

**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: Fogles Well Drilling LLC Telephone #: 410 795 6070
Address: PO Box 202
Woodbine, MD 21797

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

License # and name of individual responsible for the field installation:

Name (Print): David C Fogle License# MSD226

*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: Williamsburg Homes Telephone #: 410-977-3345
Subdivision: Preserves @ Clarksville Lot #: 29 Well Tag #: BO-95-0241N
Site Address: 6223 Heather Glen Way
Clarksville, MD

Submersible Pump Data

Make: Grundfos
Model #: 1550E07-140
Pump Capacity: 15 GPM
Well Yield: 10 GPM

Pitless Adapter

Make: Campbell
Model #: N/A
Depth: 36" (36" min)
NSF/WSC approved: YES

Well Cap and Electric Conduit

Two piece watertight cap: YES
Screened, vented well cap: YES
Cap secured to casing: YES
Conduit min 1 1/2" B.G.: YES

Depth of well encountered at time of pump installation: 200 (feet) Conduit secured to well cap: YES

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 N/A

Piping to house

Type: 1" poly pipe
PSI: 200 (160 psi min)
Depth of supply line: 36" (36" min)

House Connection

PVC sleeve to undisturbed soil at wall penetration: YES
Length of sleeve (5" minimum from foundation): 6'
Sleeve sealed properly: YES

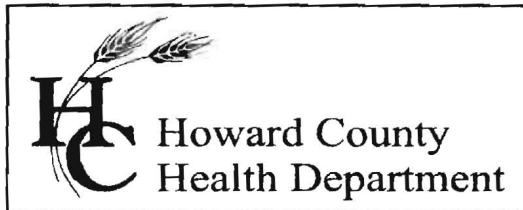
The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative responsible for installation: David Fogle date: 1/14/15

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

Date Insp. Requested: 1/14/15 Date Insp. Approved: 1/14/15 Inspector: SC

Inspection Date: Pitless adapter watertight & water supply line at least 36" below grade	<input checked="" type="checkbox"/>
Two piece cap installed and attached to casing securely	<input checked="" type="checkbox"/>
Elec. conduit extends at least 18" below grade/attached to cap properly	<input checked="" type="checkbox"/>
Safety rope not outside of well cap/casing	<input checked="" type="checkbox"/>
Correct well tag attached properly and casing 8" above finished grade	<input checked="" type="checkbox"/>
Water supply line sleeved adequately at house connection	<input checked="" type="checkbox"/>
Adequate grout observed below pitless adapter	<input checked="" type="checkbox"/>



Bureau of Environmental Health
7178 Columbia Gateway Drive, Columbia, MD 21046-2147
Main: 410-313-6300 | Fax: 410-313-6303
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
PERMANENT DEVIATION FOR RADIUM
Expiration Date – **SEPTEMBER 11, 2015**

March 11, 2015

Homeowner
6223 Heather Glen Way
Clarksville, MD 21029

RE: Preserve @ Clarksville, Lot 29
6223 Heather Glen Way
Building Permit: B14002413
Well Permit: HO-95-0241

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 **3/9/2015**. Final approval of the well line connection to the dwelling was granted on **1/14/2015**. The well construction was completed on **3/1/2006**. Water samples were collected on **2/13/2015**.

The water sample results indicate that the water samples submitted for testing were free of coliform and fecal coliform bacteria at the time of sampling and are bacteriologically safe for drinking.

Gross Alpha and Beta samples were also collected on **9/23/2014**. Results showed a Gross Alpha level of **66.2 ± 0 pCi/L** and **Gross Beta** level of **35.5 ± 0 pCi/L**. **This exceeds the maximum contaminant level (MCL) of 15 pCi/L and/or 50 pCi/L, respectively.**

After installation of a radionuclide removal device (water softener), post-treatment water samples were collected on **2/23/2015** and indicated a Gross Alpha level of **3.5 ± pCi/L**, a Gross Beta level of **14 ± pCi/L**, and a Radium 226/228 level of **2.0 ± 0 pCi/L**.

This Department will grant a **permanent deviation** to the Interim Certificate of Potability on condition that the radionuclide removal system effectively maintains a Gross Alpha level of less than **15 pCi/L**, a Gross Beta level of less than **50 pCi/L**, and a Radium 226/228 level of less than **5 pCi/L**.

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

1. The system must be properly operated and maintained continuously in accordance with the service contract for the life of the residence.

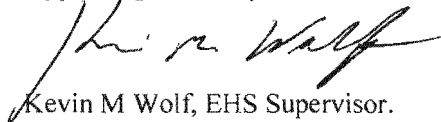
2. It is recommended that a Maryland certified water laboratory certified for radionuclide analysis perform a yearly radionuclide analysis.
3. If you decide to sell or rent your home in the future, you must make any potential buyer/tenant aware of this permanent deviation. **A person who fails to make 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 initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit HO-95-0241. 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 Maryland certified water quality laboratory to schedule a water sample. A list of laboratories certified by the state of Maryland may be found at the following website:
<http://www.mde.state.md.us/assets/document/WSP-Labs-2010apr16.pdf>

Approving Authority,



Kevin M Wolf, EHS Supervisor.
Environmental Health Specialist
Well & Septic Program

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

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Dreyfus Rd. Westminster, MD (410) 848-1014 (410) 876-6554 FAX (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #: 99183 Account #: 4470
 Reference: Preserve at Clarksville Lot 29 Company: Williamsburg Homes LLC
 Location: 6223 Heather Glen Way Requested By: Bob Corbett
 Clarksville, MD 21029 Source: Well Water
 Date/ Time Collected: 2/23/2015 1320 Site: Post Treatment Tap
 Date/Time Rec'd: 2/23/2015 1620 Treatment: Softener
 Chlorine ppm: Free: ND Total: ND pH: 6.1
 Collected By: C. Mooshian 7268CM Well #: HO-95-0241

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Radium-226	1.1	pCi/L	****	903.1	3/6/2015 / 1124 / MJN
Radium-228	0.9	pCi/L	****	Ra-05	3/5/2015 / 1327 / SN
Gross Alpha, Short Term	4	pCi/L	15	900.0	2/27/2015 / 0954 / MJN
Gross Beta, Short Term	12.6	pCi/L	50	900.0	2/27/2015 / 0954 / MJN
Gross Alpha, Long Term	3.5	pCi/L	15	900.0	3/5/2015 / 0656 / MJN
Gross Beta, Long Term	14	pCi/L	50	900.0	3/5/2015 / 0656 / MJN

NOTES

- 1 ****Radium 226 and Radium 228 combined have a reference of 5 pCi/L
- 2 Long Term Gross Alpha Detection Limit: 1.2 pCi/L; Long Term Gross Beta Detection Limit: 1.8 pCi/L
- 3 pCi/L = picocuries per liter
- 4 Radium 226 Detection Limit: 0.2 pCi/L; Radium 228 Detection Limit: 0.9 pCi/L
- 5 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 6 Short Term Gross Alpha Detection Limit: 0.9 pCi/L; Short Term Gross Beta Detection Limit: 1.8 pCi/L
- 7 Sub-contracted to Reference Lab #278
- 8 ND:None Detected
- 9 Visual well check: Sealed, vented cap
- 10 pH & Chlorine level tested on site

Reason for Test : HoCHDDate Reported: 3/7/2015

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Taneytown Rd. Westminster, MD (410) 848-1014 (410) 876-4554 FAX (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #: 96366 Account #: 4470
Reference: Preserve at Clarksville Lot 29 Company: Williamsburg Homes LLC
Location: 6223 Heather Glen Way Requested By: Bob Corbett
Clarksville, MD 21029 Source: Well Water
Date/ Time Collected: 9/23/2014 1056 Site: Pump Discharge
Date/Time Rec'd: 9/23/2014 1400 Treatment: None
Chlorine ppm: Free: ND Total: ND pH: 5.9
Collected By: C. Holland 0547CH Well #: HO-95-0241

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Gross Alpha, Short Term	66.2	pCi/L	15	900.0	9/25/2014 / 0647 / MJN
Gross Beta, Short Term	35.5	pCi/L	50	900.0	9/25/2014 / 0647 / MJN
Radium-226	1.8	pCi/L	****	903.1	10/1/2014 / 0959 / MJN
Radium-228	7.8	pCi/L	****	Ra-05	10/1/2014 / 1027 / SN
Gross Alpha, Long Term	32.7	pCi/L	15	900.0	9/30/2014 / 0656 / MJN
Gross Beta, Long Term	25.5	pCi/L	50	900.0	9/30/2014 / 0656 / MJN

NOTES

- ****Radium 226 and Radium 228 combined have a reference of 5 pCi/L
- Long Term Gross Alpha Detection Limit: 1.6 pCi/L; Long Term Gross Beta Detection Limit: 2.3 pCi/L
- pCi/L = picocuries per liter
- Radium 226 Detection Limit: 0.1 pCi/L; Radium 228 Detection Limit: 0.8 pCi/L
- Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- Short Term Gross Alpha Detection Limit: 1.4 pCi/L; Short Term Gross Beta Detection Limit: 2.0 pCi/L
- ND:None Detected
- Visual well check: Sealed, vented cap
- pH & Chlorine level tested on site

Reason for Test : HoCHD

Date Reported: 10/10/2014

FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

1413 Old Lanevova Rd. Westminster, MD 21157-1014 (410) 878-4554 FAX (410) 848-0298

REPORT OF ANALYSIS

Laboratory ID #: 98950 Account #: 4470
 Reference: Preserve at Clarksville Lot 29 Company: Williamsburg Homes LLC
 Location: 6223 Heather Glen Way Requested By: Bob Corbett
 Clarksville, MD 21029 Source: Well Water
 Date/ Time Collected: 2/13/2015 1215 Site: Pressure Tank
 Date/Time Rec'd: 2/13/2015 1355 Treatment: None
 Chlorine ppm: Free: ND Total: ND pH: 6.6
 Collected By: B. Dutterer 4717BD Well #: HO-95-0241

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	2/14/2015 / 0930 / CCH
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM18 9223	2/14/2015 / 0930 / CCH
Nitrate	8.89	mg/L	10	601	2/13/2015 / 1520 / BCD
Turbidity	4.19	NTU	<10	SM18 2130B	2/13/2015 / 1520 / BCD
Sand	NS	mg/L	5	Visual/Gravimetric	2/13/2015 / 1520 / BCD

NOTES

- 1 mg/L = milligrams per liter (also, parts per million)
- 2 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 3 NS = None Seen (NS indicates less than 5 mg/L)
- 4 NTU = Nephelometric Turbidity Units
- 5 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 6 ND:None Detected
- 7 Visual well check: Sealed, vented cap
- 8 pH & Chlorine level tested on site

Reason for Test : Use & Occupancy

Building Permit # : B14002413

Date Reported: 2/16/2015



Fredericktowne Labs Inc.

ENVIRONMENTAL TESTING

3020 Ventrie Court * P.O. Box 245 * Myersville, MD 21773 * 301-293-3340 * Fax 301-293-3266
 www.fredericktownelabs.com * info@fredericktownelabs.com

Analysis Results

Account No.: 8933 - 1-1

Lot 29
 Williamsburg Homes
 Heathers Glen Way
 Clarksville, MD


Date Received: Friday, March 21, 2014
 Collected By: Jessica Fogle
 Fogle's Well Drilling & Pumps
 Date Reported: Tuesday, April 01, 2014

Matrix: Drinking Water

Lab#	Parameter	Result	Limit of Detection	Method	Start		End		Analyst
					Date	Time	Date	Time	
Source: - Directly from Well Type: Grab Collection Date: 3/20/2014 - 10:30									
8933-1-1-1	Gross Alpha & Beta	See Report							CP

Notes:

1. mg/l stands for milligrams per liter and is nearly synonymous with parts per million
2. ug/l stands for micrograms per liter and is nearly synonymous with parts per billion
3. < stands for "less than" and indicates that the component in question was not detected (i.e. was less than the detection limit)
4. All analyses performed using EPA accepted methods in accordance with Title 40 Code of Federal Regulations Part 141 & 143. Method references: (1) Methods for the Chemical Analysis of Water & Wastewater EPA-600/4-79-020, (2) Standard Methods for the Examination of Water & Wastewater - AWWA 18th ed.
5. "*" denotes an analysis that was subcontracted to a State of Maryland approved lab.
6. Information concerning field pH and chlorine for bacteriological samples may be found on the chain of custody form.

Verified by: 
 M. L. Miller, Ph.D.
 Laboratory Director

Fredericktowne Labs is a State Certified Water Quality Laboratory
 MD Cert. No.: 116 VA Cert. No.: 444
 MDOT WBE Cert. No.: 91-158

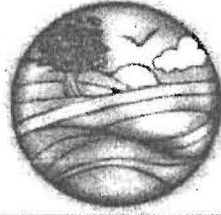
Fredericktowne

ENVIRONMENTAL
TESTING

MD: 116

VA: 141 / WV: 9924-M

Labs Inc.



BENCHMARK
ANALYTICS

Center Valley, PA
NELAP Certified PA-DEP: 38-00401
NJ: PA028 • NY: 11827 • MD: 318 • WV: 9953-G
Sayre, PA
NELAP Certified PA-DEP: 08-00380
NJ: PA038 • NY: 11216 • MD: 313

Fredericktowne Labs, Inc. ■ 3020 Ventrie Court ■ P.O. Box 245 ■ Myersville, MD 21773 ■ www.fredericktownelabs.com
301-293-3340 ■ 301-694-7133 ■ FAX 301-293-2386 ■ info@fredericktownelabs.com

TEST REPORT 14033560

8933-1-1, Lot 29, Heathers Glen Way, Clarksville

Page 1 of 1

SAMPLE: 8933-1-1-1, Directly From Well

Lab ID: 14033560-001

SAMPLED BY: J. Fogle

Sample Time:

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
FieldSampler	J. Fogle	Field Parameters				
SampTech	G	Field Parameters				

SAMPLE: 8933-1-1-1, Directly From Well

Lab ID: 14033560-001A

SAMPLED BY: J. Fogle

Sample Time: 03/20/2014 10:30

Grab

Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Gross Alpha	2.25 pCi/L	EPA 900.0		03/26/14 11:40	03/31/14	CP-CV
Gross Beta	5.69 pCi/L	EPA 900.0		03/26/14 11:40	03/31/14	CP-CV

REMARKS:

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of NELAP unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

MANAGER

Fiona Adamsky
Fiona Adamsky, Division Manager

DATE: 4/1/2014