

C 1 08176

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

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

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

FILL IN THIS FORM COMPLETELY PLEASE TYPE

COUNTY 4520 385 NUMBER 4520 448

ST/CO USE ONLY DATE Received MM 07 DD 28 YY 12

DATE WELL COMPLETED MM 07 DD 20 YY 12

Depth of Well 22 85 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" HO 95-2350

OWNER Land Marketing Consultants last name first name TOWN CLARKSVILLE MD. WELL SITE ADDRESS HAYLAND CT. SUBDIVISION WALNUT CREEK SECTION LOT 60

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. Rows include Top Soil, Clay, Sand Stone, White MCKA, Sand Stone.

GROUTING RECORD

WELL HAS BEEN GROUTED (Y/N) TYPE OF GROUTING MATERIAL (Cement, Bentonite Clay) NO. OF BAGS, NO. OF POUNDS, GALLONS OF WATER, DEPTH OF GROUT SEAL

CASING RECORD

MAIN CASING TYPE (PL), Nominal diameter top (main) casing (6), Total depth of main casing (45)

OTHER CASING (if used)

Table for OTHER CASING with columns: diameter inch, depth (feet) from, to.

SCREEN RECORD

screen type or open hole (HO), insert appropriate code below (STEEL, BRASS, BRONZE, PLASTIC, OPEN HOLE, OTHER)

C 2

DEPTH (nearest ft.)

Table for DEPTH with columns: 1-11, 15-17, 21, 23-24, 26, 30-32, 36, 38-39, 41, 45-47, 51. Includes SLOT SIZE and DIAMETER OF SCREEN.

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

MDE USE ONLY (NOT TO BE FILLED IN BY DRILLER) T (E.R.O.S.) W Q

TELESCOPE CASING LOG INDICATOR OTHER DATA

C 3

PUMPING TEST

HOURS PUMPED (nearest hour) 3, PUMPING RATE (gal. per min.) 15, METHOD USED TO MEASURE PUMPING RATE Bucket, WATER LEVEL (distance from land surface) BEFORE PUMPING 23 ft, WHEN PUMPING 24 ft, TYPE OF PUMP USED (for test) submersible

PUMP INSTALLED

DRILLER INSTALLED PUMP (CIRCLE) YES (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 49, LAND SURFACE (circle appropriate box and enter casing height) (-) below 2 (nearest foot)

LATITUDE 39.14.236 LONGITUDE 76.56.641 (DEFAULT COORD. WGS 84) NOTES:

B 1 **14942**

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

H0 - 95 - 2370

fill in this form completely

538055-K please type

Date Received (APA) **09-07-12**

OWNER INFORMATION

Land Marketing Consultants
Last Name Owner First Name
PO Box 482
Street or RFD
Lis Bow MD 21265
Town State Zip

B 3 LOCATION OF WELL

Howard
COUNTY
Walnut Creek
SUBDIVISION
SECTION **60** LOT
CLARKSVILLE MD
NEAREST TOWN

DRILLER INFORMATION

RALPH MAYNE MS D 112
Driller's Name License No.
Ralph Mayne Well Drilling
Firm Name
17024 Handy Rd. Mt. Airy MD 21771
Address
Ralph Mayne 4/14/12
Signature Date

B 4 SOURCES OF DRILLING WATER

HAYLAND CT
STREET ADDRESS
ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)
DISTANCE FROM ROAD
ENTER FT OR MI
TAX MAP: **28** BLK: **11** PARCEL **49**

B 2 WELL INFORMATION

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

NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL

Howard **A520385** **13**
COUNTY NAME COUNTY NO.
STATE SIGNATURE INSERT S
DATE ISSUED **09/10/2012** **hlt** **9/10/13**
CO SIGNATURE EXP. DATE

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
- OPEN LOOP GEOTHERMAL
- CLOSED LOOP GEOTHERMAL

APPROXIMATE DEPTH OF WELL **150** FEET

APPROXIMATE DIAMETER OF WELL **6"** NEAREST INCH

METHOD OF DRILLING (circle one)

- BORED (or Augered) JETTED Jetted & DRIVEN
- AIR-ROTARY AIR-PERCussion ROTARY (Hydraulic Rotary)
- CABLE REVerse-ROTary Drive-POINT

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)

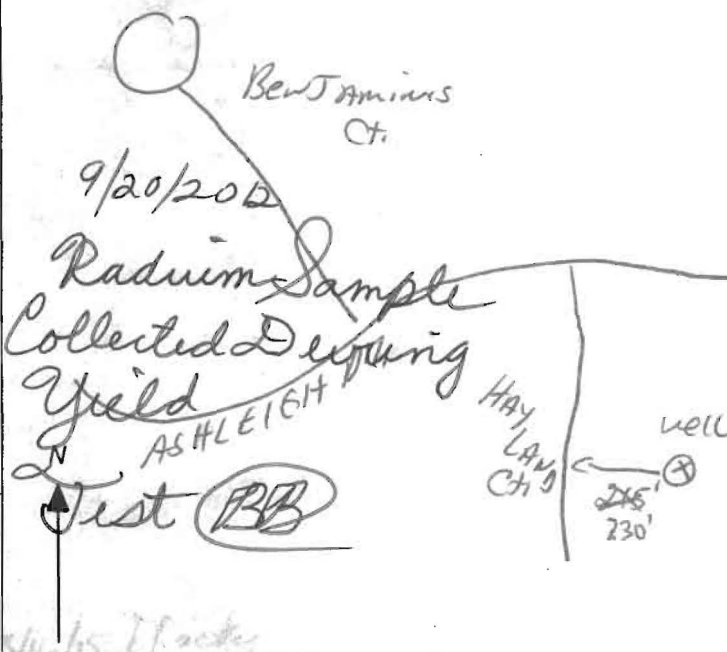
- THIS WELL WILL NOT REPLACE AN EXISTING WELL
- THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED
- THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS
- THIS WELL WILL DEEPEM AN EXISTING WELL

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

APPROP. PERMIT NUMBER **H0 2006 G020**

PERMIT No. **H0 - 95 - 2370**

PROPOSED LOCATION OF WELL ON LOT SHOW PERMANENT STRUCTURES SUCH AS BUILDINGS, SEPTIC SYSTEM, ROADS AND/OR LANDMARKS AND INDICATE NOT LESS THAN TWO DISTANCE MEASUREMENTS TO WELL



SPECIAL CONDITIONS

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED

Radium sample required at yield test/all wells must be at least 100' apart.

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: Tri County Pump Service, Inc Telephone #: 301-432-0330
Address: 6711 Old National Pike
Baltimore Md 21113

(Must circle one) Licensed Plumber Licensed Well Driller Licensed Well Pump Installer

License # and name of individual responsible for the field installation:
Name (Print): William E. Griffith License# 20135

*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: Craftmark Homes Telephone #: 703-932-0573
Subdivision: Walnut Creek Lot #: 00 Well Tag #: HO-95-2370
Site Address: 5007 Crane Myrtle Ct
Ellicott City Md 21042

Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit
Make: Slaby Make: Ameron Granby Two piece watertight cap: ye
Model #: S7P4HS0521-01 Model#: P1609 Screened, vented well cap: ye
Pump Capacity 7 GPM Depth: 36 (36" min) Cap secured to casing: ye
Well Yield: 20 GPM NSF/WSC approved: ye Conduit min 18" B.G.: ye
Depth of well encountered at time of pump installation: 80 (feet) Conduit secured to well cap: ye
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

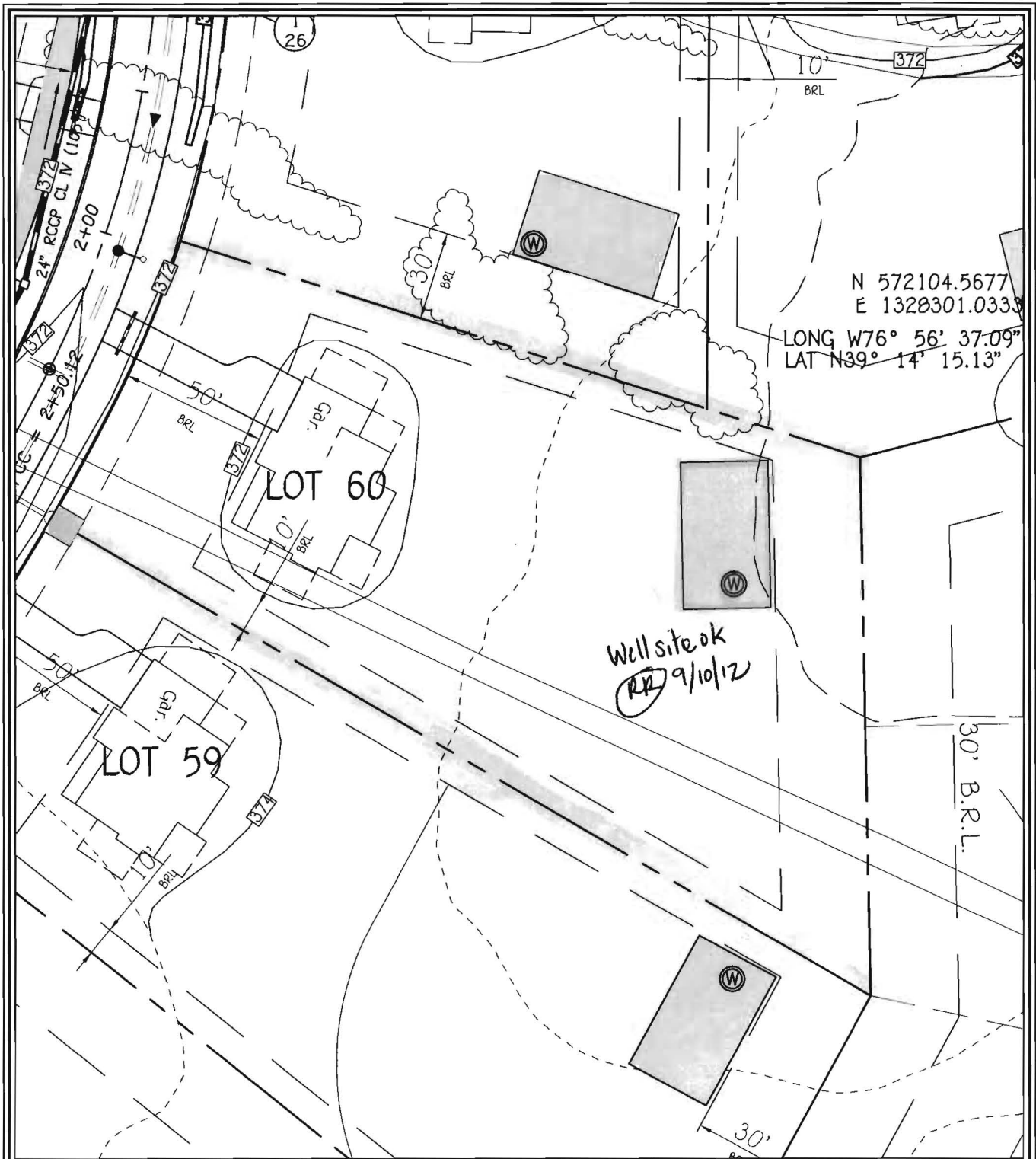
Piping to house House Connection
Type: Poly PVC sleeve to undisturbed soil at wall penetration: ye
PSI: 200 (160 psi min) Length of sleeve(5' minimum from foundation): 20ft
Depth of supply line: 36" (36" min) Sleeve sealed properly: ye

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: William E. Griffith date: May 26 2015

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

Date Insp. Requested: 5/27/15 Date Insp. Approved: 5/27/15 Inspector: SC
Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade
Two piece cap installed and attached to casing securely
Elec. conduit extends at least 18" below grade/attached to cap properly
Safety rope not outside of well cap/casing
Correct well tag attached properly and casing 8" above finished grade
Water supply line sleeved adequately at house connection
Adequate grout observed below pitless adapter



N 572104.5677
 E 1320301.0333
 LONG W76° 56' 37.09"
 LAT N39° 14' 15.13"

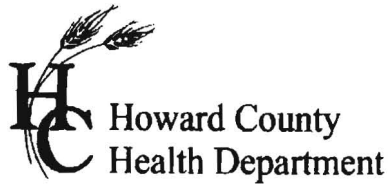
Well site ok
 RR 9/10/12

WELL LOCATION INFORMATION:
 NORTHING = 572,008.19 EASTING = 1,320,198.23
 LATITUDE = N39°14'14" LONGITUDE = W76°56'38"

**LOT 60 WELL MAP
 WALNUT CREEK
 PHASE TWO**

Lots 23 - 60, Non-Buildable Preservation Parcels
 'C', 'G', 'T', 'K', 'L' And 'M', Buildable Bulk Parcels 'E' And 'H'
 & Non-Buildable Parcel 'J'
 ZONED: RC-DEO & RR-DEO
 TAX MAP No. 28 GRID Nos. 4, 5, 10-12, 17, AND 18 PARCEL No. 49
 FIFTH ELECTION DISTRICT HOWARD COUNTY, MARYLAND
 DATE: AUGUST 30, 2012 SCALE: 1"=50'

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



7178 Columbia Gateway Dr., Columbia, MD 21046
(410) 313-2640 Fax (410) 313-2648
TDD (410) 313-2323 Toll Free 1-866-313-6300
website: www.hchealth.org

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

TO ALL INTERESTED PARTIES

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

Well Site Location:

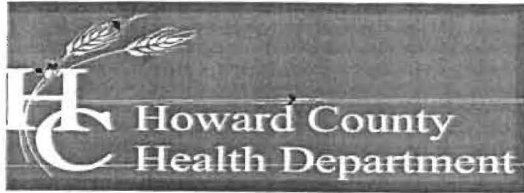
Walnut Creek	60	Hayland Court
<u>Subdivision/Property Name</u>	<u>Lot #</u>	<u>Road Name</u>

The well site has been staked by Fisher, Collins, and Carter, Inc.,
(professional land surveyor or company employing professional land surveyors)
on 04/22/12 (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 3/11/07



Bureau of Environmental Health

7178 Columbia Gateway Drive, Columbia, MD 21046-2147

Main: 410-313-2640 | Fax: 410-313-2648

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

www.hchealth.org

Facebook: www.facebook.com/hocohealth

Maura Rossman, M.D., Acting Health Officer

December 21, 2012

Bassler Venture
Attn. Tim Feaga
15950 North Avenue, P.O. Box 482
Lisbon, Maryland 21765

RE: Walnut Creek Lot 60
Hayland Court
Well Tag: HO - 95 - 2370

Dear Mr. Feaga:

A sample was collected during a yield test on September 20, 2012 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 screening revealed a **Gross Alpha** of 2.2 ± 1.6 picocuries/liter (pCi/L), while the **Gross Beta** level was 4.7 ± 2.0 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 targeted value of 50 pCi/L (roughly equivalent to the **annual dose rate** of 4 millirems/year).

At the time of testing and with respect to these parameters, the future well water supply meets EPA regulatory standards. Additional testing **for these parameters** will not be required to secure the future Use & Occupancy. **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.

Sincerely,

A handwritten signature in black ink that reads 'Bert Nixon'.

Bert Nixon, Director

Bureau of Environmental Health

Enclosure

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

Send Report To: Bert Nixon
Howard Co. Env. Health
7178 Columbia Gateway Dr.
Columbia, MD 21046

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

E000626 25

LABORATORY ANALYSIS REQUEST

Sample Bottle No. A: 952370BB No. B: _____ Field Blank Bottle No. 1: 2370A No B: _____
 Plant/Site Name: Walnut Creek - Lot 60 County: Howard
 Sample Source: Hayland Ct. Location: HO-95-2370
 (well no, lab sink, sample tap, etc.)

County: 1 3 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: B. Baker Telephone No.: (410) 313-2643
 Date Collected: 9/20/2012 Time Collected: 11:15 a.m. _____ p.m.
 Nitric Acid Preserved: Yes No Iced: Yes No
 Submitters Code: Federal Project: Field Data: _____ pH _____ Chlorine _____

Remarks: Sample Collected During Yield Test

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Analyzed	Date Reported
✓	Gross Alpha	4000	0626	2.2 ± 1.6	09/26/12	09/27/12
✓	Gross Beta	4100	0626	4.7 ± 2.0	"	"
	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: 09/25/12

Supervisor: [Signature]

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

Send Report To: Bert Nixon
Howard Co. Env. Health
778 Columbia Gateway Dr.
Columbia, MD 21046

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

Field
Blank

LABORATORY ANALYSIS REQUEST

Sample Bottle No. A: 952370BB No. B: _____ Field Blank Bottle No. 1: 2370A No B: _____

Plant/Site Name: Walnut Creek - Lot 60 County: Howard

Sample Source: Hayland Ct. Location: HO-95-2370
(well no, lab sink, sample tap, etc.)

County: 1 3 Plant No.

CHECK (one per box)

Drinking Water <input checked="" type="checkbox"/> Landfill <input type="checkbox"/> Stream <input type="checkbox"/> Other <input type="checkbox"/>	Community <input type="checkbox"/> Non-community <input type="checkbox"/> Private <input checked="" type="checkbox"/> Other <input type="checkbox"/>	Source (raw water) <input checked="" type="checkbox"/> Distribution (treated) <input type="checkbox"/> MCL <input type="checkbox"/>	Emergency <input type="checkbox"/> Routine <input checked="" type="checkbox"/> Recheck <input type="checkbox"/> Special <input type="checkbox"/>
--	---	---	---

Collector: B. Baker

Telephone No.: (410) 313-2643

Date Collected: 9/20/2012
cent

Time Collected: 11:15 a.m. _____ p.m.

Nitric Acid Preserved: Yes No

Iced: Yes No

Submitters Code: Federal Project:

Field Data: _____
pH Chlorine

Remarks: Field Blank

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Analyzed	Date Reported
✓	Gross Alpha	4000	<u>0625</u>	<u>< 2.0</u>	<u>09/26/12</u>	<u>09/27/12</u>
✓	Gross Beta	4100	<u>0625</u>	<u>< 4.0</u>	"	"
	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: 09/25/12

Supervisor: *[Signature]* Shulis E Baker

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



Fredericktowne Labs Inc.

ENVIRONMENTAL TESTING

3020 Venture Court • P.O. BOX 249 • Myersville, MD 21773 • 800-332-3340 • FAX 301-293-2366
 www.fredericktownelabs.com • info@fredericktownelabs.com

Certificate of Analysis

Acct. No. 3948 - 1333-1

Field Record

Site visit performed on: Monday, July 20, 2015 10:50 AM
 by: Jeremy Merrell State ID No. 3701JM
 Affiliation: Tri-County Pump Service
 Property Owner: Residence
 Project: Lot 60
 Property Address: 5007 Grape Myrtle Court
 Ellicott City, MD 21042
 Sample Source: Pressure Tank
 Treatment Devices Noted: No Treatment Devices ✓
 Well No.: HO-95-2370
 Field pH: 7.5
 Total Res. Cl.: 0.0 mg/l

Laboratory Report

Sample Received at laboratory: 7/20/2015 3:17 PM

Bacteriological results:

Total Colif. (/100ml)	E.coli. (/100ml)	Start		End		Method	Analyst
		Date	Time	Date	Time		
<1	<1	07/20/15	16:01	07/21/15	16:02	9223B	JD

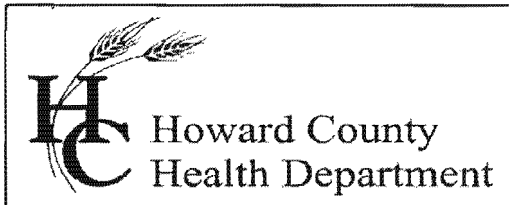
Bacteriological analysis of this sample indicates the water is safe for human consumption and meets federal, state and local requirements. Analysis was performed according to the 20th edition of Standard Methods

Inorganic Chemical results:

Parameter	Result	Units	MCL	Date of Analysis	Method	Analyst
Nitrate-Nitrogen ✓	3.7	mg/l	10	7/20/2015	300.0	JD
Sand ✓	<2	mg/l	5	7/22/2015	0.065mm Filter	JD
Turbidity ✓	1.2	NTU	10	7/20/2015	180.1	KMW

Reported by: Kelly Hoffman 7/28/15
 Name Date

Fredericktowne Labs, Inc. is a State Certified Water Quality Laboratory
 Maryland Cert. No. 116 Virginia Cert. No. 00444
 MDOT WBE Cert. No.: 91-158



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 – JANUARY 30, 2016

July 30, 2015

Homeowner
5007 Crape Myrtle Court
Ellicott City, MD 21042

**RE: Walnut Creek, Lot 60
5007 Crape Myrtle Court
Building Permit: B15000659
Well Permit: HO-95-2370**

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 **7/30/2015**. Final approval of the well line connection to the dwelling was granted on **5/27/2015**. The well construction was completed on **9/20/2012**. Water samples were collected on **7/20/2015**.

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.

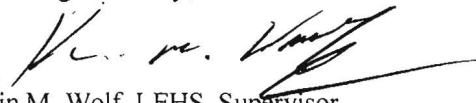
Gross Alpha and Beta samples were also collected on **9/20/2012**. Results showed a Gross Alpha level of **2.2 ± 1.6 pCi/L** and **Gross Beta** level of **4.7 ± 2.0 pCi/L**. The Gross Alpha was below the maximum contaminant level (MCL) of 15 pCi/L and the Gross Beta was below the target level of 50pCi/L (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-95-2370. 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,



Kevin M. Wolf, LEHS, Supervisor
Groundwater Mgmt. Sec.
Well & Septic Program

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