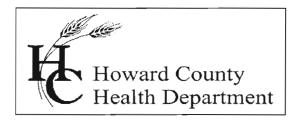
| C1 0755   | SEQUENCE NO.<br>(MDE USE ONLY)  | STATE OF MARYLAND WELL COMPLETION REPORT  | THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.                                     |
|---|---|---|---|
| ITHIS NUMBER IS TO BE PUNCH<br>IN COLS. 3-6 ON ALL CARDS)   | ED  | FILL IN THIS FORM COMPLETELY PLEASE TYPE  | COUNTY NUMBER   |
| ST/CO USE ONLY DATE Received MM / DO / YY 8 13  | DATE WELL COMP  | Depth of Well  22  (TO NEAREST FOOT)  26  | PERMIT NO. FROM "PERMIT TO DRILL WELL"  |
| OWNERlast   | name J  | Oll Brithirs  |   |
| STREET OR RFDR  | - Valle   | T Farm SECTION TOWN   | LOT 86  |
| WELL LOG  |   | GROUTING RECORD yes no  | C[3]  |
| Not required for drive  | on wells  | WELL HAS BEEN GROUTED (Circle Appropriate Box)  | 1 2 PUMPING TEST  |
| STATE THE KIND OF FORMATIONS COLOR, DEPTH, THICKNESS AND  | PENETRATED, THEIR<br>IF WATER BEARING                                 | TYPE OF GROUTING MATERIAL (Circle one)  | HOURS PUMPED (nearest hour)   |
| DESCRIPTION (Use additional sheets if needed) FRO   | FEET check if water bearing   |   | PUMPING RATE (gal. per min.)  |
| Brown t   | 26  | GALLONS OF WATER DEPTH OF GROUT SEAL (to nearest foot)  | METHOD USED TO MEASURE PUMPING RATE   |
| MICA  |   | from 48 TOP 52 ft. to 54 BOTTOM 58  | WATER LEVEL (distance from land surface)  |
|   |   | (enter 0 if from surface)   | BEFORE PUMPING  |
| Gray 20   | 6 30  | casing types types insert STT CO  | 17 20   |
| mica  |   | appropriate STEEL CONCRETE  | WHEN PUMPING 22 25 ft.  |
| 0 ,   |   | below PLASTIC OTHER   | TYPE OF PUMP USED (for test)  A air  P piston  T turbine  |
| Brown 30  |   | MAIN Nominal diameter Total depth CASING top (main) casing of main casing TYPE (nearest inch)! (nearest foot) | 27 27 other   |
| 6.  | 1   | PL 06 31  | C centrifugal R rotary O (describ   |
| Gray 3  | 7 200 V   | 60 61 63 64 66 70<br>E OTHER CASING (if used)   | J jet S submersible   |
| MICA  |   | A diameter depth (feet) C inch from to  |   |
|   |   | C   | PUMP INSTALLED  DRILLER INSTALLED PUMP (CIRCLE) (YES or NO)   |
|   |   | N   | IF DRILLER INSTALLS PUMP, THIS SECTION  |
|   |   | screen type SCREEN RECORD   | MUST BE COMPLETED FOR ALL WELLS.  TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O)  29                      |
|   |   | insert STEEL BRASS OPEN   | IN BOX 29.  CAPACITY:   |
|   |   | code below PL OT  | GALLONS PER MINUTE (to nearest gallon) 31 35  |
|   |   | PLASTIC OTHER   | PUMP HORSE POWER  37 41   |
| NUMBER OF UNSUCCESSFUL W  | ELLS:   | C 2 DEPTH (nearest ft.)   | PUMP COLUMN LENGTH (nearest ft.)  |
| WELL HYDROFRACTURED   | yes no  | E 1 # 0 11 15 17 21   | CASING HEIGHT (circle appropriate box and enter casing height)  |
| CIRCLE APPROPRIATE  |   | C 2 9 2 9 3 9 3 9 16 28 28 28 36  | + above LAND SURFACE  |
| A WELL WAS ABANDONED AN<br>WHEN THIS WELL WAS COMP  |   | S 23 24 28 33 32 35 C 3   | below O2 (nearest) foot)  |
| E ELECTRIC LOG OBTAINED  D TEST WELL CONVERTED TO   | PRODUCTION  | R 38 39 41 45 47 51   | 49 50 51  |
| I HEREBY CERTIFY THAT THIS WELL HAS   | BEEN CONSTRUCTED IN   | E SLOT SIZE 1 0.202 3   | SHOW PERMANENT STRUCTURE SUCH AS  |
| ACCORDANCE WITH COMAR 28.04.04 "WE IN CONFORMANCE WITH ALL CONDITION CAPTIONED PERMIT, AND THAT THE IN HEREIN IS ACCURATE AND COMPLETE KNOWLEDGE. | LL CONSTRUCTION" AND<br>IS STATED IN THE ABOVE<br>FORMATION PRESENTED | DIAMETER OF SCREEN (NEAREST INCH)   | BUILDING, SEPTIC TANKS, AND /OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCES (MEASUREMENTS TO WELL) |
| DRILLERS LIC. NO. 1 M   | 0009.   | GRAVEL PACK   | Valley View   |
| DRILLERS SIGNATURE  | emyter  | WAS FLOWING WELL INSERT F IN BOX 68 68  | Overcook  |
| (MUST MATCH SIGNATURE ON APP  |   | MDE USE ONLY<br>(NOT TO BE FILLED IN BY DRILLER)  |   |
| LIG. NO.1   |   |   | 950' > @  |
| SITE SUPERVISOR (sign. of drille  |   | 70 72 74 75 76  | A 751   |
| responsible for sitework if different   | from permittee)   | TELESCOPE LOG CASING INDICATOR OTHER DATA   |   |

| B 1 9581 SEQUENCE NO.  | STATE OF MARYLA  | AND  | STATE PERMIT NUMBER  |
|--|--|--|--|
|  | APPLICATION FOR PERMIT T<br>533980 please type   |  | fill in this form completely 79  |
| Date Received (APA)  OWNER INFORM  B MM DD YY 13  15 Last Name Owner  Street or RFD  Town 70 State 7  DRILLER INFORMATION  MORE  Firm Name  Address  Signature  B 2 WELL INFORMATION  APPROX. PUMPING RATE (GAL. PER MIN.)  AVERAGE DAILY QUANTITY NEEDED  | First Name 34 23  SECT  55  S D 009  License No. 81  1 2  DIRECTION  | SUBDIVISION  ION 44 46 LOT 48  NEAREST TOWN S FROM TOWN (enter 0 if in town access to access town access town access town access to access town access town access town access to access to access town access town access town access town access town access to access town access to access town access town access town access to access town access town acce | ON OF WELL  21  COSSIGN  42  86  50  71  73  76  77  78  WEAR WHAT ROAD  30  WHICH SIDE OF ROAD LE APPROPRIATE BOX) WEST SEAST  34  30  37  SOUTH DISTANCE FROM ROAD  ENTER FT OR MI  38  39  29  BLK; PARCEL  28  |
| (GAL PER DAY)  14  USE FOR WATER (CIRCLE APPLY & RESIDENT ARRIGATION)  FARMING (LIVESTOCK WATERING & AGRICATION)  12  I INDUSTRIAL, COMMERICIAL, DEWATERING  P PUBLIC WATER SUPPLY WELL  T TEST, OBSERVATION, MONITORING  G GEO-THERMAL  | CULTURAL COUP<br>STAT<br>SIGN.   | NOT TO BE FIL HEALTH DEPAR INTY NAME  ENTY NAME  ENTY NAME  ISSUED  AMD DD y 48 CO S  TH 0000  | LED IN BY DRILLER RTMENT APPROVAL  S  OUNTY NO.  INSERT S  41  GRATURE  AEXP. DATE  EAST GRID  57  63  |
| REVerse ROTary other  REPLACEMENT OR DEEPER (CIRCLE APPROPRIATE  N THIS WELL WILL NOT REPLACE AN EXISTIN Y THIS WELL WILL REPLACE A WELL THAT W ABANDONED AND SEALED  THIS WELL WILL REPLACE A WELL THAT W AS A STANDBY-CONTACT LOCAL APPROVI FOR POLICY ON STANDBY WELLS  THIS WELL WILL DEEPEN AN EXISTING WE PERMIT NUMBER OF WELL TO BE REPLACED OF (IF AVAILABLE) 41  Not to be filled in by driller (MDE OR CO | DEPENDED  PEET  28  BOX WITH  SOUR  1.  2.  3.  Jetted & DRIVEN  DRIVEN  DRIVE-POINT  DRIVE-POINT  DRAW  BOX WITH  SOUR  1.  2.  3.  WRIT  1.  2.  3.  WRIT  PROM  DRIVEN  DRI | Hun  | ROADS AND GIVE   |
| SPECIAL CONDITIONS  NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF MEEDED.  |  |  | Contraction of the contraction o |



## 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 - May 7, 2014

November 7, 2013

Homeowner 4953 Valley View Overlook Ellicott City, MD 21042

RE: Patuxent Chase, Lot 86

4953 Valley View Overlook Building Permit: B12002876 Well Permit: HO-95-1986

#### 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 9/24/2013. Final approval of the well line connection to the dwelling was granted on 10/15/2013. The well construction was completed on 10/28/2010. Water samples were collected on 11/4/2013.

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 10/28/2010. Results showed a Gross Alpha level of  $2.0 \pm 0.0$  pCi/L and Gross Beta level of  $5.6 \pm 1.9$  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 50pCi/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-95-1986. 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,

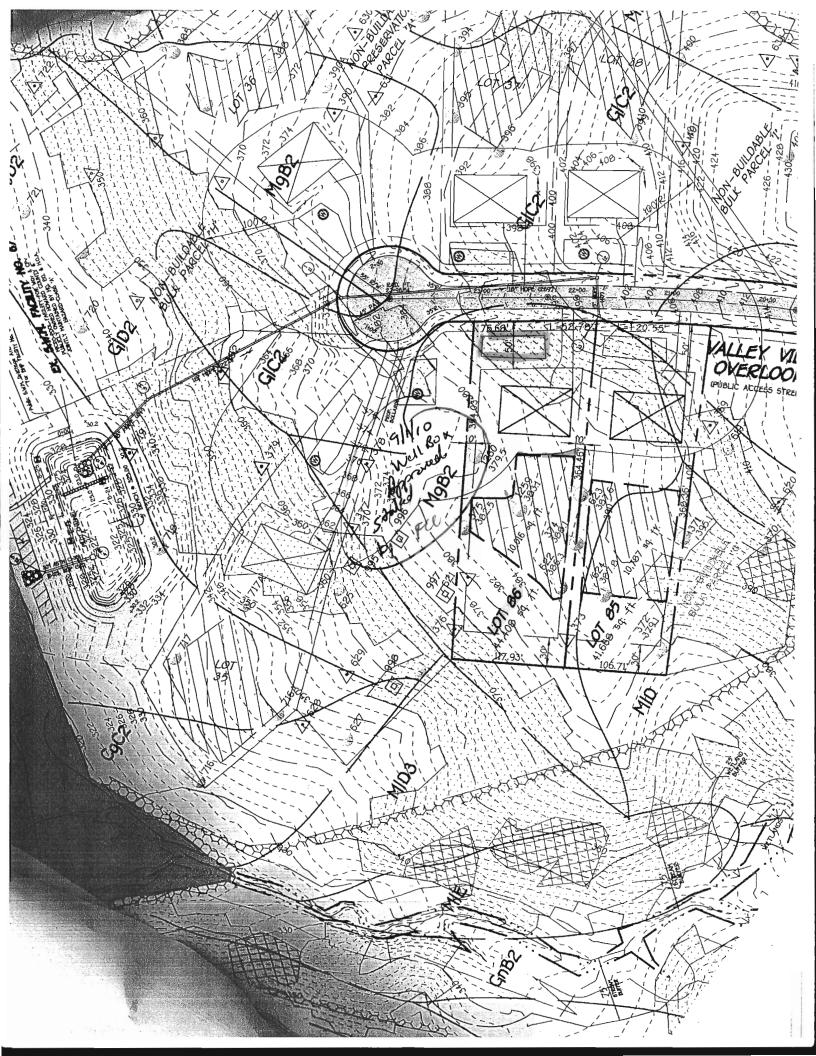
Heidi Scott, L.E.H.S.

Environmental Sanitarian Well & Septic Program

cc: Howard County Dept. of Inspections, Licenses, and Permits

Community Hygiene Program

File





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

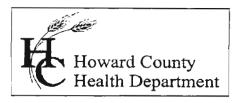
# TO ALL INTERESTED PARTIES

| When submitting a well permit applica                                    | tion for a proposed well for new construction, please                              |
|--|--|
| indicate one of the following:   |  |
| Well Site Location: Homewood  TOH Brothers  Subdivision/Property Name  I | d Crossing)  All Lots & Staked  Lott Road Name                                     |
| The well site has been st (professional land surveyor or o               | taked by Fisher Collins of Carter Incompany employing professional land surveyors) |
| on   | (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 3/11/05



Bureau of Environmental Health

7178 Gateway Drive (410) 313-2640

TDD (410) 313-2323

Columbia, MD 21046 Fax (410) 313-2648 Toll Free 1-866-313-6300

website: www.hchealth.org

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

January 18, 2011

Toll Brothers-Maryland Division 7164 Columbia Gateway Drive Suite 250 Columbia, Maryland 21046

> RE: Homewood Crossing Lot 86 Valley View Overlook Well Tag: HO - 95 - 1986

To Whom It May Concern:

A sample was collected during a yield test on October 28, 2010 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 long term screening revealed a Gross Alpha of  $< 2.0 \pm 0.0$  picocuries/liter (pCi/L), while the Gross Beta level was  $5.6 \pm 1.9$  pCi/L. The Long Term Gross Alpha result was below its maximum contaminant level (MCL) of 15 pCi/L, while the Long Term Gross Beta level was below its targeted value of 50 pCi/L (roughly equivalent to the annual dose rate of 4 millirems/year). Long term analysis was performed in lieu of the more standard short term analysis to ensure compliance with established time constraints.

At the time of testing and with respect to these parameters, the future well water supply does appear safe for all uses. Additional testing for these parameters will not be required to secure the future Use & Occupancy. However, please note that other standard testing parameters (bacteria, nitrate, turbidity and sand) will still be required to help secure Use & Occupancy.

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

Sincerely,

Bert Nixon, Director

Bureau of Environmental Health

Enclosure

cc: Barry Glotfelty, MDE Water Mgmt.

Well & Septic property file

# 413 Old Taneylown Rd. Westminger VIII - (410) 848-1014 4410) 876-4554 FAX (410) 848-0298

# REPORT OF ANALYSIS

Laboratory ID #:

91817

Account #:

1930

Reference:

Toll Brothers Lot 86

Company:

Fogle's Well Drilling

Location:

4953 Valley View Overlook Ellicott City, MD 21042

Requested By: Source:

Dave Fogle Well Water

Date/ Time Collected: 11/4/2013

1104

Site:

Pressure Tank

Date/Time Rec'd:

11/4/2013

1310 Total: ND

Treatment: pH:

None 6.0

Chlorine ppm: Collected By:

Free: ND J. Fogle

1974JF

Well #:

HO-95-1986

| PARAMETRAS                     | <b>ELEVERISTEIS</b> | ECXTS RE    | PERMEE | METHOD: D          | ATE/THYE/ANALYST       |
|--------------------------------|---------------------|-------------|--------|--------------------|------------------------|
| Bacteria, Coliform, Total, MPN | <1.0                | MPN/ 100 ml | <1.0   | SM18 9223          | 11/5/2013 / 0800 / BCD |
| Bacteria, E. coli, MPN         | <1.0                | MPN/ 100 ml | <1.0   | SM18 9223          | 11/5/2013 / 0800 / BCD |
| Nitrate                        | <1.0                | mg/L        | 10     | 601                | 11/5/2013 / 0800 / BCD |
| Turbidity                      | 1.25                | NTU         | <10    | SM18 2130B         | 11/5/2013 / 0715 / JKW |
| Sand                           | NS                  | mg/L        | 5      | Visual/Gravlmetric | 11/5/2013 / 0710 / JKW |

Results OK
11/7/13 HS

#### NOTES

- mg/L = milligrams per liter (also, parts per million) 1
- 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)
- NTU = Nephelometric Turbidity Units 4
- 5 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- б ND:None Detected
- Sample collected by client, analyzed as received
- pH and Chlorine level tested in lab

Reason for Test:

Use & Occupancy

Building Permit #:

B12002876

Date Reported:

11/5/2013

| Ser  | nd Report To:  | Ą  | State of M<br>DHMH - Laborator |   | E000690                                  | ) 남29 호                  |
|------|--|--|--------------------------------|---|--|--------------------------|
| _[   | Bert Mixon   |  | Division of Environ            | nmental Chemistry                             |  |                          |
| 7/   | 78 Columbia a  | eterry Dr 20   |                                | more, Maryland 21201                          | ***                                      |                          |
| 1    | lubra mo   | 21046  | John M. DeBoy,                 | Dr. P. H., Director .                         |  | , **                     |
|      | •  | LAB  | ORATORY ANA                    | ALYSIS REQUES                                 | ST                                       |                          |
| San  | ple Bottle No. A: HC   | 95/986 No  | R· · ·                         | ield Blank Bottle N                           | io 1.                                    | No B:                    |
|      |  |  |                                |   |  |                          |
| r ta | nt/Site Name: Hom  | ewood Co   | 72 - 70A                       | · <u>86</u> C                                 | ounty: //ou                              | rord                     |
| San  | iple Source: <u>Well</u>   | - Valle  | y View arrico                  | KLocation:                                    | //0-95-/98<br>(well no, lab sink         | t, sample tap, etc.)     |
|      | inty: 🗍 🖪  | Plant No   |                                |   |  |                          |
|      | HECK (one per box)   | *  |                                |   |  |                          |
|      | Drinking Water Landfill  Stream  Other   | Community<br>Non-commu<br>Private<br>Other                     | mity                           | Source (raw water) Distribution (treated) MCL | Emerger<br>Routine<br>Recheck<br>Special | EK                       |
| Coll | ector: K. W.   | , lf   |                                | Telephone No.:                                | 410-313                                  | -2645                    |
| Date | e Collected: /0/28/  | 10 Centra  |                                | Time Collected:                               | 11:30 a.m.                               | p.m                      |
| Nitr | ic Acid Preserved: Yes   | No [   |                                | Iced: Yes                                     | No 🗆                                     |                          |
|      |  |  | oient: T                       | _   | ,  |                          |
| Sub  | minters ( oge  |  |                                |   |  |                          |
|      | mitters Code:  | Federal Pr   |                                | ield Data:pH                                  | Short term                               | orine                    |
|      | narks: Sung k  |  | Yorld / Coul                   | esting to he                                  | short term done for                      | orine analysis Long Term |
|      |  |  | YMd. / Coul                    | Results (pCi/L)                               | Short term deae for  Date Analyzed       | Date Reported            |
|      | narks: Sunjok  | co/(H/ @   | Yould . / Coul                 | d not make                                    | short term                               |                          |
|      | narks: Sungo k   | EPA Code   | Yould . / Coul                 | d not make                                    | Short trem deae for Date Analyzed        |                          |
|      | Test  Gross Alpha  Gross Beta  Radon-222   | EPA Code   | Yould . / Coul                 | d not make                                    | short term                               |                          |
|      | Test  Gross Alpha  Gross Beta  | EPA Code  4000  4100   | Yould . / Coul                 | d not make                                    | Short trem deae for Date Analyzed        |                          |
|      | Test  Gross Alpha  Gross Betz  Radon-222  Bottle A  Radon-222  | EPA Code 4000 4100 4004  | Yould . / Coul                 | d not make                                    | Short trem deae for Date Analyzed        |                          |
|      | Test  Gross Alpha  Gross Beta  Radon-222  Bottle A  Radon-222  Bottle B  | EPA Code 4000 4100 4004  | Yould . / Coul                 | Results (pCi/L)                               | Short trem deae for  Date Analyzed       |                          |
|      | Test  Gross Alpha  Gross Beta  Radon-222  Bottle A  Radon-222  Bottle B  Field Blank #A  | EPA Code  4000 4100 4004 4004 4004                             | Yould . / Coul                 | Results (pCi/L)                               | Short trem deae for  Date Analyzed       |                          |
|      | Test  Gross Alpha Gross Betz  Radon-222 Bottle A Radon-222 Bottle B Field Blank #A  Field Blank #B   | EPA Code  4000 4100 4004 4004 4004                             | Yould . / Coul                 | Results (pCi/L)                               | Short trem dage for  Date Analyzed       |                          |
|      | Test  Gnoss Alpha  Gross Betz  Radon-222  Bottle A  Radon-222  Bottle B  Field Blank #A  Field Blank #B  Tritium   | EPA Code 4000 4100 4004 4004 4004 4004                         | Yould . / Coul                 | Results (pCi/L)                               | Short trem dage for  Date Analyzed       |                          |
|      | Test  Ghoss Alpha  Gross Beta  Radon-222  Bottle A  Radon-222  Bottle B  Field Blank #A  Field Blank #B  Tritium  Ra - 226   | EPA Code  4000 4100 4004 4004 4004 4004 4004                   | Yould . / Coul                 | Results (pCi/L)                               | Short trem dage for  Date Analyzed       |                          |
|      | Test  Gross Alpha  Gross Beta  Radon-222  Bottle A  Radon-222  Bottle B  Field Blank #A  Field Blank #B  Tritium  Ra - 226  Ra - 228   | EPA Code  4000  4100  4004  4004  4004  4004  4004  4000  4000 | Yould . / Coul                 | Results (pCi/L)                               | Short trem dage for  Date Analyzed       |                          |
|      | Test  Gnoss Alpha  Radon-222  Bottle A  Radon-222  Bottle B  Field Blank #A  Field Blank #B  Tritium  Ra - 226  Ra - 228  Total Uranium  | EPA Code  4000  4100  4004  4004  4004  4004  4004  4000  4000 | YMd. / Coul                    | Results (pCi/L)                               | Short trem dage for  Date Analyzed       |                          |
|      | Test  Gnoss Alpha  Radon-222  Bottle A  Radon-222  Bottle B  Field Blank #A  Field Blank #B  Tritium  Ra - 226  Ra - 228  Total Uranium  Gross Alpha Long Term  Gross Beta Long Term             | EPA Code  4000 4100 4004 4004 4004 4004 4004 40                | Ymd / Coul T  Laboratory No.   | Results (pCi/L)                               | Short trem dage for  Date Analyzed       | Date Reported            |
| Rem  | Test  Gross Alpha  Gross Beta  Radon-222  Bottle A  Radon-222  Bottle B  Field Blank #A  Field Blank #B  Tritium  Ra - 226  Ra - 228  Total Uranium  Gross Alpha Long Term  Gross Beta Long Term | EPA Code  4000 4100 4004 4004 4004 4004 4006                   | Laboratory No.  Ocgo 0690      | Results (pCi/L)                               | Short trem dane for  Date Analyzed       | Date Reported            |

FORM REVISED 10/07 DHMH 4540 10/07

CUSTOMER COPY I



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: <u>www.hchealth.org</u>

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

### **MEMORANDUM**

TO:

Fogle's Well Drilling

Theresa

Allen Compton MWD

FROM:

Kevin M. Wolf, R.S., R.E.H.S.

Well and Septic Program

Groundwater Management Section

RE:

Homewood Crossing Lots 81-88 Well Permit Applications

Special Condition -> Radium Testing Needed

DATE:

September 7<sup>th</sup>, 2010

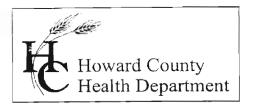
The following comments apply to the above referenced Well Permit Applications. Please read through and complete as needed.

Homewood Crossing Lots 81-88 are located in the Radium area and require testing. This testing will be done during the yield test of each well on each indicated lot. When calling in yields and grouts on such pre-scheduled days, please make a note that a sanitarian will need to be present during the time of the yield test to sample the water for radium.

If you have any questions on this matter, please feel free to call me at any time at 410-313-2645.

**KMW** 

C.C. Files Lots 81-88



Bureau of Environmental Health

7178 Gateway Drive (410) 313-2640 Columbia, MD 21046 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

January 18, 2011

Toll Brothers-Maryland Division 7164 Columbia Gateway Drive Suite 250 Columbia, Maryland 21046

> RE: Homewood Crossing Lot 86 Valley View Overlook Well Tag: HO - 95 - 1986

To Whom It May Concern:

A sample was collected during a yield test on October 28, 2010 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 long term screening revealed a Gross Alpha of  $< 2.0 \pm 0.0$  picocuries/liter (pCi/L), while the Gross Beta level was  $5.6 \pm 1.9$  pCi/L. The Long Term Gross Alpha result was below its maximum contaminant level (MCL) of 15 pCi/L, while the Long Term Gross Beta level was below its targeted value of 50 pCi/L (roughly equivalent to the annual dose rate of 4 millirems/year). Long term analysis was performed in lieu of the more standard short term analysis to ensure compliance with established time constraints.

At the time of testing and with respect to these parameters, the future well water supply **does** appear safe for all uses. Additional testing **for these parameters** will not be required to secure the future Use & Occupancy. However, please note that other standard testing parameters (bacteria, nitrate, turbidity and sand) will still be required to help secure Use & Occupancy.

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

Sincerely.

Bert Nixon, Director

Bureau of Environmental Health

Enclosure
cc: Barry Glotfelty, MDE Water Mgmt.
Well & Septic property file

| Bert Nixun   |  | State of Mar<br>DHMH - Laboratories<br>Division of Environm<br>RADIATION LAB | Administration<br>ental Chemistry  | FOODO  |                     |
|--|--|--|--|--|---------------------|
| 1/48 Culumbia ac   | 7 . 3  | W. Preston Street, Baltimo<br>John M. DeBoy, D                               | ore, Maryland 21201  |  |                     |
| 5 (47-03) 12   |  | DRATORY ANA  | LYSIS REOUES   | Т  |                     |
| HOS  | 47   |  |  |  | No B:               |
| ample Bottle No. A: Ho   |  |  |  | 4 4  | A.                  |
| lant/Site Name: Home   | wood Cras  | ssing - LOA  | OB C   | ounty: How   |                     |
| ample Source: Well   | - Valley   | View Overlook  | Location:  | (well no, lab sink   | , sample tap, etc.) |
| ounty: [] 3  | Plant No.  |  |  |  |                     |
| CHECK (one per box)  | *  |  |  | Emargar  | nev 🗆               |
| Drinking Water Landfill Stream Other   | Community<br>Non-commu<br>Private<br>Other   | nity 0   | Source (raw water) Distribution (treated) MCL  | Emerger Routine Recheck Special  | °E                  |
| ollector: K. Wo  | , I <del>f</del>   |  | Telephone No.:   | 410.313  | 2645                |
|  | 100  |  | m. A.N.  | 11:30 a.m.   | ш<br>Д р            |
| itric Acid Preserved: Yes  | Federal Pr   | 1 Count  | Iced: Yes  ield Data:  | No D   | lorine              |
| itric Acid Preserved: Yes ubmitters Code:  | Federal Pr   | Youd , / Toul  | Iced: Yes []  ield Data:  d not make  sting to be                                    | No D  short to the dense for   | lorine Long Term    |
| itric Acid Preserved: Yes  ubmitters Code:   emarks:   Test  | Federal Procedure  | 1 Count  | Iced: Yes  ield Data:  | No D   | lorine Long Term    |
| itric Acid Preserved: Yes  ubmitters Code:   emarks:   Test  | Federal Procedure  | Youd , / Toul  | Iced: Yes []  ield Data:  d not make  sting to be                                    | No D  short to the dense for   | lorine 17515.       |
| itric Acid Preserved: Yes  ibmitters Code:  Emarks:  Test  Gross Alpha  Gross Beta  Radon-222  | Federal Proceed Code  EPA Code  4000   | Youd , / Toul  | Iced: Yes []  ield Data:  d not make  sting to be                                    | No D  short to the dense for   | lorine 175.5.       |
| emarks:  Test  Gross Alpha  Gross Beta  Radon-222  Bottle A  Radon-222   | Federal Procedure 4000 4100 4004   | Youd , / Toul  | Iced: Yes []  ield Data:  d not make  sting to be                                    | No D  short to the dense for   | lorine 17515.       |
| itric Acid Preserved: Yes  abmitters Code:   Test  Gross Alpha  Gross Beta  Radon-222  Bottle A  Radon-222  Bottle B   | Federal Processing Services   No   Federal Processing Services   F | Youd , / Toul  | Iced: Yes []  ield Data:  d not make  sting to be                                    | No D  short to the dense for   | lorine 17515.       |
| itric Acid Preserved: Yes  abmitters Code:   Test  Gross Alpha  Gross Beta  Radon-222  Bottle A  Radon-222  Bottle B  Field Blank #A   | EPA Code  4000  4100  4004  4004   | Youd , / Toul  | Iced: Yes []  ield Data:  d not make  sting to be                                    | No D  short to the dense for   | lorine 17515.       |
| itric Acid Preserved: Yes  abmitters Code:   Test  Gross Alpha  Gross Beta  Radon-222  Bottle A  Radon-222  Bottle B  Field Blank #A  Field Blank #B   | Federal Processing Services   No   Federal Processing Services   F | Youd , / Toul  | Iced: Yes []  ield Data:  d not make  sting to be                                    | No D  short to the dense for   | lorine Long Term    |
| itric Acid Preserved: Yes  abmitters Code:   Test  Gross Alpha  Gross Beta  Radon-222  Bottle A  Radon-222  Bottle B  Field Blank #A   | EPA Code  4000  4100  4004  4004   | Youd , / Toul  | Iced: Yes []  ield Data:  d not make  sting to be                                    | No D  short to the dense for   | lorine Long Term    |
| itric Acid Preserved: Yes  abmitters Code:   emarks:   Test  Gross Alpha  Gross Beta  Radon-222  Bottle A  Radon-222  Bottle B  Field Blank #A  Field Blank #B  Tritium                          | EPA Code  4000 4100 4004 4004 4004   | Youd , / Toul  | Iced: Yes []  ield Data:  d not make  sting to be                                    | No D  short to the dense for   | lorine Long Term    |
| itric Acid Preserved: Yes  ubmitters Code:   emarks:   Test  Gross Alpha  Gross Beta  Radon-222  Bottle A  Radon-222  Bottle B  Field Blank #A  Field Blank #B  Tritium  Ra - 226                | EPA Code  4000 4100 4004 4004 4004 4004 4004   | Youd , / Toul  | Iced: Yes []  ield Data:  d not make  sting to be                                    | No D  short to the dense for   | lorine Long Term    |
| itric Acid Preserved: Yes  ubmitters Code:   Test  Gross Alpha  Gross Beta  Radon-222  Bottle A  Radon-222  Bottle B  Field Blank #A  Field Blank #B  Tritium  Ra - 226  Ra - 228  Total Uranium | EPA Code  4000 4100 4004 4004 4004 4004 4004 40  | Yand . / T.  | Iced: Yes Dield Data:  Iced: Yes Dield Data:  Iced: Yes Delle Data:  Results (pCi/L) | No Description of the contract | Date Reported       |
| itric Acid Preserved: Yes  ubmitters Code:   Test  Gross Alpha  Gross Beta  Radon-222  Bottle A  Radon-222  Bottle B  Field Blank #A  Field Blank #B  Tritium  Ra - 226  Ra - 228                | EPA Code  4000 4100 4004 4004 4004 4004 4004 40  | Laboratory No.   | Iced: Yes Dield Data:  Let marph Sting to be  Results (pCi/L)                        | No D  short to the dense for   | Date Reported       |
| Gross Alpha Gross Beta Radon-222 Bottle A Radon-222 Bottle B Field Blank #A Field Blank #B Tritium Ra - 226 Ra - 228 Total Uranium   | EPA Code  4000 4100 4004 4004 4004 4004 4004 40  | Yand . / T.  | Iced: Yes Dield Data:  Iced: Yes Dield Data:  Iced: Yes Delle Data:  Results (pCi/L) | No Description of the contract | Date Reported       |

| Send Report To:                                     |  | State of Ma DHMH - Laboratorie Division of Environ RADIATION LA | ryland s Administration mental Chemistry BORATORY       | 000688                                   | 329 ₫                |
|---|--|---|---|--|----------------------|
|   | 20   | 1 W. Preston Street, Baltim<br>John M. DeBoy, L                 |   |  |                      |
| Sample Buttle No. A: FI                             |  |   | LYSIS REQUES  |  | No B:                |
| Plant/Site Name:                                    | Ho. Co.                                    |   | Co  | ounty: How                               | rard s               |
| Sample Source:                                      | BJ Hed Hz                                  |   | Location:   | (well no, lab sink                       | o, sample tap, etc.) |
| County: 3   | Plant No.                                  |   |   |  |                      |
| CHECK (one per box)                                 | *  |   |   |  |                      |
| Drinking Water Landfill Stream Other                | Community<br>Non-commu<br>Private<br>Other | nity  | Source (raw water) Distribution (treated) MCL           | Emerger<br>Routine<br>Recheck<br>Special | 00                   |
| Nitric Acid Preserved: Ye Submitters Code: Remarks: | es No Federal Pro                          | Dresurd to  | Telephone No.: _ Time Collected:  Iced: Yes  ield Data: | 9:55 a.m.  No  Ch                        | p.n                  |
| Gross Alpha   | EPA Code                                   | Laboratory No.  | Results (pCi/L)   | Date Analyzed                            | Date Reported        |
| Gross Beta  | 4100                                       | 488   | 24.0  | 11/29/10                                 | 12/1/10              |
| Radon-222 Bottle A                                  | 4004                                       | 484   | 27.0  | - <b>1</b>                               | "                    |
| Radon-222 Bottle B                                  | 4004                                       |   |   |  |                      |
| Field Blank #A                                      | 4004                                       |   | ak english  |  |                      |
| Field Blank #B                                      | 4004                                       |   |   |  |                      |
| Tritium   |  |   |   |  |                      |
| Ra – 226  | 4020                                       |   |   |  |                      |

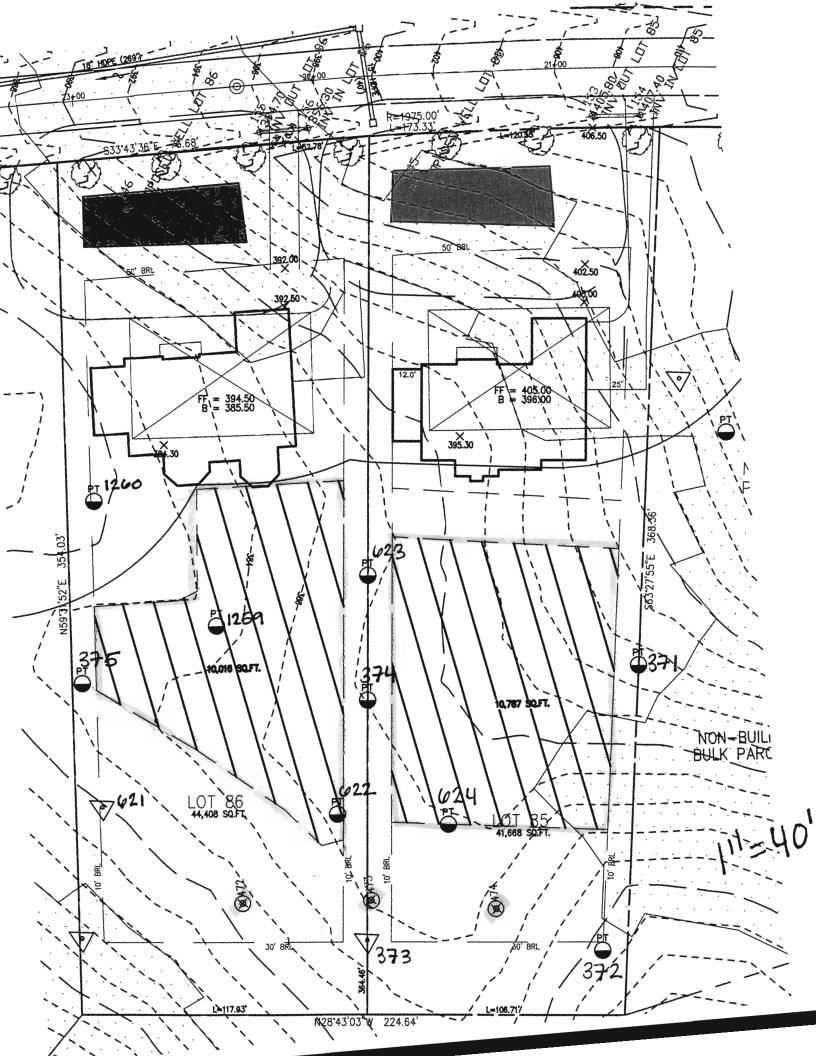
| 1 | Test               | EPA Code | Laboratory No. | Results (pCi/L) | Date Analyzed | Date Reported |
|---|--------------------|----------|----------------|-----------------|---------------|---------------|
| V | Gross Alpha        | 4000     | 488            | 42,0            | 11/29/10      | 12/1/10       |
| 1 | Gross Beta         | 4100     | 488            | 24.0            | 1             | 11            |
|   | Radon-222 Bottle A | 4004     |                |                 |               |               |
|   | Radon-222 Bottle B | 4004     |                |                 |               |               |
| V | Field Blank #A     | 4004     |                |                 |               |               |
|   | Field Blank #B     | 4004     |                |                 |               |               |
|   | Tritium            |          |                |                 |               |               |
|   | Ra – 226           | 4020     |                | W               |               |               |
|   | Ra – 228           | 4030     |                | Market was      | 4.17          |               |
|   | Total Uranium      | 4006     |                |                 |               | 1             |
|   |                    |          |                |                 |               |               |
|   |                    |          |                |                 |               |               |

| Date Received: | 10/ | 3, | 11 | O. |
|----------------|-----|----|----|----|
|                |     | D  | 1  |    |

Supervisor:

FORM REVISED 10/07 DHMH 4540 10/07

• Tel. No.: (410) 767 - 5537 • Fax No: (410) 333-5373



## 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: FOOLES WELL DY INITY Telephone #: 443-609-4195 Address: PO BOX 202  WOODENE, 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 COMOTON Licenset MSD 009  |
| A licensed individual must perform the actual installation. Apprentices must be under the supervision of a  |
| icensed 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: TON BY OFFE Telephone #: 410 - 489 · 7407 Subdivision: POTUVENT CHOSE Lot #: 610 Well Tag #: HO - 45 - 14810  |
| Site Address: 4955 VIIIK VIIIEW OVER COX. CT  |
| Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit   |
| Submersible Pump Data  Pitless Adapter  Well Cap and Electric Conduit  Two piece waterlight cap: \( \sigma \)   |
| Model#: 15 Screened, vented well cap: VCS   |
| Pump Capacity GPM Depth: 36" (36" min) Cap secured to casing: NG  |
| Well Yield: GPM NSF/WSC approved: Conduit min 18" B.G.: C   |
| Depth of well encountered at time of pump installation: 200 (feet) Conduit secured to well capt.  |
| 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' Only P/O  PVC sleeve to undisturbed soil at wall penetration: VCS  PSI: 10 (160 psi min)  Length of sleeve(5' minimum from foundation): 5'  Sleeve sealed properly: VCS   |
|   |
| The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping,<br>listribution box, drainfields, and sewage reserve area. If this <u>cannot</u> be accomplished, contact this office for  |
| approval prior to installation.   |
| William Company   |
| Signature of company representative responsible for installation date   |
| For Health Department Use Only - Not to be completed by Installer   |
|   |
| Date Insp. Requested: Date Insp. Approved: O P D Inspector:   |
| 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  |
| "Adamste count observed below nitless situated  |