

C1 7294

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)

COUNTY NUMBER 13

DATE RECEIVED MM DD YY 8 13

DATE WELL COMPLETED MM DD YY 11 30 07

DEPTH OF WELL 125 (TO NEAREST FOOT)

1/31/08 O.K. (initials)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HU-95-1258

OWNER: 7011 Brothers last name first name STREET OR RFD: Independence way TOWN: Columbia SUBDIVISION: Homewood CROSSSECTION LOT 51

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Entries: Brown mica-shale (0-71), Gray limestone (71-125).

GROUTING RECORD: WELL HAS BEEN GROUTED (Y), TYPE OF GROUTING MATERIAL: CEMENT (CM), BENTONITE CLAY (BC), NO. OF BAGS: 20, NO. OF POUNDS: 1880, GALLONS OF WATER: 120, DEPTH OF GROUT SEAL: 0-72 ft.

CASING RECORD: MAIN CASING TYPE: ST (STEEL), Nominal diameter: 06, Total depth: 80.

OTHER CASING (if used) table with columns: diameter, depth (feet).

SCREEN RECORD: screen type or open hole: HO (OPEN HOLE), DEPTH (nearest ft.): 80, 125.

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED: Y (YES), N (NO)

CIRCLE APPROPRIATE LETTER: A (ABANDONED), E (ELECTRIC LOG), P (TEST WELL CONVERTED)

DRILLERS LIC. NO. 1 M S D 009 1, DRILLERS SIGNATURE, LIC. NO. 1 D 1

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

DEPTH (nearest ft.) table with columns: 1-2, 8-9, 11, 15, 17, 21, 23, 24, 26, 30, 32, 36, 38, 39, 41, 45, 47, 51. Includes SLOT SIZE and DIAMETER OF SCREEN.

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, TELESCOPE CASING, LOG INDICATOR, OTHER DATA

PUMPING TEST: HOURS PUMPED: 03, PUMPING RATE: 12 gal/min, METHOD USED TO MEASURE PUMPING RATE: 194L, WATER LEVEL BEFORE PUMPING: 31 ft, WHEN PUMPING: 70 ft, TYPE OF PUMP USED: S (submersible)

PUMP INSTALLED: DRILLER INSTALLED PUMP: YES (NO), TYPE OF PUMP INSTALLED: 29, CAPACITY: 31-35 GALLONS PER MINUTE, PUMP HORSE POWER: 37-41, PUMP COLUMN LENGTH: 43-47, CASING HEIGHT: + (above) 48, - (below) 49, LAND SURFACE: 01 (nearest foot)

LOCATION OF WELL ON LOT: SHOW PERMANENT STRUCTURE SUCH AS BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL)

No survey stakes

B 1 6146

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type 527287

STATE PERMIT NUMBER H0-95-1258 fill in this form completely

OWNER INFORMATION Date Received (APA) 8 MM DD YY 13 15 Last Name Owner First Name 34 11423 Hunt Crossing Ct Ellicott City Md 21042

LOCATION OF WELL B 3 Howard 8 COUNTY 21 Homewood Crossing 23 SUBDIVISION SECTION 44 46 LOT 51 48 50 Columbia 52 NEAREST TOWN 71 MILES FROM TOWN (enter 0 if in town) 5 MI 73 76 77 78

DRILLER INFORMATION Driller's Name 76 License No. 81 M SD 009 Firm Name Fogles Well Drilling 580 Obrecht rd. Address Signature Date 7-13-07

DIRECTION OF WELL FROM TOWN (CIRCLE BOX) ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) NEAR WHAT ROAD Independence Way 11 30 DISTANCE FROM ROAD 480 FT 34 37 ENTER FT OR MI 38 39 TAX MAP: 29 BLK: 9 PARCEL 28

WELL INFORMATION B 2 APPROX. PUMPING RATE (GAL. PER MIN.) 5 8 500 12 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 14 20

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL COUNTY NAME Howard 13 COUNTY NO. A515042 STATE SIGNATURE DATE ISSUED 9/20/2007 CO SIGNATURE Brian Baker 9/20/2008 EXP. DATE 41 NORTH GRID 50 000 55 EAST GRID 57 000 63

USE FOR WATER (CIRCLE APPROPRIATE BOX) [D] DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION [I] INDUSTRIAL, COMMERCIAL, DEWATERING [P] PUBLIC WATER SUPPLY WELL [G] GEO-THERMAL

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

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING WATER 1. 2. 3. WRITE THE BOX NUMBER FROM THE MAP HERE E 820 N 510

METHOD OF DRILLING (circle one) BORED (or Augered) JETTED Jetted & DRIVEN AIR-ROTary AIR-PERcussion ROTARY (Hydraulic Rotary) CABLE REVERSE-ROTary DRIVE-POINT other

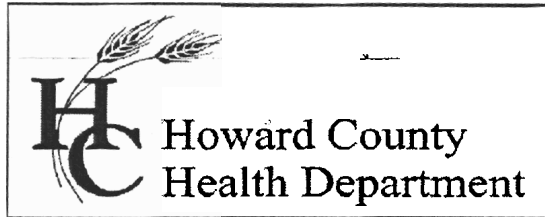
REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX) [N] THIS WELL WILL NOT REPLACE AN EXISTING WELL [Y] THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED [S] THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS [D]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

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

Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER H02003G006 PERMIT No. H0-95-1258

SPECIAL CONDITIONS Radium Sample Needed During Yield Test





Bureau of Environmental Health  
7178 Columbia Gateway Drive, Columbia, MD 21046-2147  
Main: 410-313-6300 | Fax: 410-313-6303  
TDD 410-313-2323 | Toll Free 1-866-313-6300  
www.hchealth.org  
Facebook: www.facebook.com/hocohealth  
Twitter: HowardCoHealthDep

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

## INTERIM CERTIFICATE OF POTABILITY

Expiration Date – July 12, 2013

February 12, 2013

Homeowner  
11231 Independence Way  
Ellicott City, Maryland, 21042

**RE: Homewood Crossing, Lot #51**  
**11231 Independence Way**  
**Building Permit: B11003606**  
**Well Permit: HO-95-1258**

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 11/19/12. Final approval of the well line connection to the dwelling was granted on 11/19/12. The well construction was completed on 11/30/07. Water samples were collected on 1/21/2013.

The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking.

Gross Alpha and Beta samples were also collected on 10/11/2007. Results showed a Gross Alpha level of  $9.2 \pm 4.7$  pCi/L and Gross Beta level of  $6.7 \pm 2.2$  pCi/L. The Gross Alpha was below the maximum contaminant level (MCL) of 15 pCi/L and the Gross Beta was below the target level of 50 pCi/L (roughly equivalent to the annual dose rate of 4 millirems per year). At the time of testing and with respect to these parameters, the well water is safe for all uses.

This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit HO-95-1258. 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 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>

Approving Authority,

A handwritten signature in cursive script that reads "Dana Bernard".

Dana Bernard, REHS/RS  
Environmental Sanitarian  
Well & Septic Program

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

**HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
WELL & SEPTIC PROGRAM  
TEL: (410)313-1771 FAX: (410)313-2648**

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

**NOTE: The installer is responsible for requesting an inspection prior to 9 am on the day of the desired inspection. No work is to be covered until approved by the Health Department. All installations must comply with the National Standard Plumbing Code (NSPC, as amended locally) and COMAR 26.04.04 (MD Well Construction Regulations). Submission of a complete form is required prior to Use and Occupancy approval.**

Company Name: Fogles Well Drilling Telephone #: 443-609-4195  
Address: P.O. Box 200  
Woodbine md 21797

(Must circle one) Licensed Plumber  Licensed Well Driller  Licensed Well Pump Installer   
License # and name of individual responsible for the field installation:

Name (Print): Allen Compton License# M5D009

**\*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: Toll Brothers Telephone #: 410-992-5978  
Subdivision: Homewood Crossing Lot #: 51 Well Tag #: HO-95-1258  
Site Address: 1131 Independence way

**Submersible Pump Data**

Make: Cummins  
Model #: 1530207-180  
Pump Capacity: 7 GPM  
Well Yield: 12 GPM

**Pitless Adapter**

Make: Campbell  
Model#: N/A  
Depth: 36" (36" min)  
NSF/WSC approved: YES

**Well Cap and Electric Conduit**

Two piece watertight cap: YES  
Screened, vented well cap: YES  
Cap secured to casing: YES  
Conduit min 18" B.G.: YES  
Conduit secured to well cap: YES

Depth of well encountered at time of pump installation: 125 (feet)  
If pump capacity exceeds well yield, a low water cut off 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 adapter or other acceptable method inside of well casing N/A

**Piping to house**

Type: 1" Black Plastic  
PSI: 160 (160 psi min)  
Depth of supply line: 42" (36" min)

**House Connection**

PVC sleeve to undisturbed soil at wall penetration: YES  
Length of sleeve (5' minimum from foundation): 5'  
Sleeve sealed properly: YES

**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: Allen Compton date: 11-9-12

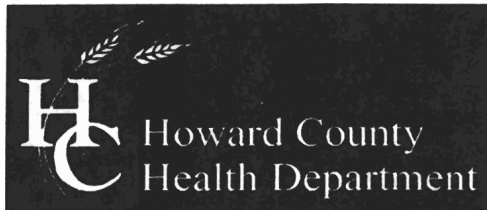
**For Health Department Use Only – Not to be completed by Installer**

Date Insp. Requested: 11/15/12 Date Insp. Approved: 11/17/12 Inspector: (EW)

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

grout  
observed. conditions  
horrible. could not dig  
up below pitless.





Bureau of Environmental Health  
7178 Columbia Gateway Drive, Columbia, MD 21046-2147  
(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

December 19, 2007

**Toll Brothers, Inc.**  
11423 Hunt Crossing Ct.  
Ellicott City, Maryland 21042

**RE: Patuxent Chase Lot 51**  
**Well Tag: HO - 95 - 1258**

To Whom It May Concern:

A sample was collected during a yield test on October 11, 2007 and submitted to GPL 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  $9.2 \pm 4.7$  picocuries/liter (pCi/L); while the **Gross Beta** level was  $6.7 \pm 2.2$  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 targeted value 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 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 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 to discuss additional testing requirements.

Sincerely,  
  
Bert Nixon, Director  
Bureau of Environmental Health

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

Send Report To:

Bert Nixon

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

**LABORATORY ANALYSIS REQUEST**

Sample Bottle No. A: 40-95-1258 No. B: \_\_\_\_\_ Field Blank Bottle No. A: \_\_\_\_\_ No. B: \_\_\_\_\_

Plant/Site Name: Patuxent Chase Lot 51 County: Howard

Sample Source: Independence Way Location: 40-95-1258  
(well no., lab sink, sample tap, etc.)

County:  1  2 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: M. Wolf

Telephone No: 410-313-2645

Date Collected: 10/11/07

Time Collected: 10:30 a.m. \_\_\_\_\_ p.m.

Nitric Acid Preserved: Yes  No

Iced: Yes  No

Submitters Code:   Federal Project:

Field Data: \_\_\_\_\_

Remarks: Sample collected @ field test pH Chlorine

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Reported
<input checked="" type="checkbox"/>	Gross Alpha	4000	710092-001	9.2 ± 4.7	10/16/07
	Gross Beta	4100		16.7 ± 2.2	
	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: \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_

Supervisor: \_\_\_\_\_

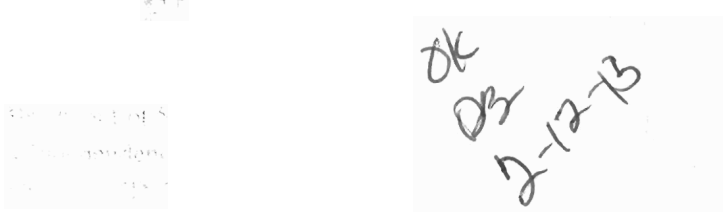
# FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

## REPORT OF ANALYSIS

Laboratory ID #: 87836 Account #: 1931  
Reference: Toll Brothers Lot 51 Company: Fogles Septic  
Location: 11231 Independence Way Requested By: Kim Fogle  
Ellicott City, MD 21042 Source: Well Water  
Date/ Time Collected: 1/21/2013 0900 Site: Kitchen Sink Tap  
Date/Time Rec'd: 1/21/2013 1122 Treatment: None  
Chlorine ppm: Free: ND Total: ND pH: 5.7  
Collected By: K.Cassell 7398KC Well #: HO-95-1258

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Radium-226	1.0	pCi/L	****	903.1	2/2/2013 / 0902 / MJN
Radium-228	1.4	pCi/L	****	Ra-05	2/1/2013 / 1412 / SNZ



### NOTES

- 1 \*\*\*\*Radium 226 and Radium 228 combined have a reference of 5 pCi/L
- 2 pCi/L = picocuries per liter
- 3 Radium 226 Detection Limit: 0.2 pCi/L; Radium 228 Detection Limit: 0.8 pCi/L
- 4 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 5 Sub-contracted to Reference Lab #278
- 6 ND:None Detected
- 7 Sample collected by client, analyzed as received
- 8 pH & Chlorine level tested in lab

Reason for Test : Use & Occupancy  
Building Permit # : B11003606

Date Reported: 2/5/2013

# 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 #: 87835 Account #: 1931  
Reference: Toll Brothers Lot 51 Company: Fogles Septic  
Location: 11231 Independence Way Requested By: Kim Fogle  
Ellicott City, MD 21042 Source: Well Water  
Date/ Time Collected: 1/21/2013 0900 Site: Kitchen Sink Tap  
Date/Time Rec'd: 1/21/2013 1122 Treatment: None  
Chlorine ppm: Free: ND Total: ND pH: 5.7  
Collected By: K.Cassell 7398KC Well #: HO-95-1258

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	1/22/2013 / 0815 / CCH
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	1/22/2013 / 0815 / CCH
Nitrate	1.09	mg/L	10	601	1/21/2013 / 1545 / CCH
Turbidity	2.04	NTU	<10	SM18 2130B	1/21/2013 / 1500 / CCH
Sand	NS	mg/L	5	Visual/Gravimetric	1/21/2013 / 1500 / CCH

OK  
DB  
2-12-13

### 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 & Chlorine level tested in lab

Reason for Test : Use & Occupancy  
Building Permit # : B11003606

Date Reported: 1/22/2013