



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

Facebook: [www.facebook.com/hocohealth](https://www.facebook.com/hocohealth)

Maura Rossman, M.D., Health Officer

January 5, 2017

Craftmark Homes  
1355 Beverly Road  
McLean, Virginia 22101

RE: Walnut Creek Lot 106  
4995 Wild Olive Court  
Well Tag: HO - 88 - 0409

To Whom it May Concern:

A sample was collected from an outside hose bib (post sediment filter) on December 1, 2016 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  $7.3 \pm 1.8$  picocuries/liter (pCi/L), while the **Gross Beta** level was  $5.2 \pm 1.7$  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 well water supply **is within** 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, Director  
Bureau of Environmental Health

✓ Enclosure  
cc: Property file

SEND REPORT TO: Bert Nixon

Howard G. Health Dept

8930 Stanford Blvd.

Bureau of Environmental Health

Columbia MD 21045

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

Lab No.

E0011300-19

# LABORATORY ANALYSIS REQUEST FORM

Plant/Site Name: Walnut Creek - Lot 106

County: Howard

Sample Source: 4995 Wild Olive Ct.

Location: H0-88-0429

(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	
Drinking Water	<input checked="" type="checkbox"/>
Landfill	<input type="checkbox"/>
Stream	<input type="checkbox"/>
Other	<input type="checkbox"/>

Service	
Community	<input type="checkbox"/>
Non-Community	<input type="checkbox"/>
Private	<input checked="" type="checkbox"/>
Other	<input type="checkbox"/>

Point of Collection	
Source (Raw)	<input checked="" type="checkbox"/>
Distribution (treated)	<input type="checkbox"/>
MCL	<input type="checkbox"/>

Testing	
Emergency	<input type="checkbox"/>
Routine	<input checked="" type="checkbox"/>
Recheck	<input type="checkbox"/>
Special	<input type="checkbox"/>

Submitters Code:           

Federal Project: S

Collector: S. Collins

Telephone No.: 410-313-6287

Date Collected: 12/1/16

Time Collected:            a.m. 3:15 p.m.

Field pH:           

Field Chlorine:           

Nitric Acid Preserved: Yes ☒ No ☐

Iced: Yes ☐ No ☒

Remarks: Sample collected from outdoor base post sediment filter

<input checked="" type="checkbox"/>	TEST	EPA Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Date Reported
<input checked="" type="checkbox"/>	Gross Alpha	4000	1134	EPA900.0	73 ± 1.8	12/2/16	JJ	12/6/16
<input checked="" type="checkbox"/>	Gross Beta	4100	1134	EPA900.0	5.2 ± 1.7	12/2/16	JJ	12/6/16
<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: 12/1/16

Received By: [Signature]

Data Release Signature: [Signature]

Date: 12 7 16

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

SEND REPORT TO: Bert Nixon  
Howard Co. Health Dept.  
Bureau of Environmental Health  
8930 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.

E0011324-12

**LABORATORY ANALYSIS REQUEST FORM**

Plant/Site Name: Field Blank

County: Howard

Sample Source: dH<sub>2</sub>O

Location: HCHD Lab

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

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

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

County 13

Plant No.           

CHECK (one per Box)

Type	
Drinking Water	<input checked="" type="checkbox"/>
Landfill	<input type="checkbox"/>
Stream	<input type="checkbox"/>
Other	<input type="checkbox"/>

Service	
Community	<input type="checkbox"/>
Non-Community	<input type="checkbox"/>
Private	<input checked="" type="checkbox"/>
Other	<input type="checkbox"/>

Point of Collection	
Source (Raw)	<input checked="" type="checkbox"/>
Distribution (treated)	<input type="checkbox"/>
MCL	<input type="checkbox"/>

Testing	
Emergency	<input type="checkbox"/>
Routine	<input checked="" type="checkbox"/>
Recheck	<input type="checkbox"/>
Special	<input type="checkbox"/>

Submitters Code:           

Federal Project: 5

Collector: S. Collins

Telephone No.: 410-313-6747

Date Collected: 12/1/16

Time Collected:            a.m. 3:45 p.m.

Field pH:           

Field Chlorine:           

Nitric Acid Preserved: Yes ☒ No ☐

Iced: Yes ☐ No ☒

Remarks:           

<input checked="" type="checkbox"/>	TEST	EPA Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Date Reported
<input checked="" type="checkbox"/>	Gross Alpha	4000	1133	EPA 900.0	< 2.0	12/2/16	JT	12/6/16
<input checked="" type="checkbox"/>	Gross Beta	4100	1133	EPA 900.0	< 4.0	12/2/16	JT	12/6/16
<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: 12/1/16

Received By:           

Data Release Signature:           

Date: 12-01-16

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"/>		

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