

C1 40723

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 WELL COMPLETED

Depth of Well

PERMIT NO. FROM "PERMIT TO DRILL WELL"

DATE Received

06 15 17

300

OK 11/30/17

Ho-17-0118

OWNER Elm Street Development, WELL SITE ADDRESS HAVILAND MILL RD, TOWN CLARKSVILLE, SUBDIVISION Mill Creek, SECTION, LOT 21

WELL LOG

Not required for driven wells

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

Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Rows include Soil, Brown Shale, Med Gray Rock, Well #1 - 700' Drilled (Backfilled), Drill cuttings from 700 to 25 cement 25 to 0, 39.18537 76.99826

GROUTING RECORD

WELL HAS BEEN GROUTED (Circle Appropriate Box) YES [Y] NO [N], TYPE OF GROUTING MATERIAL (Circle one) CEMENT [CM] BENTONITE CLAY [BC], NO. OF BAGS 19 NO. OF POUNDS 1405, GALLONS OF WATER 95, DEPTH OF GROUT SEAL (to nearest foot) from 0 to 50 ft.

CASING RECORD

casings types insert appropriate code below, MAIN CASING TYPE [ST] Nominal diameter top (main) casing (nearest inch) 6, Total depth of main casing (nearest foot) 50

OTHER CASING (if used)

Table with columns: diameter inch, depth (feet) from, to

SCREEN RECORD

screen type or open hole (insert appropriate code below) [ST] [BR] [HO] [PL] [OT]

DEPTH (nearest ft.)

Table with columns: 1, 2, 3, 4, 5, 6, 7, 8, 9, 11, 15, 17, 21, 23, 24, 26, 30, 32, 36, 38, 39, 41, 45, 47, 51. Includes SLOT SIZE 1, 2, 3 and DIAMETER OF SCREEN (NEAREST INCH) from to

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

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

70 72 74 75 76 TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) 6, PUMPING RATE (gal. per min.) 1.50, METHOD USED TO MEASURE PUMPING RATE Submersible, WATER LEVEL (distance from land surface) BEFORE PUMPING 20 ft, WHEN PUMPING 150 ft, TYPE OF PUMP USED (for test) [S] submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES [X] NO, IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS. TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29. CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35, PUMP HORSE POWER 37 41, PUMP COLUMN LENGTH (nearest ft.) 43 47, CASING HEIGHT (circle appropriate box and enter casing height) [+ above] LAND SURFACE [] below (nearest foot) 1

LATITUDE 39.18530 LONGITUDE 76.99802 (DEFAULT COORD. WGS 84)

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

31 32978

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL 559843-7 please type

STATE PERMIT NUMBER H0-17-0118 fill in this form completely

Date Received (APA) 11/6/16 OWNER INFORMATION Elm Street Development 1355 Beverly Rd, Suite 240 Maclean, VA 22101

LOCATION OF WELL Howard Mill Creek Clarksville

DRILLER INFORMATION Michael Barion MWD 355 Barion Well Drilling 522 Underwood Ln, Bel Air 21014

SOURCES OF DRILLING WATER Well Haviland Mill Rd 700 39 6 000

WELL INFORMATION APPROX. PUMPING RATE 5 750 AVERAGE DAILY QUANTITY NEEDED 750

USE FOR WATER DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL HOWARD 555364-B 13

APPROXIMATE DEPTH OF WELL 300 FEET APPROXIMATE DIAMETER OF WELL 6 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) AIR-PERCUSSION

REPLACEMENT OR DEEPEINED WELLS (CIRCLE APPROPRIATE BOX) THIS WELL WILL NOT REPLACE AN EXISTING WELL

Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER H02016G002 PERMIT No. H0-17-0118

SPECIAL CONDITIONS SEE ATTACHED MEMO

Steel casing - 9 to 50' or 10' into competent bedrock whichever is deeper



MICHAEL BARLOW WELL DRILLING & SERVICE, INC.

522 Underwood Lane
(410) 838-6910

Bel Air, Maryland 21014
Fax (410) 838-3582

WELL YIELD REPORT

Date Test Completed:		June 13, 2017	
Well Depth:		300	feet
Customer	Elm Street Development	Permit #	HO-17-0118
Road	Haviland Mill Road	Subdivision	Mill Creek
City	Clarksville	Section	
State	Maryland	Lot #	21

Time	Water Level feet	Time to Fill 1-gallon bucket seconds	G.P.M.
7:00 AM	20	4	15.00
7:15 AM	105	6	10.00
7:30 AM	150	40	1.50
7:45 AM	150	40	1.50
8:00 AM	150	40	1.50
8:15 AM	150	40	1.50
8:30 AM	150	40	1.50
8:45 AM	150	40	1.50
9:00 AM	150	40	1.50
9:15 AM	150	40	1.50
9:30 AM	150	40	1.50
9:45 AM	150	40	1.50
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10:45 AM	150	40	1.50
11:00 AM	150	40	1.50
11:15 AM	150	40	1.50
11:30 AM	150	40	1.50
11:45 AM	150	40	1.50
12:00 PM	150	40	1.50
12:15 PM	150	40	1.50
12:30 PM	150	40	1.50
12:45 PM	150	40	1.50
1:00 PM	150	40	1.50
1:15 PM	150	40	1.50
1:30 PM	150	40	1.50
This yield test report is for informational purposes only. Please note the yield may increase or decrease over time and the GPM indicated above is not a guarantee.			

**HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
WELL & SEPTIC PROGRAM
TEL: (410)513-1771 FAX: (410)513-2648**

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

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: Fogarty Well Pump & Water Treatment, LLC Telephone #: 410 795 5670
 Address: 530 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. FOGARTY License # MD50226

*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: NVR INC Telephone #: _____
 Subdivision: MILL CREEK Lot # 21 Well Tag # HO-17-0118 ✓
 Site Address: 13825 Mill Creek Ct
Clarksville, MD 21029

Submersible Pump Data	Pitless Adapter	Well Cap and Electric Conduit
Make: <u>Squibs</u>	Make: <u>Campbell II</u>	Two piece watertight cap: <u>YES</u>
Model #: <u>14505422</u>	Model #: <u>N/A</u>	Screened, vented well cap: <u>YES</u>
Pump Capacity: <u>7</u> GPM	Depth: <u>36</u> (36" min)	Cap secured to casing: <u>YES</u>
Well Yield: <u>1.5</u> GPM	NSE/WSC approved: <u>YES</u>	Conduit min 1 1/2" R.G.: <u>YES</u>
Depth of well encountered at time of pump installation: <u>300</u> (225)		Conduit secured to well cap: <u>YES</u>

If pump capacity exceeds well yield, a low water cutoff switch is required by NSPC 1990 Section 17.8.4
 Torque arrestors, Cable guards, or other acceptable method used— Must circle one
 Safety rope, if used, attached to brass rope adaptor or other acceptable method inside of well casing. N/A

Piping to house	House Connection
Type: <u>1" poly pipe</u>	PVC sleeve to undisturbed soil at wall penetration: <u>YES</u>
PSI: <u>200</u> (50 psi min)	Length of sleeve (minimum from foundation): <u>6</u>
Depth of supply line: <u>36</u> (36" min)	Sleeve sealed properly: <u>YES</u>

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

Signature of company representative responsible for installation: David C. Fogarty date: 2/14/19

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

Date Insp Requested: 2/5/19 Date Insp Approved: 2/6/19 Inspector: SC

Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade	<u>✓</u>
Two piece cap installed and attached to casing securely	<u>✓</u>
Elec. conduit extends at least 18" below grade/attached to cap properly	<u>✓</u>
Safety rope not outside of well cap/casing	<u>✓</u>
Correct well tag attached properly and casing 8" above finished grade	<u>✓</u>
Water supply line sleeved adequately at house connection	<u>✓</u>
Adequate grout observed below pitless adapter	<u>✓</u>

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – September 22, 2019

April 22, 2019

Homeowner
13825 Mill Creek Court
Clarksville, MD 21029

RE:

**13825 Mill Creek Court
Building Permit: B18003850
Well Permit: HO-17-0118**

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 **4/22/2019**. Final approval of the well line connection to the dwelling was granted on **2/6/2019**. The well construction was completed on **06/15/2017**. Water samples were collected on **3/12/2019, 3/21/2019**.

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. 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-17-0118. 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 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>

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

In closing, please refer to our "[Homeowner Fact Sheet](#)" which illustrates a better understanding for your Onsite Sewage Disposal System. You will also find a link to Maryland Department of the Environment's website which describes in further detail operation and maintenance of your septic system.

Approving Authority,



Dana Bernard, LEHS, R.S./REHS,
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 #: 129162 Account #: 1933
Reference: Mill Creek Lot 21 Company: Fogles Well Pump & Treatment
Location: 13825 Mill Creek Court Requested By: Dave Fogle
Clarksville, MD 21029 Source: Well Water
Date/ Time Collected: 3/21/2019 1425 Site: Pressure Tank
Date/Time Rec'd: 3/21/2019 1557 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 6.3
Collected By: B. Wilkerson 9315BW Well #: HO-17-0118

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	3/22/2019 / 1005 / RER
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	3/22/2019 / 1005 / RER

dc

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 Sample collected by client, analyzed as received
- 4 ND:None Detected
- 5 Visual well check: Sealed, vented cap
- 6 pH and Chlorine level tested in lab (pH tested after recommended holding time)

Reason for Test : Use & Occupancy

Building Permit # : 18003850

Date Reported: 3/22/2019

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 #: 128979 Account #: 1933
Reference: Mill Creek Lot 21 Company: Fogles Well Pump & Treatment
Location: 13825 Mill Creek Court Requested By: Dave Fogle
Clarksville, MD 21029 Source: Well Water
Date/ Time Collected: 3/12/2019 0715 Site: Pressure Tank
Date/Time Rec'd: 3/12/2019 1115 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 6.5
Collected By: B. Wilkerson 9315BW Well #: HO-17-0118

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	4.2	MPN/ 100 ml	<1.0	SM20 9223B	3/13/2019 / 0915 / RER
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	3/13/2019 / 0915 / RER
Nitrate	<1.0	mg/L	10	601	3/12/2019 / 1530 / CRS
Turbidity	3.12	NTU	<10	SM20 2130B	3/12/2019 / 1545 / CRS
Sand	NS	mg/L	5	Visual/Gravimetric	3/12/2019 / 1545 / CRS

OK
/

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 NS = None Seen (NS indicates less than 5 mg/L)
- 4 NTU = Nephelometric Turbidity Units
- 5 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 6 Sample collected by client, analyzed as received
- 7 ND:None Detected
- 8 Visual well check: Sealed, vented cap
- 9 pH and Chlorine level tested in lab (pH tested after recommended holding time)

Reason for Test : Use & Occupancy

Building Permit # : 18003850

Date Reported: 3/13/2019

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

March 7, 2018

Homeowner

Clarksville, MD 21029

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 5.70 mg/L.**

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 <10 mg/L.** The secondary maximum contaminant level for TDS is 500 mg/L; **TDS from the well measured 70 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*

Send Report To: Bert Nixon

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



E17004937001

Received: 06/14/2017

Metals

HO-17-0118

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

D

Sample ID No: HO-17-0118 Site Name: Mill Creek - Lot 21 County: Howard

Sample Source: Haviland Mill Rd. Highland Collector: A. Bialek
Street Town or City Name

Date Collected: 6-13-17 Time Collected: 10:30 a.m. p.m. Phone #: 410-313-7549

Sample Preserved By: Field ESRL WMRL Central Lab

Preservative Used: HNO₃ mL pH: 2.2

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	Results (ppm)	✓	Element	Results (ppm)
	Antimony (Sb)			Copper (Cu)	
	Arsenic (As)			Lead (Pb)	
	Barium (Ba)			Silver (Ag)	
	Beryllium (Be)			Zinc (Zn)	
	Cadmium (Cd)			Aluminum (Al)	
	Chromium (Cr)			Iron (Fe)	
	Mercury (Hg)			Manganese (Mn)	
	Nickel (Ni)			Calcium (Ca)	
	Selenium (Se)			Magnesium (Mg)	
✓	Sodium (Na) SHS			Potassium (K)	
	Thallium (Tl)			Uranium (U)	
				Vanadium (V)	

RECEIVED
JUL 07 2017
HOWARD COUNTY HEALTH DEPT.
COMMUNITY HYGIENE PROGRAM

Lab Supervisor: _____

Date Reported: ____/____/____

•Phone: (443) 681-3857

•Fax: (443) 681-4507

DHMH 4432 (05/15)

SUBMITTER'S COPY



State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Chemistry
TRACE METALS LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director



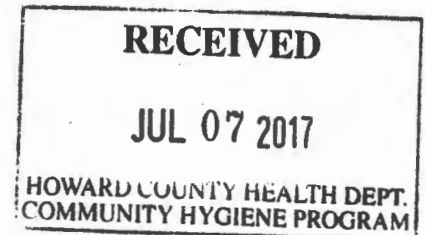
Certificate of Analysis

HOWARD CO ENVIRONMENTAL HLTH
8930 STANFORD BLVD
COLUMBIA, MD 21045

Lab Project No: E17004937 Date Coll.: 06/13/2017 Date Received 06/14/2017 Submitted By: Bialek

Field ID: HO-17-0118
Lab No.: E17004937001

<u>Method</u>	<u>Element</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
EPA 200.7	Sodium	5.70	ppm	06/27/2017



Comments:

Approved by: Salia Muneer

Approval date: 06/28/2017

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

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.



State of Maryland
DHMH-Laboratories Administration
Division of Environmental Chemistry
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 NoE17004935 Date Coll. 06/13/2017 Date Received 06/14/2017 Submitted By: Bialek

Field ID: HO-17-0118
Lab No.: E17004935001

<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
Chloride	SM 4500-Cl E	<10	mg/L	06/19/2017
Total Dissolved Solids	SM 2540C	70	mg/L	06/14/2017

Comments:

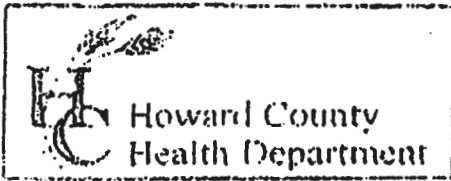
Approved by: _____

Shahla Aneli

Approval date: 06/20/2017

*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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Howard County
Health Department

3525 H Ellicott Mills Drive, Ellicott City, MD 21043
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., 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:

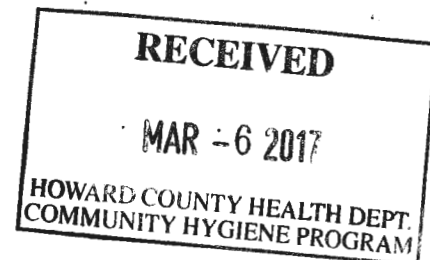
All individual well sites for lots 2-23 of Mill Creek are staked + properly labeled

The well site has been staked by Bohler Engineering,
(professional land surveyor or company employing professional land surveyors)
on 3/3/17 (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.

Revised 6/10/03



 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: 6/15/17 (month/day/year)

* PERMIT NUMBER OF ABANDONED WELL (if any)

* PERMIT NUMBER OF REPLACEMENT WELL:

HO-17-0118

* PERSON ABANDONING WELL: Michael Barlow WELL DRILLER'S LICENSE NUMBER: 355

* OWNER'S NAME: Elm Street Development CIRCLE (MWD) / MSD / MGD

SITE LOCATION MAP

* WELL LOCATION: Howard
 COUNTY: Howard
 NEAREST TOWN: CLARKSVILLE
 TAX MAP 39 BLOCK 6 PARCEL 0001
 SUBDIVISION: Mill Creek
 SECTION: _____ LOT: 21
 STREET ADDRESS: HAVILAND Mill Rd

Drilled Within Approved Well Area

LATITUDE 3 9.18537
 LONGITUDE 76.99826

LOG OF SEALING MATERIAL

MATERIAL	FEET	
	FROM	TO
Drill Cuttings	700	25
Cement Grout	25	0
VOLUME OF MATERIAL USED		
<u>600 lbs Cement Grout</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) Drill Hole

SIZE OF CASING: 6 INCHES IN DIAMETER

DEPTH OF WELL: 700 FEET DEEP

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

WAS CASING RIPPED OR PERFORATED? YES NO

[Signature] 355
 SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE#

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.

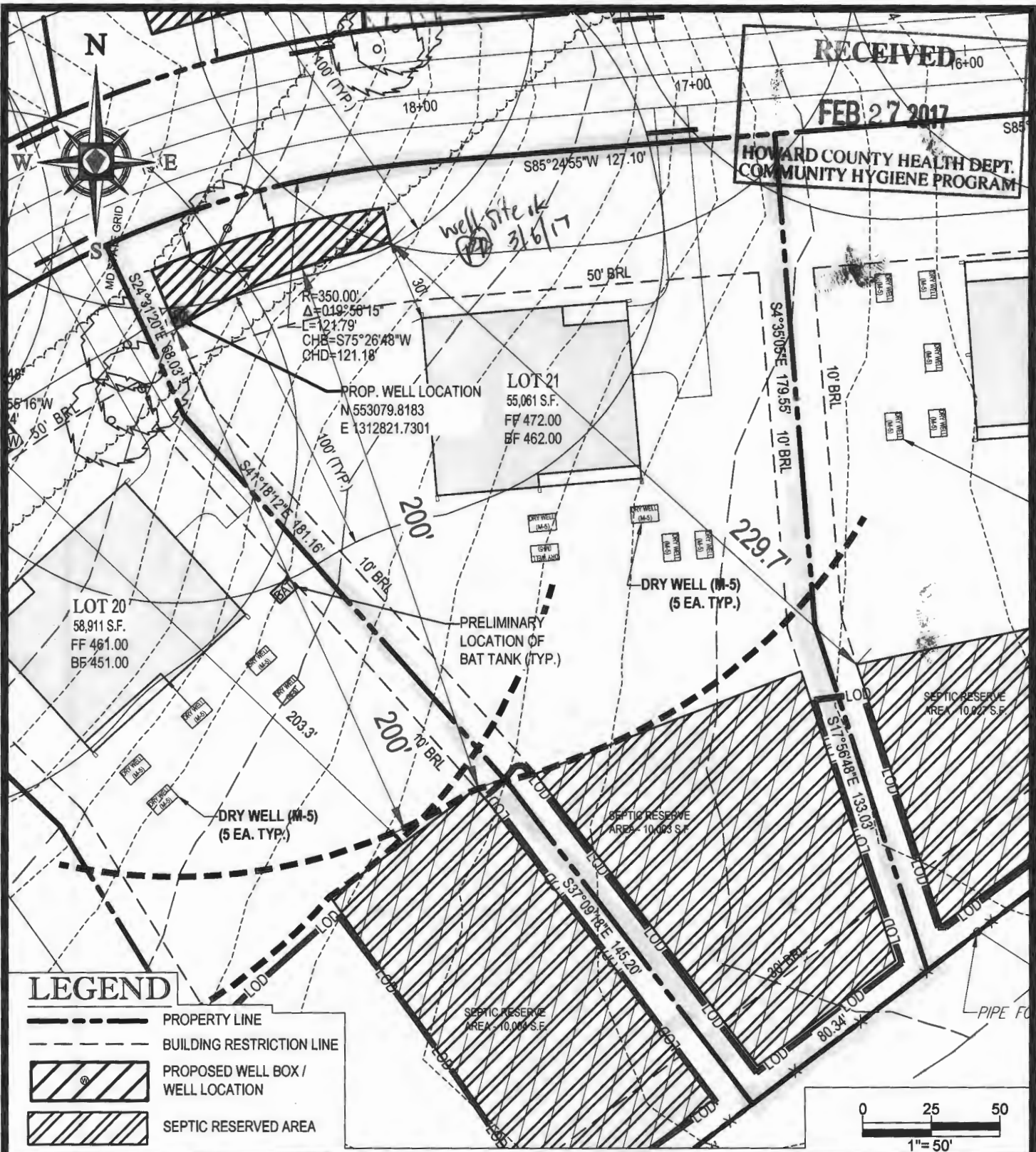
CIRCLE ONE MWD / MSD / MGS 12/18/17
 DATE

COUNTY





RECEIVED 16+00

FEB 27 2017

HOWARD COUNTY HEALTH DEPT.
COMMUNITY HYGIENE PROGRAM



LEGEND

-  PROPERTY LINE
-  BUILDING RESTRICTION LINE
-  PROPOSED WELL BOX / WELL LOCATION
-  SEPTIC RESERVED AREA

PROJECT NAME: **MILL CREEK SUBDIVISION**
PROPOSED LOTS 1-23 & NONBUILDABLE PRESERVATION PARCEL A - G HD-17-0118
 6780 HAVILAND MILL ROAD, CLARKSVILLE, MD

SHEET TITLE:
WELL EXHIBIT - LOT 21
 1 OF 1

SCALE: 1" = 50'	DATE: 02-21-17	CAD ID: EXO	PROJECT NUMBER: MD142038
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Bureau of Environmental Health


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

LOT 21

MEMORANDUM

TO: Barlow Well Drilling

FROM: Ryan Rappaport, L.E.H.S.
Well and Septic Program 

DATE: March 1, 2017

RE: **State Water Appropriation and Use Permit for Crawford Property/Mill Creek Subdivision #HO2016G002(01) & Special Conditions**

The State Water Appropriation and Use Permit for the Crawford Property/Mill Creek Subdivision has a requirement regarding well spacing and testing:

15. The Permittee shall conduct simultaneous yield tests of wells closer than 100 feet apart, if at least one of the wells is on a lot less than one acre in size. The yield testing shall be conducted to ensure that the minimum yield requirements of COMAR 26.04.04.26 are met. In the event that a well that has been tested simultaneously with other wells does not meet minimum yield standards, the Permittee may relocate a well so as to achieve the 100-foot separation distance, deepen or otherwise modify the well to improve its yield or drill a second well to be used in tandem to meet the minimum yield standards during simultaneous testing. All wells shall comply with well construction standards.

The lots of the Crawford Property/Mill Creek Subdivision that are less than an acre are lots 2, 3, 12, 13 and 18. If a well on one of these lots is within 100' of another well, a simultaneous yield test of both wells will be required.

SPECIAL CONDITIONS

- All drilling, grouting and yields must be called into the Health Department for inspection. Call 410-313-1771 for scheduling.
- Since all 23 lots have the well locations staked and not the lot's well boxes it is required that if during the drilling a dry hole is encountered, the Health Department must be notified immediately before any additional drilling is completed on that particular lot.
- The wells on lots 1, 7, 15 and 19 will require TDS, sodium and chloride water samples during the yield test.
- The wells on lots 20 and 21 must be drilled using steel casing that extends to at least 50 feet depth or 10 feet into competent bedrock, whichever is deeper.

Feel free to contact me with any questions at 410-313-1781 or RRappaport@howardcountymd.gov.

Cc: File

Collins, Sarah

From: Mike Isom <misom@mbwd.us>
Sent: Friday, October 20, 2017 9:09 AM
To: Wolf, Kevin; Collins, Sarah
Subject: Mill Creek

Follow Up Flag: Flag for follow up
Flag Status: Completed

Wanted to let you know that we were asked to extend the pvc well casings on lots 4, 5, 6, & 7 and the steel casings on lots 20 & 21 because of changes in the grade. All of them were extended at least 7 feet, so grout will not be visible any longer and likely won't be apparent when the water lines are excavated. The tags were relocated and will be visible after the grading is complete.

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Sincerely,

Michael Isom
Project Manager
Michael Barlow Well Drilling Service
Phone: (410) 838-6910
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