

C1 7004 SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND  
WELL COMPLETION REPORT  
FILL IN THIS FORM COMPLETELY  
PLEASE TYPETHIS REPORT MUST BE SUBMITTED WITHIN  
45 DAYS AFTER WELL IS COMPLETED.1 2 3 6  
(THIS NUMBER IS TO BE PUNCHED  
IN COLS. 3-6 ON ALL CARDS)COUNTY  
NUMBER (13) A518599

ST/CO USE ONLY

DATE Received

MM DD YY  
8 13

DATE WELL COMPLETED

MM DD YY  
3 26 07

Depth of Well

22 100 26  
(TO NEAREST FOOT)PERMIT NO.  
FROM "PERMIT TO DRILL WELL"

4/11/07 HO-95-0728

OWNER Peddicord David  
STREET OR RFD Sheppard Manor Drive TOWN Ellicott City  
SUBDIVISION Sheppard Manor SECTION LOT

## WELL LOG

Not required for driven wells

## GROUTING RECORD

yes no  
Y N  
44 44WELL HAS BEEN GROUTED  
(Circle Appropriate Box)

TYPE OF GROUTING MATERIAL (Circle one)

CEMENT CM BENTONITE CLAY BC

NO. OF BAGS 14 NO. OF POUNDS 1316

GALLONS OF WATER 84

DEPTH OF GROUT SEAL (to nearest foot)

from 0 ft. to 44 ft.  
48 TOP 52 ft. to 54 BOTTOM 58 ft.  
(enter 0 if from surface)casing  
types  
insert  
appropriate  
code  
below  
ST STEEL CO CONCRETE  
PL PLASTIC OT OTHERMAIN CASING TYPE  
Nominal diameter top (main) casing (nearest inch) 06  
Total depth of main casing (nearest foot) 56  
60 61 63 64 66 70OTHER CASING (if used)  
diameter depth (feet)  
inch from to  
E A C H C A S I N Gscreen type or open hole  
(insert appropriate code below)  
ST STEEL BR BRASS HO OPEN HOLE  
PL PLASTIC OT OTHER

C 2 DEPTH (nearest ft.)

1 2 3  
H 0 56 100  
E 1 8 9 11 15 17 21  
A 2 23 24 26 30 32 36  
C 3 38 39 41 45 47 51  
S  
R  
E  
E  
N  
SLOT SIZE 1 2 3DIAMETER OF SCREEN (NEAREST INCH)  
56 60  
from to

GRAVEL PACK IF WELL DRILLED WAS FLOWING WELL INSERT F IN BOX 68 68

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER)  
T (E.R.O.S.) W Q70 72 74 75 76  
TELESCOPE LOG OTHER DATA  
CASING INDICATOR

C 3

1 2 PUMPING TEST

HOURS PUMPED (nearest hour) 03  
8 9PUMPING RATE (gal. per min.) 20  
11 15

METHOD USED TO MEASURE PUMPING RATE 1906.

WATER LEVEL (distance from land surface)

BEFORE PUMPING 23 ft.  
17 20WHEN PUMPING 23 ft.  
22 25

TYPE OF PUMP USED (for test)

A air P piston T turbine  
27 27 27  
C centrifugal R rotary O other (describe below)  
27 27 27  
J jet S submersible  
27 27

PUMP INSTALLED

DRILLER INSTALLED PUMP YES NO  
(CIRCLE) (YES or NO)

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 LAND SURFACE  
49  
- below 01 (nearest foot)  
49 50 51

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)

50' 210'

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED yes no  
Y NCIRCLE 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. 1 M S D 008  
DRILLERS SIGNATURE  
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 1 D

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

B 1	5821	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND <b>APPLICATION FOR PERMIT TO DRILL WELL</b> 526205 please type	STATE PERMIT NUMBER <b>HO-95-0728</b> fill in this form completely
Date Received (APA) 8 MM DD YY 13		OWNER INFORMATION		
15 Last Name		Owner		34 First Name
36 5485 Harpers Farm Rd		Street or RFD		55
57 Columbia Md 21044		Town State Zip		76
DRILLER INFORMATION				
Driller's Name		M S D 009		81 License No.
Firm Name		Fogles Well Drilling		
Address		580 Obrecht Rd		
Signature		Date		
B 2		WELL INFORMATION		
1 2		APPROX. PUMPING RATE		
		5 GAL. PER MIN.		
AVERAGE DAILY QUANTITY NEEDED		500 GAL. PER DAY		
14		20		
USE FOR WATER (CIRCLE APPROPRIATE BOX)				
<input checked="" type="checkbox"/> DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION <input type="checkbox"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) <input type="checkbox"/> INDUSTRIAL, COMMERCIAL, DEWATERING <input type="checkbox"/> PUBLIC WATER SUPPLY WELL <input type="checkbox"/> TEST, OBSERVATION, MONITORING <input type="checkbox"/> GEO-THERMAL				
NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL				
COUNTY NAME <u>Howard</u> COUNTY NO. <u>13</u> STATE SIGNATURE <u>Brian Baber</u> INSERT S → DATE ISSUED <u>2/28/2007</u> EXP. DATE <u>2/28/2008</u> 43 MM DD YY 48 CO SIGNATURE EAST GRID 515 000 818 000 NORTH GRID 50 55 57 63				
APPROXIMATE DEPTH OF WELL		300 FEET		
APPROXIMATE DIAMETER OF WELL		6 INCH		
METHOD OF DRILLING (circle one)				
BORED (or Augered)		JETTED		Jettied & DRIVEN
30 AIR-ROTARY		AIR-PERCussion		ROTARY (Hydraulic Rotary)
37 CABLE		REVERSE-ROTARY		DRIVE-POINT
other				
REPLACEMENT OR DEEPEINED WELLS (CIRCLE APPROPRIATE BOX)				
<input checked="" type="checkbox"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED <input type="checkbox"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS <input type="checkbox"/> THIS WELL WILL DEEPEN AN EXISTING WELL				
PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEINED (IF AVAILABLE) 41 _____ 52				
Not to be filled in by driller (MDE OR COUNTY USE ONLY)				
APPROP. PERMIT NUMBER <u>HO2005G007</u>				
PERMIT No. <u>HO-95-0728</u>				
SPECIAL CONDITIONS				
Wells Must Be Drilled Per Approved Shared Septic Plan Health Dept. Must Collect Water Sample During Yield Test				



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 #: 443-609-4195  
Address: P.O. Box 202  
Woodbine, Md 20797

(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: Williamsburg Green Telephone #: 410-977-3345  
Subdivision: Sheppard Manor Lot #: 6 Well Tag #: HO-95-0728  
Site Address: 4633 Sheppard Manor Dr  
Ellicott City, Md. 21042

Submersible Pump Data

Make: Grundfos  
Model #: 1550807-130  
Pump Capacity 15 GPM  
Well Yield: 20 GPM

Pitless Adapter

Make: Campbell  
Model#: N14  
Depth: 36 (36" min)  
NSF approved: yes

Well Cap and Electric Conduit

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

Depth of well encountered at time of pump installation: 100 (feet)

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 N/A

Piping to house

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

House Connection

PVC sleeved to undisturbed soil at wall penetration: yes  
Approximate length of sleeve: 5'  
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.

Signature of company representative responsible for installation: Allen Compton

date: 1/19/11

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

Date Insp. Requested: \_\_\_\_\_ Date Insp. Approved: 1/6/2010 (KW)  
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 3" above finished grade ✓  
Water supply line sleeved adequately at house connection ✓  
Adequate grout observed below pitless adapter ✓

# NON-BUILDABLE PRESERVATION PARCEL 'A'

Area (This Sheet): 2,1417 ac.±  
Total Area: 5,106 ac.±  
Privately Owned and Maintained  
Easement Holders:  
HOA and  
Howard County

Drill Well In This  
Part of Box

DD COURT  
3RL

3 PARCEL 268

T 5  
75sf±

LOT 6  
33,075sf±

LOT 7  
53,532sf±

20' Private Drainage  
and Utility Easement

FF: 411.10  
B: 401.10

FF: 435.00  
B: 425.00

20'x20' Public Sewer  
and Utility Easement  
50' BRL

10' Public Tree  
Maintenance  
Easement  
50' BRL

ARD  
DRIVE  
(PLACE)

Public Sewer  
Easement

D A-2

20' Public Sewer  
Utility Easement  
50' BRL

20'x20' Public Sewer  
and Utility Easement

50' BRL

50' BRL

Public Tree  
Maintenance  
Easement  
50'

399.00

FF: 409.00  
B: 399.00

FF: 426.00  
B: 416.00

FF:  
B:

2/28/07  
Drill site study  
by FSH

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 FSH Associates  
on 1-26-07 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



Howard County  
Health Department

Bureau of Environmental Health  
7178 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](http://www.hchealth.org)

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

July 19, 2011

Homeowner  
4623 Sheppard Manor Drive  
Ellicott City, MD 21042

RE: Sheppard Manor, Lot 6  
4623 Sheppard Manor Drive  
BP #: B08001999  
Well Tag: HO-95-0728

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 07/06/2011. Final approval of the well line connection to the dwelling was approved on 01/06/2010.**

The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking. The water sample results were found to be in compliance with COMAR water quality standards.

Gross Alpha and Beta samples were also collected on 03/26/2007. Results showed a Gross Alpha level of **0.6 +/- 0.5 pCi/L** and **Gross Beta** level of **3.9 +/- 1.0 pCi/L**. The **Gross Alpha** was below the maximum contaminant level (MCL) of 15 pCi/L, while the Gross Beta was below the MCL of 50pCi/L. Future well water supply appears safe for all uses.

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

#### **INTERIM CERTIFICATE OF POTABILITY**

This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit #HO-95-0728. 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: 06/28/2011  
Date of Radium Samples: 03/26/2007  
Date of Well Completion: 03/26/2007

Approving Authority,

A handwritten signature in cursive script that reads "Brian Baker".

Brian Baker, R.S.  
Environmental Sanitarian  
Well & Septic Program

cc: Building Inspector's Office  
Community Hygiene Program  
File

# FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1415 Old Taneywood Rd., Westminster, MD 21157-4415    (410) 848-1115    (410) 876-4455    FAX: (410) 876-4455

## REPORT OF ANALYSIS

Laboratory ID #: 80154	Account #: 4470
Reference: Sheppard Manor Lot 6	Company: Williamsburg Group LLC
Location: 4623 Sheppard Manor Drive	Requested By: Chip Lundy/ Bob Corbett
Ellicott City, MD 21042	Source: Well Water
Date/ Time Collected: 6/28/2011 1235	Site: Pressure Tank
Date/Time Rec'd: 6/28/2011 1400	Treatment: None
Chlorine ppm: Free: ND Total: ND	pH: 6.8
Collected By: B. Dutterer 4717BD	Well #: HO-95-0728

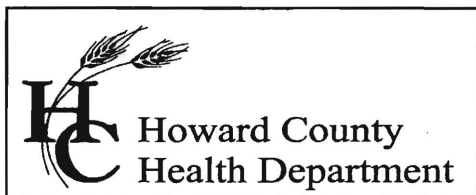
PARAMETERS	RES.	UNITS	REFERENCE	METHOD	DATE
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	6/29/2011 / 0930 / KME
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	6/29/2011 / 0930 / KME
Nitrate	3.65	mg/L	10	601	6/29/2011 / 1600 / CCH
Turbidity	3.76	NTU	<10	SM18 2130B	6/29/2011 / 1000 / KME
Sand	NS	mg/L	5	Visual/Gravimetric	6/29/2011 / 1010 / KME

### 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 tested on-site

Reason for Test : Use & Occupancy  
 Building Permit # : B08001999

Date Reported: 6/29/2011



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](http://www.hchealth.org)

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

May 4, 2007

Williamsburg Group LLC  
5485 Harpers Farm Road  
Columbia, Maryland 21044

RE: Sheppard Manor, Lot 6  
Well Tag: HO-95-0728

To Whom it May Concern::

A sample was collected from a yield test on March 26, 2007 and submitted to GPL Laboratories to assess the possible presence of **Gross Alpha** and **Gross Beta** in the future well water supply. **Gross Alpha** and **Gross Beta** measure the total alpha and beta particle activity in a water supply. In turn, this can provide information regarding naturally occurring radiation (i.e., Radionuclides) that may exist in your area of development within the County.

Results from this screening revealed a **Gross Alpha** of  $0.6 \pm 0.5$  picocuries/liter (pCi/L); while the **Gross Beta** level was  $3.9 \pm 1.0$  pCi/L. The **Gross Alpha** result was below its **maximum contaminant level (MCL)** of 15 pCi/L, while the **Gross Beta** level was below its target value of 50 pCi/L (roughly equivalent to the **annual dose rate** of 4 millirems/year).

At the time of testing and with respect to these parameters, the future well water supply appears safe for all uses. No additional testing for these parameters will be required to secure the future Use & Occupancy. However, other standard (potability) testing will still be necessary.

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

Sincerely,

Bert Nixon, Deputy Director  
Bureau of Environmental Health

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

Send Report To: \_\_\_\_\_

State of Maryland

DHMH - Laboratories Administration

Division of Environmental Chemistry

**RADIATION LABORATORY**

201 W. Preston Street, Baltimore, Maryland 21201

*John M. DeBoy, Dr. P.H., Director*

**LABORATORY ANALYSIS REQUEST**

*SM6BB950728*

Sample Bottle No. A: \_\_\_\_\_ No. B: \_\_\_\_\_ Field Blank Bottle No. A: \_\_\_\_\_ No. B: \_\_\_\_\_

Plant/Site Name: *Sheppard Manor - Lot 6* County: \_\_\_\_\_

Sample Source: *Sheppard Manor Drive* Location: *H0-95-0728*  
(well no., lab sink, sample tap, etc.)

County: ☐ ☐ Plant No. ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐

CHECK (one per box)

Drinking Water ☒  
Landfill ☐  
Stream ☐  
Other ☐

Community ☐  
Non-community ☐  
Private ☒  
Other ☐

Source (raw water) ☒  
Distribution (treated) ☐  
MCL ☐

Emergency ☐  
Routine ☒  
Recheck ☐  
Special ☐

Collector: *Brian Baker*

Telephone No: *x2643*

Date Collected: *3 / 26 / 2007*

Time Collected: \_\_\_\_\_ a.m. *2:00* p.m.

Nitric Acid Preserved: Yes ☒ No ☐

Iced: Yes ☐ No ☒

Submitters Code: ☐ ☐ Federal Project: ☐ Field Data: \_\_\_\_\_

Remarks: *Sample Collected During Yield Test* pH \_\_\_\_\_ Chlorine \_\_\_\_\_

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Reported
✓	Gross Alpha	4000	<i>703208-001</i>	<i>0.6 ± 0.5</i>	<i>4/2/07</i>
✓	Gross Beta	4100		<i>3.9 ± 10</i>	
	Radon-222 Bottle A	4004			
	Radon-222 Bottle B	4004			
	Field Blank A	4004			
	Field Blank B	4004			
	Tritium				
	Ra - 226	4020			
	Ra - 228	4030			
	Total Uranium	4006			

Date Received: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

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