

MDE/WMA/PER.071

SEQUENCE NO. STATE OF MARYLAND THIS REPORT MUST BE SUBMITTED WITHIN 40 (MDE USE ONLY) 45 DAYS AFTER WELL IS COMPLETED. WELL COMPLETION REPORT COUNTY FILL IN THIS FORM COMPLETELY (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS) NUMBER 11X PLEASE TYPE ERMIT NO ST/CO USE ONLY Depth of Well DATE WELL COMPLETED "PERMIT TO DRILL WELL" C DATE Received Srl DO 325 22 6 15 33 8 13 30 36 37 Miles OWNER first name ELLIEUT V. I WELL SITE ADDRESS Tridelohia 20 TOWN SUBDIVISION SECTION LOT WELL LOG **GROUTING RECORD** CI 3 N WELL HAS BEEN GROUTED (Circle Appropriate Box) Not required for driven wells **PUMPING TEST** STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING TYPE OF GROUTING MATERIAL (Circle one HOURS PUMPED (nearest hour CEMENT CM BENTONITE CLAY BC check FEET DESCRIPTION (Use additional sheets if needed) if water bearing FROM TO NO. OF BAGS 350 NO. OF POUNDS PUMPING RATE (gal. per min.) 0) TGP So.1 ١ GALLONS OF WATER m7 METHOD USED TO 10 from 10P TOP 52 ft. to 54 BOTTOM MEASURE PUMPING RATE L Orance Clay 4 910 10 Scinch alaun WATER LEVEL (distance from land surface) 58 Bin 2 (enter 0 if from surface) 230 210 BEFORE PLIMPING CASING RECORD casing 235 types CONCRET ST 330 insert WHEN PUMPING appropriate 4133 326 235 code OT TYPE OF PUMP USED (for test) below 0112151 270 A P T turbine piston 250 MAIN Nominal diameter Total depth top (main) casing of main casing CASING other (nearest inch)! (nearest foot) C R 0 (describe TYPE centrilugal rotan 300 270 G below) len 26 ST 6 60 61 63 64 66 70 S. 0 J jet submersible OTHER CASING (if used) 324 diameter depth (feet) 300 inch from to PUMP INSTALLED DRILLER INSTALLED PUMP VES NO (CIRCLE) (YES or NO) 1 IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. SCREEN RECORD TYPE OF PUMP INSTALLED 2.4 screen type or open hole PLACE (A,C,J,P,R,S,T,O) 21 15- 20 SIT BR HO IN BOX 29. insert Sugal BLASS ) 2 = 1 CAPACITY appropriate BRONZE HOLE GALLONS PER MINUTE code PL OT (to nearest gallon) 31 35. holow PUMP HORSE POWER A 37 i wash C 2 DEPTH (nearest ft.) PUMP COLUMN LENGTH D NUMBER OF UNSUCCESSFUL WELLS: (nearest ft.), 43 1 47 no yes CASING HEIGHT (circle appropriate box 15 WELL HYDROFRACTURED 8 9 17 21 Y N and enter casing height) + above C н LAND SURFACE CIRCLE APPROPRIATE LETTER 23 24 26 36 30 32 A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED S (nearest) A below C 23 foot) E ELECTRIC LOG OBTAINED R 39 51 50 51 38 41 47 45 E TEST WELL CONVERTED TO PRODUCTION P LATITUDE 39.27501 E SLOT SIZE 1 2 WELL 3 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. LONGITUDE 7 6. 94540 (NEAREST DIAMETER OF SCREEN INCH) (DEFAULT COORD. WGS 84) 56 60 from to Pursuant to \$10-624 of the State Govt. Article of the Marvand Code personal info. requested on MSD-106 DRILLERS LIC. NO. this form is used in processing this form pursuant GRAVEL PACK to COMAR 26.04.04. Failure to provide the info. WAS FLOWING WELL INSERT F IN BOX 68 may result in this form not being processed. You 68 BRILLERS SIGNATURE have the right to inspect, amend, or correct this (MUST MATCH SIGNATURE ON APPLICATION) MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) form. The Maryland Department of the Environment is subject to the Maryland Public LIC. NO. I \_\_\_\_ D \_\_\_ WO T (E.R.O.S.) Information Act. This form may be made available on the Internet via MDE's website and is 70 72 subject to inspection or copying, in whole or in part, by the pulic and other governmental 74 75 76 SITE SUPERVISOR (sign. of driller or journeyman LOG TELESCOPE agencies, if not protected by federal or state law. responsible for sitework if different from permittee) INDICATOR OTHER DATA CASING MDE/WMA/PER.071 COUNTY

SEQUENCE NO. STATE OF MARYLAND THIS REPORT MUST BE SUBMITTED WITHIN (MDE USE ONLY) 45 DAYS AFTER WELL IS COMPLETED. WELL COMPLETION REPORT COUNTY FILL IN THIS FORM COMPLETELY (THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON AEL CARDS) NUMBER PLEASE TYPE ST/CO USE ONLY PERMIT NO DATE WELL COMPLETED Depth of Well FROM "PERMIT TO DRILL WELL" DATE Received DO 36 JVY TO NEAMEST FOOT 2 13 8 13 30 32 33 34 35 37 36 OWNER TOWN ELLICOP WELL SITE ADDRESS 00 deloha SUBDIVISION LOT SECTION WELL LOG **GROUTING RECORD** 3 С N WELL HAS BEEN GROUTED (Circle Appropriate Box) Not required for driven wells PUMPING TEST STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING TYPE OF GROUTING MATERIAL (Circle one HOURS PUMPED (nearest hour CEMENT CM BENTONITE CLAY C check FEET DESCRIPTION (Use if water bearing eded) FROM TO 46 0 NO. OF BAGS NO. OF POUNDS PUMPING RATE (gal. per min.) IGP So.1  $\odot$ ١ GALLONS OF WATER 633 METHOD USED TO MEASURE PUMPING RATE 10 DEPTH OF GROUT SEAL (to nearest foot) STUNE (10) 1 BOTTON 52 ft. to \_\_\_\_\_ from 210 10 WATER LEVEL (distance from land surface) scircle Alcus (enter 0 if from surface) 230 **BEFORE PUMPING** 210 CASING RECORD casing types 235 SIT CO 030 insert WHEN PUMPING CONCRET STEEL appropriate 020 code PL 235 OIT below TYPE OF PUMP USED (for test) PLASIE 011513: A T turbine P niston 270 50 MĂIN Nominal diameter Total depth top (main) casing of main casing CASING other (nearest inch)! (nearest foot) TYPE C 0 (describe centrifuga R rotany 300 below) 270 G S 60 61 63 64 66 J jet S submersible 0 OTHER CASING (if used) ACH 325 diameter depth (feet) 300 inch from to PUMP INSTALLED C DRILLER INSTALLED PUMP NO YES (CIRCLE) (YES or NO) IF DRILLER INSTALLS PUMP, THIS SECTION G MUST BE COMPLETED FOR ALL WELLS, SCREEN RECORD sign screen type TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) 29 or open hole SIT BR HO IN BOX 29. insert 1127150 1331 CAPACITY: appropriate BRONZE HOLE GALLONS PER MINUTE code PL OT below (to nearest gallon) DT PUMP HORSE POWER 2 37 41 C 2 DEPTH (nearest ft.) PUMP COLUMN LENGTH NUMBER OF UNSUCCESSFUL WELLS: (nearest ft.) 42 2 Contraction -47 N. no E CASING HEIGHT (circle appropriate box WELL HYDROFRACTURED 21 Y N and enter casing height) + above C LAND SURFACE CIRCLE APPROPRIATE LETTER H 24 26 36 23 30 32 A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED S Δ (nearest) below C 3 foot) ELECTRIC LOG OBTAINED 5 51 E R 38 39 41 45 47 51 TEST WELL CONVERTED TO PRODUCTION E P LATITUDE 39 23601 E WELL SLOT SIZE 1 2 3. 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. LONGITUDE 76.94540 DIAMETER (NEAREST OF SCREEN INCH) (DEFAULT COORD. WGS 84) 56 60 from Pursuant to \$10-624 of the State Govt. Article of to the Maryand Code personal info. requested on MSDIDG DRILLERS LIC. NO. this form is used in processing this form pursuant IF WELL DRILLED GRAVEL PACK to COMAR 26.04.04. Failure to provide the info. may result in this form not being processed. You 88 INSERT F IN BOX 68 DRILLERS SIGNATURE have the right to inspect, amend, or correct this (MUST MATCH SIGNATURE ON APPLICATION) MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) form. The Maryland Department of the **Environment** is subject to the Maryland Public D LIC. NO. I Ť (E.R.O.S.) WQ 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 72 70 part, by the pulic and other governmental agencies, if not protected by federal or state law. SITE SUPERVISOR (sign. of driller or journeyman 74 75 76 LOG TELESCOPE responsible for sitework if different from permittee) OTHER DATA CASING

SURVEY

DRILLER: COMPLETE THIS APPLICATION AND RETURN ALL PARTS OF THIS FORM INTACT TO THE ENVIRONMENTAL AGENCY IN THE COUNTY IN WHICH THE WELL IS TO BE DRILLED. PRESS FIRMLY FOR FOURTH COPY.

EMERGENCY/TEMP NO. IF ANY - 01 29/2019 SEQUENCE NO. STATE OF MARYLAND (MDE USE ONLY) APPLICATION FOR PERMIT TO DRILL WELL 036 please type fill in this form completely 2 Date Received (APA) LOCATION OF WELL B 3 0/10/18 **OWNER INFORMATION** COLINT 8 NOODS Firet Na SHADOWARD A 23 reet or RFD SECTION | LOT S Ellicott State 76 AREARDONT TOOMS DRILLER INFORMATION MWDZ B 4 's Na 12510 Tria Delphi SOURCES OF DRILLING WATER we'll STREET ADDRESS. Firm Nam 014 au ON WHICH SIDE OF ROAD Permit IN (CIRCLE APPROPRIATE BOX) transferred to Date Ignatu Allied 11/30/18 50 37 UTH B 2 WELL INFORMATION DISTANCE FROM ROAD APPROX. PUMPING RATE ENTER FT OR MI 12 (GAL. PER MIN.) 582 AVERAGE DAILY QUANTITY NEEDED PARCEL TAX MAP: (GAL. PER DAY) 20 14 NOT TO BE FILLED IN BY DRILLER USE FOR WATER (CIRCLE APPROPRIATE BOX) HEALTH DEPARTMENT APPROVAL D DMESTIC POTABLE SUPPLY & RESIDENTIAL RIGATION FARMING (LIVESTOCK WATERING & AGRICULTURAL F **IRRIGATION**) COL STATE INDUSTRIAL, COMMERCIAL, DEWATERING 1 22 PUBLIC WATER SUPPLY WELL P DATE ISSUED T TEST, OBSERVATION, MONITORING 0/4 0 **OPEN LOOP GEOTHERMAL** DNL C CLOSED LOOP GEOTHERMAL DON112/5/18 · DOG: 12/7/18 PROPOSED LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, FEET APPROXIMATE DEPTH OF WELL ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL NEAREST APPROXIMATE DIAMETER OF WELL INCH 28 200 12/7 METHOD OF DRILLING (circle one) wen 325 BORED (or Augered) Jetted & DRIVEN JETTED 30 bags cement so fo AIR-ROTary AIR-PERcussion ROTARY (Hydraulic Rotary) 37 CABLE **DRive-POINT** HUTan - 40+ gpm other 270' steel casing REPLACEMENT OR DEEPENED WELLS (CIRCLE APPROPRIATE BOX) N THIS WELL WILL NOT REPLACE AN EXISTING WELL TAKS WELL WILL REPLACE A WELL THAT WILL BE Y NDONED AND SEALED AB THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY 13 39 ursuant to § 10-624 of the State Govt\_Article of the FOR POLICY ON STANDBY WELLS Maryland Code, personal info requested on this form 10 THIS WELL WILL DEEPEN AN EXISTING WELL is used in processing this form pursuant to COMAR. 26.04.04. Failure to provide the info may result in PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPENED this form not being processed. You have the right to inspect, amend, or correct this form. The Maryland (IF AVAILABLE) 95 0 -- 0 5 4 952 Not to be filled in by driller (MDE OR COUNTY USE ONLY) 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 APPROP. PERMIT NUMBER is subject to inspection or copying, in whole or in part, by the public and other governmental agencies, if not 036 PERMIT No. protected by federal or State Law.



Bureau of Environmental Health 8930 Stanford Blvd | Columbia, MD 21045 410.313.2640 - Voice/Relay 410.313.2648 - Fax 1.866.313.6300 - Toll Free

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

February 21, 2019

Stephan Weinman & Laurie Driver 840 Oella Ave #418 Ellicott City, MD 21043

Re: Water sample results for well #HO-17-0361 at 12510 Triadelphia Road

Dear Stephan & Laurie,

The Health Department received results from testing for sodium, chloride, and total dissolved solids (TDS) from the replacement well #HO-17-0361 at 12510 Triadelphia Road.

Elevated sodium levels in drinking water could affect individuals on low-salt diets. The action level for sodium is 20 milligrams per liter (mg/L); **sodium from the well measured 6.03 mg/L.** 

Chloride and TDS are both considered secondary contaminants, meaning high concentrations can 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 <10 mg/L. The secondary maximum contaminant level for TDS is 500 mg/L; TDS from the well measured 104 mg/L.

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

Sincerely,

Sah alli

Sarah Collins, L.E.H.S. Howard County Health Department Well & Septic Program <u>SCollins@howardcountymd.gov</u> 410-313-6287

Cc: File

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Send Report To:	State of Maryland	
SARAH COLLINS	DHMH – Laboratories Administration	
	Division of Environmental Sciences	E19002323001
Howard County Health Department	TRACE METALS LABORATORY	Received: 01/29/2019
Bureau of Environmental Health	1770 Ashland Avenue	Metals HOJCO36INA
930 Stanford Blvd.	Baltimore, Maryland 21205	
Columbia, Maryland 21045	LABORATORY ANALYSIS REQUEST	
and provide states in the second	LABORATORT ARAELOID RECOLD	Do not write above this line
	Please Print HO-17-0361	0
Sample ID No: Holco361NAS	ite Name: THE WOODS LOT T	County: HowARD
Sample Source: 12510 TP	ADELPHIA ROAD Colle	ctor: CABAHUG, J.
	Time Collected: 130 a.m./ p.m. Pho	12 13- 01-29-19
Sample Preserved By: Field Preservativ	re Used: I HNO3mL pH	
Sample Type: Drinkin Data Category D Comm	0	(Raw Water) De Liquid (Treated) D Solid
Code		
Specify Program: SDWA	NPDES CWA CRCRA Consume	r Products 🖸 Other
Type of Sample Preparation:	Total Metals TCLP	(field preparation required)
Remarks: JAMPLED AT	YIELD /	
-	and the second	

1	Element	Lab Use -	1	Element	Lab Use	.v.	Element	Lab Use
-	Antimony (Sb)	1 - Marcal	-	Aluminum (Al)	, з <sub>к</sub>	-	Uranium (U)	
	Arsenic (As)	· · ·		Calcium (Ca)			Vanadium (V)	
	Barium (Ba)			Cobalt (Co)	,		Zinc (Zn)	
-	Beryllium (Be)	•		Copper (Cu)	T	-		- 120
	Cadmium (Cd)	7		Iron (Fe)	ат			2.10
-	Chromium (Cr)			Lead (Pb)	-			
	Mercury (Hg)	-	A	Magnesium (Mg)	1-1-1	-		
la si	Nickel (Ni)	11		Manganese (Mn)				5
-	Selenium (Se)	e é	4 P	Molybdenum (Mo)				•
1	Sodium (Na)	SHS		Potassium (K)			RE	CEIVED
	Thallium (Tl)			Silver (Ag)				

DHMH 4432 (05/17)

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SUBMITTER'S COPY

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HOWARD COUNTY HEALTH DEPT. COMMUNITY HYGIENE PROGRAM

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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: E19002323 Date Coll.: 01/28/2019 Date Received: 01/29/2019 Submitted By: Cabahug

### Field ID: HOJCO36INA Lab No.: E19002323001

Method	Element	Result	Units	Date Analyzed	
EPA 200.7	Sodium	6.03	maa	02/07/2019	

#### Comments:

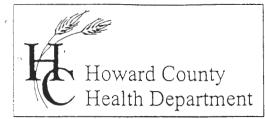
Sadia Mi Approved by:

Approval date: 02/11/2019

\*\*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.

S:\EnviroFinal-Metals.rpt



Penny E. Borenstein, M.D., M.P.H., Health Officer

# ATTENTION WELL DRILLERS!!!

When submitting a well application for a new or replacement well, please indicate one of the following:

The well site has been staked by FSH associates on <u>9-13-06</u> and is ready for site inspection. will call the Health Department for a time to meet in the field to verify a well location. Site plan for new well is attached to well permit application.

Please attach this sheet when submitting your green application. This should help improve communication allowing a more timely service for our citizens.

KN

Lot 13 Treadelphia Estates Creenfield Homes

410-781-6782

## MICHAEL BARLOW WELL DRILLING 522 UNDERWOOD LANE BEL AIR, MD 21014 410-838-6910

Howard County Health Department 7178 Columbia Gateway Drive Columbia, MD 21046 Attn: Kevin Wolf

November 21, 2018

Re: 12510 Triadelphia Road - HO-17-0361

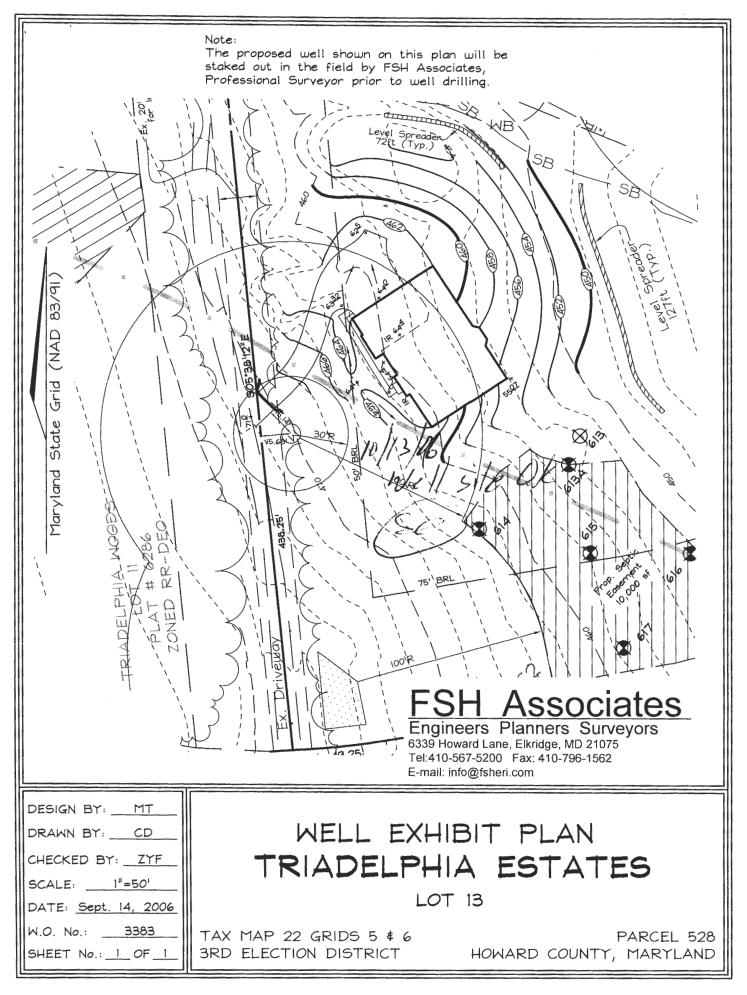
Per a request by the customer, we will be transferring the permit for the above property to Allied Well Drilling.

11/30/18

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Michael Barlow MWD355





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:

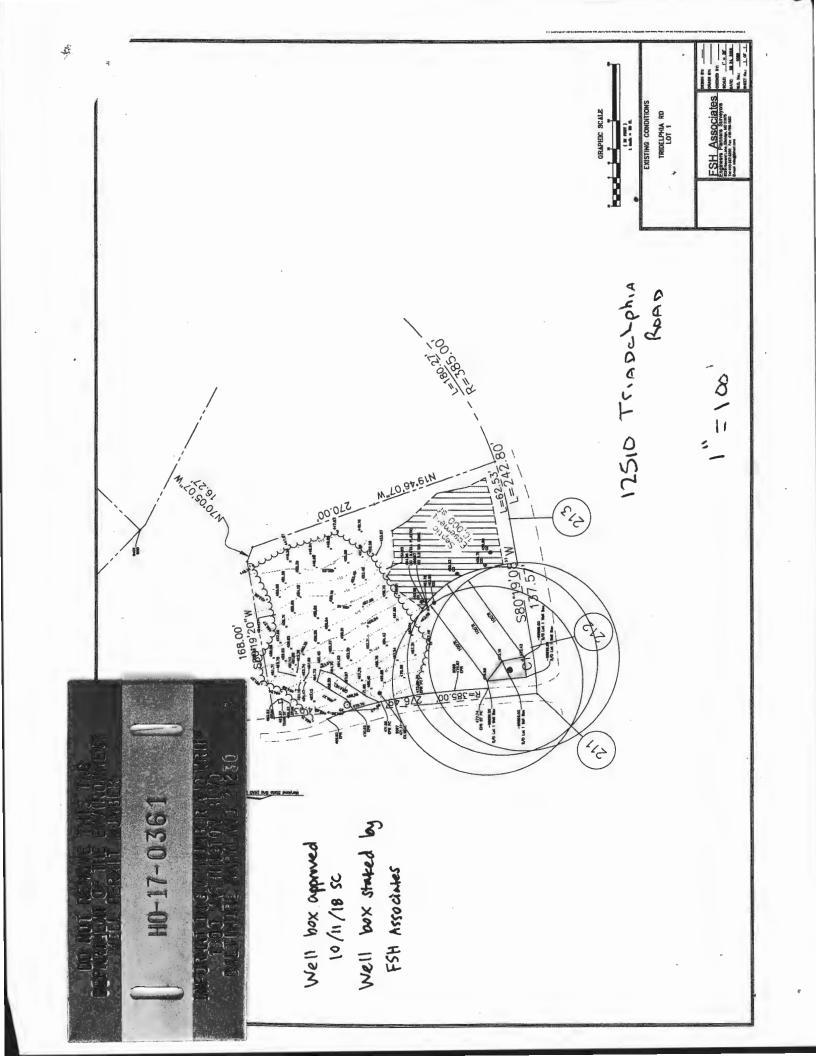
Well Site Location: WOODS AT TRIAbelohia 12510 Triadelphia ROAD 12510 Triabelphia RD Road Name Subdivision/Property Name Lot# FSH The well site has been staked by (professional land surveyor or company employing professional land surveyors) (date) and does not require a site inspection. on 10

□ 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.

Revised 4/22/14

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Bur 893	Report To: DARAH COLLINS Ward County Health Department reau of Environmental Health 30 Stanford Blvd. umbia, Maryland 21045	E19002321001 Received: 01/29/2019 Inorganic HOJC0361TD
A M P L Coll E CH I Lar Str		County HowAPD Code Data Category Code Data Category Code Data Category Data Category Data Category Code Data Category Category Code Data Category Code Data Category
I E pl	ant No. Sampling Preservation: Icen H Chlorine: Free Total OC Spec otes to Lab/Remarks: SAMPLED AT YIELD	Acid Type of Acid

CHECK TESTS	TESTS	Error Code	RESULTS
	Alkalinity (Total)		
-	Ammonia - N		
	Chloride		
	Conductance*, Spec.		
	Dissolved Solids (Total)		
	Hardness		
	Fluoride	1	
	Nitrite, N		
	Nitrate + Nitrite, N		
	Sulfate	*	
	Total Solids		
	Turbidity*		
	Other:		
	* TEMP, CONTROL TEMPERATURE=	9.7°C	
		- 4	

\* Results reported in Units, all others in milligrams per liter (ppm) Number of SAMPLE TESTED AS RECEIVED

Date

Reported.

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**Tests Requested** 

Section Chief\_\_\_\_\_\_SUBMITTER'S COPY\_



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 NoE19002321 Date Coll. 01/28/2019 Date Received 01/29/2019 Submitted By: J. Cabahug

Field ID: HOJC0361TD Lab No.: E19002321001 Analyte Method Result Units Date Analyzed Chloride SM 4500-CI E <10 mg/L 02/04/2019 Total Dissolved Solids SM 2540C 104 mg/L 02/04/2019

Comments:

Approved by:

Shahlen andi

Approval date: 02/08/2019

\*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.



Bureau of Environmental Health 8930 Stanford Blvd | Columbia, MD 21045 410.313.2640 - Voice/Relay 410.313.2648 - Fax 1.866.313.6300 - Toll Free

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

# INTERIM CERTIFICATE OF POTABILITY [PERMANENT DEVIATION FOR BACTERIA]

Expiration Date – JULY 10, 2020

January 10, 2020

Homeowner 12510 Triadelphia Road Ellicott City, MD 21042

RE: The Woods @ Triadelphia, Lot 1 12510 Triadelphia Road Building Permit: B18003789 Well Permit: HO-17-0361

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 10/23/2019. Final approval of the well line connection to the dwelling was granted on 10/23/2019. The well construction was completed on 5/25/2019. Water samples were collected on 12/6/2019, 12/13/2019, 12/16/2019, 12/19/2019.

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

After installation of a water disinfection device (UV light), a post-treatment water sample was collected on 12/16/2019 indicated that the treated water was free from coliform backteria and is bacteriologically safe for drinking.

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

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

- 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 nitrates analysis perform a <u>yearly</u> nitrate analysis.
- 3. If you decide to sell or rent your home in the future, you <u>must</u> make any potential buyer/tenant aware of this permanent deviation. A person who fails to make this disclosure is subject to the penalties set out in COMAR 26.04.04. *Enforcement* and Environment Article 9-1311, Annotated Code of Maryland.



Bureau of Environmental Health 8930 Stanford Blvd | Columbia, MD 21045 410.313.2640 - Voice/Relay 410.313.2648 - Fax 1.866.313.6300 - Toll Free

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

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-17-0361. 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 "<u>Homeowner Fact Sheet</u>" which illustrates a better understanding for your onsite sewage disposal system. You will also find a link to Maryland Department of the Environments website which describes in further detail operation and maintenance of your septic system.

Approving Authority,

hin to lay

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 FAX (410) 848-0298

## **REPORT OF ANALYSIS**

Laboratorv ID #:	134495	*	Account #:	4226	
Reference:	Viking Developme		Company:	Viking Development Corporation	
Location:	12510 Triadelphia		Requested By:	: Cary Cumberland	
Date/ Time Collected:	Ellicott City, MD		Source: Site:	Well Water Pressure Tank	
Date/Time Rec'd:	12/6/2019	1335	Treatment:	None	
Chlorine ppm:	Free: ND	Total: ND	pH:	6.8	
Collected By:	J. Yeager	6176JY	Well #:	HO-17-0361	

PARAMETERS	RESULTS	UNITS RE	FERENCE	METHOD D	ATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	20.7	MPN/ 100 ml	<1.0	SM20 9223B	12/7/2019 / 0930 / LLO
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	12/7/2019 / 0930 / LLO
Nitrate	<1.0	mg/L	10	601	12/6/2019 / 1515 / RER
Turbidity	8.42	NTU	<10	SM20 2130B	12/6/2019 / 1535 / RER
Sand	NS	mg/L	5	Visual/Gravimetric	12/6/2019 / 1535 / RER
Iron	1.21	mg/L	0.3*	FR, 45 (126)	12/6/2019 / 1430 / CRS

#### NOTES

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

<b>Reason for Test :</b>	Use & Occupancy
Building Permit # :	B18003789

#### Date Reported: <u>12/9/2019</u>

## 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 #:	134671		Account #:	4226
Reference:	Viking Developme	ent Corporation	Company:	Viking Development Corporation
Location:	12510 Triadelphia	Road	Requested By:	Cary Cumberland
	Ellicott City, MD	21042	Source:	Well Water
Date/ Time Collected:	: 12/13/2019	1030	Site:	Powder Room Tap
Date/Time Rec'd:	12/13/2019	1344	Treatment:	**
Chlorine ppm:	Free: ND	Total: ND	pH:	10.1
Collected By:	J. Yeager	0819JY	Well #:	HO-17-0361
PARAMETERS	RESU	ILTS UNITS	REFERENCE	METHOD DATE/TIME/ANALYST
Iron	0.06	6 mg/L	0.3*	FR, 45 (126) 12/13/2019 / 1515 / RER

#### NOTES

- 1 \*\*Sample collected after Neutralizer/Softener/Iron Remover/UV Light
- 2 \*SMCL = Secondary Maximum Contaminant Level
- 3 mg/L = milligrams per liter (also, parts per million)
- 4 Visual well check: Sealed, vented cap
- 5 ND = None Detected
- 6 pH & Chlorine level tested on site

Reason for Test :Use & OccupancyBuilding Permit # :B18003789

#### Date Reported: <u>12/16/2019</u>

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 #: Reference: Location:	134669 Viking Developmen 12510 Triadelphia F	load	Account #: Company: Requested By:	Cary Cumb	
Date/ Time Collected: Date/Time Rec'd: Chlorine ppm: Collected By:	12/13/2019	1042 1010 1344 Total: ND 0819JY	Source: Site: Treatment: pH: Well #:	Well Water Pressure Ta ** 6.6 HO-17-036	ank
PARAMETERS Bacteria, Coliform, Total, Bacteria, E. coli, MPN	MPN 1.0 <1.0	TS UNITS MPN/100 MPN/100	ml <1.0	METHOD SM20 9223B SM20 9223B	DATE/TIME/ANALYST 12/14/2019 / 0900 / CRS 12/14/2019 / 0900 / CRS

#### NOTES

- 1 \*\*Sample collected prior to Neutralizer/Softener/Iron Remover/UV Light
- 2 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 3 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 4 Visual well check: Sealed, vented cap
- 5 ND = None Detected
- 6 pH & Chlorine level tested on site

Reason for Test :Use & OccupancyBuilding Permit # :B18003789

Date Reported: <u>12/16/2019</u>

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 #:	134670			Account #:	4226	
Reference:	U	elopment Cor	poration	Company:		velopment Corporation
Location:	12510 Triad	12510 Triadelphia Road			: Cary Cum	berland
	Ellicott City	, MD 21042		Source:	Well Wate	r
Date/ Time Collected	: 12/13/2019	1010		Site:	Pressure T	ank
Date/Time Rec'd:	12/13/2019	1344		Treatment:	**	
Chlorine ppm:	Free: ND	Total	I: ND	pH:	6.6	
Collected By:	J. Yeager	0819	JY	Well #:	HO-17-03	61
PARAMETERS	-	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Iron		2.81	mg/L	0.3*	FR, 45 (126)	12/13/2019 / 1515 / RER

#### NOTES

- 1 \*\*Sample collected prior to Neutralizer/Softener/Iron Remover/UV Light
- 2 \*SMCL = Secondary Maximum Contaminant Level
- 3 mg/L = milligrams per liter (also, parts per million)
- 4 Visual well check: Sealed, vented cap
- 5 ND = None Detected
- 6 pH & Chlorine level tested on site

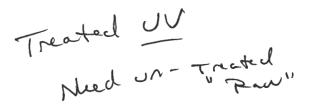
Reason for Test :Use & OccupancyBuilding Permit # :B18003789

Date Reported: <u>12/16/2019</u>

## 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 #:	134700		Account #:	4226
Reference:	Viking Developr	nent Corporation	Company:	Viking Development Corporation
Location:	12510 Triadelph	ia Road	Requested By:	Cary Cumberland
	Ellicott City, MI	0 21042	Source:	Well Water
Date/ Time Collected	: 12/16/2019	1215	Site:	-Powder Room Bathroom Tap
Date/Time Rec'd:	12/16/2019	1540	Treatment:	**
Chlorine ppm:	Free: ND	Total: ND	pH:	9.8
Collected By:	J. Yeager	0819JY	Well #:	HO-17-0361
PARAMETERS	RE	SULTS UNITS	REFERENCE	METHOD DATE/TIME/ANALYST
Bacteria, Coliform, Total,	, MPN <	1.0 MPN/ 100	ml <1.0	SM20 9223B 12/17/2019 / 1030 / RER
Bacteria, E. coli, MPN	<	1.0 MPN/ 100	ml <1.0	SM20 9223B 12/17/2019 / 1030 / RER



#### NOTES

- 1 (\*\*Sample collected after Neutralizer/Softener/Iron Remover/UV Light
- 2 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 3 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 4 Visual well check: Sealed, vented cap
- 5 ND = None Detected
- 6 pH & Chlorine level tested on site

<b>Reason for Test :</b>	Use & Occupancy
Building Permit # :	B18003789

#### Date Reported: <u>12/17/2019</u>

**MD State Certification # 133** 

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC. 1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

# **REPORT OF ANALYSIS**

Laboratorv ID #: Reference: Location:	134784 Viking Developr 12510 Triadelph	-	ion	Account #: Company: Requested By:	e	pment Corporation and
	Ellicott City, MI	0 21042		Source:	Well Water	
Date/ Time Collected	: 12/19/2019	1455		Site:	Pressure Tank	· · ·
Date/Time Rec'd:	12/19/2019	1550		Treatment:	**	
Chlorine ppm:	Free: ND	Total: NI	D	pH:	7.0	
Collected By:	J. Yeager	0819JY		Well #:	HO-17-0361	
PARAMETERS	RE	SULTS UN	ITS R			ATE/IIME/ANALYST
Bacteria, Coliform, Total,	MPN 1	.0 MPN	N/ 100 ml	<1.0	SM20 9223B	12/20/2019 / 1030 / RER
Bacteria, E. coli, MPN	<	1.0 MPN	N/ 100 ml	<1.0	SM20 9223B	12/20/2019 / 1030 / RER

#### NOTES

- 1 \*\*Sample collected prior to Neutralizer/Softener/Iron Remover/UV Light
- 2 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 3 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 4 Visual well check: Sealed, vented cap
- 5 ND = None Detected
- 6 pH & Chlorine level tested on site

<b>Reason for Test :</b>	Use & Occupancy
Building Permit # :	B18003789

Date Reported: <u>12/20/2019</u>

# 12510 Triadelphia Rd. FILE INQUIRY NOTES

DATE	RESULTS OF REVIEW FOR FILE					
10/10/18	Met Make Isom from Barlow Well Drilling on site. The well box					
	had been staked per perc cart. Make flagged a site to duril					
	and it was 92' off the existing septre tank. Moved flag to					
	be 100' off tank. (SC)					
	* * * F					
	5					
7	,					