



HOWARD COUNTY HEALTH DEPARTMENT

64814

DATE 4/1/19

WS

Received From

PHONE #

410-876-5100

For

☐ CASH

☒ CHECK

NO.

3904

Well Permit / 11008 quarter
field RD.

One hundred seventy

Dollars

\$

100

00

Received By

Kemp

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

INTERIM CERTIFICATE OF POTABILITY
TEMPORARY DEVIATION FOR RADIUM

EXPIRATION DATE – April 11, 2022

February 23, 2022

Bryan and Lauren Schnitker
11608 Quarterfield Road
Ellicott City, MD 21042

Re: Replacement Well
11608 Quarterfield Road
HO-18-0015

Dear Mr. and Mrs. Schnitker,

In 2019, an Interim Certificate of Potability (ICOP) was issued requiring a second bacteriological sample and radium testing (i.e. Gross Alpha, Gross Beta and Radium 226/228). As you may be aware, **Gross Alpha** and **Gross Beta** screenings 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.

On January 25, 2022, the second bacteriological water sample was submitted for testing to help satisfy your ICOP requirements. At that time, the sample result was free of **coliform** and **E.coli** bacteria and bacteriologically safe for drinking.

Upon further review of the water testing file for your well, several radium tests were taken before the test results were adequate to meet EPA regulatory standards. The **Gross Alpha** screening results for samples taken from the water tank (prior to treatment) fluctuated near or slightly above the maximum contaminant level (MCL) of 15 pCi/L. Whereas, both the **Gross Alpha** and **Gross Beta** samples taken after treatment (post water softener and R/O) did confirm that result levels were significantly reduced.

At this time, installation of the water softener and R/O treatment system has shown effectiveness in maintaining a **Gross Alpha** level of less than 15 pCi/L, a **Gross Beta** level of less than 50 pCi/L and a combined **Radium 226/228** level of less than 5 pCi/L. Therefore, this Department has revised the prior ICOP standing to an ICOP with a **deviation for radium**. Furthermore, to grant a Final Certificate of Potability (FCOP) for your well, please complete the following criteria:

Please complete the "On-Site Treatment System" agreement (see attached document), bring it (along with this letter) to our office for an official signature and then file the agreement with Howard County Land Records Department. Proof of payment from Land Records must be forwarded to our office.

**** At this time, no additional follow up water samples are required to verify that the treatment device is operating effectively. ****

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

In addition, it will be necessary for you to comply with the following conditions:

1. The installed water treatment system(s) must be properly operated and maintained continuously in accordance with the service contract for the life of the residence.
2. It is recommended that a yearly radionuclide analysis is performed by a certified Maryland water laboratory. All fees and scheduling are the owner's responsibility.
3. If you decide to sell or rent your home in the future, you must make any potential buyer/tenant aware of this permanent deviation. **A person who fails to make this disclosure is subject to the penalties set out in COMAR 26.04.04.12F Enforcement and Environment Article 9-1311, Annotated Code of Maryland.**

This certifies that the sampling requirements of COMAR 26.04.04 "Well Regulations" has temporarily been met for the water supply system installed under well permit **HO-18-0015**. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies.

This revised Interim Certificate of Potability will expire **45 days** from the date of issuance. **Failure to 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.**

Approving Authority,



Ramar Martin, R. S.
Community Hygiene Program

Water Sample Dates on File:

January 25, 2022 (Bacteria, Sodium, Chlorides, Total Dissolved Solids – MD State Lab)

September 20, 2019 (Radium – Private Lab)

July 11, 2019 (Radium – Private Lab)

April 18, 2019 (Bacteria, Nitrate, Turbidity, Sand, Gross Alpha/ Gross Beta - MD State Lab)

Enclosures

Martin, Ramar

Subject: FW: 11608 Quarterfield Rd.

From: Rappaport, Ryan
Sent: Wednesday, February 23, 2022 2:33 PM
To: Martin, Ramar <rmartin@howardcountymd.gov>
Subject: FW: 11608 Quarterfield Rd.

Hi Ramar, I called (vm) and emailed Lauren this morning and she replied by email. Does her reply answer all your questions? If you need anything else just let me know and I'm happy to call her back.

Ryan

From: Lauren Schochor <lauren.schochor@gmail.com>
Sent: Wednesday, February 23, 2022 11:36 AM
To: Rappaport, Ryan <RRappaport@howardcountymd.gov>
Cc: Lauren Schochor <lauren.schochor@gmail.com>
Subject: Re: 11608 Quarterfield Rd.

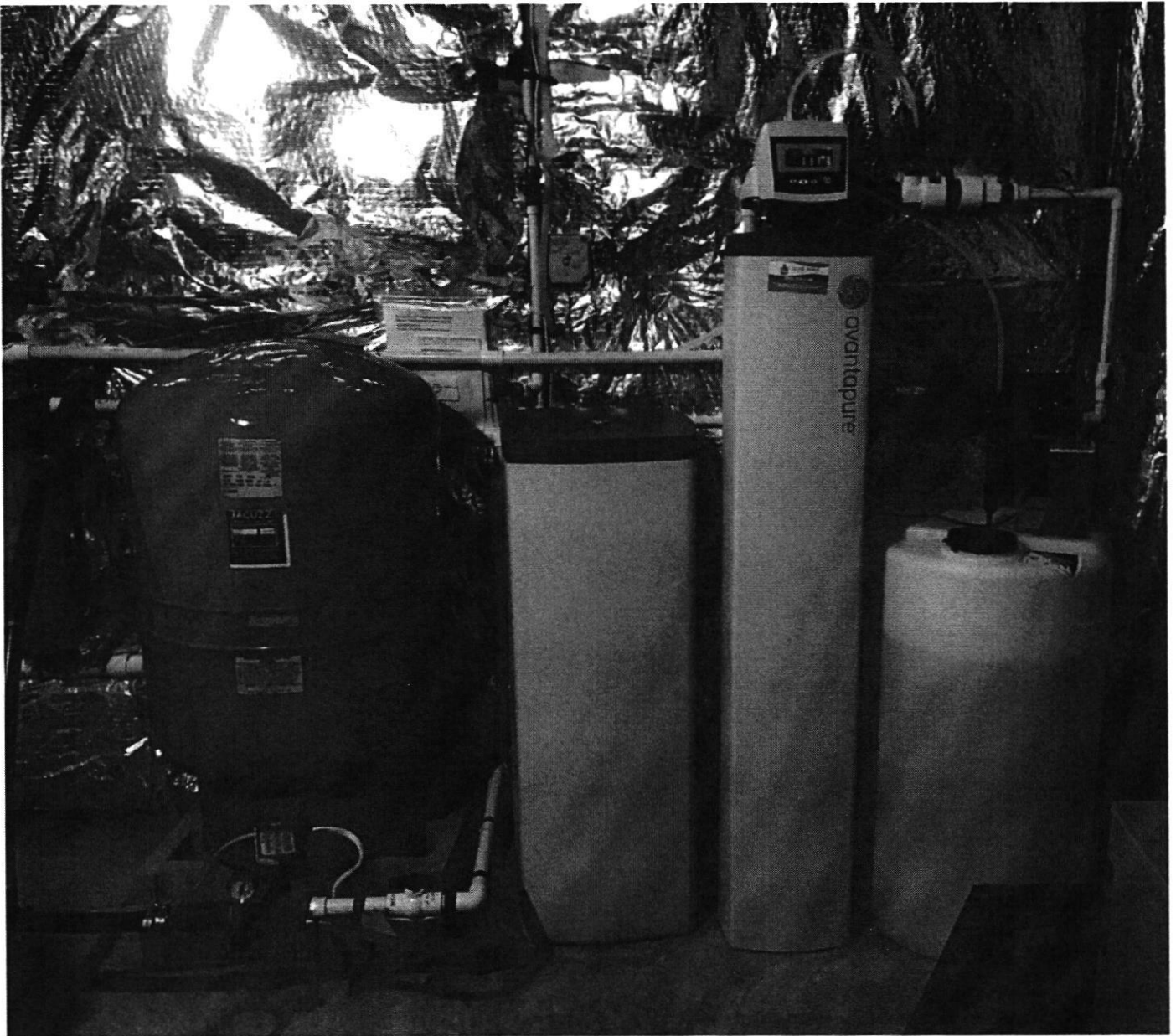
[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

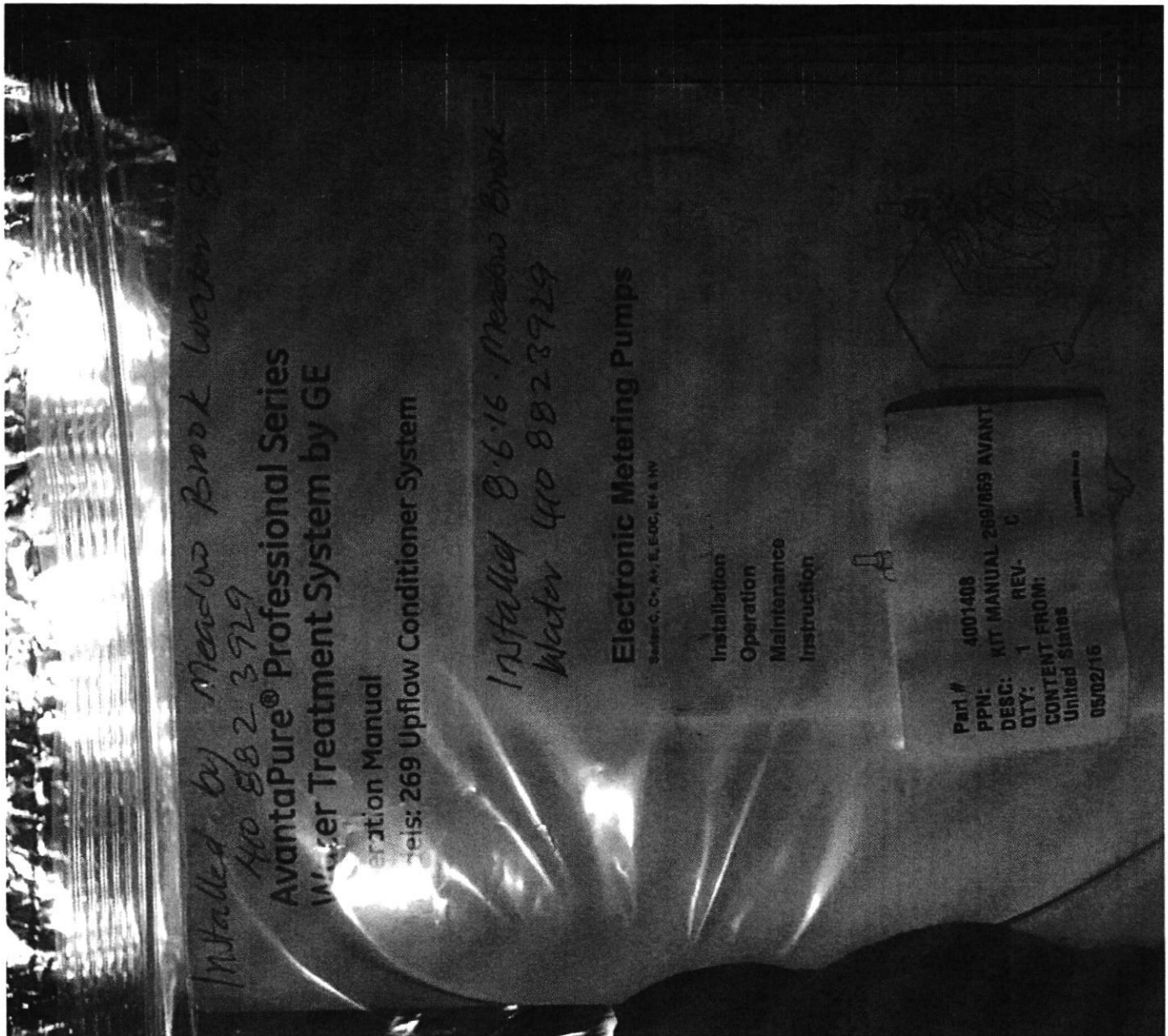
Hi Ryan:

I'll follow-up with them.

We have a water softener and neutralizer on the whole house system and an R/O at the kitchen sink. There was an existing system when we moved in in 2013, but we upgraded it in 2016. Pictures attached. I have a new water treatment company coming in on Monday to test the water and make any adjustments - as I no longer trust Carroll Water at all.

Thanks!





Sent from my iPhone

On Feb 23, 2022, at 9:41 AM, Rappaport, Ryan <RRappaport@howardcountymd.gov> wrote:

Hi Lauren, Hope all's well. Still waiting on CWS for the abandonment report for the old well. Listed below are questions that the Community Hygiene Dept will need answered in order to move forward with your ICOP/FCOP.

Please get back to me when you can.

- Do they still have a water softener, neutralizer and R/O treatment on their well?
- When was each treatment installed?

- If R/O is present, is it a POU just at the kitchen sink or is it connected for all the plumbing throughout the house?

Ryan Rappaport, LEHS
Howard County Health Department
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, MD. 21045
Phone 410-313-1781
Fax 410-313-2648
rrappaport@howardcountymd.gov
www.co.ho.md.us



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

**AGREEMENT FOR APPROVAL OF AN INDIVIDUAL DRINKING WELL WITH AN
ON-SITE TREATMENT SYSTEM**

This agreement is entered into by and between the Howard County Health Department ("the Health Department") and Bryan Schnitker and Lauren Schnitker ("the Owner").

WHEREAS, the Owner owns a tract of land at street address 11608 Quaterfield Dr., Ellicott City, MD 21042 and the deed and subdivision plat of the property is recorded among the Land Records of Howard County, Maryland, Tax Map # 0023, Block # n/a, Parcel # 0008, Deed Reference # 15239/00475 and Tax Account # 03320170 ("the Property").

WHEREAS, the Property lacks an available public drinking water source and is required to have and individual well as the source of drinking water for the residence of the property.

WHEREAS, the Owner has installed a residential drinking well under well permit HO-18-0015 that has been tested by the Health Department (or a private laboratory certified to perform testing) for radionuclide particles. The results of the tests have shown that the gross alpha particle content and/or the gross beta particle content and/or the combined radium 226/228 levels exceeds the standards of 15 picocuries per liter (pCi/L), 4 millirems per year (mrem/yr) and/or 5pCi/L respectively.

WHEREAS, The Maryland Department of the Environment (MDE) has promulgated rules and regulations under which a Certificate of Potability may be issued and has delegated the authority to issue such Certificate to the Health Department.

WHEREAS, MDE regulations permit the Health Department to issue as a special condition, a permanent deviation to the Certificate of Potability for individual wells where treatment has been installed to meet the maximum contaminate levels (MCL's) for radionuclides.

WHEREAS, MDE has determined that radium can be effectively removed from the drinking water by the use of treatment devices (e.g., ion exchange or reverse osmosis).

WHEREAS, the Owner is requesting that the Health Department issue a Certificate of Potability contingent upon installation and maintenance of a water treatment device to reduce radionuclides.

WHEREAS, neither the Owner nor the Health Department has knowledge of an alternative safe source of water for the Property.

NOW THEREFORE, the parties have agreed to the following terms and conditions:

1. The Owner will record this Agreement among the Land Records of Howard County, Maryland and provide confirmation to the Health Dept.
2. The Owner agrees to install and maintain a water treatment device, which effectively reduces the gross alpha, gross beta and radium levels to below their respective MCL. The Health Department shall verify that the treatment device is operating effectively and the Owner agrees to allow access to the Health Department to collect a follow-up sample(s).

- The parties have signed this Agreement on the dates set forth below.

Howard County Health Department Date



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

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

May 1, 2019

Lauren Schnitker
11608 Quarterfield Road
Ellicott City, MD 21042

**Re: Replacement Well
11608 Quarterfield Road
Well Permit #HO-18-0015**

Dear Lauren Schnitker:

The water sample result indicates that the water sample submitted for testing was free of **coliform and E. coli bacteria** at the time of sampling and is bacteriologically safe for drinking. In general, the water sample results were found to be in compliance with **COMAR** water quality standards.

INTERIM CERTIFICATE OF POTABILITY

This certifies that the initial sampling requirements of **COMAR 26.04.04.00** "Well Regulations" have been met for the water supply system installed under well permit **HO-18-0015**. Although the submitted sample results are in compliance with **COMAR** standards, the Health Department does not guarantee water supplies.

Additional testing may be required once **Radium** results are reviewed.

Please contact (410) 313-1773 to schedule a final water sample appointment or contact a Maryland certified water laboratory to schedule a second bacteriological water sampling within (6) months of receipt of this letter. A list of Maryland certified laboratories can be provided upon request. If a private lab is used, please provide us with a copy of the results.

Approving Authority,

Ramar Martin, R. S.
Community Hygiene Program

Water Sample Dates on File:

April 18, 2019 (Bacteria, Nitrate, Turbidity, Sand, Gross Alpha/Beta – State Lab)



**HOWARD COUNTY
HEALTH DEPARTMENT**

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

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

May 01, 2019

Lauren Schnitker
11608 QUARTERFIELD ROAD
ELLICOTT CITY, MD 21042

**RE: Water Sample Results
11608 QUARTERFIELD ROAD**

Dear Lauren Schnitker,

We have received the results from the testing of the water sample(s) taken from the above referenced property on April 18, 2019. A description of the results and the established standards for each test is included below. Standards such as maximum contaminant levels (MCL), secondary maximum contaminant levels (SMCL), and drinking water equivalency levels (DWEL) are established by the EPA and other agencies to provide a reference for determining when action should be taken. These standards help to improve the overall quality of your water or ensure that steps are taken to treat the water to prevent you and your family from getting sick. Typically, no water is completely free of contamination but you should be concerned if the level of contamination for a particular test exceeds the standard.

The results from the **Bacteria** testing found that your well water sampled from the powder room faucet contains no bacteria at this time and is considered safe for all uses. According to drinking water standards there should be no bacteria present.

A sample was collected to determine the **Nitrate** level in your water supply. The nitrate level was 0.54 parts per million. The MCL for nitrate is 10.0 parts per million.

A **Turbidity** sample was collected to determine the amount of suspended particulates in your water supply. The turbidity level was <0.5 nephelometric turbidity units (NTU's). The MCL for turbidity is 10.0 NTU's.

A sample was collected to determine no **Sand** in your water supply.

Please contact the Health Department at (410) 313-1773 between 8:30 a.m. and 4:30 p.m., Monday through Friday if you have any questions regarding these test results.

Sincerely,

Ramar Martin, R.S.
Community Hygiene Program

Enclosures

SEND REPORT TO:

State of Maryland

MDH - Laboratories Administration

DIVISION OF ENVIRONMENTAL SCIENCES

1770 Ashland Avenue, Baltimore, MD 21205

Robert A. Myers, Ph.D. Director

Howard County Health Department

Bureau of Environmental Health

8930 Stanford Blvd.

Columbia, Maryland 21045

MICROBIOLOGICAL ANALYSIS OF DRINKING WATER

Category Code: 4 FInvoice No.: 1000Lab No.: 100500

FIELD RECORD

Sample Type:

- ☐ Community
☐ Transient
☐ Non-Transient
☒ Private
☐ Repeat Sample
☐ C.O.P.
☐ Bottled Water
☐ OTHER:

Source Address: Laurin Schnitzer, 11608 QuortierSampling Site: Powder RoomBottle No.: H11608Ice: Yes ☒ No ☐Treated: Yes ☐ No ☐County: HowardDate Collected: 4/18/19Time Collected: 9:00 ☒ am ☐ pmCollector Name: B. ShkharCollector ID No.: 3179 BSCollector Tel. No.: 410-315-1727

PWS ID No.:

Test Requested:

- ☒ Quantitative: Colilert-QT ☐ P/A: Colilert
☐ Heterotrophic Plate Count ☐ SimPlate
☐ Multiple Tube Fermentation: MTF
☐ Quantitative: Enterolert
☒ Other: Send presence not found

13

County

Plant No.

Sampling Station

8.7

pH

0.0

Res.Cl:

0.0

Free

0.0

Total

Remarks:

LABORATORY RECORD (MDH Use Only)

Test Method(s): (check all that apply)

- ☐ SM 9223 Colilert ☐ SM 9223 Colilert-QT ☒ SM 9223 Colilert-18
☐ SM 9221B (MTF) ☐ SM 9221B, F (MTF) ☐ SM 9223 Colisure
☐ SM 9215B (HPC) ☐ Enterolert ASTM D6503-99 ☐ SimPlate
☐ Other:

Temperature Control: 6.9°C

Thiosulfate:

- ☒ Present
☐ Absent
☐ Undetermined

P/A Test

100 mL Sample	(+/-)
Total Coliforms	
<i>E. coli</i>	
Enterococci	

Quantitative Test

Dilution: ☐ 1:10 ☐ 1:100 ☐ 1:1000

100 mL Sample	# Positive wells	MPN/100 mL
Total Coliforms	<u>0</u>	<u>< 1</u>
<i>E. coli</i>	<u>0</u>	<u>< 1</u>
Enterococci		

Heterotrophic Plate Count

Incubated 24, 48, 72hr @ 35°C

Plate A:

Plate B:

Average:

CFU/mL
MPN/mL

APR 18 '19 PM 1:58

Received

APR 18 '19 PM 3:01

Placed in Incubator

APR 19 '19 AM 9:07

Results Read/Reported

Presumptive MTF Test

mL of Sample	10 mL
Gas/24h	
Gas/48h	

Confirmed MTF Test

mL of Sample	10 mL
Total Coliforms	
<i>E. coli</i>	

Specialized Testing Results:

MTF Results

RECEIVED

No. of Positive (pp)	MPN/100 mL	Recorded Value
<u>0</u>	<u>0</u>	
APR 23 2019		
HOWARD COUNTY HEALTH DEPT. FOOD PROTECTION PROGRAM		

Analyst: K. JonesReviewed by/Date: 9/19/19

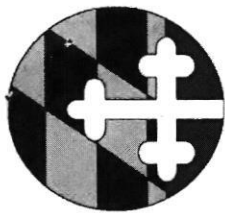
Remarks:

☐ Fax ☐ Email ☐ Phone

Laboratory:

☐ Central Lab (443) 681-3960 ☐ ESRL (410) 219-9005 ☐ WMRL (301) 759-5115

This report shall not be reproduced except in full without the written approval of the laboratory. Results only valid for sample received.



State of Maryland
Department of Health
Laboratories Administration
Division of Environmental Sciences
INORGANICS ANALYTICAL LABORATORY
1770 Ashland Avenue, Baltimore, Maryland 21205
Robert Myers, Ph.D., Director



Certificate of Analysis

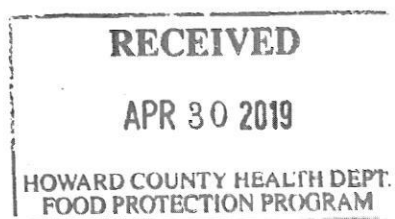
HOWARD CO ENVIRONMENTAL HLTH
8930 STANFORD BLVD
COLUMBIA, MD 21045

Lab Project NoE19003509 Date Coll. 04/18/2019 Date Received 04/18/2019 Submitted By:Shkylar

Field ID: HC11608
Lab No.: E19003509001

<u>Analyte</u>	<u>Method</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>
Nitrate + Nitrite, as N	EPA 353.2	0.54	mg N/L	04/25/2019
Turbidity	EPA 180.1	<0.5	NTU	04/19/2019

Comments:



Approved by: _____

Shakela Aneli

Approval date: 04/29/2019

*The following methods are included in our A2LA Scope of Accreditation: EPA150.1, EPA 353.2, EPA 375.2, SM4500F C, SM 4500-CN G & QCM-CN, QCM-CN. Samples are tested as received.

This document contains confidential health information that is privileged, confidential and exempt from disclosure under law. If you have received this information in error, please call (410) 767-6190 and arrange for return or destruction.

Telephone: (443) 681 - 3855

Fax: (443) 681 - 4507

S:\EnviroFinal-InorganicsA.rpt

E19003509001
Received: 04/18/2019
Inorganic HC11608

[illegible]

Date Reported _____

SEND REPORT TO:

State of Maryland
MDH - Laboratories Administration

Howard County Health Department
Bureau of Environmental Health

DIVISION OF ENVIRONMENTAL SCIENCES
1770 Ashland Avenue, Baltimore, MD 21205
Robert A. Myers, Ph.D. Director

PHONE NO.: 800-331-0000
Columbia, Maryland 21046
Category Code: 41F

MICROBIOLOGICAL ANALYSIS OF DRINKING WATER

Invoice No.: FCO P

Lab No.: 006922

FIELD RECORD

Sample Type:

- ☐ Community
☐ Transient
☐ Non-Transient
☒ Private
☐ Repeat Sample
☐ C.O.P
☐ Bottled Water
☐ OTHER:

Source Address: Lauren Schnitter, 11608 Quarterfield Rd

Sampling Site: POWDER ROOM

Bottle No.: HCH 608

Ice: Yes ☒ No ☐

Treated: Yes ☐ No ☐

County: HOWARD

Date Collected: 1/25/22

Time Collected: 11:00 ☒ am ☐ pm

Collector Name: B. Shklyar

Collector ID No.: 0120 BS

Collector Tel. No.: 410-313-1787

PWS ID No.:

Test Requested:

- ☒ Quantitative: Colilert-QT ☐ P/A: Colilert
☐ Heterotrophic Plate Count ☐ SimPlate
☐ Multiple Tube Fermentation: MTF
☐ Quantitative: Enterolert
☐ Other:

13

County

Plant No.

Sampling Station

68

pH

Res.Cl:

Free

Total

Total

Remarks:

LABORATORY RECORD (MDH Use Only)

Test Method(s): (check all that apply)

- ☐ SM 9223 Colilert ☐ SM 9223 Colilert-QT ☒ SM 9223 Colilert-18
☐ SM 9221B (MTF) ☐ SM 9221B, F (MTF) ☐ SM 9223 Colisure
☐ SM 9215B (HPC) ☐ Enterolert ASTM D6503-99 ☐ SimPlate
☐ Other:

Temperature Control:

0.8 °C

Thiosulfate:

- ☒ Present
☐ Absent
☐ Undetermined

P/A Test

100 mL Sample	(+/-)
Total Coliforms	
E. coli	
Enterococci	

Quantitative Test

Dilution: ☐ 1:10 ☐ 1:100 ☐ 1:1000

100 mL Sample	# Positive wells	MPN/100 mL
Total Coliforms	0	<1
E. coli	0	<1
Enterococci		

Heterotrophic Plate Count

Incubated 24, 48, 72hr @ 35°C

Plate A:

Plate B:

Average:

CFU/mL

MPN/mL

JAN 25 '22 PM 3:09

Received

JAN 25 '22 PM 3:30

Placed in Incubator

JAN 26 '22 AM 9:51

Results Read/Reported

Presumptive MTF Test

mL of Sample	10 mL
Gas/24h	
Gas/48h	

Confirmed MTF Test

mL of Sample	10 mL
Total Coliforms	
E. coli	

Specialized Testing Results:

MTF Results

No. of Positive (+)	MPN/100 mL	Recorded Value

Analyst: D. Pletcher 1-26-22

Reviewed by/Date: K. Jones 1/26/22

Remarks:

☐ Fax ☐ Email ☐ Phone

Laboratory:

☒ Central Lab (443) 681-3960 ☐ ESRL (410) 219-9005 ☐ WMRL (301) 759-5115

This report shall not be reproduced except in full without the written approval of the laboratory. Results only valid for sample received.

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

April 9, 2019

Homeowner
11608 Quarterfield Drive
Ellicott City, MD 21042

RE: **Replacement Well Sampling**
11608 Quarterfield Drive
#HO-18-0015

Dear Homeowner,

According to our records, your replacement well has been connected to the dwelling. We request that you contact the Community Hygiene Program at **(410) 313-1773** to schedule initial water sampling for the above referenced replacement well, as required by the Maryland Well Construction Regulation (*COMAR 26.04.04*). This sampling includes testing for bacteria, nitrates, turbidity, and sand. In addition, the well is located in a geologic formation in the County that may have higher levels of naturally occurring radioactive nuclides. We would also like to collect samples for overall gross alpha and gross beta particle activity. There is currently **no charge** for the sampling and it is to your benefit to have it tested.

Sampling of the new well should be collected from the primary indoor drinking tap, but if suitable scheduling is not possible, the sample may be taken from an outside tap to complete your sampling obligation. However, the potential for unsuccessful sample results increases when samples are collected from taps exposed to the outside environment.

The old well on the property (#HO-95-0455) must be abandoned and sealed by a licensed well driller per *COMAR 26.04.04.34*. A well not in use can contribute to pollution of groundwater and pose a risk to people drinking water in the area. The well driller completing the abandonment must submit documentation to the Health Department.

Feel free to contact me with any questions.

Sincerely,



Sarah Collins, L.E.H.S.
Howard County Health Department
Well & Septic Program
SCollins@howardcountymd.gov
410-313-6287

Cc: *Community Hygiene Program*
File

February 23, 2022

Lauren Schnitker
11608 Quarterfield Road
Ellicott City, MD 21042

RE: Replacement Well Water Sample Results – Post Water Softener and Neutralizer
11608 Quarterfield Road
HO-18-0015

Dear Ms. Schnitker

We have received the results from the testing of the water sample(s) taken from the above referenced property on January 25, 2022. A description of the results and the established standards for each test is included below. Standards such as maximum contaminant levels (MCL), secondary maximum contaminant levels (SMCL), and drinking water equivalency levels (DWEL) are established by the EPA and other agencies to provide a reference for determining when action should be taken. These standards help to improve the overall quality of your water or ensure that steps are taken to treat the water to prevent you and your family from getting sick. Typically, no water is completely free of contamination but you should be concerned if the level of contamination for a particular test exceeds the standard.

The results from the **Bacteria** testing found that your well water sampled from the powder room faucet contains no bacteria at this time and is considered safe for all uses. According to drinking water standards there should be no bacteria present.

A sample was collected to determine the levels of **Chlorides** in your water supply. The Chlorides level was **92** parts per million. The SMCL for Chlorides is 250 parts per million.

A sample was collected to determine the levels of **Dissolved Solids** in your water supply. The Dissolved Solids level was **331** parts per million. The SMCL for Dissolved Solids is 500 parts per million.

A sample was collected from to determine the levels of **Sodium** in your water supply. The Sodium level was **129.8** parts per million. The DWEL for Sodium is 20 parts per million.



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

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

Please contact the Health Department at (410) 313-1773 between 8:30 a.m. and 4:30 p.m., Monday through Friday if you have any questions regarding these test results.

Sincerely,

Ramar Martin, Program Supervisor
Community Hygiene Program

Enclosures

SEND REPORT TO:

Howard County Health Department

Bureau of Environmental Health

PHONE NO.:

Columbia, Maryland 21046

Category Code:

State of Maryland
MDH - Laboratories Administration

DIVISION OF ENVIRONMENTAL SCIENCES

1770 Ashland Avenue, Baltimore, MD 21205

Robert A. Myers, Ph.D. Director

MICROBIOLOGICAL ANALYSIS OF DRINKING WATER

Invoice No.:

FCOP

Lab No.:

006922

FIELD RECORD

Sample Type:

- ☐ Community
☐ Transient
☐ Non-Transient
☒ Private
☐ Repeat Sample
☐ C.O.P
☐ Bottled Water
☐ OTHER:

Source Address:

Lauren Schnitzer, 11608 Quartersfield Rd.

Sampling Site:

POWDER ROOM

Bottle No.:

HCH608

Ice: Yes ☒ No ☐Treated: Yes ☐ No ☐

County:

HOWARD

Date Collected:

1/25/22

Time Collected:

11:00

☐ am ☐ pm

Collector Name:

B. Schnitzer

Collector ID No.:

0120 BS

Collector Tel. No.:

410-313-1787

PWS ID No.:

Test Requested:

- ☒ Quantitative: Colilert-QT ☐ P/A: Colilert
☐ Heterotrophic Plate Count ☐ SimPlate
☐ Multiple Tube Fermentation: MTF
☐ Quantitative: Enterolert
☐ Other:

Remarks:

13

County

Plant No.

Sampling Station

68

pH

00

Res.Cl:

00

Free

00

Total

LABORATORY RECORD (MDH Use Only)

Test Method(s): (check all that apply)

- ☐ SM 9223 Colilert ☐ SM 9223 Colilert-QT ☒ SM 9223 Colilert-18
☐ SM 9221B (MTF) ☐ SM 9221B, F (MTF) ☐ SM 9223 Colisure
☐ SM 9215B (HPC) ☐ Enterolert ASTM D6503-99 ☐ SimPlate
☐ Other:

Temperature Control:

0.8 °C

Thiosulfate:

- ☒ Present
☐ Absent
☐ Undetermined

P/A Test

100 mL Sample	(+/-)
Total Coliforms	
E. coli	
Enterococci	

Quantitative Test

Dilution: ☐ 1:10 ☐ 1:100 ☐ 1:1000

100 mL Sample	# Positive wells	MPN/100 mL
Total Coliforms	0	<1
E. coli	0	<1
Enterococci		

Heterotrophic Plate Count

Incubated 24, 48, 72hr @ 35°C

Plate A:

Plate B:

Average:

CFU/mL

MPN/mL

HoCo Health Department

JAN 28 2022

Environmental Health

MTF Results

No. of Positive (+)	MPN/100 mL	Recorded Value

Presumptive MTF Test

mL of Sample	10 mL
Gas/24h	
Gas/48h	

Confirmed MTF Test

mL of Sample	10 mL
Total Coliforms	
E. coli	

Specialized Testing Results:

JAN 25 '22 3:09

Received

JAN 25 '22 3:30

Placed in Incubator

JAN 26 '22 9:51

Results Read/Reported

Analyst:

L. P. Jones 1-26-22

Reviewed by/Date:

R. Jones 1/26/22

Remarks:

☐ Fax ☐ Email ☐ Phone

Laboratory:

☒ Central Lab (443) 681-3960 ☐ ESRL (410) 219-9005 ☐ WMRL (301) 759-5115

This report shall not be reproduced except in full without the written approval of the laboratory. Results only valid for sample received.

Send Report To:

Howard County Health Department
Bureau of Environmental Health
330 Stanford Blvd.
Columbia, Maryland 21045

State of Maryland
MDH - Laboratories Administration
Division of Environmental Sciences
TRACE METALS LABORATORY
1770 Ashland Avenue
Baltimore, Maryland 21205

Lab No. Date Received

111501

Do not write above this line

LABORATORY ANALYSIS REQUEST

Please Print

Sample ID No: HC11608 Site Name: Lauren Schnitker County: Howard

Sample Source: 11608 Quaterfield Rd, E.C. Collector: B. Shklyar
Street Town or City Name

Date Collected: 1/25/2022 Time Collected: 11:00 a.m. Phone #: 410-313-1787

Sample Preserved By: ☒ Field ☐ ESRL ☐ WMRL ☐ Central Lab
Preservative Used: ☒ HNO₃ _____ mL pH: 6.8 pH: <2
(field use only) (lab use only)

Sample Type: ☒ Drinking Water ☐ Landfill ☐ Source (Raw Water) ☐ Liquid
Data Category: ☐ Community ☐ Stream ☒ Distribution (Treated) ☐ Solid
Code ☐ ☐ Non-Community ☐ Sediment ☐ Other _____
☒ Private

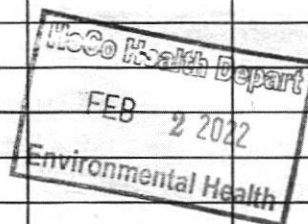
Specify Program: ☒ SDWA ☐ NPDES ☐ CWA ☐ RCRA ☐ Consumer Products ☐ Other _____

Type of Sample Preparation: ☐ Total Metals ☐ Total Metals TCLP ☐ Dissolved Metals
(field preparation required)

Remarks: Sample taken from powder room

*Place a ☒ by the element(s) requested for testing

<input checked="" type="checkbox"/>	Element	Lab Use	<input checked="" type="checkbox"/>	Element	Lab Use	<input checked="" type="checkbox"/>	Element	Lab Use
	Antimony (Sb)			Aluminum (Al)			Uranium (U)	
	Arsenic (As)			Calcium (Ca)			Vanadium (V)	
	Barium (Ba)			Cobalt (Co)			Zinc (Zn)	
	Beryllium (Be)			Copper (Cu)				
	Cadmium (Cd)			Iron (Fe)				
	Chromium (Cr)			Lead (Pb)				
	Mercury (Hg)			Magnesium (Mg)				
	Nickel (Ni)			Manganese (Mn)				
	Selenium (Se)			Molybdenum (Mo)				
<input checked="" type="checkbox"/>	Sodium (Na)	129.8 ppb		Potassium (K)				
	Thallium (Tl)			Silver (Ag)				



Lab Supervisor: Andriana Tura

Date Reported: 1/26/22

•Phone: (443) 681-4596

•Fax: (443) 681-4507

HoCo Health Depart
FEB 15 2022
Environmental Health

Rappaport, Ryan

From: Lauren Aimee Schnitker <lauren.schochor@gmail.com>
Sent: Monday, January 10, 2022 11:19 AM
To: tmctaggart@carrollwater.com
Cc: Lauren Aimee Schnitker
Subject: Fwd: Carroll Water System - incomplete and unapproved Howard County potable well with missing required data
Attachments: 11608 Quarterfield Rd Replacement Well 2019.pdf

[Note: This email originated from outside of the organization. Please only click on links or attachments if you know the sender.]

Hello Theresa:

The email from the HoCo Health Department is below. Ryan is a lovely gentleman, and has explained in detail what information is missing from the file on our well - that is required to confirm that our well meets the standards set forth in the MD environmental regulations. To date, our well is not in compliance.

You have assured me that the missing paperwork was, in fact, completed and submitted, and indicated that you will locate these files and produce them to the Howard County Health Department (and copy me). Ryan has indicated that, if he has not received copies of all of the outstanding data and reports by January 24, 2022, he will have no choice but to issue a Notice of Violation to CWS, and subsequently report CWS to the Board of Well Drillers - if the deficiencies remain uncured.

I was able to schedule water testing on my own, and have done so.

I will look forward to hearing from you as soon as possible.

Thank you for your assistance,

Lauren

Begin forwarded message:

From: "Rappaport, Ryan" <RRappaport@howardcountymd.gov>
Subject: Carroll Water System - incomplete and unapproved Howard County potable well with missing required data
Date: January 7, 2022 at 3:09:17 PM EST
To: "lauren.schnitker@gmail.com" <lauren.schnitker@gmail.com>

Hi Lauren, This is a scanned copy of the documents I was referring to. Please go through the whole package and take a look at my highlighted notes for a clear picture

of the incomplete job done by Carroll Water Systems. Items which are still required by the Maryland Dept of the Environment and Howard County Health Dept include;

1. Yield data/report for the new well ✓
2. Completion report for the new well ✓
3. Abandonment report for the old well.
4. Additional water sampling – sodium, chloride, TDS and a 2nd bacteria test
5. Well Line Inspection never completed and approved
6. No approved well line inspection – conduit missing and pitless depth
7. Well Line Inspection form not completed at all by Carroll Water System with all the required well construction and pump details
8. No inspection to verify that the pitless adapter was at or below the frost line (36" below grade)
9. No verification the well driller installed the well tag onto the outside of the well casing

I think that's it. If I missed anything we can figure that out when we start getting the required info from Carroll Water Systems. Good luck and please feel free to reach out with any questions. Happy weekend!!!

Ryan Rappaport, LEHS
Howard County Health Department
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, MD. 21045
Phone 410-313-1781
Fax 410-313-2648
rrappaport@howardcountymd.gov
www.co.ho.md.us



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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

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

September 20, 2019

Mr. and Mrs. Bryan Schnitker
11608 Quarterfield Road
Ellicott City, Maryland 21042

RE: Lot 11 Quarterfield S1
11608 Quarterfield Road
Ellicott City, Maryland 21042

Dear Mr. and Mrs. Schnitker:

Additional follow-up pre and post sampling was performed on August 19, 2019 and submitted to Florida Radiochemistry Services Laboratories to further assess the presence of **Gross Alpha**, **Gross Beta** along with **Radium 226/228** in your well water supply. This additional testing was also performed to evaluate the effectiveness of your reverse osmosis (R/O) treatment device(s).

Results from this long term pre-screening (sample collected from the water tank – prior to treatment) revealed a **Gross Alpha** of 13.4 ± 2.0 picocuries/liter (pCi/L), while the **Gross Beta** level was 15.2 ± 2.4 pCi/L. With the Margin of Error, the **Gross Alpha** result was just above its **maximum contaminant level (MCL)** of **15 pCi/L**, while the **Gross Beta** level was below its targeted standard of **50 pCi/L** (roughly equivalent to the **annual dose rate** of **4 millirems/year**).

Results from this long term post-screening (sample collected from the powder room – after R/O treatment) revealed a of 11.7 ± 2.6 pCi/L, while the **Gross Beta** level was 3.4 ± 1.5 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 standard of **50 pCi/L**.

Additionally, a post-treated **Radium 226 / 228** sample was collected from the powder room from the R/O device. These naturally occurring isotopes of radium are considered the most important due to their longer half-lives and health significance. Results from the post-treatment sample revealed a **Radium 226** level of 0.6 ± 0.2 pCi/L, while the **Radium 228** level was $< 0.7 \pm 0.5$ pCi/L. Here the **combined Radium 226 / 228** was well **below** the current **MCL** of **5pCi/L**.

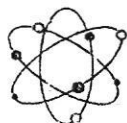
At the time of testing and with respect to these parameters, the **post treated** well water supply results is **within** EPA regulatory standards for the post **Gross Alpha** and **Gross Beta**, and readily **meets** EPA regulatory standards for **Radium 226 / 228**. The R/O treatment is effectively reducing these types of contaminants. Going forward, routine maintenance for the R/O device(s) should occur to help ensure acceptable post-treated levels.

A copy of the test report 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



Florida Radiochemistry Services, Inc.

Analysis Report

Lab Sample I.D.	1908197-01	1908197-02	1908197-03
Client I.D.	HC11608 - Pre	HC11608 - Post	HC11608 - Post
Gross Alpha	13.4	11.7	
Error +/-	2.0	2.6	
MDL	1.2	2.3	
EPA Method	900.0	900.0	
Prep Date	08/27/19	08/27/19	
Analysis Date	08/28/19	08/28/19	
Analyst	MJN	MJN	
Gross Beta	15.2	3.4	
Error +/-	2.4	1.5	
MDL	3.3	2.4	
EPA Method	900.0	900.0	
Prep Date	08/27/19	08/27/19	
Analysis Date	08/28/19	08/28/19	
Analyst	MJN	MJN	
Radium 226			0.6
Error +/-			0.2
MDL			0.1
EPA Method			903.1
Prep Date			08/27/19
Analysis Date			09/05/19
Analyst			MJN
Radium 228			<0.7
Error +/-			0.5
MDL			0.7
EPA Method			Ra-05
Prep Date			08/27/19
Analysis Date			09/04/19
Analyst			SN
Units	pCi/l	pCi/l	pCi/l

SEND REPORT TO:
Howard County Health Department
Bureau of Environmental Health
8930 Stanford Blvd.
Columbia, Maryland 21045

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

Lab No.

LABORATORY ANALYSIS REQUEST FORM

FedEx to FL 8/19/19

Plant/Site Name: Lauren Schmitt Key

County: Howard

Sample Source: 11608 QUARTERFIELD RD

Location:

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

Radon-222

Bottle A

HC 11608 POST

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 type="checkbox"/>
Distribution (treated)	<input checked="" 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:

BOLCSLOV SHKLYAR

Telephone No.:

410-913-1787

Date Collected:

8/19/19

Time Collected:

9:00 a.m. p.m.

Field pH:

7.0

Field Chlorine:

0.0

Nitric Acid Preserved:

Yes

☒

No

☐

Iced:

Yes

☐

No

☐

Remarks:

SAMPLES TAKEN FROM POWDER ROOM
OUT OF R/O SYS

<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						
<input checked="" type="checkbox"/>	Gross Beta	4100						
<input checked="" type="checkbox"/>	Radium-226	4020						
<input checked="" 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:

Received By:

Data Release Signature:

Date:

Lab Use Only	Yes	No	N/A
Sample Intact upon arrival?			
Sample pH <2.0?			
Received within holding time?			

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

SEND REPORT TO:

Howard County Health Department
Bureau of Environmental Health
 8930 Stanford Blvd.
 Columbia, Maryland 21045

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

Lab No.

LABORATORY ANALYSIS REQUEST FORM

Fed Ex to FL 8/24/19

Plant/Site Name: Lauren SchnitzerCounty: HowardSample Source: 11608 Quarterfield Rd

Location: _____

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

Radon-222

Bottle A HC 11608 PRE

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: 5Collector: Borislav ShklyarTelephone No.: 410-313-1787Date Collected: 8/19/19Time Collected: 9:00 a.m. _____ p.m.

Field pH: _____

Field Chlorine: 0.0Nitric Acid Preserved: Yes ☒ No ☐Iced: Yes ☐ No ☐Remarks: Sample taken from Water Tonic before water treatment

<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						
<input checked="" type="checkbox"/>	Gross Beta	4100						
<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: _____

Received By: _____

Data Release Signature: _____

Date: _____



Lab Use Only	Yes	No	N/A
Sample Intact upon arrival?			
Sample pH <2.0?			
Received within holding time?			

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

FORM REVISED 05/15
DHMH 4540 05/17

CUSTOMER COPY II

Chain of Custody

		Florida Radiochemistry Services, Inc.			FL Certification E83033			
		5456 Hoffner Ave., Suite 201 Orlando, FL. 32812						
		Ph. (407) 382-7733						
		Fax (407) 382-7744						
		Email: flradiochemistry@cfl.rr.com						
Company Name:		Howard County Health Dept			Phone # (410) 313-1773			
Address:		8930 Stanford Blvd.			Fax # (410) 313-2648			
City / State / Zip		Columbia, MD 20145						
Send Report to:		Bert Nixon, bnixon@howardcountymd.gov						
Additional Report:								
Invoice to:		Bert Nixon						
Project I.D.								
P.O. #								
Sample I. D.		Date / Time Sampled		Sample Type	# of Btls	Pres.	Analysis Requested	Remarks
(Sample Location)								
HC11608- Pre		8/19/2019		Raw	1	HNO3	Gross Alpha / Beta (Long Term)	
HC11608- Post		8/19/2019		Treat	1	HNO3	Gross Alpha / Beta (Long Term)	Post R/O
HC11608- Post		8/19/2019		Treat	1	HNO3	Radium 226/228	Post R/O
Relinquished by:		Date/Time		Sampled By:				
Received by: 		Date/Time 8/22/19 1:35 PM		Boleslav Shkylar 410-313-1787				

Chain of Custody



Florida Radiochemistry Services, Inc.
 5456 Hoffner Ave., Suite 201 Orlando, FL 32812
 Ph. (407) 382-7733
 Fax (407) 382-7744
 Email: flradiochemistry@cfl.rr.com

FL Certification E83033

Company Name:

Howard County Health Dept

Phone #

(410) 313-1773

Address:

8930 Stanford Blvd.

Fax #

(410) 313-2648

City / State / Zip

Columbia, MD 20145

Send Report to:

Bert Nixon, bnixon@howardcountymd.gov

Additional Report:

Invoice to:

Bert Nixon

Project I.D.

P.O. #

Sample I. D.

Date / Time Sampled

Sample # of

Pres.

Analysis

Remarks

(Sample Location)

Type

Btls

Requested

HC11608- Pre

8/19/2019

Raw

1

HNO3

Gross Alpha / Beta
(Long Term)

HC11608- Post

8/19/2019

Treat

1

HNO3

Gross Alpha / Beta
(Long Term)

Post R/O

HC11608- Post

8/19/2019

Treat

1

HNO3

Radium 226/228

Post R/O

Relinquished by:

Date/Time

Sampled By:

Received by: *(Signature)*

Date/Time

8/22/19 11:35 PM

Boleslav Shkylar

410-313-1787

(Signature)

8/22/19 12:40