

C1 65140

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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)

FILL IN THIS FORM COMPLETELY PLEASE TYPE

COUNTY NUMBER

ST/CO USE ONLY DATE RECEIVED

DATE WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

OWNER, WELL SITE ADDRESS, SUBDIVISION, SECTION, LOT

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Soft brown, Gray limestone, Fracture, etc.

GROUTING RECORD form including: WELL HAS BEEN GROUTED, TYPE OF GROUTING MATERIAL, CEMENT, BENTONITE CLAY, NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER, DEPTH OF GROUT SEAL.

CASING RECORD form including: casing types insert appropriate code below, MAIN CASING TYPE, Nominal diameter, Total depth.

OTHER CASING (if used) form including: diameter, depth.

SCREEN RECORD form including: screen type or open hole, insert appropriate code below, STEEL, BRASS, BRONZE, PLASTIC, OPEN HOLE, OTHER.

PUMPING TEST form including: HOURS PUMPED, PUMPING RATE, METHOD USED TO MEASURE PUMPING RATE, WATER LEVEL, BEFORE PUMPING, WHEN PUMPING, TYPE OF PUMP USED.

PUMP INSTALLED form including: DRILLER INSTALLED PUMP, IF DRILLER INSTALLS PUMP, TYPE OF PUMP INSTALLED, CAPACITY, GALLONS PER MINUTE, PUMP HORSE POWER, PUMP COLUMN LENGTH, CASING HEIGHT, LAND SURFACE.

NUMBER OF UNSUCCESSFUL WELLS, WELL HYDROFRACTURED

CIRCLE APPROPRIATE LETTER A, E, P

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 28.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT...

DRILLERS LIC. NO., DRILLERS SIGNATURE, LIC. NO.

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

DEPTH (nearest ft.) table with columns 1-3, rows E, A, C, H, S, C, R, E, E, N

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

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T, W Q, TELESCOPE CASING, LOG INDICATOR, OTHER DATA

LATITUDE 39.201410, LONGITUDE 76.965329 (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...

B 1 SEQUENCE NO. (MDE USE ONLY) 66464 STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type 526480 STATE PERMIT NUMBER Ho-18-0140
10 79
 fill in this form completely

B 2 OWNER INFORMATION
 Date Received (APA) 12/31/19
 8 MM DD YY 13
 15 Last Name Studdard Owner Jonathan First Name Jonathan 34
 36 2913 Chestnut Hill Dr Street or RFD 55
 57 Ellicott City Md 21043 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL
 8 COUNTY Howard 21
 23 SUBDIVISION Waterford 42
 SECTION 44 46 LOT 11 48 50
 52 NEAREST TOWN Churkville 71

B 2 DRILLER INFORMATION
 76 Driller's Name Andrew Houseman M S D 224 License No. 81
 Firm Name Fogles Well Drilling, LLC
 Address P.O. Box 202 Woodbine, Md 21797
 Signature Andrew Houseman Date 11-22-19

B 4 SOURCES OF DRILLING WATER
 1 Well Water
 2 Grout
 3 Cement
 11 STREET ADDRESS Brighton Dam Rd 30
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
 NORTH WEST EAST SOUTH
 34 500 37 DISTANCE FROM ROAD FT
 ENTER FT OR MI 38 39
 TAX MAP: 34 BLK: 9 PARCEL 261

B 2 WELL INFORMATION
 1 APPROX. PUMPING RATE (GAL. PER MIN.) 5 12
 2 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500 14 20

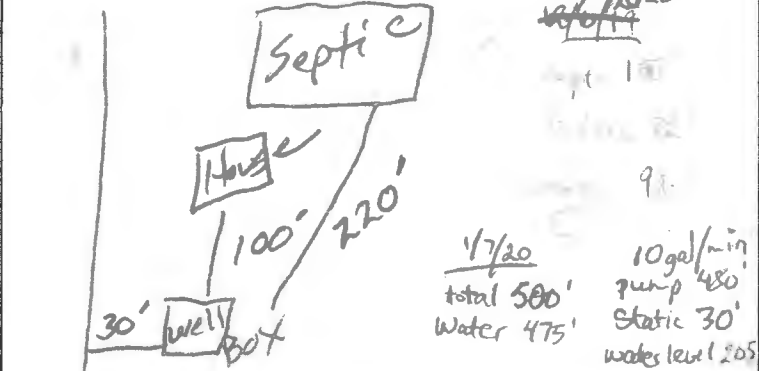
USE FOR WATER (CIRCLE APPROPRIATE BOX)
 DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
 FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
 INDUSTRIAL, COMMERCIAL, DEWATERING
 PUBLIC WATER SUPPLY WELL
 TEST, OBSERVATION, MONITORING
 OPEN LOOP GEOTHERMAL
 CLOSED LOOP GEOTHERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL
 COUNTY NAME Howard COUNTY NO. 21
 STATE SIGNATURE _____ INSERT S → 41
 DATE ISSUED 12/27/20 43 MM DD YY 48 CO SIGNATURE _____ EXP. DATE _____
 DON: 12/16/2020 DOB: 1/7/2020 DDT: 1/7/2020

APPROXIMATE DEPTH OF WELL 300 FEET 24 28
 APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST INCH

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 Jetted & DRIVEN
 AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary)
 CABLE REVerse-ROTary Drive-POINT
 other _____

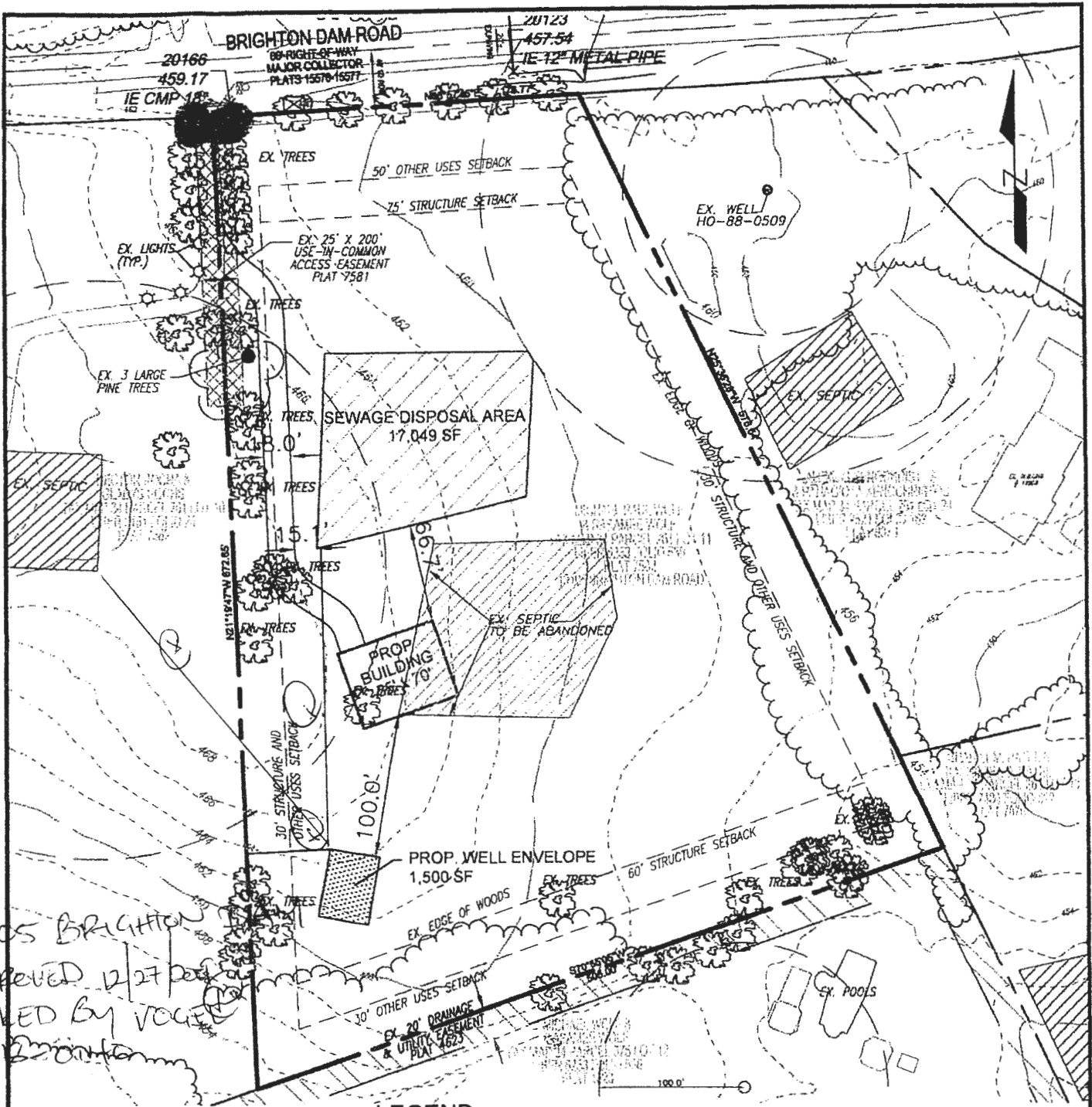


REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)
 THIS WELL WILL NOT REPLACE AN EXISTING WELL
 THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
 THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
 THIS WELL WILL DEEPEM AN EXISTING WELL
 PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 _____ 52

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.

Not to be filled in by driller (MDE OR COUNTY USE ONLY)
 APPROP. PERMIT NUMBER _____ G _____
 PERMIT No. Ho-18-0140
 70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS
 NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED
SEE ATT. MEMO RADIUM SAMPLES



13105 BRIGHTON
 APPROVED 12/27/04
 STAKED BY VOGE
 HO-200000

LEGEND:

- EXISTING CONTOUR
- EXISTING CURB & GUTTER
- EXISTING UTILITY POLE
- EXISTING LIGHT POLE
- EXISTING TREELINE
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- EX. 20' DRAINAGE & UTILITY EASEMENT PLAT# 4623
- EX. USE IN COMMON ACCESS EASEMENT PLAT# 7581
- PROP. WELL ZONE

OWNER

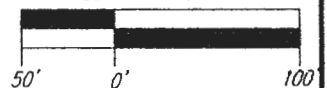
MICHAEL PAUL WOLF
 7020 COLUMBIA GATEWAY DR.
 COLUMBIA, MD 21046
 786-350-0050

WELL EXHIBIT - LOT 11

WATERFORD

ZONED: RR-DEO

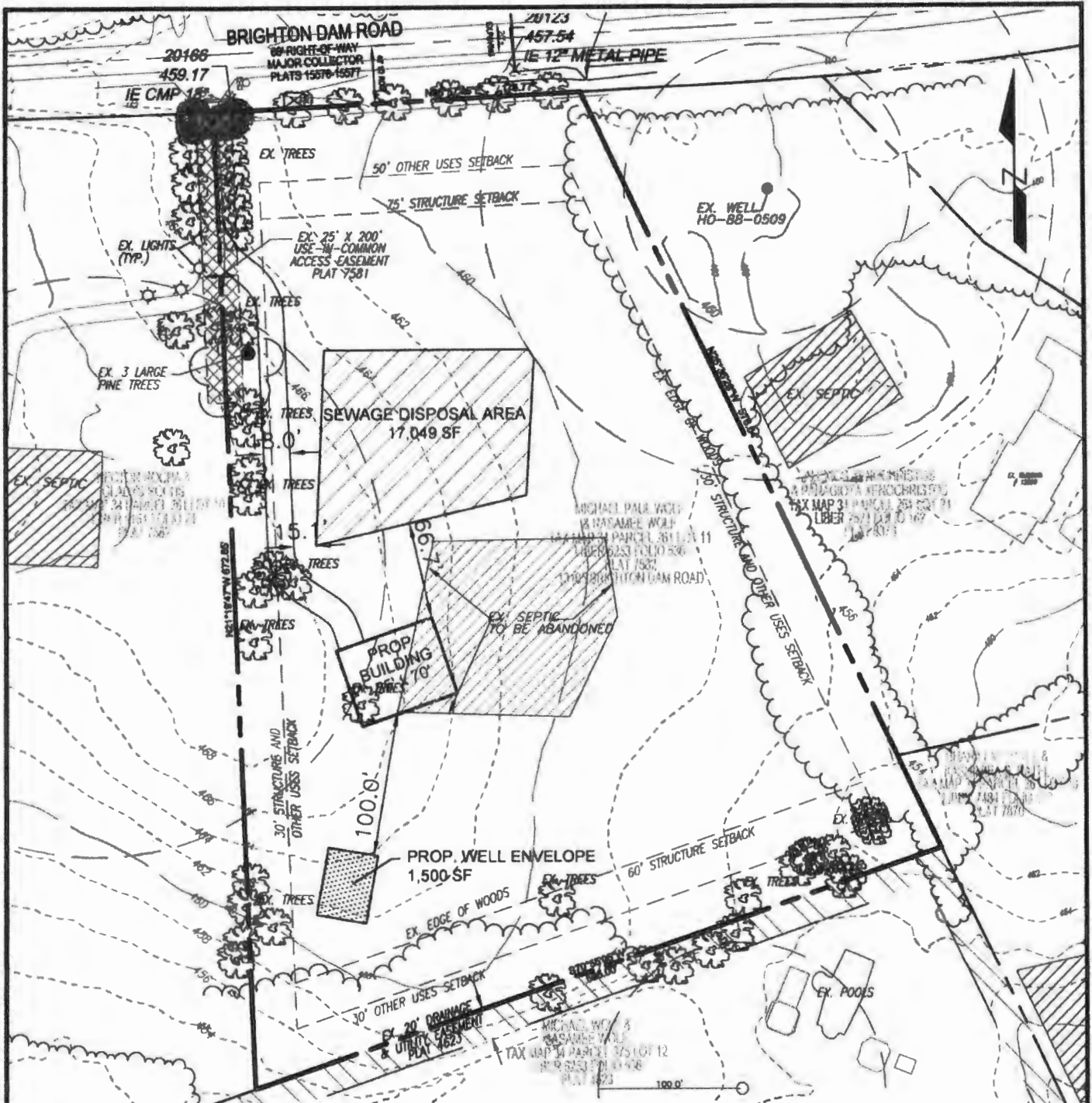
SCALE 1"=100'



PARCEL 261
 HOWARD COUNTY, MARYLAND

SCALE: 1"=100'
 W.O. NO.: 44349

TAX MAP 54-B-0000
 5TH ELECTION DISTRICT



LEGEND:

	EXISTING CONTOUR		RIGHT-OF-WAY LINE
	EXISTING CURB & GUTTER		EX. 20' DRAINAGE & UTILITY EASEMENT PLAT# 4623
	EXISTING UTILITY POLE		EX. USE IN COMMON ACCESS EASEMENT PLAT# 7581
	EXISTING LIGHT POLE		PROP. WELL ZONE
	EXISTING TREELINE		
	PROPERTY LINE		

VOGEL ENGINEERING

TIMMONS GROUP

3300 NORTH RIDGE ROAD, SUITE 110, ELLICOTT CITY, MD 21043
 P: 410.461.7666 F: 410.461.8961 www.timmons.com

OWNER
 MICHAEL PAUL WOLF
 7020 COLUMBIA GATEWAY DR.
 COLUMBIA, MD 21046
 786-350-0050

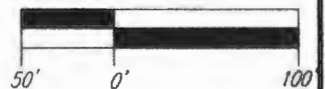
DRAWN BY: _____ KG
 DESIGN BY: _____ RHV
 CHECK BY: _____ RHV
 DATE: NOVEMBER 2019
 SCALE: 1"=100'
 W.O. NO.: 44349

WELL EXHIBIT - LOT 11

WATERFORD

ZONED: RR-DEO

SCALE 1"=100'



TAX MAP 34 BLOCK 9
 5TH ELECTION DISTRICT

PARCEL 261
 HOWARD COUNTY, MARYLAND



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

Main: 410-313-2640 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: HowardCoHealthDep

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

TO ALL INTERESTED PARTIES

When submitting a well permit application for a proposed well for new construction, please indicate one of the following:

Well Site Location:

Waterford 11 Brighten Dam Rd
Subdivision/Property Name Lot # Road Name

The well site has been staked by Vogel Engineering
(professional land surveyor or company employing professional land surveyors)
on 11-21-19 (date) and does not require a site inspection.

The well driller, builder or property owner will call the Health Department to schedule a time to meet in the field to verify the proposed well site location.

This sheet, along with two copies of an acceptable well site plan, must be attached to the green well permit application.

Real Property Data Search (w4)

Search Result for HOWARD COUNTY

View Map	View GroundRent Redemption	View GroundRent Registration
--------------------------	--	--

Tax Exempt: None **Special Tax Recapture:** None

Exempt Class: None

Account Identifier: District - 05 Account Number - 407451

Owner Information

Owner Name:	WOLF MICHAEL PAUL WOLF RASAMEE T/E	Use:	RESIDENTIAL
Mailing Address:	7020 COLUMBIA GATEWAY DR COLUMBIA MD 21046-2119	Principal Residence:	NO
		Deed Reference:	/06253/ 00530

Location & Structure Information

Premises Address:	BRIGHTON DAM RD CLARKSVILLE 21029-0000	Legal Description:	LOT 11 5.2952 A BRIGHTON DAM RD WATERFORD S 2 RSB LOT 2
--------------------------	---	---------------------------	---

Map:	Grid:	Parcel:	Neighborhood:	Subdivision:	Section:	Block:	Lot:	Assessment Year:	Plat No:	7582
0034	0009	0261	5010102.14	1002			11	2020	Plat Ref:	

Special Tax Areas: None

Town:	None
Ad Valorem:	100
Tax Class:	None

Primary Structure Built	Above Grade Living Area	Finished Basement Area	Property Land Area	County Use
			5.2900 AC	

Stories	Basement	Type	Exterior	Quality	Full/Half Bath	Garage	Last Notice of Major Improvements
			/				

Value Information

	Base Value	Value	Phase-in Assessments	
		As of	As of	As of
		01/01/2017	07/01/2019	07/01/2020
Land:	287,100	287,100		
Improvements	0	0		
Total:	287,100	287,100	287,100	
Preferential Land:	0			

Transfer Information

Seller: WOLF MICHAEL PAUL	Date: 06/26/2002	Price: \$0
Type: NON-ARMS LENGTH OTHER	Deed1: /06253/ 00530	Deed2:
Seller: ALION RUSSELL G	Date: 01/10/1992	Price: \$200,000
Type: ARMS LENGTH IMPROVED	Deed1: /02450/ 00376	Deed2:
Seller: BRIGHTON GROUP THE	Date: 03/11/1988	Price: \$291,430
Type: NON-ARMS LENGTH OTHER	Deed1: /01796/ 00369	Deed2:

Exemption Information

Partial Exempt Assessments:	Class	07/01/2019	07/01/2020
County:	000	0.00	
State:	000	0.00	
Municipal:	000	0.00	0.00

Tax Exempt: None **Special Tax Recapture:** None

Exempt Class: None

Homestead Application Information

Homestead Application Status: No Application

Homeowners' Tax Credit Application Information

Homeowners' Tax Credit Application Status: No Application **Date:**

1. This screen allows you to search the Real Property database and display property records.
2. Click **here** for a glossary of terms.
3. Deleted accounts can only be selected by Property Account Identifier.
4. The following pages are for information purpose only. The data is not to be used for legal reports or documents. While we have confidence in the accuracy of these records, the Department makes no warranties, expressed or implied, regarding the information.

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

January 31, 2020

Jonathan Studdard
2913 Chestnut Hill Drive
Ellicott City, Maryland 21043

RE: 13105 Brighton Dam Road
Clarksville, Maryland 21029
Well Tag: HO – 18 – 0140

Dear Mr. Studdard:

A sample was collected during a yield test on January 7, 2020 and submitted to the Maryland Department of Health Laboratories to assess the possible presence of **Gross Alpha** and **Gross Beta** in the future well water supply. **Gross Alpha** and **Gross Beta** measure the total alpha and beta particle activity in a water supply. These naturally occurring radioactive nuclides have been demonstrated to be present in a certain type of geologic formation known as the Baltimore Gneiss which exists in your area of development within the County.

Results from this screening revealed a **Gross Alpha** of 2.8 ± 1.3 picocuries/liter (pCi/L), while the **Gross Beta** level was 2.8 ± 1.7 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 **meets** EPA regulatory standards. Additional testing **for these parameters** will not be required to secure the future Use & Occupancy. Please **note** that other standard testing parameters (bacteria, nitrate, turbidity and sand) will still be needed to help secure Use & Occupancy.

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

Sincerely,



Bert Nixon, Director
Bureau of Environmental Health

Enclosure

✓ cc: Property file

SEND REPORT TO:

Bert Nixon

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

Lab No.

78

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

LABORATORY ANALYSIS REQUEST FORM

Plant/Site Name: 13105 Brighton Dam Rd County: Howard

Sample Source: 13105 Brighton Dam Rd Location: HO-18-0140
CLARKSVILLE MD 21029 (Well no., lab sink, sample tap, etc.)

Radon-222 Bottle A H05T0140RA Radon-222 Field Blank Bottle A _____
Bottle B _____ Bottle B _____

Radon

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: 4 F Federal Project:

Collector: Susan Thomas Telephone No.: 410-2183-6287

Date Collected: 1/7/2020 Time Collected: 9:50 a.m. _____ p.m.

Field pH: 8.5 Field Chlorine: negative

Nitric Acid Preserved: Yes No Iced: Yes No

Remarks: collected at yield of well HO-18-0140

TEST	EPA Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Date Reported
<input checked="" type="checkbox"/> Gross Alpha	4000	1430	EM-1001	2.8 ± 1.3	1/7/2020	KLL	1/14/2020
<input checked="" type="checkbox"/> Gross Beta	4100	1430	EM-1001	2.8 ± 1.7	1/7/2020	KLL	1/14/2020
<input type="checkbox"/> Radium-226	4020						
<input type="checkbox"/> Radium-228	4030						
<input type="checkbox"/> Total Uranium	4006						
<input type="checkbox"/> Radon-222 (Bottle A)	4004						
<input type="checkbox"/> Radon-222 (Bottle B)	4004						
<input type="checkbox"/> Radon Field Blank A	4004						
<input type="checkbox"/> Radon Field Blank B	4004						
<input type="checkbox"/> Tritium							
<input type="checkbox"/>							
<input type="checkbox"/>							

Date Received: 1-7-2020 Received By: [Signature]

Data Release Signature: [Signature] Date: 1/13/20

Lab Use Only	Yes	No	N/A
Sample Intact upon arrival?			
Sample pH <2.0?			
Received within holding time?			

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

FORM REVISED 05/15
DHMH 4540 05/17

PROGRAM COPY

SAMPLE TESTED AS RECEIVED

SEND REPORT TO:

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

Lab No. 70

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

LABORATORY ANALYSIS REQUEST FORM

Plant/Site Name: 13105 Brighton Dam Rd County: Howard
Sample Source: 13105 Brighton Dam Rd Location: Field Blank
(Well no., lab sink, sample tap, etc.)
Radon-222 Bottle A _____ Radon-222 Field Blank Bottle A Field Blank
Bottle B _____ Bottle B _____
County 13 Plant No. _____

CHECK (one per Box)

Type
Drinking Water
Landfill
Stream
Other

Service
Community
Non-Community
Private
Other

Point of Collection
Source (Raw)
Distribution (treated)
MCL

Testing
Emergency
Routine
Recheck
Special

Submitters Code: 4 F Federal Project: _____
Collector: Susan Thomas Telephone No.: 410-313-6287
Date Collected: 1/7/2020 Time Collected: 9:50 a.m. _____ p.m.
Field pH: 5.5 Field Chlorine: Negative
Nitric Acid Preserved: Yes No Iced: Yes No

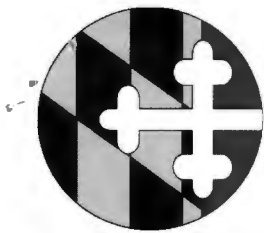
Remarks: _____

✓	TEST	EPA Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Date Reported
✓	Gross Alpha	4000	1449	EPA 900.0	12.0	1/8/2020	RH	1/9/2020
✓	Gross Beta	4100	1449	EPA 900.0	14.0	1/8/2020	RH	1/9/2020
<input type="checkbox"/>	Radium-226	4020						
<input type="checkbox"/>	Radium-228	4030						
<input type="checkbox"/>	Total Uranium	4006						
<input type="checkbox"/>	Radon-222 (Bottle A)	4004						
<input type="checkbox"/>	Radon-222 (Bottle B)	4004						
<input type="checkbox"/>	Radon Field Blank A	4004						
<input type="checkbox"/>	Radon Field Blank B	4004						
<input type="checkbox"/>	Tritium							
<input type="checkbox"/>								
<input type="checkbox"/>								

Date Received: 1-7-2020 Received By: [Signature]
Data Release Signature: [Signature] Date: 1/13/20

Lab Use Only	Yes	No	N/A
Sample Intact upon arrival?			
Sample pH <2.0?			
Received within holding time?			

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



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 NoE20002279 Date Coll. 01/07/2020 Date Received: 01/07/2020 Submitted By: Thomas

Field ID: HOST0140SU
Lab No.: E20002279001

<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
Sulfate	EPA 375.2	35	ppm	01/15/2020

Comments:

Approved by:

Approval date: 01/16/2020

*The following methods are included in our A2LA Scope of Accreditation: EPA150.1, EPA 353.2, EPA 375.2, SM4500F C, SM 4500-CN G & QCM-CN, QCM-CN. Samples are tested as received.

This document contains confidential health information that is privileged, confidential and exempt from disclosure under law. If you have received this information in error, please call (410) 767-6190 and arrange for return or destruction.

Send Report To:

Bert Nixon

State of Maryland
 MDH – Laboratories Administration
 Division of Environmental Sciences
TRACE METALS LABORATORY
 1770 Ashland Avenue
 Baltimore, Maryland 21205



E20002283001

Received: 01/07/2020

Metals

HOST0140FE

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

LABORATORY ANALYSIS REQUEST

Do not write above this line

Please Print

Sample ID No: HOST0140FE Site Name: 13105 Brighton Dam Rd County: Howard

Sample Source: 13105 Brighton Dam Rd, Clarksville Collector: Susan Thomas
Street Town or City Name

Date Collected: 1/7/2020 Time Collected: 9:50 a.m. / p.m. Phone #: 410-313-6287

Sample Preserved By: Field ESRL WMRL Central Lab

Preservative Used: HNO₃ 2 mL pH: 8.5 pH: < 2
(field use only) (lab use only)

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

Specify Program: SDWA NPDES CWA RCRA Consumer Products Other _____

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

Remarks: collected at yield of well HO-18-0140

*Place a by the element(s) requested for testing

<input checked="" type="checkbox"/>	Element	Lab Use	<input checked="" type="checkbox"/>	Element	Lab Use	<input checked="" type="checkbox"/>	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)		<input checked="" type="checkbox"/>	Iron (Fe)	<u>aw</u>			
	Chromium (Cr)			Lead (Pb)				
	Mercury (Hg)			Magnesium (Mg)				
	Nickel (Ni)			Manganese (Mn)				
	Selenium (Se)			Molybdenum (Mo)				
	Sodium (Na)			Potassium (K)				
	Thallium (Tl)			Silver (Ag)				

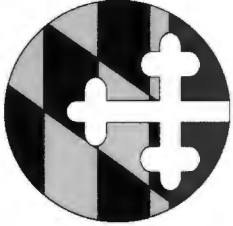
RECEIVED
JAN 22 2020
 HOWARD COUNTY HEALTH DEPT.
 COMMUNITY HYGIENE PROGRAM

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: E20002283 Date Coll.: 01/07/2020 Date Received: 01/07/2020 Submitted By: Thomas

Field ID: HOST0140FE
Lab No.: E20002283001

<u>Method</u>	<u>Element</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
EPA 200.7	Iron	0.15	ppm	01/09/2020

Comments:

Approved by: *Wendy A. Tresser*

Approval date: 01/17/2020

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

This document contains confidential health information that is privileged, confidential and exempt from disclosure under law. If you have received this information in error, please call (410) 767-6944 and arrange for return or destruction.

Send Report To:

Bert Nixon

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

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



E20002284001

Received: 01/07/2020

Metals

HOST0140MN

LABORATORY ANALYSIS REQUEST

Do not write above this line

Please Print

Sample ID No: AOST0140MN Site Name: 13105 Brighton Dam Rd County: Howard

Sample Source: 13105 Brighton Dam Rd, Clarksville Collector: Susan Thomas
Street Town or City Name

Date Collected: 1/7/2020 Time Collected: 9:50 a.m. p.m. Phone #: 410-313-6287

Sample Preserved By: Field ESRL WMRL Central Lab
Preservative Used: HNO₃ 2 mL pH: 8.5 pH: 4.2
(field use only) (lab use only)

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

Specify Program: SDWA NPDES CWA RCRA Consumer Products Other _____

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

Remarks: collected at yield of well HO-18-0140

called ms Thomas to inform her that manganese will be

*Place a by the element(s) requested for testing tested instead of manganese

<input checked="" type="checkbox"/>	Element	Lab Use	<input checked="" type="checkbox"/>	Element	Lab Use	<input checked="" type="checkbox"/>	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)	<u>NO</u>		Lead (Pb)				
	Mercury (Hg)		<input checked="" type="checkbox"/>	Magnesium (Mg)				
	Nickel (Ni)		<input checked="" type="checkbox"/>	Manganese (Mn)	<u>GRV</u>			
	Selenium (Se)			Molybdenum (Mo)				
	Sodium (Na)			Potassium (K)				
	Thallium (Tl)			Silver (Ag)				

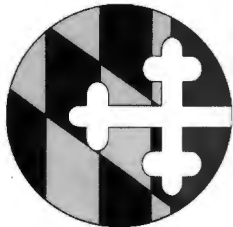
RECEIVED
JAN 22 2020
HOWARD COUNTY HEALTH DEPT.
COMMUNITY HYGIENE PROGRAM

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: E20002284 Date Coll.: 01/07/2020 Date Received: 01/07/2020 Submitted By: Thomas

Field ID: HOST0140MN
Lab No.: E20002284001

<u>Method</u>	<u>Element</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
EPA 200.7	Manganese	<0.050	ppm	01/15/2020

Comments:

Approved by: Syed A Hash

Approval date: 01/21/2020

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

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