

0320

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

45 DAYS AFTER WELL IS COMPLETED. COUNTY NUMBER 13 A515042

(THIS NUMBER IS TO BE PUNCHED IN COLS. 3-6 ON ALL CARDS)

ST/CO USE ONLY DATE RECEIVED

DATE WELL COMPLETED

Depth of Well 375

PERMIT NO. H0-95-0276

OWNER: Toll Brothers, Valley View Overlook, TOWN: Ellicott City, SUBDIVISION: Benedict Farm, SECTION: , LOT: 40

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. Includes handwritten entries: Brown shale, Gray Limestone, 0-34, 34-375.

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 12 NO. OF POUNDS 1128

GALLONS OF WATER 72 DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 34 ft.

CASING RECORD casing types insert appropriate code below: [ST] STEEL, [CO] CONCRETE, [PL] PLASTIC, [OT] OTHER

MAIN CASING TYPE [PL] Nominal diameter top (main) casing (nearest inch)! 06 Total depth of main casing (nearest foot) 40

OTHER CASING (if used) diameter inch depth (feet) from to

SCREEN RECORD screen type or open hole (insert appropriate code below): [ST] STEEL, [BR] BRASS BRONZE, [PL] PLASTIC, [HO] OPEN HOLE, [OT] OTHER

DEPTH (nearest ft.) 40 375. A C H S R E E S L O T S I Z E 2 3 DIAMETER OF SCREEN 56 60 (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 TELESCOPE CASING LOG INDICATOR OTHER DATA

PUMPING TEST

HOURS PUMPED (nearest hour) 6.3

PUMPING RATE (gal. per min.) 5

METHOD USED TO MEASURE PUMPING RATE 1566

WATER LEVEL (distance from land surface) BEFORE PUMPING 65 ft.

WHEN PUMPING 95 ft.

TYPE OF PUMP USED (for test) [A] air, [P] piston, [T] turbine, [C] centrifugal, [R] rotary, [O] other, [J] jet, [S] submersible

PUMP INSTALLED DRILLER INSTALLED PUMP (CIRCLE) (YES or NO) YES [X] NO [O]

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

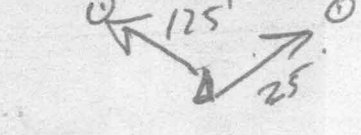
CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35

PUMP HORSE POWER 37 41

PUMP COLUMN LENGTH (nearest ft.) 43 47

CASING HEIGHT (circle appropriate box and enter casing height) [+] above, [-] below. LAND SURFACE 02 (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)



NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED YES [Y] NO [N]

CIRCLE APPROPRIATE LETTER: A A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED, E ELECTRIC LOG OBTAINED, P TEST WELL CONVERTED TO PRODUCTION WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE.

DRILLERS LIC. NO. MS D 009

DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

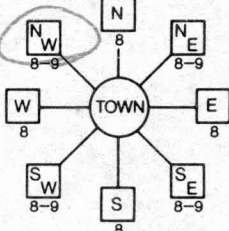
LIC. NO. D

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

Date Received (APA) **03-08-06**
 8 MM DD YY 13
Toll Brothers
 15 Last Name Owner First Name 34
14324 Triadelphia Rd
 36 Street or RFD 55
Glenn Md 21737
 57 Town 70 State 72 Zip 76

B 3 LOCATION OF WELL
 8 COUNTY **Howard** 21
 23 SUBDIVISION **Benedict Farm** 42
 SECTION **40** LOT **40**
 44 46 48 50
Columbia
 52 NEAREST TOWN 71
 MILES FROM TOWN (enter 0 if in town) **3** M I I
 73 76 77 78

DRILLER INFORMATION
Allen Compton M S D 009
 76 Driller's Name License No. 81
Fogles Well Drilling
 Firm Name
580 Obrecht Rd
 Address
3-7-06
 Signature Date

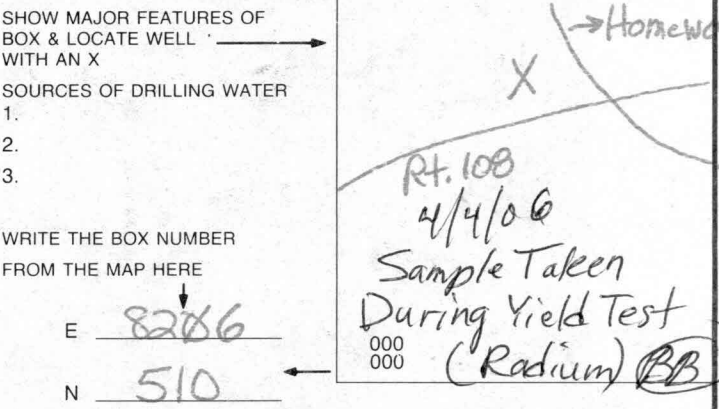
B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)

 NEAR WHAT ROAD **Homewood** 30
Valley View Overlook
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
 NORTH **310**
 WEST EAST
 SOUTH
 34 37
 DISTANCE FROM ROAD **200** FT
 ENTER FT OR MI 38 39
 TAX MAP: **29** BLK: **9** PARCEL **28**

B 2 WELL INFORMATION
 APPROX. PUMPING RATE **5**
 1 2 (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)
 I 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 (13) **A515042**
 COUNTY NAME COUNTY NO.
 STATE SIGNATURE _____ INSERT S → 41
 DATE ISSUED **3/9/2006**
 43 MM DD YY 48 CO SIGNATURE **Brian Baber** 3/9/2007 EXP. DATE
 NORTH GRID **510** 0 0 0 EAST GRID **826** 0 0 0
 50 55 57 63

APPROXIMATE DEPTH OF WELL **300** FEET
 24 28
 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 **826**
 N **510**

METHOD OF DRILLING (circle one)
 BORED (or Augered) JETTED Jetted & DRIVEN
 30 AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary)
 37 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 **H02003G006**
 PERMIT No. **H0-95-0276**
 70 71 72 73 74 75 76 77 78 79

B 1 6577

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type

STATE PERMIT NUMBER

fill in this form completely

524116

Date Received (APA)

OWNER INFORMATION

8 MM DD YY 13
Toll Brothers
1104 Columbia Gateway Dr. Suite 230
Columbia, MD 21046

B 3

LOCATION OF WELL

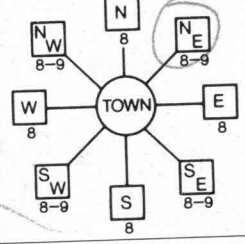
Howard
Benedict Farm
Clarksville
MILES FROM TOWN (enter 0 if in town)

DRILLER INFORMATION

Michael Barlow
Michael Barlow Well Drilling Inc.
522 Underwood Ln. Bel Air MD 21014

B 4

DIRECTION OF WELL FROM TOWN (CIRCLE BOX)



Valley View Overlook
off Route 108

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)



34 375 37
DISTANCE FROM ROAD ENTER FT OR MI

B 2

WELL INFORMATION

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

TAX MAP: BLK: PARCEL

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
INDUSTRIAL, COMMERCIAL, DEWATERING
PUBLIC WATER SUPPLY WELL
TEST, OBSERVATION, MONITORING
GEO-THERMAL

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

COUNTY NAME COUNTY NO.
STATE SIGNATURE INSERT S
DATE ISSUED
CO SIGNATURE EXP. DATE
NORTH GRID EAST GRID

APPROXIMATE DEPTH OF WELL 300 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH

METHOD OF DRILLING (circle one)

BORED (or Augered) JETTED Jetted & DRIVEN
AIR-ROTary AIR-PERcussion ROTARY (Hydraulic Rotary)
CABLE REVERSE-ROTary DRIVE-POINT

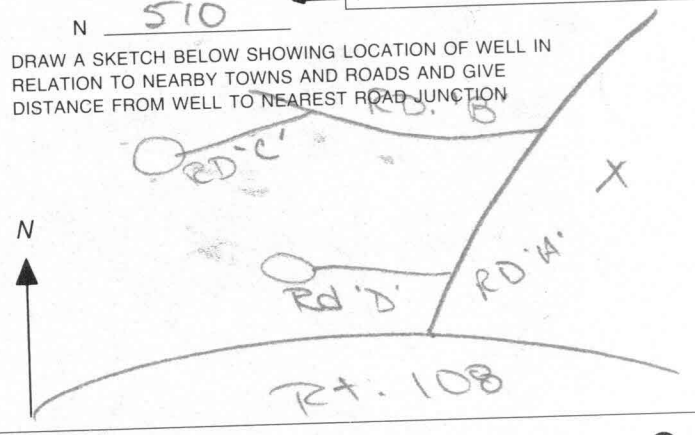
SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X

SOURCES OF DRILLING WATER
1.
2.
3.

WRITE THE BOX NUMBER FROM THE MAP HERE

E 820
N 510

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



REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

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

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

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

APPROP. PERMIT NUMBER
PERMIT No.

SPECIAL CONDITIONS

NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

HOWARD COUNTY HEALTH DEPARTMENT
BUREAU OF ENVIRONMENTAL HEALTH
WATER AND SEWERAGE PROGRAM
TEL: (410)313-2640 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 #: 410-795-5670
Address: 580 Dorecht Rd
Supersville 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): Allen Compton License# MSD009

*A licensed individual must perform the actual installation. Apprentices must be under the direct supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification.

Name of Property Owner: DDI Brothers Telephone #: _____
Subdivision: Benedict Farm Palucent Lot #: 4D Well Tag #: HO-95-0276
Site Address: 4916 Valley View Overlook

Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit
Make: Grundfos Make: Campbell Two piece watertight cap: YES
Model #: 1550E15-290 Model#: N/A Screened, vented well cap: YES
Pump Capacity 15 GPM Depth: 36 (36" min) Cap secured to casing: YES
Well Yield: 5 GPM NSF approved: YES Conduit min 18" B.G.: YES
Depth of well encountered at time of pump installation: 375 (feet) Conduit secured to well cap: YES
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4
Torque arrestors or Cable guards are required - Must circle one
Safety rope, if used, attached to inside of well casing with eye bolt NA

Piping to house House Connection
Type: 1" Black Plastic PVC sleeved to undisturbed soil at wall penetration: YES
PSI: 160 (160 psi min) Approximate length of sleeve: 5
Depth of supply line: 42 (36" min) Sleeve caulked and 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.

Allen Compton 9/26/06
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: 10/24/06 (RW)
Inspection Data: Pitless adapter and 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 installed inside of well 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



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

ATTENTION WELL DRILLERS!!!

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

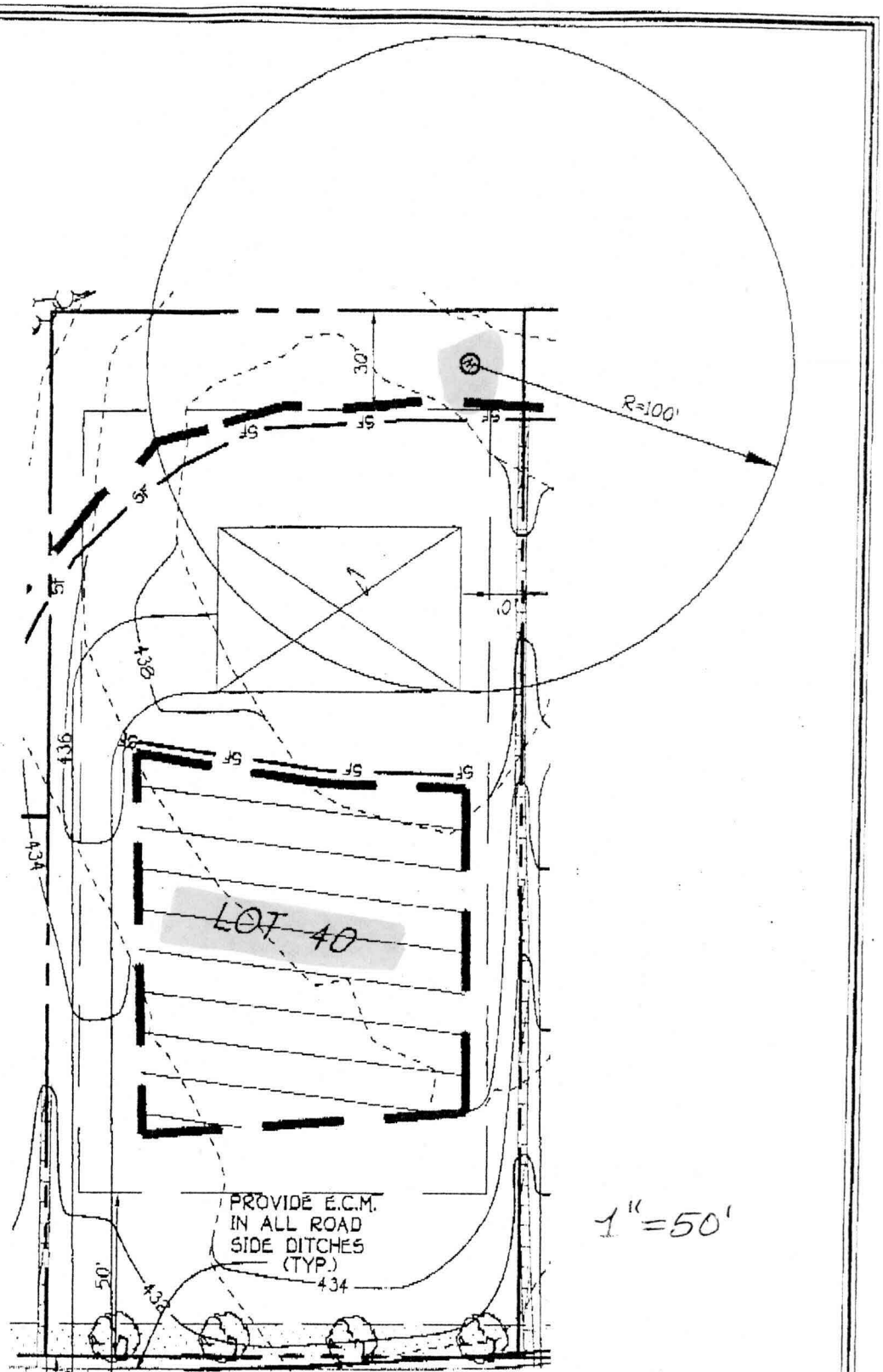
- The well site has been staked by Fisher Collins-Carter on 3-16-06 and is ready for site inspection.
- _____ will call the Health Department for a time to meet in the field to verify a well location.
- Site plan for new well is attached to well permit application.

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

KN

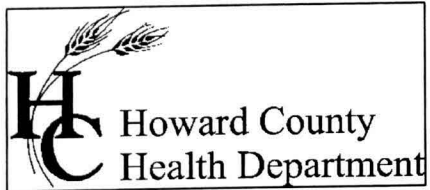
K:\SDSK\PROJ 0754 Benedict Farm\dwg\PHASE 1 - FINAL\30754 WELL LOCATION.dwg, 2/16/2006 4:08:07 PM, 1:1

3/8/2006
Well site has
oris going to
be staked by
F, C+C. (BB)



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

WELL LOCATION PLAN
 LOT-40
 ZONED RC-DEO
 TAX MAP NO. 24 GRID NO. 9 PARCEL NO. 20
 THIRD ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 SCALE 1" = 50' DATE: FEBRUARY 16, 2006



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

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

November 16, 2006

Toll MD III LP
7164 Columbia Gateway Drive, #230
Columbia, MD 21046

RE: Homewood Crossing, Lot 40
4916 Valley View Overlook
Ellicott City, MD 21042
BP #: B00159068
Well Permit # HO-95-0276

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 08/22/2006. Final approval of the well line connection to the dwelling was approved on 10/24/2006.**

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.

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-95-0276. 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.**

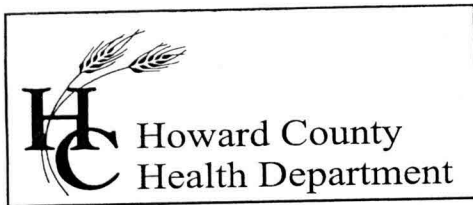
Date of Water Samples: 10/06/2006
Date of Well Completion: 04/04/2006

Approving Authority,

Brian Baker

Brian Baker, R. S.
Well & Septic Program

cc: Building Inspector's Office
Community Health Services
File



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

December 22,, 2006

Mr. and Mrs. Ramon Alburg
4916 Valley View Overlook
Ellicott City, Maryland 21042

Lot 40 Benedict Farm/Homewood Crossing

RE: Temporary ICOP Results

Dear Mr. and Mrs. Alburg:

Retesting was performed on November 13, 2006 and samples submitted to GPL Laboratories to assess the post-treated levels of **Gross Alpha** and **Gross Beta**, as well as **Radium 226/228** in your well water supply.

Post-treatment short term results revealed a **Gross Alpha** was 5.3 ± 1.8 picocuries/liter (pCi/L), while the **Gross Beta** level was 4.6 ± 1.3 pCi/L. Here the **Gross Alpha** was below its MCL of 15 pCi/L, while the **Gross Beta** was below its targeted value of 50 pCi/L (roughly equal to the annual dose rate of 4 millirems/year).

Post-treatment long term results revealed a **Gross Alpha** of 3.3 ± 1.3 pCi/L; while the **Gross Beta** level was 1.8 ± 1.0 pCi/L. Here again, the **Gross Alpha** remained below its MCL of 15 pCi/L, while the **Gross Beta** result was also below its targeted value of 50 pCi/L.

A post-treatment **Radium** sample was taken to assess the presence of **Radium 226** or **Radium 228**. These naturally occurring isotopes of radium are considered the most important due to their longer half-lives and health significance.

Results revealed a **Radium 226** level of 0.6 ± 0.06 pCi/L, while the **Radium 228** level was 1.5 ± 0.3 pCi/L. The combined **Radium 226 / 228** was below the MCL of 5 pCi/L.

At this time, the installed treatment system is working to reduce the levels of **Gross Alpha** and **Gross Beta** (treated short and long term) as well as the **Radium 226/228**. At the time of testing and with respect to these parameters, your post-treated water supply is safe for all uses. **The Temporary ICOP is now fully recognized and no further action (for these parameters) is needed at this time.** To ensure safe levels, continue to maintain your treatment system.

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
Toll Brothers

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 #:	60861	Account #:	1930
Reference:	Toll Brothers Lot 40	Company:	Fogle's Well Drilling
Location:	4916 Valley View Overlook	Requested By:	Dave Fogle
	Ellicott City, MD 21042	Source:	Well Water
Date/ Time Collected:	10/6/2006 1200	Site:	Kitchen Sink Tap
Date/Time Rec'd:	10/6/2006 1545	Treatment:	None
Chlorine ppm:	Free: ND Total: ND	pH:	6.1
Collected By:	V.M. Fadoul 6804VF-FS	Well #:	HO-95-0276

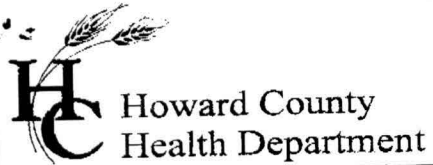
PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYS
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223 B.	10/7/2006 / 1000 / BCD
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223 B.	10/7/2006 / 1000 / BCD
Nitrate	3.28	mg/L	10	601	10/6/2006 / 1550 / BCD
Turbidity	0.50	NTU	<10	SM18 2130B	10/6/2006 / 1550 / BCD
Sand	NS	mg/L	5	Visual/Gravimetric	10/6/2006 / 1550 / BCD

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 on-site

Reason for Test : Use & Occupancy
 Building Permit # : B00159068

Date Reported: 10/9/2006



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

May 18, 2006

Toll Brothers
14324 Triadelphia Road
Glenelg, Maryland 21737

RE: Benedict Farm Subdivision, Lot 40

Well Tag: HO-95-0276

To Whom It May Concern:

A sample was collected from a yield test on April 4, 2006 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 45.6 ± 2.5 picocuries/liter (pCi/L); while the **Gross Beta** level was 21.0 ± 1.3 pCi/L. The **Gross Alpha** result exceeded its maximum contaminant level (MCL) of 15 pCi/L, while the **Gross Beta** level was below its MCL of 50 pCi/L.

Since the **Gross Alpha** finding exceeded its MCL, additional testing for **Radium** will be necessary prior to occupancy to verify existing levels. Alternatively, you may install treatment designed to reduce **Gross Alpha**, **Gross Beta** and **Radium**, plus provide post treated results confirming that levels are in conformance with existing standards.

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, Deputy Director
Bureau of Environmental Health

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

Send Report To:

Howard County
Environmental
Health

Toll Bros -MD Incorporated
7164 Columbia Gateway Dr.

State of Mar Columbia, MD 21046 (410) 872-9105

DHMH - Laboratories Administration

Division of Environmental Chemistry

RADIATION LABORATORY

201 W. Preston Street, Baltimore, Maryland 21201

J. Mehsen Joseph, Ph.D., Director

LABORATORY ANALYSIS REQUEST

H0BF40BB950276

Sample Bottle No. A: 7 No. B: _____ Field Blank Bottle No. 1: _____ No. 2: _____

Site Name: Benedict Farm - Lot 40 County: Howard

Sample Source: Valley View Overlook Location: Well # HO-95-0276
(well no., lab sink, sample tap, etc.)

County: 1 3 Plant No.

Collector: Brian Baker Telephone No.: (410) 313-2643

Date Collected: 4/4/2006 Time Collected: 11:00 a.m. _____ p.m.

Nitric Acid Preserved: Yes No Iced: Yes No

Submitters Code: Federal Project: S Field Data: _____ pH _____ Chlorine _____

Remarks: Taken During Well Yield Test

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Reported
✓	Gross Alpha	4000	<u>604014-003</u>	<u>45.6 ± 2.5</u>	<u>4/7/06</u>
✓	Gross Beta	4100		<u>21.0 ± 1.3</u>	
	Radon-222 Bottle A	4004			
	Radon-222 Bottle B	4004			
	Field Blank #1	4004			
	Field Blank #2	4004			
	Tritium				
	Ra - 226	4020			
	Ra - 228	4030			
	Total Uranium	4006			

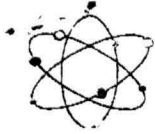
Date Received: _____/_____/_____

Section Chief:

Analytical Summary Report

Client Name:	Howard County Health Department	Client Sample ID:	HOBFB40BB950276
Sample Date/Time:	4/4/2006	Lab Sample ID:	604014-003-003-1/1
Receipt Date/Time:	4/4/2006	Sample Matrix:	WATER
Prepared Date/Time:		Analytical Method:	ALPHA/BETA BY METHOD 900.0

Isotope	Result	Uncertainty 1σ	MDA	Q
Gross Alpha	45.6027 pCi/L	± 2.5536 pCi/L	1.259 pCi/L	
Gross Beta	20.8773 pCi/L	± 1.2676 pCi/L	2.6875 pCi/L	



Florida Radiochemistry Services, Inc.

Analysis Report

Lab Sample I.D.	0604014-01	0604014-02	[REDACTED]	0604014-04
Client I.D.	HW-237-03	HOTG20BB950264	[REDACTED]	HOTG19BB950263
Gross Alpha	50.4	21.1	[REDACTED]	7.6
Error +/-	6.2	3.0	[REDACTED]	1.9
MDL	2.7	1.5	[REDACTED]	1.4
EPA Method	900.0	900.0	[REDACTED]	900.0
Prep Date	04/04/06	04/04/06	[REDACTED]	04/04/06
Analysis Date	04/05/06	04/05/06	[REDACTED]	04/05/06
Analyst	MJN	MJN	MJN	MJN
Gross Beta	22.6	17.7	[REDACTED]	12.0
Error +/-	2.3	2.0	[REDACTED]	1.9
MDL	2.3	2.1	[REDACTED]	2.2
EPA Method	900.0	900.0	[REDACTED]	900.0
Prep Date	04/04/06	04/04/06	[REDACTED]	04/04/06
Analysis Date	04/05/06	04/05/06	[REDACTED]	04/05/06
Analyst	MJN	MJN	MJN	MJN
Units	pCi/l	pCi/l	pCi/l	pCi/l