

C1 08167

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND WELL COMPLETION REPORT

THIS 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)

ST/CO USE ONLY DATE Received

DATE WELL COMPLETED

Depth of Well 22 240 26

PERMIT NO. FROM "PERMIT TO DRILL WELL" 10/11/2012 Ho-95-2374

OWNER Land Marketing Consultants WELL SITE ADDRESS Benjamin Ct TOWN Clarksville SUBDIVISION Walnut Creek SECTION LOT 43

WELL LOG table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Clay, Sand, and Mica Rock.

GROUTING RECORD form with fields for material (CM, BC), bags (16), gallons (96), and depth (73 ft).

CASING RECORD form with fields for main casing type (ST), diameter (6 inch), and depth (80 feet).

OTHER CASING (if used) form with fields for diameter and depth.

SCREEN RECORD form with fields for screen type (ST, BR, PL), diameter (60 inch), and depth (78 feet).

PUMPING TEST form with fields for hours pumped (3), rate (20 gal/min), and pump type (S - submersible).

PUMP INSTALLED form with fields for pump type (S), capacity (29 gpm), and pump specifications.

WELL HYDROFRACTURED form with fields for status (Y) and reasons (A, E, P).

DEPTH (nearest ft.) form with a grid for depth measurements from 1 to 51 feet.

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN ACCORDANCE WITH COMAR 26.04.04...

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

DRILLERS LIC. NO. 1 MSD 117 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION)

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

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

TELESCOPE CASING LOG INDICATOR OTHER DATA

LATITUDE 39.1419 LONGITUDE 76.5657 (DEFAULT COORD. WGS 84)

NOTES:

B 1 14925

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL please type 538055-A

STATE PERMIT NUMBER Ho - 95 - 2374 fill in this form completely

Date Received (APA) 09/04/12 OWNER INFORMATION Land Marketing Consultants PO Box 482 Lisbon MD 21765

B 3 LOCATION OF WELL Howard WALNUT CREEK 23 SUBDIVISION CLARKSVILLE MD 52 NEAREST TOWN

DRILLER INFORMATION RAULH MAYNE M SD 119 Raulh Mayne Well Drilling 17024 Handy Rd. Mt. Airy MD 21771

B 4 SOURCES OF DRILLING WATER 1. well BENJAMINS CT 11 STREET ADDRESS 30 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

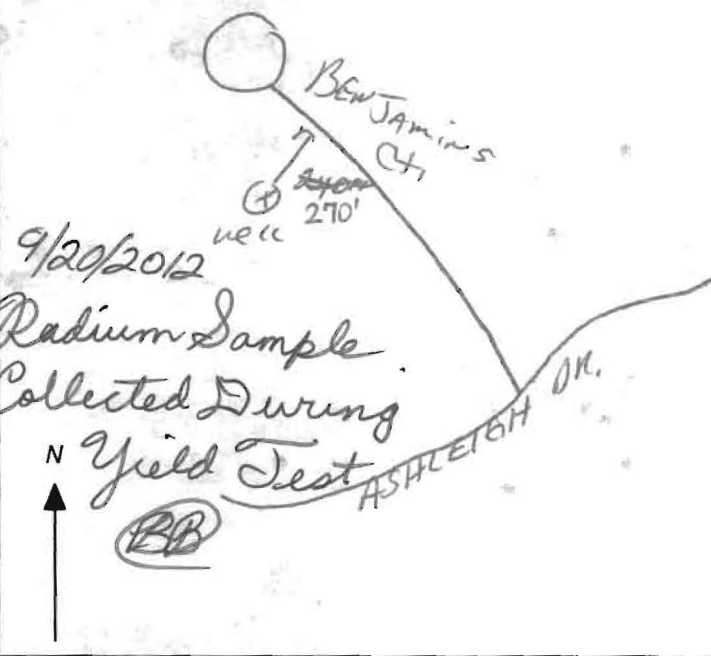
NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL Howard A520385 A520448 13 COUNTY NAME COUNTY NO. STATE SIGNATURE INSERT S DATE ISSUED 09/12/2012 CO SIGNATURE EXP DATE 9/12/13

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 O OPEN LOOP GEOTHERMAL C CLOSED LOOP GEOTHERMAL

APPROXIMATE DEPTH OF WELL 150 FEET APPROXIMATE DIAMETER OF WELL 6" NEAREST INCH

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

METHOD OF DRILLING (circle one) BORED (or Augered) JETTED Jettied & 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 DEEPEAN 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 HO 2006G020 PERMIT No. HO - 95 - 2374

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

FIELD DATA SHEET
HOWARD COUNTY WELL YIELD TEST

Well Permit No. HO - 95-2374
 Location of property (road) Benjamin Ct
 Subdivision Walnut Creek Lot 43 Block _____ Plat _____ Sec. _____
 Well Driller Joseph Maxine Owner Land Marketing Consultants

Depth of well 240
 Distance of measuring point (M.P.) above ground 2
 Static water level (S.W.L.) below M.P. 21

I. High rate pumping -- reservoir drawdown

Time pump started 10:15 Pumping rate 20 gpm
 Total time 15 mins to reach pumping water level 23 ft. below M.P.

II. Recovery pump test data - observations to be recorded every 15 minutes

TIME (in 15 minute intervals)	WATER LEVEL below M.P.	PUMPING RATE time to fill <u>5</u> gallon bucket	FLOW METER READING (if used)	CALCULATED FLOW (gallons per minute)
<u>10:30</u>	<u>23'</u>	<u>3 sec</u>	<u>N/A</u>	<u>20 gpm</u>
<u>10:45</u>	<u>23</u>	<u>3</u>		<u>20</u>
<u>11:00</u>	<u>23</u>	<u>3</u>		<u>20</u>
<u>11:15</u>	<u>23</u>	<u>3</u>		<u>20</u>
<u>11:30</u>	<u>23</u>	<u>3</u>		<u>20</u>
<u>11:45</u>	<u>23</u>	<u>3</u>		<u>20</u>
<u>12:00</u>	<u>23</u>	<u>3</u>		<u>20</u>
<u>12:15</u>	<u>23</u>	<u>3</u>		<u>20</u>
<u>12:30</u>	<u>23</u>	<u>3</u>		<u>20</u>
<u>12:45</u>	<u>23</u>	<u>3</u>		<u>20</u>
<u>1:00</u>	<u>23</u>	<u>3</u>		<u>20</u>
<u>1:15</u>	<u>23</u>	<u>3</u>		<u>20</u>
<u>1:30</u>	<u>23</u>	<u>3</u>		<u>20</u>

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 Pkwy
Bossmore, Md 21713

(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# 20035

*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: Craymark Homes Telephone #: 703-932-0573
Subdivision: Walnut Creek Lot #: 43 Well Tag #: HO-95-2374
Site Address: 5115 Honey Locust Ct
Ellicott City, Md 21042

Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit
Make: Sola LG Make: American Grundy Two piece watertight cap: y
Model #: S9P4HS05221-01 Model#: PT800 Screened, vented well cap: y
Pump Capacity 7 GPM Depth: 36 (36" min) Cap secured to casing: y
Well Yield: 20 GPM NSF/WSC approved: y Conduit min 18" B.G.: y

Depth of well encountered at time of pump installation: 240 (feet) Conduit secured to well cap: y
If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.3.4
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

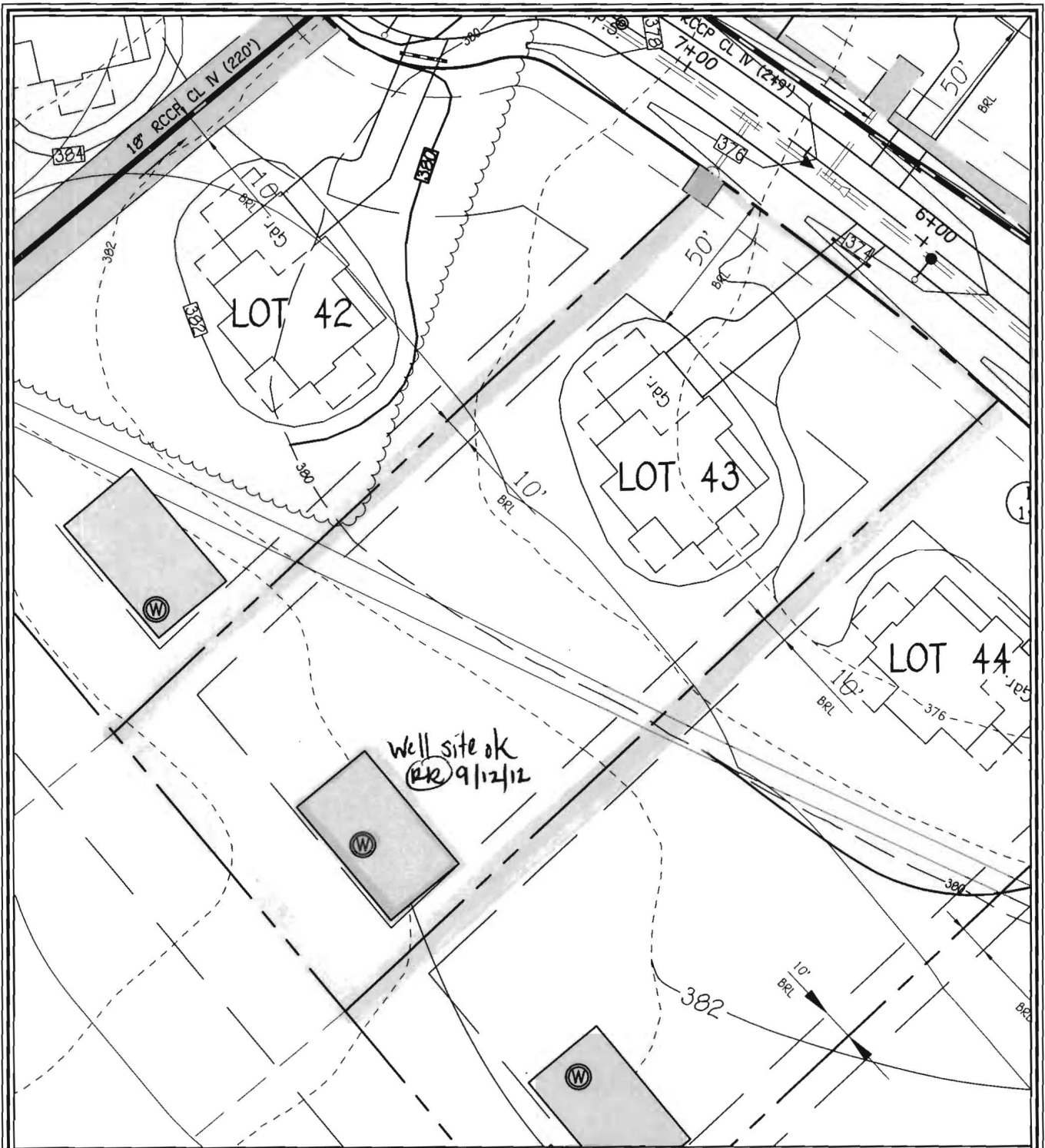
Piping to house House Connection
Type: Poly PVC sleeve to undisturbed soil at wall penetration: y
PSI: 200 (160 psi min) Length of sleeve(5' minimum from foundation): 20
Depth of supply line: 36 (36" min) Sleeve sealed properly: y

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: 1-27-2015

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

Date Insp. Requested: 1/28/15 Date Insp. Approved: 1/28/15 Inspector: RR
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



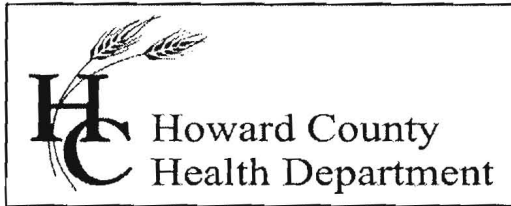
WELL LOCATION INFORMATION:
 NORTHING = 572,526.73 EASTING = 1,326,740.97
 LATITUDE = N39°14'19" LONGITUDE = W76°56'57"

LOT 43 WELL MAP
WALNUT CREEK
PHASE TWO

Lots 23 - 60, Non-Buildable Preservation Parcels
 'C', 'G', 'I', 'K', 'L' And 'M', Buildable Bulk Parcels 'E' And 'H'
 & Non-Buildable Parcel 'J'
 ZONED: RC-DEO & RR-DEO

TAX MAP No. 20 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 - 2955



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

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

INTERIM CERTIFICATE OF POTABILITY

Expiration Date – JANUARY 27, 2017

July 27, 2016

Homeowner
5115 Honey Locust Court
Ellicott City, MD 21042

**RE: Walnut Creek, Lot 43
5115 Honey Locust Court
Building Permit: B14003837
Well Permit: HO-95-2374**

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 **6/10/2016**. Final approval of the well line connection to the dwelling was granted on **1/28/2016**. The well construction was completed on **9/20/2012**. Water samples were collected on **7/21/2016**.

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 **9/21/2012**. Results showed a Gross Alpha level of **2.0 ± 0.0 pCi/L** and **Gross Beta** level of **4.7 ± 1.9 pCi/L**. The Gross Alpha was below the maximum contaminant level (MCL) of 15 pCi/L and the Gross Beta was below the target level of 50pCi/L (roughly equivalent to the annual dose rate of 4 millirems per year). At the time of testing and with respect to these parameters, the well water is safe for all uses.

This certifies that the initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit HO-95-2374. 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.**

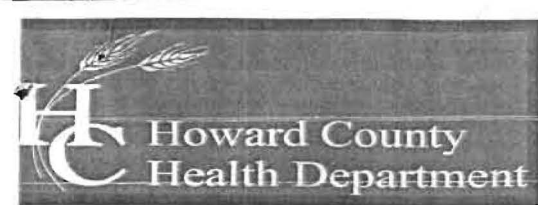
Please contact (410) 313-1773 to schedule a final water sample appointment or contact a certified water quality laboratory to schedule a water sample. A list of laboratories certified by the state of Maryland may be found at the following website:
<http://www.mde.state.md.us/assets/document/WSP-Labs-2010apr16.pdf>

Approving Authority,

A handwritten signature in black ink, appearing to read "K. M. Wolf". The signature is written in a cursive style with a large initial "K" and a stylized "W".

Kevin M. Wolf, L.E.H.S., RS/REHS, Supervisor
Groundwater Mgmt. Sec.
Well & Septic Program

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



Bureau of Environmental Health

7178 Columbia Gateway Drive, Columbia, MD 21046-2147

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 43
Benjamins Court
Well Tag: HO - 95 - 2374

Dear Mr. Feaga:

A sample was collected during a yield test on September 21, 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 $< 2.0 \pm 0.0$ picocuries/liter (pCi/L), while the **Gross Beta** level was 4.7 ± 1.9 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 cursive script 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

Field Blank

LABORATORY ANALYSIS REQUEST

Sample Bottle No. A: 952374BB No. B: _____ Field Blank Bottle No. 1: 2374A No B: _____

Plant/Site Name: Walnut Creek - Lot 43 County: Howard

Sample Source: Benjamins Ct. Location: HO-95-2374
(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: 11:00 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	0627	< 2.0	09/26/12	09/27/12
✓	Gross Beta	4100	0627	< 4.0	"	"
	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
7178 Columbia Gateway
Columbia, MD 21046 Dr.

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

E000628 825

LABORATORY ANALYSIS REQUEST

Sample Bottle No. A: 952374BB No. B: _____ Field Blank Bottle No. 1: 2374A No B: _____
 Plant/Site Name: Walnut Creek - Lot 43 County: Howard
 Sample Source: Benjamins Ct. Location: H0-95-2374
 (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

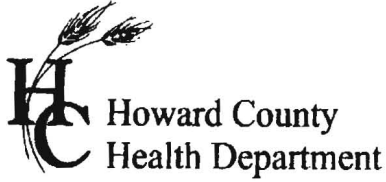
Collector: B. Baker Telephone No.: (410) 313-2643
 Date Collected: 9/20/2012 Time Collected: 11:00 a.m. _____ p.m.
 Nitric Acid Preserved: Yes No Iced: Yes No
 Submitters Code: Federal Project: Field Data: _____ pH _____ Chlorine _____

Remarks: Sample Collected During Yield Test

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Analyzed	Date Reported
✓	Gross Alpha	4000	0628	< 2.0	09/26/12	09/27/12
✓	Gross Beta	4100	0628	4.7 ± 1.9	11	.
	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



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(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	43	Benjamins 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



Fredericktowne Labs, Inc.

ENVIRONMENTAL TESTING



3020 Ventria Court • P.O. BOX 345 • Myersville, MD 21773 • 800-330-0240 • Fax: 410-295-0260
 www.fredericktownelabs.com • info@fredericktownelabs.com

Certificate of Analysis

Acct. No. 3948 - 1588-1

Field Record

Site visit performed on: Thursday, July 21, 2016 10:48 AM
 by: Kevin Kretzer State ID No. 151 KK
 Affiliation: Tri-County Pump Service
 Property Owner: Craftmark Home
 Project: Lot 43
 Property Address: 5115 Honey Locust Ct
 Ellicott City, MD,
 Sample Source: Basement Bathroom Sink
 Treatment Devices Noted: No Treatment Devices
 Well No.: HO-95-2374
 Field pH: 7.5
 Free Res. Cl.: 0.0 mg/l

Laboratory Report

Sample Received at laboratory: 7/21/2016 12:31 PM

Bacteriological results:

Total Colif. (/100ml)	E.coli./(/100ml)	Start		End		Method	Analyst
		Date	Time	Date	Time		
<1	<1	07/21/16	13:34	07/22/16	07:51	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	4.3	mg/l	10	7/21/2016	300.0	PH
Sand	<2	mg/l	5	7/21/2016	0.065mm Filter	JD
Turbidity	3.5	NTU	10	7/21/2016	300.1	KB

Reported by:

Edlin Mellott 7/22/16
 Name Date

Fredericktowne Labs, Inc. is a State Certified Water Quality Laboratory

Maryland Cert. No. 116 Virginia Cert. No. 00444

MDOT WBE Cert. No.: #1-158