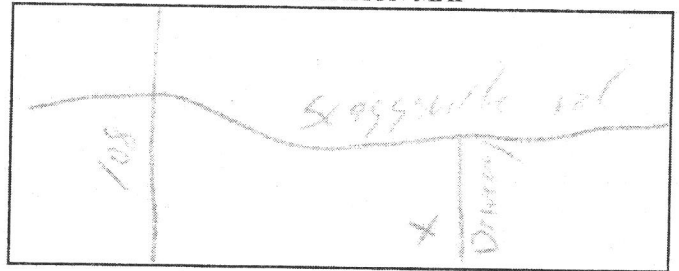
* PERMIT NUMBER OF REPLACEMENT WELL: — , —

* PERSON ABANDONING WELL: Andrew Houseman WELL DRILLER'S LICENSE NUMBER: 009

* OWNER'S NAME: Williamsburg Homes CIRCLE: MWD / MSD / MGD

* WELL LOCATION:
 COUNTY: Howard
 NEAREST TOWN: Highland
 TAX MAP 0040 BLOCK PARCEL 0093
 SUBDIVISION:
 SECTION: LOT:
 STREET ADDRESS: 12545 Scaggsville Rd

SITE LOCATION MAP



LATITUDE 39.1684074

LONGITUDE 76.9504089

LOG OF SEALING MATERIAL

MATERIAL	FEET	
	FROM	TO
<u>Bestwick</u>	<u>0</u>	<u>70</u>
VOLUME OF MATERIAL USED		
<u>20 bags</u>		

* TYPE OF WELL BEING ABANDONED:
 DRILLED JETTED
 BORED HAND DUG
 OTHER (specify)

* USE CODE:
 DOMESTIC MUNICIPAL/PUBLIC
 IRRIGATION INDUSTRIAL
 TEST/OBSERVATION GEOTHERMAL

* TYPE OF CASING:
 STEEL PLASTIC
 CONCRETE OTHER (specify)

SIZE OF CASING: 6 INCHES IN DIAMETER

DEPTH OF WELL: 70 FEET DEEP

WAS ANY CASING REMOVED? YES NO
 If yes, length removed, in feet:

WAS CASING RIPPED OR PERFORATED? YES NO

SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE#

MWD / MSD / MGS 11-8-17

CIRCLE ONE

DATE

DRILLER

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.

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION
 1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784

 WATER WELL ABANDONMENT-SEALING REPORT FORM

SUBMIT COPIES OF COMPLETED FORM TO:

- * COUNTY ENVIRONMENTAL AGENCY (contact MDE, WMA if address needed)
- * WELL OWNER
- * MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM

DATE WELL ABANDONED: 11-8-17 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any) N/A

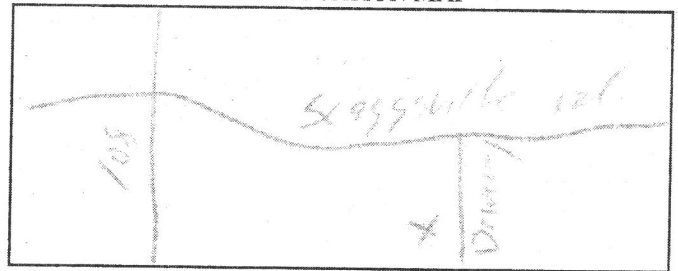
* PERMIT NUMBER OF REPLACEMENT WELL: _____

* PERSON ABANDONING WELL: Andrew Houseman WELL DRILLER'S LICENSE NUMBER: 009

* OWNER'S NAME: Williamsburg Homes CIRCLE: MWD / MSD / MGD

* WELL LOCATION:
 COUNTY: Howard
 NEAREST TOWN: Highland
 TAX MAP 0040 BLOCK _____ PARCEL 0093
 SUBDIVISION: _____
 SECTION: _____ LOT: _____
 STREET ADDRESS: 12545 Snagsville Rd

SITE LOCATION MAP



LATITUDE 3 9 . 1684074

LONGITUDE 7 6 . 9504089

LOG OF SEALING MATERIAL

MATERIAL	FEET	
	FROM	TO
<u>Bestark</u>	<u>0</u>	<u>70</u>
VOLUME OF MATERIAL USED		
<u>20 bags</u>		

* TYPE OF WELL BEING ABANDONED:
 DRILLED _____ JETTED
 BORED _____ HAND DUG
 OTHER (specify) _____

* USE CODE:
 DOMESTIC _____ MUNICIPAL/PUBLIC
 IRRIGATION _____ INDUSTRIAL
 TEST/OBSERVATION _____ GEOTHERMAL

* TYPE OF CASING:
 STEEL _____ PLASTIC
 CONCRETE _____ OTHER (specify) _____

SIZE OF CASING: 6 INCHES IN DIAMETER

DEPTH OF WELL: 70 FEET DEEP

WAS ANY CASING REMOVED? YES NO
 If yes, length removed, in feet: _____

WAS CASING RIPPED OR PERFORATED? YES NO

SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE# _____

MWD / MSD / MGS

CIRCLE ONE

DATE 11-8-17

DRILLER

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Send Report To: Bert Nixon

State of Maryland
DHMH - Laboratories Administration

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

Division of Environmental Sciences
TRACE METALS LABORATORY

1770 Ashland Avenue
Baltimore, Maryland 21205



E18002082001

Received: 11/28/2017

Metals

HO-17-0187

LABORATORY ANALYSIS REQUEST

Do not write above this line

Please Print

Sample ID No: HO-17-0187 Site Name: Estate @ Schinley Mill - Lot 1 County: Howard

Sample Source: Seagoville Rd Highland Collector: S. Collins
Street Town or City Name

Date Collected: 11/28/2017 Time Collected: 10 a.m./p.m. Phone #: 410-313-6287
ps - 11-28-17

Sample Preserved By: Field ESRL WMRL Central Lab
Preservative Used: HNO₃ _____ mL pH: <2

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

Specify Program: SDWA NPDES CWA RCRA Consumer Products Other _____

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

Remarks: Sample collected during yield test.

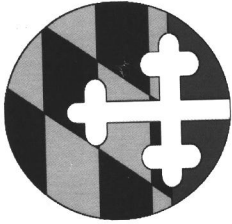
✓	Element	Lab Use	✓	Element	Lab Use	✓	Element	Lab Use
	Antimony (Sb)			Aluminum (Al)			Uranium (U)	
	Arsenic (As)			Calcium (Ca)			Vanadium (V)	
	Barium (Ba)			Cobalt (Co)			Zinc (Zn)	
	Beryllium (Be)			Copper (Cu)				
	Cadmium (Cd)			Iron (Fe)				
	Chromium (Cr)			Lead (Pb)				
	Mercury (Hg)			Magnesium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

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: E18002082 Date Coll.: 11/28/2017 Date Received: 11/28/2017 Submitted By: Collins

Field ID: HO-17-0187
Lab No.: E18002082001

<u>Method</u>	<u>Element</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
EPA 200.7	Sodium	8.42	ppm	02/05/2017

Comments:

Approved by: Yungtao Choi

Approval date: 12/06/2017

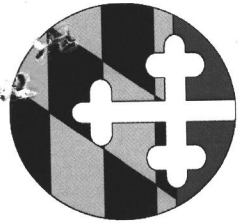
**The following methods are included in our A2LA Scope of Accreditation: EPA 200.7, EPA 200.8, EPA 245.1.

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Telephone: (443) 681 - 3853

Fax: (443) 681-4507

S:\EnviroFinal-Metals.rpt



State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
INORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director



Certificate of Analysis

HOWARD CO ENVIRONMENTAL HLTH
8930 STANFORD BLVD
COLUMBIA, MD 21045

Lab Project No: E18002081 Date Coll. 11/28/2017 Date Received 11/28/2017 Submitted By: S Collins

Field ID: HO-17-0187
Lab No.: E18002081003

<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
Chloride	SM 4500-Cl E	14	mg/L	12/01/2017
Total Dissolved Solids	SM 2540C	123	mg/L	12/01/2017

Comments:

Approved by: _____

Shahin Amini

Approval date: 12/08/2017

*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.

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Telephone: (443) 681 - 3855

Fax: (443) 681 - 4507

S:\EnviroFinal-InorganicsA.rpt



Certificate of Analysis

HOWARD CO ENVIRONMENTAL HLTH
 8930 STANFORD BLVD
 COLUMBIA, MD 21045

Method: EPA 524.2 VOCs and THMs

Lab. No: E18002087001

Date Received: 11/28/2017
 Field ID: HO170187

Date Collected: 11/28/2017
 Submitted By: S.Collins

Date Analyzed: 12/04/2017

<u>Contaminant</u>	<u>RL</u>	<u>MCL</u>	<u>Result</u>	<u>Contaminant</u>	<u>RL</u>	<u>MCL</u>	<u>Result</u>
REGULATED				2-Chlorotoluene	0.5		ND
1,1,1-Trichloroethane	0.5	200	ND	4-Chlorotoluene	0.5		ND
1,1,2-Trichloroethane	0.5	5	ND	Bromobenzene	0.5		ND
1,1-Dichloroethane	0.5	7	ND	Bromochloromethane	0.5		ND
1,2,4-Trichlorobenzene	0.5	70	ND	Bromomethane	0.5		ND
1,2-Dichlorobenzene	0.5	600	ND	Chloroethane	0.5		ND
1,2-Dichloroethane	0.5	5	ND	Chloromethane	0.5		ND
1,2-Dichloropropane	0.5	5	ND	cis-1,3-Dichloropropene	0.5		ND
1,4-Dichlorobenzene	0.5	75	ND	Dibromomethane	0.5		ND
Benzene	0.5	5	ND	Dichlorodifluoromethane	0.5		ND
Carbon Tetrachloride	0.5	5	ND	Ethyl-tert-Butyl Ether (ETBE)	0.5		ND
Chlorobenzene	0.5	100	ND	Hexachlorobutadiene	0.5		ND
cis-1,2-Dichloroethane	0.5	70	ND	Isopropylbenzene	0.5		ND
Ethylbenzene	0.5	700	ND	Methyl-tert-Butyl Ether (MTBE)	0.5		ND
m+p-Xylene	1.0		ND	Naphthalene	0.5		ND
Methylene Chloride	0.5	5	ND	n-Butylbenzene	0.5		ND
o-Xylene	0.5		ND	n-Propylbenzene	0.5		ND
Styrene	0.5	100	ND	p-Isopropyltoluene	0.5		ND
Tetrachloroethene	0.5	5	ND	sec-Butylbenzene	0.5		ND
Toluene	0.5	1000	3.62	tert-Amyl Methyl Ether (TAME)	0.5		ND
Total Xylenes	1.5	10000	ND	tert-Butylbenzene	0.5		ND
trans-1,2-Dichloroethene	0.5	100	ND	trans-1,3-Dichloropropene	0.5		ND
Trichloroethene	0.5	5	ND	Trichlorofluoromethane	0.5		ND
Vinyl Chloride	0.5	2	ND				
TRIHALOMETHANES							
Bromodichloromethane	0.5		ND				
Bromoform	0.5		ND				
Chloroform	0.5		ND				
Dibromochloromethane	0.5		ND				
TOTAL THMs		80	0.00				
UNREGULATED							
1,1,1,2-Tetrachloroethane	0.5		ND				
1,1,1,2,2-Tetrachloroethane	0.5		ND				
1,1-Dichloroethane	0.5		ND				
1,1-Dichloropropene	0.5		ND				
1,2,3-Trichlorobenzene	0.5		ND				
1,2,3-Trichloropropane	0.5		ND				
1,2,4-Trimethylbenzene	0.5		ND				
1,2-Dibromo-3-Chloropropane	0.5		ND				
1,2-Dibromoethane	0.5		ND				
1,3,5-Trimethylbenzene	0.5		ND				
1,3-Dichlorobenzene	0.5		ND				
1,3-Dichloropropane	0.5		ND				
2,2-Dichloropropane	0.5		ND				

Comments:

Approved by:

Approval date:

Sadia Muneeb

12/06/2017

*All results are in parts per billion (ppb); ND = Less than the detection level; na = not applicable; e = estimate

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Telephone: (443) 681 -3853 Fax: (443) 681-4507

S:\EnviroFinal-Organics.rpt



Certificate of Analysis

HOWARD CO ENVIRONMENTAL HLTH
 8930 STANFORD BLVD
 COLUMBIA, MD 21045

Lab. No: E18002087003

Method: EPA 524.2 VOCs and THMs

Date Received: 11/28/2017
 Field ID: H0170187TB

Date Collected: 11/28/2017
 Submitted By: S.Collins

Date Analyzed: 12/04/2017

<u>Contaminant</u>	<u>RL</u>	<u>MCL</u>	<u>Result</u>	<u>Contaminant</u>	<u>RL</u>	<u>MCL</u>	<u>Result</u>
REGULATED				2-Chlorotoluene	0.5		ND
1,1,1-Trichloroethane	0.5	200	ND	4-Chlorotoluene	0.5		ND
1,1,2-Trichloroethane	0.5	5	ND	Bromobenzene	0.5		ND
1,1-Dichloroethene	0.5	7	ND	Bromochloromethane	0.5		ND
1,2,4-Trichlorobenzene	0.5	70	ND	Bromomethane	0.5		ND
1,2-Dichlorobenzene	0.5	600	ND	Chloroethane	0.5		ND
1,2-Dichloroethane	0.5	5	ND	Chloromethane	0.5		ND
1,2-Dichloropropane	0.5	5	ND	cis-1,3-Dichloropropene	0.5		ND
1,4-Dichlorobenzene	0.5	75	ND	Dibromomethane	0.5		ND
Benzene	0.5	5	ND	Dichlorodifluoromethane	0.5		ND
Carbon Tetrachloride	0.5	5	ND	Ethyl-tert-Butyl Ether (ETBE)	0.5		ND
Chlorobenzene	0.5	100	ND	Hexachlorobutadiene	0.5		ND
cis-1,2-Dichloroethene	0.5	70	ND	Isopropylbenzene	0.5		ND
Ethylbenzene	0.5	700	ND	Methyl-tert-Butyl Ether (MTBE)	0.5		ND
m+p-Xylene	1.0		ND	Naphthalene	0.5		ND
Methylene Chloride	0.5	5	ND	n-Butylbenzene	0.5		ND
o-Xylene	0.5		ND	n-Propylbenzene	0.5		ND
Styrene	0.5	100	ND	p-Isopropyltoluene	0.5		ND
Tetrachloroethene	0.5	5	ND	sec-Butylbenzene	0.5		ND
Toluene	0.5	1000	ND	tert-Amyl Methyl Ether (TAME)	0.5		ND
Total Xylenes	1.5	10000	ND	tert-Butylbenzene	0.5		ND
trans-1,2-Dichloroethene	0.5	100	ND	trans-1,3-Dichloropropene	0.5		ND
Trichloroethene	0.5	5	ND	Trichlorofluoromethane	0.5		ND
Vinyl Chloride	0.5	2	ND				
TRihalOMETHANES							
Bromodichloromethane	0.5		ND				
Bromoform	0.5		ND				
Chloroform	0.5		ND				
Dibromochloromethane	0.5		ND				
TOTAL THMs		80	0.00				
UNREGULATED							
1,1,1,2-Tetrachloroethane	0.5		ND				
1,1,1,2,2-Tetrachloroethane	0.5		ND				
1,1-Dichloroethane	0.5		ND				
1,1-Dichloropropene	0.5		ND				
1,2,3-Trichlorobenzene	0.5		ND				
1,2,3-Trichloropropane	0.5		ND				
1,2,4-Trimethylbenzene	0.5		ND				
1,2-Dibromo-3-Chloropropane	0.5		ND				
1,2-Dibromoethane	0.5		ND				
1,3,5-Trimethylbenzene	0.5		ND				
1,3-Dichlorobenzene	0.5		ND				
1,3-Dichloropropane	0.5		ND				
2,2-Dichloropropane	0.5		ND				

Comments:

Approved by:

Approval date:

Sadia Muneer

12/06/2017

*All results are in parts per billion (ppb); ND = Less than the detection level; na = not applicable; e = estimate

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Telephone: (443) 681-3853 Fax: (443) 681-4507

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 Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

Temperature Blank: 4.0 °C

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: H0170187-8
H0170187-A Plant/Site Name: Estates @ Schaeley Mill Lot 1 County: Howard

Location: H0-17-0187 Sample Source: Seagoville Rd. Highland
Street Town or City

Collector/ID: S. Collins / 3406 SC Phone No.: 410-313-6297

013 County System No. PWSID Plant No. 11/28/2017 Date Collected 11/28/2017 am/pm Time Collected

Field Data: pH Free CI: Total CI:

Sample Type: Drinking water Landfill Source (water) Oil
 Private Stream Distribution (treated) Solid
 Community Soil/Sediment Water Treatment Plant POE Other
 Non-Community

Specify Program: SDWA NPDES RCRA CWA CERCLA Consumer Products
 Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
<input type="checkbox"/> EPA Method 504.1 (EDB/DBCP)	<input type="checkbox"/> Field Blank	<input type="checkbox"/> Sodium thiosulfate	
<input type="checkbox"/> EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	<input type="checkbox"/> Field Blank	<input type="checkbox"/> Sodium thiosulfate	
<input type="checkbox"/> EPA Method 515.3 (Herbicides)	<input type="checkbox"/> Field Blank	<input type="checkbox"/> Sodium thiosulfate	
<input type="checkbox"/> EPA Method 515.4 (Herbicides)	<input type="checkbox"/> Field Blank	<input type="checkbox"/> Sodium sulfite	
<input type="checkbox"/> EPA Method 525.2 (Pesticides)	<input type="checkbox"/> Field Blank	<input type="checkbox"/> HCL (6N) <input type="checkbox"/> Sodium sulfite	
<input type="checkbox"/> EPA Method 531.2 (Carbamates)	<input type="checkbox"/> Field Blank	<input type="checkbox"/> Potassium Citrate monobasic <input type="checkbox"/> Sodium thiosulfate	
<input type="checkbox"/> EPA Method 552.2 (Haloacetic acids)	<input type="checkbox"/> Field Blank	<input type="checkbox"/> Ammonium chloride	
<input type="checkbox"/> EPA Method 8270 (Semi-Volatiles) <input type="checkbox"/> Pesticides <input type="checkbox"/> Aroclors	<input type="checkbox"/> Field Blank	<input type="checkbox"/> Sodium thiosulfate	
<input checked="" type="checkbox"/> EPA Method 524.2 (Volatiles) <input checked="" type="checkbox"/> VOCs <input type="checkbox"/> THMs	<input checked="" type="checkbox"/> Field Blank <input type="checkbox"/> Trip Blank	<input checked="" type="checkbox"/> 1:1 HCL <input type="checkbox"/> 1:1 HCL + Ascorbic acid <input type="checkbox"/> Sodium thiosulfate	FB-1 H0170187F-1 FB-2 H0170187F-2 Trip H0170187T
<input type="checkbox"/> EPA Method 8260 (VOCs)	<input type="checkbox"/> Field Blank	<input type="checkbox"/> 1:1 HCL <input type="checkbox"/> 1:1 HCL + Ascorbic acid	

E18002087001
Received: 11/28/2017 EPA 524.
Trace Organics H0170187

E18002087002
Received: 11/28/2017 EPA 524.
Trace Organics H0170187F

E18002087003
Received: 11/28/2017 EPA 524.
Trace Organics H0170187T

Remarks:
Lab Supervisor: Date Reported:

•Phone: (443) 681-3857 •Fax: (443) 681-4507

SUBMITTER'S COPY

Send Report to: Bert Nixon

Temperature Blank: 40 °C

State of Maryland
DHMH - Laboratories Administration
Division of Environmental Chemistry
ORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue
BALTIMORE, MARYLAND 21205

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

LABORATORY ANALYSIS REQUEST FORM

Please write legibly

Bottle No.: H0170187-B
H0170187-A

Plant/Site Name: Estates @ Schaeffer Mill Lot 1

County: Howard

Location: H0-17-0187

Sample Source: Seagoville Rd. Highland
Street Town or City

Collector/ID: S. Collins 7 3406 SC

Phone No.: 410-313-0287

County: 013

System No.

PWSID

Plant No.

Date Collected: 11 / 28 / 2017

Time Collected: am/pm

Field Data: pH

Free Cl:

Total Cl:

- Sample Type:
- Drinking water
 - Private
 - Community
 - Non-Community
 - Landfill
 - Stream
 - Soil/Sediment
 - Source (water)
 - Distribution (treated)
 - Water Treatment Plant POE
 - Oil
 - Solid
 - Other

- Specify Program:
- SDWA
 - NPDES
 - RCRA
 - CWA
 - CERCLA
 - Consumer Products
 - Other

Test Requested	Field & Trip Blank	Preservative Used	Comment
<input type="checkbox"/> EPA Method 504.1 (EDB/DBCP)	<input type="checkbox"/> Field Blank	<input type="checkbox"/> Sodium thiosulfate	
<input type="checkbox"/> EPA Method 508 [Aroclors (SCAN only) & Toxaphene]	<input type="checkbox"/> Field Blank	<input type="checkbox"/> Sodium thiosulfate	
<input type="checkbox"/> EPA Method 515.3 (Herbicides)	<input type="checkbox"/> Field Blank	<input type="checkbox"/> Sodium thiosulfate	
<input type="checkbox"/> EPA Method 515.4 (Herbicides)	<input type="checkbox"/> Field Blank	<input type="checkbox"/> Sodium sulfite	
<input type="checkbox"/> EPA Method 525.2 (Pesticides)	<input type="checkbox"/> Field Blank	<input type="checkbox"/> HCL (6N) <input type="checkbox"/> Sodium sulfite	
<input type="checkbox"/> EPA Method 531.2 (Carbamates)	<input type="checkbox"/> Field Blank	<input type="checkbox"/> Potassium Citrate monobasic <input type="checkbox"/> Sodium thiosulfate	
<input type="checkbox"/> EPA Method 552.2 (Haloacetic acids)	<input type="checkbox"/> Field Blank	<input type="checkbox"/> Ammonium chloride	
<input type="checkbox"/> EPA Method 8270 (Semi-Volatiles) <input type="checkbox"/> Pesticides <input type="checkbox"/> Aroclors	<input type="checkbox"/> Field Blank	<input type="checkbox"/> Sodium thiosulfate	
<input checked="" type="checkbox"/> EPA Method 524.2 (Volatiles) <input checked="" type="checkbox"/> VOCS <input type="checkbox"/> THMs	<input type="checkbox"/> Field Blank <input type="checkbox"/> Trip Blank	<input checked="" type="checkbox"/> 1:1 HCL <input type="checkbox"/> 1:1 HCL + Ascorbic acid <input type="checkbox"/> Sodium thiosulfate	FB-1 H0170187F1 FB-2 H0170187F2 Trip H0170187T
<input type="checkbox"/> EPA Method 8260 (VOCs)	<input type="checkbox"/> Field Blank	<input type="checkbox"/> 1:1 HCL <input type="checkbox"/> 1:1 HCL + Ascorbic acid	

E18002087001
Received: 11/28/2017 EPA 524.
Trace Organics H0170187

E18002087002
Received: 11/28/2017 EPA 524.
Trace Organics H0170187F

E18002087003
Received: 11/28/2017 EPA 524.
Trace Organics H0170187T

Remarks:

Lab Supervisor:

Date Reported: / /

•Phone: (443) 681-3857

•Fax: (443) 681-4507

PROGRAM COPY



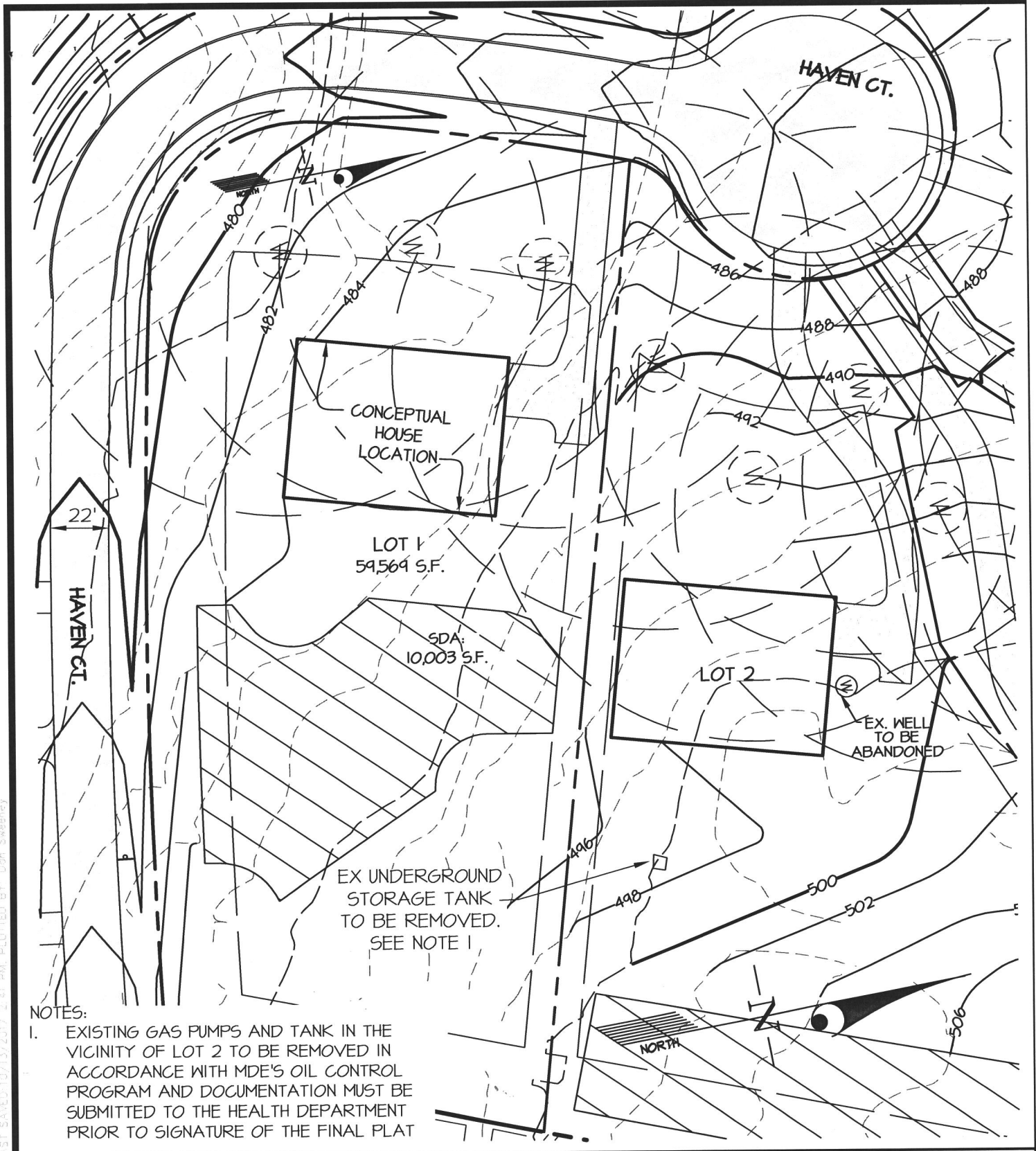
DO NOT REMOVE THIS TAG
 DEPARTMENT OF THE ENVIRONMENT
 WELL PERMIT NUMBER

H0-17-0187

INFORMATION GIVE NUMBER AND WRITE
 1800 WASHINGTON BLVD
 BALTIMORE MARYLAND 21230

Well sites approved
 10/10/17 SC
 Well sites staked by GLW
 Drill sites #2 and #3 FIRST

WELL SITE PLAN		ESTATES AT SCHOOLEY MILL LOT 1	
GLW GUTSCHICK LITTLE & WEBER, PA <small>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: 301-421-4185</small>	DES. dds	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
	DRN. gt		ZONING RR-DEO
CHK.		TAX MAP/GRID 40-11	
L:\CADD\DRAWINGS\14067\PLANS BY GLW\WELL SITE PLANS\14067-WELL SITE PLANS.dwg		DATE SEPTEMBER, 2017	
		SCALE 1"=50'	
		SHEET 1 OF 1	



NOTES:

- EXISTING GAS PUMPS AND TANK IN THE VICINITY OF LOT 2 TO BE REMOVED IN ACCORDANCE WITH MDE'S OIL CONTROL PROGRAM AND DOCUMENTATION MUST BE SUBMITTED TO THE HEALTH DEPARTMENT PRIOR TO SIGNATURE OF THE FINAL PLAT

UST LOCATION EXHIBIT

**ESTATES AT SCHOOLEY MILL
LOT 1 & 2**

GLW GUTSCHICK LITTLE & WEBER, P.A.

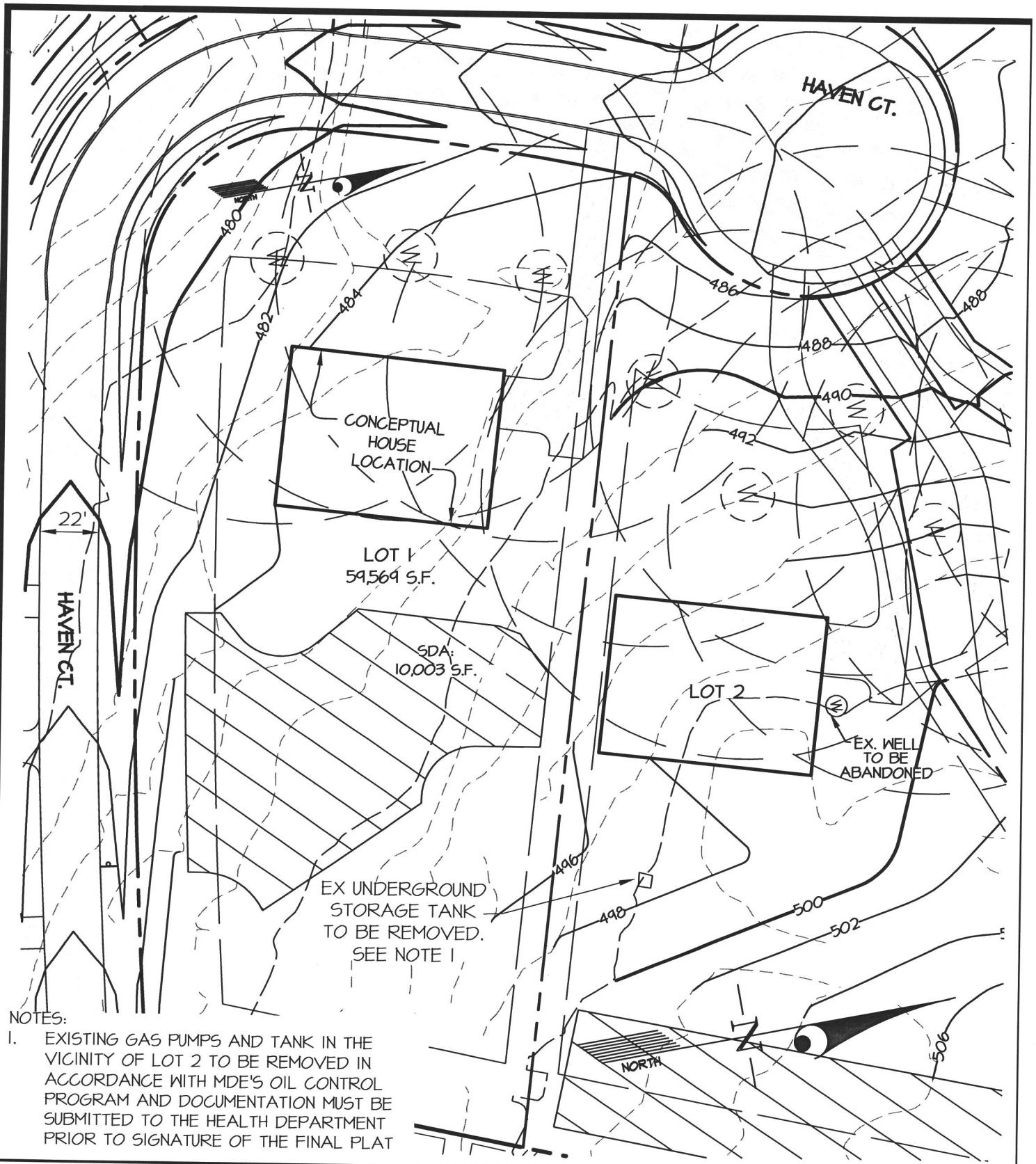
CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK
BURTONSVILLE, MARYLAND 20866
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DES. dds
DRN. gt
CHK.

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	OCTOBER, 2017
SCALE	1"=50'
SHEET	1 OF 1

L:\CADD\DRAWINGS\14067\PLANS BY GLW\WELL SITE PLANS\14067-WELL SITE PLANS.dwg PLOTTED: 10/13/2017 2:42 PM, LAST SAVED: 10/13/2017 2:41 PM, PLOTTED BY: Don Sweeney



NOTES:

- EXISTING GAS PUMPS AND TANK IN THE VICINITY OF LOT 2 TO BE REMOVED IN ACCORDANCE WITH MDE'S OIL CONTROL PROGRAM AND DOCUMENTATION MUST BE SUBMITTED TO THE HEALTH DEPARTMENT PRIOR TO SIGNATURE OF THE FINAL PLAT

UST LOCATION EXHIBIT

**ESTATES AT SCHOOLEY MILL
LOT 1 2**

GLW GUTSCHICK LITTLE & WEBER, P.A.

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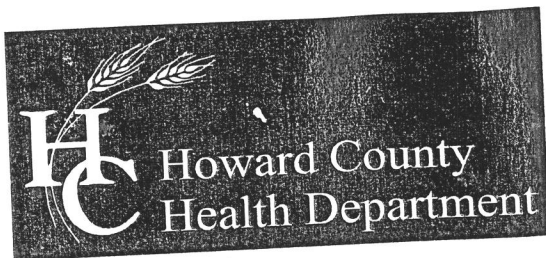
ZONING RR-DEO

TAX MAP/GRID 40-11

DATE OCTOBER, 2017

SCALE 1"=50'

SHEET 1 OF 1



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

FILE INQUIRY NOTES

DATE	RESULTS OF REVIEW FOR FILE
6/2/77	Well locations on Lot 1
	are numbered 1 thru 3.
*	<u>When staked</u> , it may be best
	to 'pull' stake 3. as the location
	appears to be down gradient of the
	SDA on Lot 1 and within 200 feet.
	If a well cannot be established
	at locations 1 or 2, a perc cent
	revision is likely.
	R Bricker
10/11/77	Discussed special conditions on well permit with Allen Compton via phone (SC)

Hinkle
Property

FILE INQUIRY NOTES

Lot 1

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.

R Bueker

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

R Bueker