

C1 1183

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS REPORT MUST BE SUBMITTED WITHIN 45 DAYS AFTER WELL IS COMPLETED.

COUNTY NUMBER A516063

(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 400'

PERMIT NO. FROM "PERMIT TO DRILL WELL" Ho-95-0246

OWNER Horton R. D. STREET OR RFD Heather Glen Way TOWN Clarksville MD SUBDIVISION Turnbury Estate SECTION LOT 2839

WELL LOG

Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Sand, Gray Mica, and Rock.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y) NO (N) TYPE OF GROUTING MATERIAL (C) BENTONITE CLAY (B) NO. OF BAGS 30 NO. OF POUNDS 2820

CASING RECORD

MAIN CASING TYPE (S) Nominal diameter top (main) casing (nearest inch) 6 Total depth of main casing (nearest foot) 88

SCREEN RECORD

DEPTH (nearest ft.) 86 400. Includes screen type (S) and diameter of screen (56 to 60).

C3

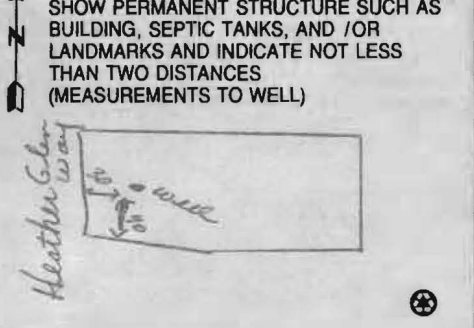
PUMPING TEST

HOURS PUMPED (nearest hour) 6 PUMPING RATE (gal. per min.) 3.1 METHOD USED TO MEASURE PUMPING RATE Bucket

PUMP INSTALLED

DRILLER INSTALLED PUMP YES (N) TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) 29 CAPACITY: GALLONS PER MINUTE (to nearest gallon) 31 35

LOCATION OF WELL ON LOT



NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED (Y) CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 28.04.04 "WELL CONSTRUCTION" AND IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE CAPTIONED PERMIT...

DRILLERS LIC. NO. 1 M S D 0 2 4 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. 1 M S D 0 2 7

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

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

B 1 1475

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

523944 please type

STATE PERMIT NUMBER

Ho-95-0246 fill in this form completely

Date Received (APA) 01 20 06 OWNER INFORMATION Horton R. D. 1370 Piccard Drive Rockville Md 20850

B 3 LOCATION OF WELL Howard 8 COUNTY 21 Turnbury Grove 23 SUBDIVISION 42 SECTION 44 46 LOT 34 48 50 clarksville 52 NEAREST TOWN 71 MILES FROM TOWN 1/2

DRILLER INFORMATION Joseph L. Mayne M SD 024 76 License No. 81 Joseph L. Mayne Well Drilling 5512 Ridge Rd Mt Airy Md 21771

B 4 DIRECTION OF WELL FROM TOWN (CIRCLE BOX) W N NE E SW S SE S W NEAR WHAT ROAD Heather Glen way 11 30 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) WEST SOUTH DISTANCE FROM ROAD 25 FT ENTER FT OR MI 38 39 TAX MAP: 34 BLK: 11 PARCEL 77

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) I INDUSTRIAL, COMMERCIAL, DEWATERING P PUBLIC WATER SUPPLY WELL T TEST, OBSERVATION, MONITORING G GEO-THERMAL

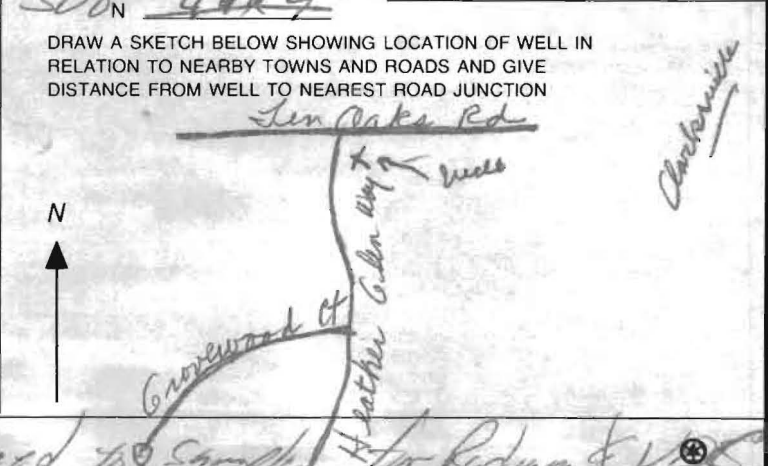
NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL Howard 1516063 COUNTY NAME COUNTY NO. STATE SIGNATURE DATE ISSUED 2/6/06 CO SIGNATURE EXP. DATE 2/9/07 NORTH GRID 499 000 EAST GRID 814 000

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

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X SOURCES OF DRILLING WATER 1. well 2. 3. WRITE THE BOX NUMBER FROM THE MAP HERE E 814 4 500N 4929

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 DEEPEN 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) APPROX. PERMIT NUMBER Ho 2006 G 003 PERMIT No. Ho 95-0246

SPECIAL CONDITIONS NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

Send Report To:

State of Maryland
DHMH - Laboratories Administration
Division of Environmental Chemistry
TRACE ORGANICS SECTION
201 W. Preston Street, Baltimore, Maryland 21201
J. Mehsen Joseph, Ph.D., Director

Lab No. Date Received

961180 FEB 24 03

Howard County Health Department
Bureau of Environmental Health
7178 Columbia Gateway Drive
Columbia, Maryland 21046

LABORATORY ANALYSIS REQUEST ³⁴

Do not write above this line

Bottle No: 325 HOGCTG3 (E) and (F) Plant/Site Name: Turnberry Grove County: HOWARD
Sample Source: Heather Glen Way Location: HO-95-0246
Street Town or City (well no., lab sink, sample tap, etc.)

Sampler ID: 2774GC PWSID: Plant ID:

Collector: Samuel A Creighton (410) 313-2775
(include telephone number)

Date Collected: 2/23/2006 Time Collected: 1:30 a.m. p.m.

Field Preserved: Yes No Preservative Used: 1:1 HCl + Ascorbic acid Na₂SO₄ 6 mg NH₄Cl

Sample Type: Drinking Water Landfill Source (Raw Water) Liquid
 Community Stream Distribution (Treated) Solid
 Non-Community Sediment Water Treatment Plant POE Other
 Private

Specify Program: SDWA NPDES CWA RCRA Consumer Products Other

Test Requested: Trihalomethanes Volatiles Semi-volatiles Haloacetic Acids

FIELD DATA: 6.8 0.0 0.0
pH Free Cl Total Cl

Field Blank Bottle No.: HOGCTG32FB(D)E(C)
Trip Blank Bottle No.: HOGCTG32TB(A)E(B)

(yield test)

Remarks: please run full drinking water scan incl. MTBE

Section Chief: Debra A. Mehsen Date Reported: 3/9/06

•Phone: (410) 767 - 5643 •Fax: (410) 333 - 5237

Form Revised 12/00
DHMH 4362

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

Certificate of Analysis - Volatiles

Sample Name: 961180 TB
 Date Analyzed: 03/07/06

Method: EPA 524.2

<u>Contaminants</u>	<u>DL*</u>	<u>MCL*</u>	<u>Result*</u>	<u>Contaminants</u>	<u>DL*</u>	<u>MCL*</u>	<u>Result*</u>
<u>TRihalOMETHANES</u>				<u>UNREGULATED</u>			
Bromodichloromethane	0.5	na	ND	Dichlorodifluoromethane	0.5	na	ND
Bromoform	0.5	na	ND	Chloromethane	0.5	na	ND
Chloroform	0.5	na	ND	Bromomethane	0.5	na	ND
Dibromochloromethane	0.5	na	ND	Chloroethane	0.5	na	ND
TOTAL THMs	-	80	-	Trichlorofluoromethane	0.5	na	ND
<u>REGULATED</u>				1,1-Dichloroethane	0.5	na	ND
Benzene	0.5	5	ND	1,3-Dichlorobenzene	0.5	na	ND
Carbon Tetrachloride	0.5	5	ND	Dibromomethane	0.5	na	ND
Chlorobenzene	0.5	100	ND	1,1-Dichloropropene	0.5	na	ND
1,4-Dichlorobenzene	0.5	75	ND	trans-1,3-Dichloropropene	0.5	na	ND
1,1-Dichloroethene	0.5	7	ND	1,1,2,2-Tetrachloroethane	0.5	na	ND
1,2-Dichloroethane	0.5	5	ND	1,3-Dichloropropane	0.5	na	ND
1,2-Dichlorobenzene	0.5	600	ND	2,2-Dichloropropane	0.5	na	ND
1,2-Dichloropropane	0.5	5	ND	cis-1,3-Dichloropropene	0.5	na	ND
cis-1,2-Dichloroethene	0.5	70	ND	2-Chlorotoluene	0.5	na	ND
trans-1,2-Dichloroethene	0.5	100	ND	4-Chlorotoluene	0.5	na	ND
Ethylbenzene	0.5	700	ND	Bromobenzene	0.5	na	ND
Styrene	0.5	100	ND	1,3,5-Trimethylbenzene	0.5	na	ND
Tetrachloroethene	0.5	5	ND	1,2,4-Trimethylbenzene	0.5	na	ND
Trichloroethene	0.5	5	ND	1,2,3-Trichlorobenzene	0.5	na	ND
1,1,1-Trichloroethane	0.5	200	ND	n-Propylbenzene	0.5	na	ND
Toluene	0.5	1000	ND	n-Butylbenzene	0.5	na	ND
Vinyl Chloride	0.5	2	ND	Naphthalene	0.5	na	ND
o-Xylene	0.5	na	ND	Hexachlorobutadiene	0.5	na	ND
m+p-Xylene	1.0	na	ND	Isopropylbenzene	0.5	na	ND
Total Xylenes	1.5	10000	ND	1,2,3-Trichloropropane	0.5	na	ND
Methylene Chloride	0.5	5	ND	1,2-Dibromo-3-Chloropropane	0.5	na	ND
1,1,2-Trichloroethane	0.5	5	ND	p-Isopropyltoluene	0.5	na	ND
1,2,4-Trichlorobenzene	0.5	70	ND	tert-Butylbenzene	0.5	na	ND
				sec-Butylbenzene	0.5	na	ND
				Bromochloromethane	0.5	na	ND
				1,1,1,2-Tetrachloroethane	0.5	na	ND
				1,2-Dibromoethane	0.5	na	ND
				Methyl-tert-Butyl Ether (MTBE)	0.5	na	ND
				Ethyl-tert-Butyl Ether (ETBE)	0.5	na	ND
				tert-Amyl Methyl Ether (TAME)	0.5	na	ND

*All results are in parts per billion (ppb)

ND = Less than the detection limit

na = not applicable

e = estimated value

Section Chief: Deborah Miller-Judd

Date Approved: 3/9/06

LANSVILLE MANOR
LOTS 3 THRU 18
IT NOS. 8501-8503
F-85-33

THRU 18
IT NOS. 8501-8503
F-85-33

MAJOR COLLECTOR
TEN CREEK ROAD
ULTRAMAR OF 174'

EXISTING 24" CONDUIT
& UTILITY PASSAGE
FOR NO. 8503

EXISTING 24" CONDUIT
& UTILITY PASSAGE
FOR NO. 8502

EXISTING 24" CONDUIT
& UTILITY PASSAGE
FOR NO. 8502

EXISTING POWER POLE
TO REMAIN

EX. #17
489.1

EXISTING POWER POLE
TO BE RELOCATED

EXISTING POWER POLE
TO BE RELOCATED

EXISTING POWER POLE
TO BE RELOCATED

EXISTING OVERHEAD LINES
EXISTING FRAMES
EXISTING POWER POLE TO BE RELOCATED

EXISTING POWER POLE
TO BE RELOCATED

EXISTING POWER POLE
TO BE RELOCATED

EXISTING POWER POLE
TO BE RELOCATED

15'-0" MIN. CLEARANCE
OVER PROTECTION

15'-0" MIN. CLEARANCE
OVER PROTECTION

LOT 18

LOT 17

LOT 16

LOT 15

LOT 14

LOT 13

LOT 12

LOT 11

LOT 10

HEATHER GLEN WAY

LINE OF ADJACENT
PARCEL 1

TYPICAL SECTION
OF TRIPLE

TYPICAL SECTION
OF TRIPLE

BUILDABLE
PRESERVATION PARCEL A
HOMING EQUITY BANK
HOMEOWNERS ASSOCIATION
ESSENTIAL HOLDING

15'-0" MIN. CLEARANCE
OVER PROTECTION

15'-0" MIN. CLEARANCE
OVER PROTECTION

15'-0" MIN. CLEARANCE
OVER PROTECTION

15'-0" MIN. CLEARANCE
OVER PROTECTION



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 LLC Telephone #: 410-795-8670
Address: J PO Box 202 J
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): David C Fogle License# MSP 226

*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: Williamsburg Group Telephone #: 410-977-3345
Subdivision: Pipers at Clarksville Lot #: 34 Well Tag #: HO-95-0246v
Site Address: 6203 Heather Glen Way
Clarksville, MD 21024

<u>Submersible Pump Data</u>	<u>Pitless Adapter</u>	<u>Well Cap and Electric Conduit</u>
Make: <u>Grundfos</u>	Make: <u>Campbell</u>	Two piece watertight cap: <u>YES</u>
Model #: <u>ISSAGE10-220</u>	Model #: <u>N/A</u>	Screened, vented well cap: <u>YES</u>
Pump Capacity <u>15</u> GPM	Depth: <u>36"</u> (36" min)	Cap secured to casing: <u>YES</u>
Well Yield: <u>3</u> GPM	NSF/WSC approved: <u>YES</u>	Conduit min 1 1/2" B.G.: <u>YES</u>
Depth of well encountered at time of pump installation: <u>400</u> (feet)		Conduit secured to well cap: <u>YES</u>
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4		
Torque anastors, Cable guards, or other acceptable method used— Must circle one		
Safety rope, if used, attached to brass rope adaptor or other acceptable method <u>inside of well casing</u> <u>N/A</u>		

<u>Piping to house</u>	<u>House Connection</u>
Type: <u>1" poly pipe</u>	PVC sleeve to undisturbed soil at wall penetration: <u>YES</u>
PSI: <u>200</u> (160 psi min)	Length of sleeve (S, minimum from foundation): <u>6'</u>
Depth of supply line: <u>36"</u> (36" min)	Sleeve sealed properly: <u>YES</u>

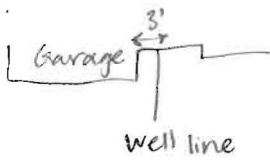
The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

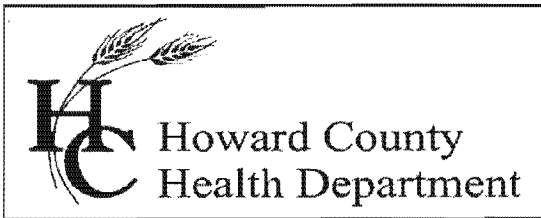
Signature of company representative responsible for installation: Dave Fogle date: 10-8-15

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

Date Insp. Requested: 10/9/15 Date Insp. Approved: 10/9/15 Inspector: SC

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





Bureau of Environmental Health

8930 Stanford Blvd., Columbia, MD 21046-2147

Main: 410-313-1774 | Fax: 410-313-2648

TDD 410-313-2323 | Toll Free 1-866-313-6300

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Twitter: [HowardCoHealthDep](https://twitter.com/HowardCoHealthDep)

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

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – JUNE 2, 2016

December 2, 2015

Homeowner
6203 Heather Glen Way
Clarksville, MD 21029

**RE: The Preserve at Clarksville, Lot 34
6203 Heather Glen Way
Building Permit: B15001491
Well Permit: HO-95-0246**

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 **10/30/2015**. Final approval of the well line connection to the dwelling was granted on **10/9/2015**. The well construction was completed on **2/23/2006**. Water samples were collected on **11/17/2015 & 11/25/2015**.

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 **2/26/2006**. Results showed a Gross Alpha level of **7.6 pCi/L** and **Gross Beta** level of **12.3 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.

Volatile organic compound (VOC) sample was collected on **6/8/2012** respectively. This testing was performed to establish a baseline evaluation of the well water supply in the area due to known VOC ground water contamination concerns. Results from this sampling did not show any presence of VOC contamination. With respect to the parameters and guidelines of the EPA National Primary Drinking Water Regulations, the future well water supply is currently 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-95-0246. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

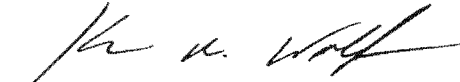
This Interim Certificate of Potability will expire **six months** from the date of issuance. Submission of a second bacteriological test indicating the water is free of coliform and fecal coliform bacteria is required prior to the expiration date, after which time a Final Certificate of Potability will 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>

In closing, please refer to our "Homeowner Fact Sheet" for understanding your Best Available Technology (BAT) for your onsite sewage disposal. You will also find a link to Maryland Department of the Environments website which elaborates in further detail operation and maintenance of your BAT.

Approving Authority,



Kevin M. Wolf, L.E.H.S., Supervisor
Groundwater Management Section
Well & Septic Program

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

846 / 1000

Turnbury Grove

Send Report To:

State of Maryland

DHMH - Laboratories Administration
Division of Environmental Chemistry
RADIATION LABORATORY

45-0246

Heather Glen Way

Lot 32

Howard County Health Department
Bureau of Environmental Health
7178 Columbia Gateway Drive
Columbia, Maryland 21046

201 W. Preston Street, Baltimore, Maryland 21201
J. Mehsen Joseph, Ph.D., Director

LABORATORY ANALYSIS REQUEST

HO-GCT632223

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

Plant/Site Name: Turnbury Grove Lot 32 34 rep County: HOWARD

Sample Source: well (yield test) Location: HO 95 0246
(well no., lab sink, sample tap, etc.)

County: 1 3 Plant No.

Collector: G. Creighton Telephone No.: 410-313-1773

Date Collected: 2/23/06 Time Collected: 9 a.m. _____ p.m.

Nitric Acid Preserved: Yes No Iced: Yes No

Submitters Code: Federal Project: S Field Data: 6.8 N/A
pH Chlorine

Remarks: Raw water taken at yield test

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Reported
✓	Gross Alpha	4000	602096-003-003	7.6 ± 1.0	2/27/06
✓	Gross Beta	4100		12.3 ± 1.0	
	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:	HO-GCTG32223
Sample Date/Time:	2/23/2006	Lab Sample ID:	602086-003-003-1/1
Receipt Date/Time:	2/23/2006	Sample Matrix:	WATER
Prepared Date/Time:		Analytical Method:	ALPHA/BETA BY METHOD 900.0

Isotope	Result	Uncertainty 1σ	MDA	Q
Gross Alpha	7.5768 pCi/L	± 1.019 pCi/L	1.2519 pCi/L	
Gross Beta	12.3008 pCi/L	± 0.9599 pCi/L	2.5276 pCi/L	

REPORT OF ANALYSIS

Laboratory ID #:	104463	Account #:	4470
Reference:	Preserve @ Clarksville Lot 34	Company:	Williamsburg Homes LLC
Location:	6203 Heather Glen Way Clarksville, MD 21029	Requested By:	Bob Corbett
Date/ Time Collected:	11/25/2015 1356	Source:	Well Water
Date/Time Rec'd:	11/25/2015 1530	Site:	Pressure Tank
Chlorine ppm:	Free: ND Total: ND	Treatment:	None
Collected By:	C. Mooshian 7268CM	pH:	7.2
		Well #:	HO-95-0246

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	11/26/2015 / 1000 / BCD
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	11/26/2015 / 1000 / 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 Visual well check: Sealed, vented cap
- 5 pH & Chlorine level tested on site

Reason for Test : Use & Occupancy

Building Permit # : B15001491

Date Reported: 11/30/2015

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 #: 104295 Account #: 4470
 Reference: Preserve @ Clarksville Lot 34 Company: Williamsburg Homes LLC
 Location: 6203 Heather Glen Way Requested By: Bob Corbett
 Clarksville, MD 21029 Source: Well Water
 Date/ Time Collected: 11/17/2015 1054 Site: Pressure Tank
 Date/Time Rec'd: 11/17/2015 1240 Treatment: None
 Chlorine ppm: Free: ND Total: ND pH: 6.8
 Collected By: J. Yeager 6176JY Well #: HO-95-0246

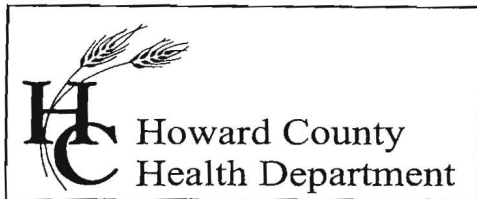
PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	53.1	MPN/ 100 ml	<1.0	SM18 9223	11/18/2015 / 1030 / LLO
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	11/18/2015 / 1030 / LLO
Nitrate	5.58	mg/L	10	601	11/17/2015 / 1530 / BCD
Turbidity	2.45	NTU	<10	SM18 2130B	11/17/2015 / 1430 / BCD
Sand	NS	mg/L	5	Visual/Gravimetric	11/17/2015 / 1430 / 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 Visual well check: Sealed, vented cap
- 8 pH & Chlorine level tested on site

Reason for Test : Use & Occupancy
Building Permit # : B15001491

Date Reported: 11/18/2015



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

July 12, 2006

D. R. Horton, Inc.
1370 Picardi Drive
Rockville, Maryland 20850

RE: Water Sample Results
Lot ~~32~~ Turnbury Grove
HO - 95 - 0246

To Whom this May Concern:

During the recent "yield test" of the well serving the future Lot 32 (located on Heather Glen Way), a sample was collected for volatile organic compounds (VOC's) on February 23, 2006. This testing was performed to establish a baseline evaluation of the well water supply due to known VOC ground water contamination concerns previously documented (during the 1990's and earlier) in properties nearby this development.

Results from this sampling were free of all tested VOC's to the limit of detection for the test method employed. Similar findings were noted for the corresponding Field and Trip Blank samples. With respect to these parameters, the future well water supply is **currently** safe for all uses.

A copy of the VOC test report is enclosed for your records.

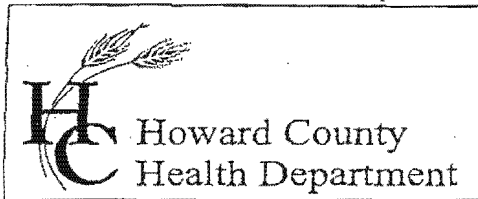
If questions should arise, you may contact Stuart Oster of the Well & Septic Program at (410) 313 - 1771 or me at (410) 313 - 1773.

Sincerely,


Bert Nixon, Assistant Director
Bureau of Environmental Health

Enclosure

cc: Lot 32 Turnbury Grove Property File



Bureau of Environmental Health
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Penny E. Borenstein, M.D., M.P.H., Health Officer

March 14, 2006

D.R. Horton
1370 Piccard Drive
Rockville, MD 20850

RE: Turnbury Grove Subdivision, Lot *34 MB*

Well Tag: HO-95-0246

To Whom It May Concern:

A sample was taken from a yield test on February 23, 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 activity in a water supply. In turn, this can provide information regarding naturally occurring radiation (i.e. Radionuclides) that may exist in your water supply.

Results from this screening revealed a **Gross Alpha** of 7.6 ± 1.0 picocuries/liter (pCi/L); while the **Gross Beta** level was 12.3 ± 1.0 pCi/L. The **Gross Alpha** result was below the maximum contaminant level (MCL) of 15 pCi/L, while the **Gross Beta** was below the MCL of 50 pCi/L.

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

Sincerely,

Bert Nixon, Assistant Director
Bureau of Environmental Health

Eric Dougherty, MDE, Water Mgmt., Groundwater
Well & Septic Property File

846 / 1000

Turnberry Grove

Send Report To:

State of Maryland

DHMH - Laboratories Administration
Division of Environmental Chemistry
RADIATION LABORATORY

45-0246

Heather Glen Way

Lot 32

Howard County Health Department
Bureau of Environmental Health
7178 Columbia Gateway Drive
Columbia, Maryland 21046

201 W. Preston Street, Baltimore, Maryland 21201

J. Mehsen Joseph, Ph.D., Director

LABORATORY ANALYSIS REQUEST

HO-GETG32223

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

Plant/Site Name: Turnberry Grove Lot 32 34^{rep} County: HOWARD

Sample Source: Well (yield test) Location: HO 95 0246
(well no., lab sink, sample tap, etc.)

County: 1 3 Plant No.

Collector: G. Creighton Telephone No.: 410 313 1773

Date Collected: 2/23/06 Time Collected: 9 a.m. _____ p.m.

Nitric Acid Preserved: Yes No Iced: Yes No

Submitters Code: Federal Project: S Field Data: 6.8 N/A
pH Chlorine

Remarks: Raw water taken at yield test

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Reported
✓	Gross Alpha	4000	602096-003-003	7.6 ± 1.0	2/27/06
✓	Gross Beta	4100		12.3 ± 1.0	
	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: _____

Bob Corbett

From: Williams, Jeffrey <jewilliams@howardcountymd.gov>
 Sent: Thursday, October 03, 2013 11:54 AM
 To: Bob Corbett
 Subject: Preserve at Clarksville radium results

Follow Up Flag: Follow up
 Flag Status: Flagged

Handwritten notes:
 #31 is needed
 PP-A, 5, 14, 15
 18, 20, 27, 29
 33, 34

Below is the data from our spreadsheet. Looks like a few lots are missing. Note that our action levels are 15 (including the DOE or Degree of Error) for Alpha and 50 for Beta. None of the Beta levels are high, but the alpha levels are elevated at lots 6,8,15,17,18,20,23,24,26,27.

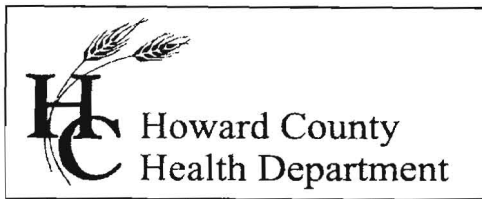
Well drilled / Sampled / Reported as

Owner		Lot	Received Plat #	Sample date	Gross Alpha	Alpha DOE	Gross Beta	Beta DOE
D.R. Horton	Turnberry Grove	8	9	3/28/2006	13.7	1.3	10.6	0.9
D.R. Horton	Turnberry Grove	9	10	3/29/2006	11.3	0.8	11.7	0.6
D.R. Horton	Turnberry Grove	10	11	3/14/2006	9.5	1.1	5.8	0.9
D.R. Horton	Turnberry Grove	12	13	3/9/2006	8.8	1	11.7	1
D.R. Horton	Turnberry Grove	13	14	3/8/2006	7.8	1	11.6	1
D.R. Horton	Turnberry Grove	14	15	4/4/2006	3.5	0.4	4.9	0.5
D.R. Horton	Turnberry Grove	16	17	3/16/2006	9.3	1	8.5	0.9
D.R. Horton	Turnberry Grove	17	18	3/21/2006	17.7	1.4	16.3	1
D.R. Horton	Turnberry Grove	* 18	19	4/24/2006	22.8	1.1	17.5	0.8
D.R. Horton	Turnberry Grove	19	20	3/31/2006	7.6	1.9	12	1.9
D.R. Horton	Turnberry Grove	20	21	4/3/2006	21.1	3	17.7	2
D.R. Horton	Turnberry Grove	21	22	3/30/2006	3.8	0.6	7.7	0.7
D.R. Horton	Turnberry Grove	22	23	3/27/2006	1.9	0.6	4.8	0.7
D.R. Horton	Turnberry Grove	28	30	3/24/2006	1.3	1	5.1	1.5
P.P. A	Turnberry Grove	PP.A	PPA	4/6/2006	-0.004	0.2	3/2	0.6
D.R. Horton	Turnbury Grove	* 15	16	3/20/2006	17.8	2.1	18.8	1.6
D.R. Horton	Turnbury Grove	23	25	3/7/2006	24.1	2.7	16.5	1.7
D.R. Horton	Turnbury Grove	2	3	2/15/2006	1.8	0.5	4.2	0.6
D.R. Horton	Turnbury Grove	3	4	2/15/2006	5	0.8	4.5	0.7
D.R. Horton	Turnbury Grove	6	7	2/21/2006	14	1.4	11.4	1
D.R. Horton	Turnbury Grove	7	8	2/22/2006	6	0.9	8	0.8
D.R. Horton	Turnbury Grove	24	26	3/6/2006	40.8	2.8	20.7	1.4
D.R. Horton	Turnbury Grove	26	28	3/2/2006	36.8	6.8	14.4	1.1
D.R. Horton	Turnbury Grove	* 27	29	3/1/2006	15.7	1.3	12.3	0.9
D.R. Horton	Turnbury Grove	30	32	2/28/2006	3.1	1.2	4.7	1.3
D.R. Horton	Turnbury Grove	31	33	2/27/2006	6	1.4	7	1.4
D.R. Horton	Turnbury Grove	32	34	2/23/2006	7.6	1	12.3	1

Handwritten notes:
 Lot # 29 29 3/20/14 2.25 5.69
 AS RECORDED * 5 5 3/20/14 21.10 15.71

Jeff Williams
 Program Supervisor, Well & Septic Program
 Bureau of Environmental Health
 Howard County Health Dept.
 410-313-4261

* LOT REQUIRES CARBON FILTER SYSTEM
 LOTS 5 + 29 NOT TESTED.



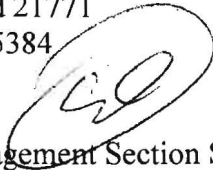
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website: www.hchealth.org

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

February 8, 2006


MEMORANDUM

TO: Joseph L. Mayne Well Drilling
5512 Ridge Road
Mt. Airy, Maryland 21771
Faxed to 301-829-5384

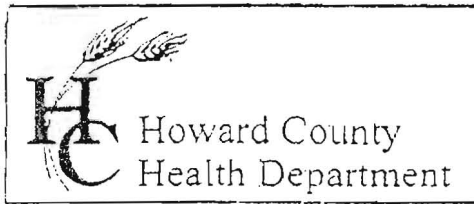
FROM: Stuart Oster, R.S. 
Groundwater Management Section Supervisor
Well and Septic Program

RE: File Number: P-05-013
Title: Turnbery Grove

The Health Department requires that all the wells in this subdivision be tested for radium and V.O.C.'s (Volatile Organic Contaminants). The optimum time to sample would be when the yield test is being completed. When contacting this office about the yield test, please mention that these water test need to be collected. Also, attached is a letter dated November 21, 2005 from Bert Nixon further explaining the radium testing.

RADIUM & VOC sampled 2/23/06 

Cc: D. R. Horton, Inc.
File



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

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

TO ALL INTERESTED PARTIES

When submitting a well permit application for a proposed well for new construction, please indicate one of the following:

- The well site has been staked by Benchmark Engineering
(professional land surveyor or company employing professional land surveyors)
on 12-14-05 (date) and does not require a site inspection.
- The well driller, builder or property owner will call the Health Department to schedule a time to meet in the field to verify the proposed well site location.

This sheet, along with two copies of an acceptable well site plan, must be attached to the green well permit application.

Revised 6/10/03

*33 Lots for D. R. Horton
Surnbury Grove*