

C1 36484

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)

COUNTY NUMBER A520385

ST/CO USE ONLY DATE RECEIVED

DATE WELL COMPLETED

Depth of Well 22 340 26 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" 11/15/15 SC H0-15-0152

OWNER Basalon Venture LLC WELL SITE ADDRESS last name first name TOWN clarksville SUBDIVISION Walnut Creek Phase 4 SECTION 4 LOT 127

WELL LOG Not required for driven wells

GROUTING RECORD WELL HAS BEEN GROUTED (Circle Appropriate Box) YES Y NO N

C 3 PUMPING TEST

STATE THE KIND OF FORMATIONS PENETRATED, THEIR COLOR, DEPTH, THICKNESS AND IF WATER BEARING

TYPE OF GROUTING MATERIAL (Circle one) CEMENT CM BENTONITE CLAY BC

HOURS PUMPED (nearest hour) 3

DESCRIPTION (Use additional sheets if needed)

FEET FROM TO

check if water bearing

NO. OF BAGS 14 NO. OF POUNDS 1376

PUMPING RATE (gal. per min.) 6.5

Sand 0 36 Mica Rock 36 340 Water 191, 310

DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 36 ft.

METHOD USED TO MEASURE PUMPING RATE Bucket

DEPTH OF GROUT SEAL (to nearest foot) from 0 ft. to 36 ft.

WATER LEVEL (distance from land surface) BEFORE PUMPING 23 ft. WHEN PUMPING 200 ft.

CASING RECORD casing types insert appropriate code below

STEEL ST CONCRETE CO PLASTIC PL OTHER OT

TYPE OF PUMP USED (for test) A air P piston T turbine

MAIN CASING TYPE Nominal diameter top (main) casing (nearest inch) Total depth of main casing (nearest foot) ST 6 40

C centrifugal R rotary O other (describe below) J jet S submersible

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

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

NUMBER OF UNSUCCESSFUL WELLS: 0

C 2 DEPTH (nearest ft.)

IF DRILLER INSTALLS PUMP, THIS SECTION MUST BE COMPLETED FOR ALL WELLS.

WELL HYDROFRACTURED YES Y NO N

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

TYPE OF PUMP INSTALLED PLACE (A,C,J,P,R,S,T,O) IN BOX 29.

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

SLOT SIZE 1 2 3 DIAMETER OF SCREEN (NEAREST INCH) from to

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

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.

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

PUMP HORSE POWER 37 41

DRILLERS LIC. NO. 1 MSD 117 DRILLERS SIGNATURE

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

PUMP COLUMN LENGTH (nearest ft.) 43 47

LIC. NO. 1 MSD 027

TELESCOPE CASING LOG INDICATOR OTHER DATA

CASING HEIGHT (circle appropriate box and enter casing height) LAND SURFACE below 2 (nearest foot)

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

LATITUDE 39.23427 LONGITUDE 76.94567 (DEFAULT COORD. WGS 84)

Pursuant to §10-624 of the State Govt. Article of the Maryland Code personal info. requested on this form is used in processing this form pursuant to COMAR 26.04.04. Failure to provide the info. may result in this form not being processed. You have the right to inspect, amend, or correct this form. The Maryland Department of the Environment is subject to the Maryland Public Information Act. This form may be made available on the Internet via MDE's website and is subject to inspection or copying, in whole or in part, by the public and other governmental agencies, if not protected by federal or state law.

B 1	<b>28697</b>	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND <b>APPLICATION FOR PERMIT TO DRILL WELL</b> please type	STATE PERMIT NUMBER <b>HO-15-0152</b> <small>fill in this form completely</small>
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**OWNER INFORMATION**

Date Received (APA) \_\_\_\_\_

8 MM DD YY 13

15 Last Name Bassler Venture LLC Owner 482 First Name \_\_\_\_\_ 34

36 Lisbon Street or RFD MD 21765 55

57 Town 70 State 72 Zip 76

**LOCATION OF WELL**

B 3

8 COUNTY Howard 21

23 SUBDIVISION Walnut Creek Phase 4 42

SECTION 4 44 46 LOT 127 48 50

52 NEAREST TOWN Clarksburg 71

**DRILLER INFORMATION**

76 Driller's Name Ralph Mayne License No. MS D 117 81

Firm Name Ralph Mayne Well Drilling

Address 17024 Handy Rd Mt. Airy MD 21771

Signature [Signature] Date 9/18/15

**SOURCES OF DRILLING WATER**

B 4

11 STREET ADDRESS Lindera Ct 30

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

NORTH  
 WEST  
 EAST  
 SOUTH

34 DISTANCE FROM ROAD 37

ENTER FT OR MI 38 39

TAX MAP: 28 BLK: \_\_\_\_\_ PARCEL 49

**WELL INFORMATION**

B 2

APPROX. PUMPING RATE (GAL. PER MIN.) 5 8 12

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500 14 20

**USE FOR WATER (CIRCLE APPROPRIATE BOX)**

DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION

FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)

22  INDUSTRIAL, COMMERCIAL, DEWATERING

PUBLIC WATER SUPPLY WELL

TEST, OBSERVATION, MONITORING

OPEN LOOP GEOTHERMAL

CLOSED LOOP GEOTHERMAL

**NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL**

Howard COUNTY NAME (13) COUNTY NO. A520385

STATE SIGNATURE \_\_\_\_\_ INSERT S → 41

DATE ISSUED 9/25/15 [Signature] 9/25/16

43 MM DD YY 48 CO SIGNATURE EXP. DATE

APPROXIMATE DEPTH OF WELL 150 FEET 24 28

APPROXIMATE DIAMETER OF WELL 64 INCH NEAREST

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

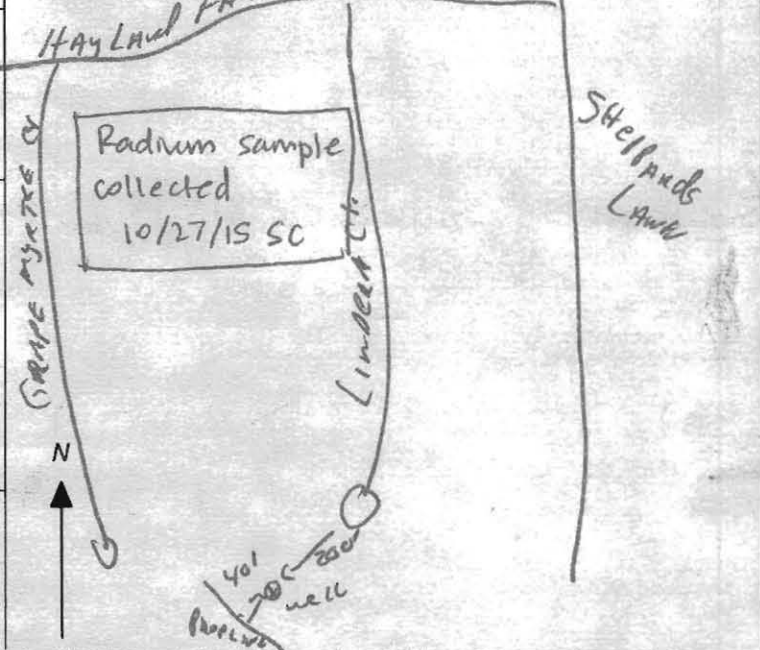
**METHOD OF DRILLING (circle one)**

BORED (or Augered) JETTED Jetted & DRIVEN

30  AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary)

37  CABLE REVerse-ROTary DRive-POINT

other \_\_\_\_\_



**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

39  THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS

THIS WELL WILL DEEPEM AN EXISTING WELL

PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 \_\_\_\_\_ 52

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

APPROX. PERMIT NUMBER H02006G020

PERMIT No. HO-15-0152

70 71 72 73 74 75 76 77 78 79

**SPECIAL CONDITIONS**

NOTE APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED: Wells must be 100' apart. Radium sample req'd at yield.



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 Telephone #: 301-432-0330
Address: 5711 Old National Pike
Boonville, 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 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 Home Telephone #: 703-932-0573
Subdivision: Walnut Creek Lot #: 127 Well Tag #: HO-15-0152 v
Site Address: 5052 Linden Ct
Ellicott City, Md

Submersible Pump Data Pitless Adapter Well Cap and Electric Conduit
Make: Sta-Kid Make: American Gruby Two piece watertight cap: y
Model #: 550150721 Model #: PJ-100 Screened, vented well cap: y
Pump Capacity 5 GPM Depth: 36 (36" min) Cap secured to casing: y
Well Yield: 6.5 GPM NSF/WSC approved: y Conduit min 18" B.G.: y
Depth of well encountered at time of pump installation: 340 (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 17.8.4
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: y
PSI: 200 (160 psi min) Length of sleeve (5' minimum from foundation): 2.5
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 Griffith date: 5-3-2011

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

Date Insp. Requested: 5/4/10 Date Insp. Approved: 5/4/10 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

3.5'
back of house
well line
(cunder
foster)

I:\2004\04001\dwg\PHASE FOUR FINALS\04001 Phase Four FINAL WELL MAPS.dwg, 9/1/2015 2:45:53 PM, 1:1

N:179.20  
E:27629.82  
9° 14' 05.99"  
W76° 56' 45.63"

**DO NOT REMOVE THIS TAG**  
**DEPARTMENT OF THE ENVIRONMENT**  
**WELL PERMIT NUMBER**  
  
**H0-15-0152**  
  
**INFORMATION-GIVE NUMBER AND WRITE**  
**1800 WASHINGTON BLVD**  
**BALTIMORE MARYLAND, 21230**

N:571051.97  
E:1327639.80  
N039° 14' 04.73"  
W076° 56' 45.50"

W076° 56' 44.19"

**LOT 127**

N:570920.63  
E:1327723.09  
N039° 14' 03.43"  
W076° 56' 44.44"

PUBLIC S.W.M. ACCESS,  
DRAINAGE &  
UTILITY EASEMENT

Well box approved  
9/25/15 SC

Well site staked  
by Fisher, Collins

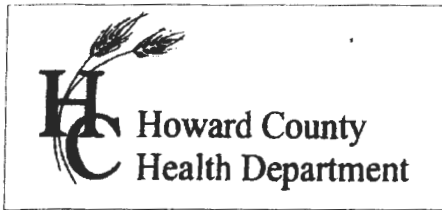
**WELL LOCATION INFORMATION:**  
NORTHING = 570920.63    EASTING = 1327723.09  
LATITUDE = N 39° 14' 03"    LONGITUDE = W 76° 56' 44"

+ Carter **LOT 127 WELL MAP**  
**WALNUT CREEK**  
**PHASE FOUR**

Lots 23 - 68, 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. 28    GRID Nos. 4, 5, 10-12, 17, AND 18    PARCEL No. 49  
FIFTH ELECTION DISTRICT    HOWARD COUNTY, MARYLAND  
DATE: SEPTEMBER 1, 2015    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



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	127	Lindera 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 09/17/15 (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

**INTERIM CERTIFICATE OF POTABILITY**

**Expiration Date – APRIL 5, 2019**

October 5, 2018

Homeowner  
5052 Lindera Court  
Ellicott City, MD 21042

**RE: Walnut Creek, Lot 127**  
**5052 Lindera Court**  
**Building Permit: B18000425**  
**Well Permit: HO-15-0152**

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 **10/5/2018**. Final approval of the well line connection to the dwelling was granted on **5/4/2018**. The well construction was completed on **10/27/2015**. Water samples were collected on **9/13/2018**.

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 **3/1/2016**. Results showed a combined level for radium 226 and 228 to be **3.01 pCi/L**. The radium 226, 228 combined maximum contaminant level (MCL) of 3.01 pCi/L was below the target level of 5pCi/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-15-0152. 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.**



Bureau of Environmental Health  
8930 Stanford Blvd | Columbia, MD 21045  
410.313.2640 - Voice/Relay  
410.313.2648 - Fax  
1.866.313.6300 - Toll Free

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

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 onsite sewage disposal system. You will also find a link to Maryland Department of the Environments website which elaborates in further detail operation and maintenance of your Septic System.

Approving Authority,

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

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

## Williams, Jeffrey

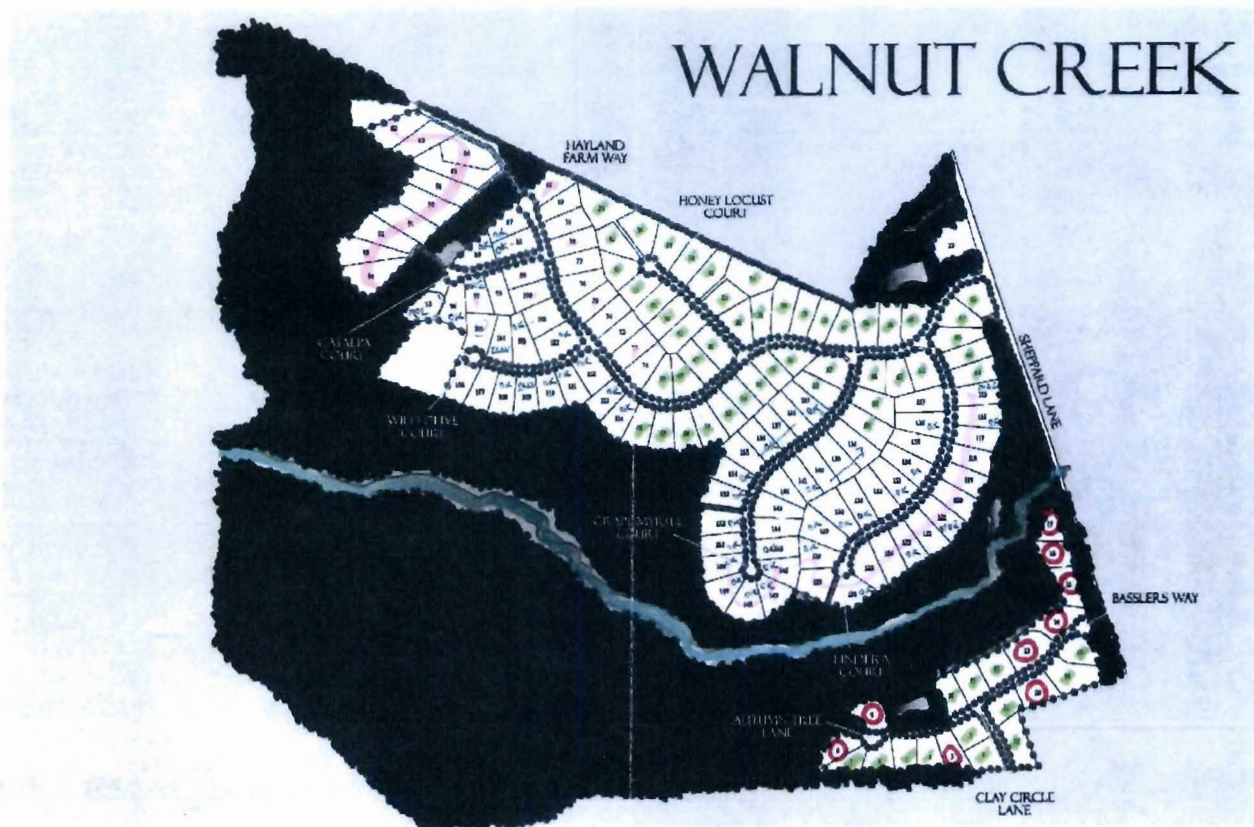
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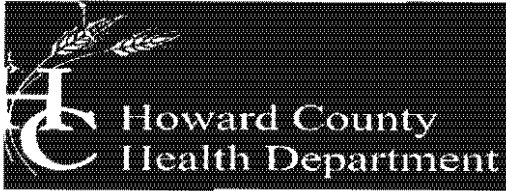
**From:** Williams, Jeffrey  
**Sent:** Friday, May 16, 2014 12:16 PM  
**To:** Tim Feaga  
**Subject:** Walnut Creek Radium testing  
**Attachments:** Walnut Creek radium.pdf; Walnut Creek radium\_2.pdf

Hi Tim. I met with Bert regarding possible easement of radium testing at all lots in Walnut Creek. I've attached a map showing the additional lots that we would like to still be tested to ensure that there is not an area of concern in the remaining lots. The lots in the green cloud have been tested and passed. The lots in the red cloud are lots that we would like to be tested. The lots at the top corner (82-86, 90-94) fall within the radium testing boundary. We want the lots near the river tested to prove whether the stream is in fact acting as a natural buffer from the positive tests on the other side and the passing lots above them. Furthermore, we'd like some representative lots tested in the other section near the upper testing boundary to prove that there are no hot spots. If these are also passing, then we would likely be comfortable waiving the remaining.

We'd be happy to meet with you to discuss if you prefer. Thanks.

Jeff Williams  
Program Supervisor, Well & Septic Program  
Bureau of Environmental Health  
Howard County Health Dept.  
410-313-4261  
[jewilliams@howardcountymd.gov](mailto:jewilliams@howardcountymd.gov)





Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

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., Health Officer

November 3, 2016

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

RE: Walnut Creek Lot 127
Lindera Court
Well Tag: HO - 15 - 0152

Dear Mr. Feaga:

Testing was performed on the well serving Lot 127 on March 1, 2016. Samples were submitted to Pace Analytical Services, Inc. to further assess the extent of Gross Alpha, Gross Beta, Radium 22/228 and Total Uranium in the future well water supply. Prior testing confirmed a level of presence sufficient enough to evaluate whether treatment to address these naturally occurring radioactive nuclides should be considered.

Results from this long term particle screening (based upon the date of analysis) revealed a Gross Alpha of 6.59 ± 2.67 picocuries/liter (pCi/L), while the Gross Beta level was 3.84 ± 1.14 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).

Additionally, a Radium 226 / 228 sample was collected and submitted to Pace. These naturally occurring isotopes of radium are considered the most important due to their longer half-lives and health significance. Results revealed a Radium 226 level of 2.36 ± 0.79 pCi/L, while the Radium 228 level was 0.704 ± 0.37 pCi/L. Here the combined Radium 226 / 228 was below the MCL of 5 pCi/L.

Finally, an analysis for Uranium was performed. Results from this screening revealed a Uranium level of 0.753 ± 0.016 micrograms per liter (ug/L). This finding is well below the current MCL of 30 ug/L for this parameter (roughly equivalent to 20 pCi/L).

At the time of this testing and with respect to these parameters, the future well water supply appears to meet 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,

Bert Nixon (handwritten signature)

Bert Nixon, Director
Bureau of Environmental Health

Enclosure
cc: Property file

**ANALYTICAL RESULTS - RADIOCHEMISTRY**

Project: Walnutcreek Phase 4  
Pace Project No.: 30174956

Sample: Lot 127 Lab ID: 30174956006 Collected: 03/01/16 12:15 Received: 03/02/16 22:15 Matrix: Drinking Water  
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0	6.59 ± 2.67 (2.98) C:NA T:NA	pCi/L	04/05/16 08:47	12587-46-1	
Gross Beta	EPA 900.0	3.84 ± 1.14 (1.70) C:NA T:NA	pCi/L	04/05/16 08:47	12587-47-2	
Radium-226	EPA 903.1	2.36 ± 0.794 (0.188) C:NA T:90%	pCi/L	04/12/16 10:21	13982-63-3	
Radium-228	EPA 904.0	0.704 ± 0.369 (0.705) C:81% T:87%	pCi/L	03/25/16 15:55	15262-20-1	
Total Uranium	ASTM D5174-97	0.753 ± 0.016 (0.193) C:NA T:NA	ug/L	04/11/16 18:23	7440-61-1	

**REPORT OF LABORATORY ANALYSIS**

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, Inc..



Bureau of Environmental Health

8930 Stanford Boulevard, Columbia, MD 21045

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., Health Officer

January 11, 2016

\* Need Further Testing

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

RE: Walnut Creek Lot 127  
Lindera Court  
Well Tag: HO - 15 - 0152

Dear Mr. Feaga:

A sample was collected during a yield test on October 27, 2015 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 **19.3 ± 3.1 picocuries/liter (pCi/L)**, while the **Gross Beta** level was **7.4 ± 2.1 pCi/L**. The **Gross Alpha** result was above 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 **does not** meet EPA regulatory standards. Additional testing **for these parameters** will be required to secure the future Use & Occupancy. Additional raw water samples for **short and long term Gross Alpha and Gross Beta**, plus **Radium 226 / 228** will be needed to assess any future treatment needs. **Please note** that other standard testing parameters (bacteria, nitrate, turbidity and sand) will also 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,

*Bert Nixon*  
Bert Nixon, Director  
Bureau of Environmental Health

Enclosure

✓ cc: Property file



SEND REPORT TO: Bert Nixon  
Howard Co Health Dept  
Bureau of Environmental Health  
2920 Stanford Blvd.  
Columbia, MD 21045

State of Maryland  
 DHMH - Laboratories Administration  
 Division of Environmental Chemistry  
**RADIATION LABORATORY**  
 1770 Ashland Avenue  
 Baltimore, Maryland 21205

Lab No.  
 E000700 828

**LABORATORY ANALYSIS REQUEST FORM**

Plant/Site Name: Field Blank County: Howard

Sample Source: dH<sub>2</sub>O Location: HOHD Lab

(Well no., lab sink, sample tap, etc.)

Radon-222 Bottle A \_\_\_\_\_ Radon-222 Field Blank Bottle A \_\_\_\_\_  
 Bottle B \_\_\_\_\_ Bottle B \_\_\_\_\_

County 13 Plant No. \_\_\_\_\_

CHECK (one per Box)

Type	Service	Point of Collection	Testing
Drinking Water <input checked="" type="checkbox"/>	Community <input type="checkbox"/>	Source (Raw) <input checked="" type="checkbox"/>	Emergency <input type="checkbox"/>
Landfill <input type="checkbox"/>	Non-Community <input type="checkbox"/>	Distribution (treated) <input type="checkbox"/>	Routine <input checked="" type="checkbox"/>
Stream <input type="checkbox"/>	Private <input checked="" type="checkbox"/>	MCL <input type="checkbox"/>	Recheck <input type="checkbox"/>
Other <input type="checkbox"/>	Other <input type="checkbox"/>		Special <input type="checkbox"/>

Submitters Code: \_\_\_\_\_ Federal Project: 5

Collector: S. Collins Telephone No.: 410-313-6287

Date Collected: 10/27/15 Time Collected: \_\_\_\_\_ a.m. 3:30 p.m.

Field pH: \_\_\_\_\_ Field Chlorine: \_\_\_\_\_

Nitric Acid Preserved: Yes  No  Iced: Yes  No

Remarks: \_\_\_\_\_

TEST	EPA Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Date Reported
<input checked="" type="checkbox"/> Gross Alpha	4000	<u>0700</u>	<u>EPA900.0</u>	<u>&lt;2.0</u>	<u>10/30/15</u>	<u>JJ</u>	<u>11/6/15</u>
<input checked="" type="checkbox"/> Gross Beta	4100	<u>1200</u>	<u>EPA900.0</u>	<u>&lt;4.0</u>	<u>10/30/15</u>	<u>JJ</u>	<u>11/6/15</u>
<input type="checkbox"/> Radium-226	4020						
<input type="checkbox"/> Radium-228	4030						
<input type="checkbox"/> Total Uranium	4006						
<input type="checkbox"/> Radon-222 (Bottle A)	4004						
<input type="checkbox"/> Radon-222 (Bottle B)	4004						
<input type="checkbox"/> Radon Field Blank A	4004						
<input type="checkbox"/> Radon Field Blank B	4004						
<input type="checkbox"/> Tritium							
<input type="checkbox"/>							
<input type="checkbox"/>							

Date Received: 10/28/15 Received By: In Ji

Data Release Signature: Deborah Miller - Juck Date: 11/6/15

Lab Use Only	Yes	No	N/A
Sample Intact upon arrival?	<input checked="" type="checkbox"/>		
Sample pH <2.0?	<input checked="" type="checkbox"/>		
Received within holding time?	<input checked="" type="checkbox"/>		

•Tel. No.: (443) 681-3766 •Fax No.: (443) 681-4507



## Certificate of Analysis

Acct. No. 3948 - 2160-1

### Field Record

Site visit performed on Thursday September 13 2018 10:06 AM  
 by Steve Wolfe State ID No 8587SW  
 Affiliation Tri-County Pump Services  
 Property Owner Craftmark  
 Property Address 5052 Linder Ct  
 Ellicott City MD 21042  
 Sample Source 1st Floor Bath Vanity  
 Treatment Devices Noted No Treatment Devices  
 Well No HO-15-0152  
 Field pH 7.4  
 Free Res Cl 0.0 mg/l

### Laboratory Report

Sample Received at laboratory 9/13/2018 1:21 PM

#### Bacteriological results:

Total Colif. (/100ml)	E. coli (/100ml)	Start		End		Method	Analyst
		Date	Time	Date	Time		
<1	<1	09/13/18	16:26	09/14/18	10:36	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	3.3	mg/l	10	9/13/2018	300.0	PH
Sand	<2	mg/l	5	9/13/2018	0.065mm Filter	JD
Turbidity	0.9	NTU	<10	9/13/2018	180.1	JD

Reported by Edna Milote 9/14/18  
 Name Date

