

WS25167

B 1 5972

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND PERMIT TO DRILL WELL

STATE PERMIT NUMBER

HD-95-0493

fill in this form completely

Date Received (APA)

OWNER INFORMATION

8 MM DD YY 13
Toll Brothers
15 Last Name Owner First Name 34
14324 Tradebha Rd.
36 Street or RFD 55
Glenelg Md. 21737
57 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL

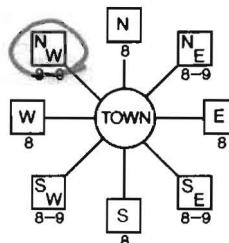
8 COUNTY 21
Howard
23 SUBDIVISION 42
Benedict Farm
SECTION 44 46 LOT 24 48 50
Columbia
52 NEAREST TOWN 71
MILES FROM TOWN (enter 0 if in town) 3 M I
73 76 77 78

DRILLER INFORMATION

Andrew R. Houseman
Allen Compton M S D 009
76 License No. 81
Fogles Well Drilling
580 Obrecht Rd
Address
Signature Date 8-3-06

B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



11 NEAR WHAT ROAD 30
Fox River DR

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

34 290 37
DISTANCE FROM ROAD FT

ENTER FT OR MI 38 39

TAX MAP: 29 BLK: 9 PARCEL 28

B 2 WELL INFORMATION

APPROX. PUMPING RATE 5
(GAL. PER MIN.) 8 12
AVERAGE DAILY QUANTITY NEEDED 500
(GAL. PER DAY) 14 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- [D] DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
[F] FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
[] INDUSTRIAL, COMMERCIAL, DEWATERING
[P] PUBLIC WATER SUPPLY WELL
[T] TEST, OBSERVATION, MONITORING
[G] GEO-THERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard AS15042
COUNTY NAME COUNTY NO.
STATE SIGNATURE INSERT S
DATE ISSUED 8/7/07
43 MM DD YY 48 CO SIGNATURE EXP. DATE
NORTH GRID 510 0 0 0 EAST GRID 824 0 0 0
50 55 57 63

APPROXIMATE DEPTH OF WELL 300 FEET
24 28

APPROXIMATE DIAMETER OF WELL 6 NEAREST INCH

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)

- [N] THIS WELL WILL NOT REPLACE AN EXISTING WELL
[Y] THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
[S] THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
[D] THIS WELL WILL DEEPEM AN EXISTING WELL

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

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

APPROP. PERMIT NUMBER HD 2006 G 006(02)
PERMIT No. 76-95-0493

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER

- 1.
2. sample taken
3. Drilling Yield test 9/12/02

WRITE THE BOX NUMBER FROM THE MAP HERE

E 824
N 510

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION

N

Clarksville Pike
Homewood Rd

SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

MD Well Permit #: H0-95-0493

Subdivision Name: Benedict Farms

Section _____ Lot # 24

Street Address: Fox River Dr.

Measuring Point (MP) Description: Top of casing
(for ex. "Top of casing")

Distance from MP to ground surface 2 ft.

Well Depth 100' ft.

Well Driller: Allen Compton

Must be submitted with the State of Maryland Well Completion Report

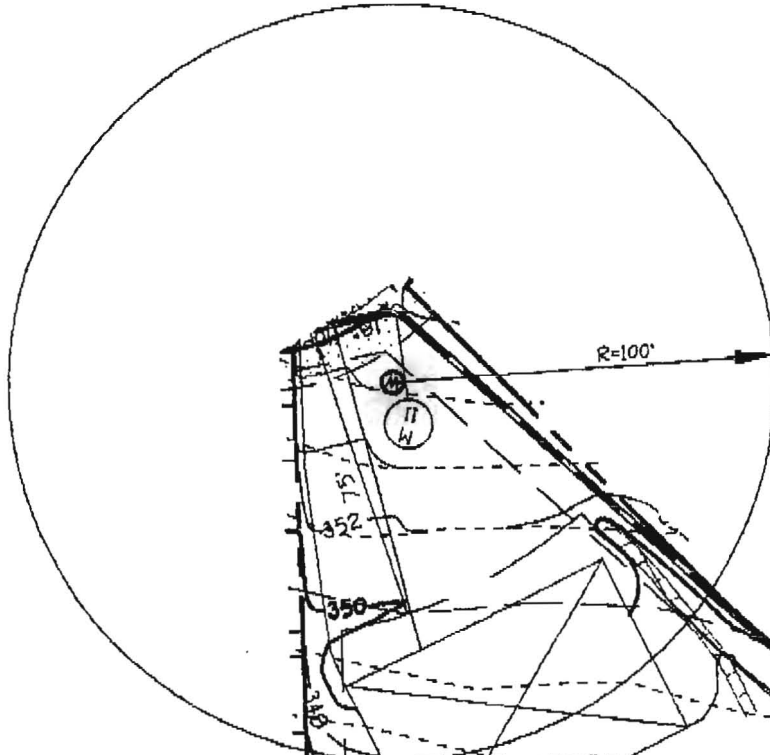
Submit to:

Pump Start Time <u>8:00</u>	Static Water level: <u>38'</u> ft.	Pumping Rate <u>5 SCC.</u> () Time to fill <u>1</u> gal. bucket () Flow meter reading (if used)	Calculated Flow (gallons per minute) <u>12</u>
TIME	WATER LEVEL BELOW M.P.		

Water level and pumping rate must be recorded every 15 minutes

TIME	WATER LEVEL BELOW M.P.	PUMPING RATE	CALCULATED FLOW (GPM)
1 <u>8:00</u>	<u>38</u> ft.	<u>5</u>	<u>12</u> GPM
2 <u>8:15</u>	<u>46</u> ft.	<u>5</u>	<u>12</u> GPM
3 <u>8:30</u>	<u>46</u> ft.	<u>5</u>	<u>12</u> GPM
4 <u>8:45</u>	<u>46</u> ft.	<u>5</u>	<u>12</u> GPM
5 <u>9:00</u>	<u>46</u> ft.	<u>5</u>	<u>12</u> GPM
6 <u>9:15</u>	<u>46</u> ft.	<u>5</u>	<u>12</u> GPM
7 <u>9:30</u>	<u>46</u> ft.	<u>5</u>	<u>12</u> GPM
8 <u>9:45</u>	<u>46</u> ft.	<u>5</u>	<u>12</u> GPM
9 <u>10:00</u>	<u>46</u> ft.	<u>5</u>	<u>12</u> GPM
10 <u>10:15</u>	<u>46</u> ft.	<u>5</u>	<u>12</u> GPM
11 <u>10:30</u>	<u>46</u> ft.	<u>5</u>	<u>12</u> GPM
12 <u>10:45</u>	<u>46</u> ft.	<u>5</u>	<u>12</u> GPM
13 <u>11:00</u>	<u>46</u> ft.	<u>5</u>	<u>12</u> GPM
14 <u>11:15</u>	<u>46</u> ft.	<u>5</u>	<u>12</u> GPM
15	ft.		GPM
16	ft.		GPM
17	ft.		GPM
18	ft.		GPM
19	ft.		GPM
20	ft.		GPM
21	ft.		GPM
22	ft.		GPM
23	ft.		GPM
24	ft.		GPM
25	ft.		GPM
26	ft.		GPM
27	ft.		GPM
28	ft.		GPM
29	ft.		GPM
30	ft.		GPM

NOTES:



8/7/06
 well site OK
 Stake by FCC
 (50)

K:\NSDKPROJ\30754 Benedict Farm\dwg\PHASE 1- FINAL\30754 WELL LOCATION.dwg, 2/17/2006 9:07:43 AM, 1:1

FISHER, COLLINS & CARTER, INC.
 CIVIL ENGINEERING CONSULTANTS & LAND SURVEYORS
 CENTENNIAL SQUARE OFFICE PARK - 10272 BALTIMORE NATIONAL PIKE
 ELLICOTT CITY, MARYLAND 21042
 (410) 461 - 2855

WELL LOCATION PLAN
 LOT-24
 ZONED RC-DEO
 TAX MAP No. 29 GRID No. 9 PARCEL No. 20
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE 1" = 50' DATE: FEBRUARY 16, 2006

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

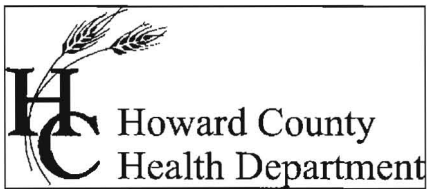
ATTENTION WELL DRILLERS!!!

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

- The well site has been staked by F. C. C. on 3-16-06 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



Bureau of Environmental Health
7178 Columbia Gateway Drive Columbia, Maryland 21046-2132
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

Peter L. Beilenson, M.D., M.P.H., Health Officer

May 3, 2010

Occupant
11546 Fox River Drive
Ellicott City, MD 21043

RE: Benedict Farm (Homewood Crossing), Lot 24
11546 Fox River Drive
BP# B09001446
Well Tag #: HO-95-0493

Dear Sir:

This is to advise you that the septic system for the above referenced property has been installed and inspected. **Final approval of the septic system was granted on 11/30/2009. Final approval of the well line connection to the dwelling was approved on 10/29/2009.**

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. The water sample results were found to be in compliance with COMAR water quality standards.

Gross Alpha and Beta samples were also collected on 09/13/2006. Both findings were below the maximum limit suggested by the EPA. At the time of the testing and with respect to these parameters, the future well water supply appears safe for all uses. No additional testing **for these parameters** will be required to secure the future Use and Occupancy.

Enclosed with this certificate, are copies of the septic permit and the septic as-built, along with important information regarding the use and maintenance of your septic system. Please read through carefully and thoroughly. Any questions regarding your well and/or septic, please call this office for guidance 410-313-1771.

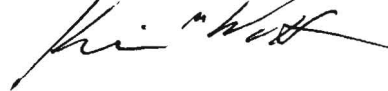
INTERIM CERTIFICATE OF POTABILITY

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-95-0493. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies. Based upon satisfactory investigation and evaluation, the Howard County Health Department as authorized by the Maryland Department of the Environment accepts this well system as required by COMAR 26.04.04.

This certificate may become final upon completion of the second bacteriological test, which is to be taken by the county health department within six months of receipt of this letter. **Please contact (410) 313-1773 to schedule a final water sample appointment. Currently, there is no charge for this final sampling.**

Date of Water Samples: 04/21/2010
Date of Samples for Gross Alpha & Gross Beta: 09/13/2006
Date of Well Completion: 04/13/2006

Approving Authority,



Kevin M. Wolf,
Environmental Sanitarian
Bureau of Environmental Health

cc: Building Inspector's Office
Community Health Services
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 #: 74586 Account #: 1930
 Reference: Toll Brothers Lot 24 Company: Fogle's Well Drilling
 Location: 11564 Fox River Drive Requested By: Dave Fogle
 Ellicott City, MD 21042 Source: Well Water
 Date/ Time Collected: 3/15/2010 1230 Site: Bathroom Sink
 Date/Time Rec'd: 3/15/2010 1425 Treatment: None
 Chlorine ppm: Free: ND Total: ND pH: 6.0
 Collected By: J. Fogle 1974JF Well #: HO-95-0493

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME ANALYSIS
Bacteria, Coliform, Total, MPN	101.3	MPN/ 100 ml	<1.0	SM18 9223	3/16/2010 / 0900 / KME
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	3/16/2010 / 0900 / KME
Nitrate	7.33	mg/L	10	601	3/16/2010 / 1645 / CCH
Turbidity	0.55	NTU	<10	SM18 2130B	3/16/2010 / 1130 / KME
Sand	NS	mg/L	5	Visual/Gravimetr	3/16/2010 / 1250 / CCH

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 ND:None Detected
- 7 Sample collected by client, analyzed as received
- 8 pH tested in lab

Reason for Test : Use & Occupancy
 Building Permit # : 9001446

Date Reported: 3/17/2010

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 #:	75001	Account #:	1930
Reference:	Toll Brothers Lot 24	Company:	Fogle's Well Drilling
Location:	11564 Fox River Drive Ellicott City, MD 21042	Requested By:	Dave Fogle
Date/ Time Collected:	4/21/2010 0900	Source:	Well Water
Date/Time Rec'd:	4/21/2010 1222	Site:	Kitchen Sink Tap
Chlorine ppm:	Free: ND Total: ND	Treatment:	None
Collected By:	J. Fogle 1974JF	pH:	6.0
		Well #:	HO-95-0493

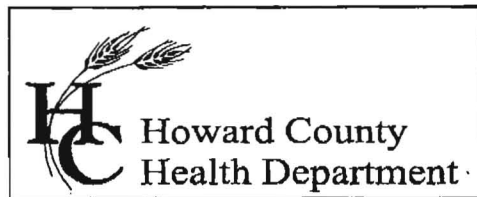
PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	4/22/2010 / 0900 / BCD
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	4/22/2010 / 0900 / BCD

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 Sample collected by client, analyzed as received

Reason for Test : Use & Occupancy, retest
 Building Permit # : 9001446

Date Reported: 4/22/2010



Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia, MD 21046
(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

October 10, 2006

Toll Brothers – Maryland Division
7164 Columbia Gateway Drive
Columbia, Maryland 21046

RE: Benedict Farm Subdivision, Lot 24
Well Tag: HO-95-0493

To Whom It May Concern:

A sample was collected during a yield test on September 13, 2006 and submitted to the Department of Health & Mental Hygiene 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 6.0 ± 1.0 picocuries/liter (pCi/L); while the **Gross Beta** level was 7.0 ± 2.0 pCi/L. The **Gross Alpha** result was below its **maximum contaminant level (MCL)** of 15 pCi/L, while the **Gross Beta** level was below its target value of 50 pCi/L (roughly equivalent to the MCL of 4 millirem/year). At the time of testing and with respect to these parameters, the future well water supply appears safe for all uses. No additional testing for these parameters will be required to secure the future Use & Occupancy. However, other standard (potability) testing will still be necessary.

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 concerns.

Sincerely,

Bert Nixon, Deputy Director
Bureau of Environmental Health

cc: Eric Dougherty, MDE Water Mgmt., Groundwater
Well & Septic property file

Send Report To: Howard Co.
Env. Health

State of Maryland
 DHMH - Laboratories Administration
 Division of Environmental Chemistry
RADIATION LABORATORY
 201 W. Preston Street, Baltimore, Maryland 21201
 John M. DeBoy, Dr. P.H., Director

10/10

LABORATORY ANALYSIS REQUEST

Sample Bottle No. A: RF 24 KW0493 No. B: _____ Field Blank Bottle No. A: _____ No. B: _____

Plant/Site Name: Bottle Room County: Howard

Sample Source: Fire River Or MD Location: HO-95-0493
 (well no., lab sink, sample tap, etc.)

County: Plant No.

CHECK (one per box)

Drinking Water
 Landfill
 Stream
 Other

Community
 Non-community
 Private
 Other

Source (raw water)
 Distribution (treated)
 MCL

Emergency
 Routine
 Recheck
 Special

Collector: Kenn Wolf

Telephone No: 410-313-2645

Date Collected: 9/13/06

Time Collected: 10:30 a.m. _____ p.m.

Nitric Acid Preserved: Yes No

Iced: Yes No

Submitters Code: Federal Project: Field Data: _____

Remarks: Sample taken during yield test pH _____ Chlorine _____

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Reported
✓	Gross Alpha	4000	0529	6±1	09/15/06
✓	Gross Beta	4100	0529	7±2	09/15/06
	Radon-222 Bottle A	4004			
	Radon-222 Bottle B	4004			
	Field Blank A	4004			
	Field Blank B	4004			
	Tritium				
	Ra - 226	4020			
	Ra - 228	4030			
	Total Uranium	4006			

Date Received: 09/13/06

Supervisor: S. W. Soap