

C1 60030 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 571472

ST/CO USE ONLY DATE RECEIVED 04/21/22

DATE WELL COMPLETED 7-26-2022 APPROVED 5/13/22 (S) Depth of Well 390 (TO NEAREST FOOT)

PERMIT NO. FROM "PERMIT TO DRILL WELL" 40-20-0163

OWNER Phillips Gregory WELL SITE ADDRESS 2896 Oakway Dr TOWN Ellicott City SUBDIVISION Green Hange SECTION LOT Parcel 314

WELL LOG Not required for driven wells

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

Table with columns: DESCRIPTION, FEET (FROM, TO), check if water bearing. Includes entries for Clay, sandstone, gray mica, and water at 17ft and 200ft.

GROUTING RECORD WELL HAS BEEN GROUTED (Y/N) TYPE OF GROUTING MATERIAL (Cement, Bentonite Clay)

NO. OF BAGS 17 NO. OF POUNDS 1316 GALLONS OF WATER 84 DEPTH OF GROUT SEAL (to nearest foot) from 0 to 40

CASING RECORD casing types insert appropriate code below (ST, CO, PL, OT)

MAIN CASING TYPE ST Nominal diameter top (main) casing (nearest inch)! 6 Total depth of main casing (nearest foot) 42

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

SCREEN RECORD screen type or open hole (ST, BR, HO, PL, OT)

NUMBER OF UNSUCCESSFUL WELLS: 0

WELL HYDROFRACTURED (Y/N)

CIRCLE APPROPRIATE LETTER A WELL WAS ABANDONED AND SEALED WHEN THIS WELL WAS COMPLETED

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

DRILLERS LIC. NO. 1 M 5 D 027 DRILLERS SIGNATURE (MUST MATCH SIGNATURE ON APPLICATION) LIC. NO. 1 D

DEPTH (nearest ft.)

Table with columns: E A C H S R E N and rows for casing and screen data.

DIAMETER OF SCREEN (NEAREST INCH) 56 to 60

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

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

PUMPING TEST

HOURS PUMPED (nearest hour) 3

PUMPING RATE (gal. per min.) 15

METHOD USED TO MEASURE PUMPING RATE Built

WATER LEVEL (distance from land surface)

BEFORE PUMPING 15 ft.

WHEN PUMPING 131 ft.

TYPE OF PUMP USED (for test) A air, P piston, T turbine, C centrifugal, R rotary, O other, J jet, S submersible

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

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

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

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

PUMP HORSE POWER 37 to 41

PUMP COLUMN LENGTH (nearest ft.) 43 to 47

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

LATITUDE 39 29 157 LONGITUDE 76 22 9 54 (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.

B 1 64984

SEQUENCE NO. (MDE USE ONLY)

STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL

STATE PERMIT NUMBER

HO-20-0163

571472 please type

fill in this form completely

Date Received (APA)

OWNER INFORMATION

Phillips Gregory 7846 River Rock Way Columbia Md 21044

B 3

LOCATION OF WELL

Howard Green Hange Ellicott City

DRILLER INFORMATION

Jerry Mape M SD 027 Mape Well Drilling LLC 6501 Beech Hill Rd Mt. Airy MD 3-25-2022

B 4

SOURCES OF DRILLING WATER

1. Well 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.

2846 Ordway Dr

ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)

100 ft DISTANCE FROM ROAD

TAX MAP: 16 BLK: PARCEL 314

B 2 WELL INFORMATION

APPROX. PUMPING RATE (GAL. PER MIN.)

5 500 12

AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY)

14 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)

- DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION
FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)
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 STATE SIGNATURE DATE ISSUED 04/01/2022

APPROXIMATE DEPTH OF WELL 300 FEET

APPROXIMATE DIAMETER OF WELL 6 INCH

METHOD OF DRILLING (circle one)

- BORED (or Augered) JETTED Jetted & DRIVEN
AIR-ROTary AIR-PERCussion ROTARY (Hydraulic Rotary)
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
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)

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

APPROX. PERMIT NUMBER

HO-20-0163

SPECIAL CONDITIONS

RADIUM SAMPLE AT YIELD

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

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.







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

**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: All Around Plumbing, Inc Telephone #: 301-698-1028  
 Address: 530 E. Church St.  
 Frederick, MD 21701 mailing address: PO Box 3596 Frederick, MD 21705

Must circle one: Licensed Plumber / Licensed Well Driller / Licensed Well Pump Installer  
 License # and name of individual responsible for the field installation:  
 Name (Print): James B. Madden - plumber License# 18121- State of Maryland  
 \*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: Samuel and Mawiha Onyewu Telephone #: 301-698-1028 - plumber's office phone  
 Subdivision: West Friendship Lot #: 314 Well Tag #: HO - 20 - 0163  
 Site Address: 2896 Ordway Drive, Ellicott City, MD 21042

**Submersible Pump Data**

Make: Goulds  
 Model #: 5GS10422C 2W GS  
 Pump Capacity: 5 GAL  
 Well Yield: 15

**Pitless Adapter**

Make: BOSHART +  
 Model#: P-100-SS  
 GPM Depth: 48" (36" min)  
 GPM 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 18" B.G.: 6"  
 Conduit secured to well cap: YES

Depth of well encountered at time of pump installation: 390 (feet)  
 If pump capacity exceeds well yield, a low water cut off switch is required by NSPC 1990 Section 17.8.4

Must circle one: Torque arrestors / Cable guards / Other acceptable method used  
 Safety rope, if used, attached to brass rope adapter or other acceptable method inside of well casing YES

**Piping to house**

Type: POLY  
 PSI: 200 (160 psi min)  
 Depth of supply line: 390 (36" min)

**House Connection**

PVC sleeve to undisturbed soil at wall penetration: YES  
 Length of sleeve (5' minimum from foundation): 5 FT  
 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.

James B. Madden 05/10/2024  
 Signature of company representative responsible for installation date

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

Date Insp. Requested: 5/10/2024 Date Insp. Approved: 5/10/24 Inspector: SP  
 Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade ✓ 36"-48"  
 Two piece cap installed and attached to casing securely ✓  
 Elec. conduit extends at least 18" below grade/attached to cap properly ✓ 34"  
 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 ✓

5/10/24 - well line installed next to driveway. line sleeved under storm & under driveway closer to house. well line out to backfill. (SP)

(Revised form 10/24/2018)

## INTERIM CERTIFICATE OF POTABILITY

Expiration Date – April 15, 2025

October 15, 2024

Homeowner  
2896 Ordway Drive  
Ellicott City, MD 21042

**RE: Onyewu Property, P. 314**  
**2896 Ordway Dr.**  
**Building Permit: B23003878**  
**Well Permit: HO-20-0163**

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 **9/25/2024**. Final approval of the well line connection to the dwelling was granted on **5/10/2024**. The well construction was completed on **4/26/2022**. Water samples were collected on **9/5/2024, 9/26/2024, 9/19/2024**.

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.

Radium samples were also collected on **9/5/2024**. Results showed a combined level of Radium 226/228 **4.2 ± 1.1 pCi/L**. The combined level of Radium 226/228 was below the maximum contaminant level (MCL) of 5 pCi/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-20-0163. 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  
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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 Environment website which elaborates in further detail operation and maintenance of your Septic System.

Approving Authority,

A handwritten signature in black ink, appearing to read 'Kevin M. Wolf', is written over a light blue horizontal line.

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

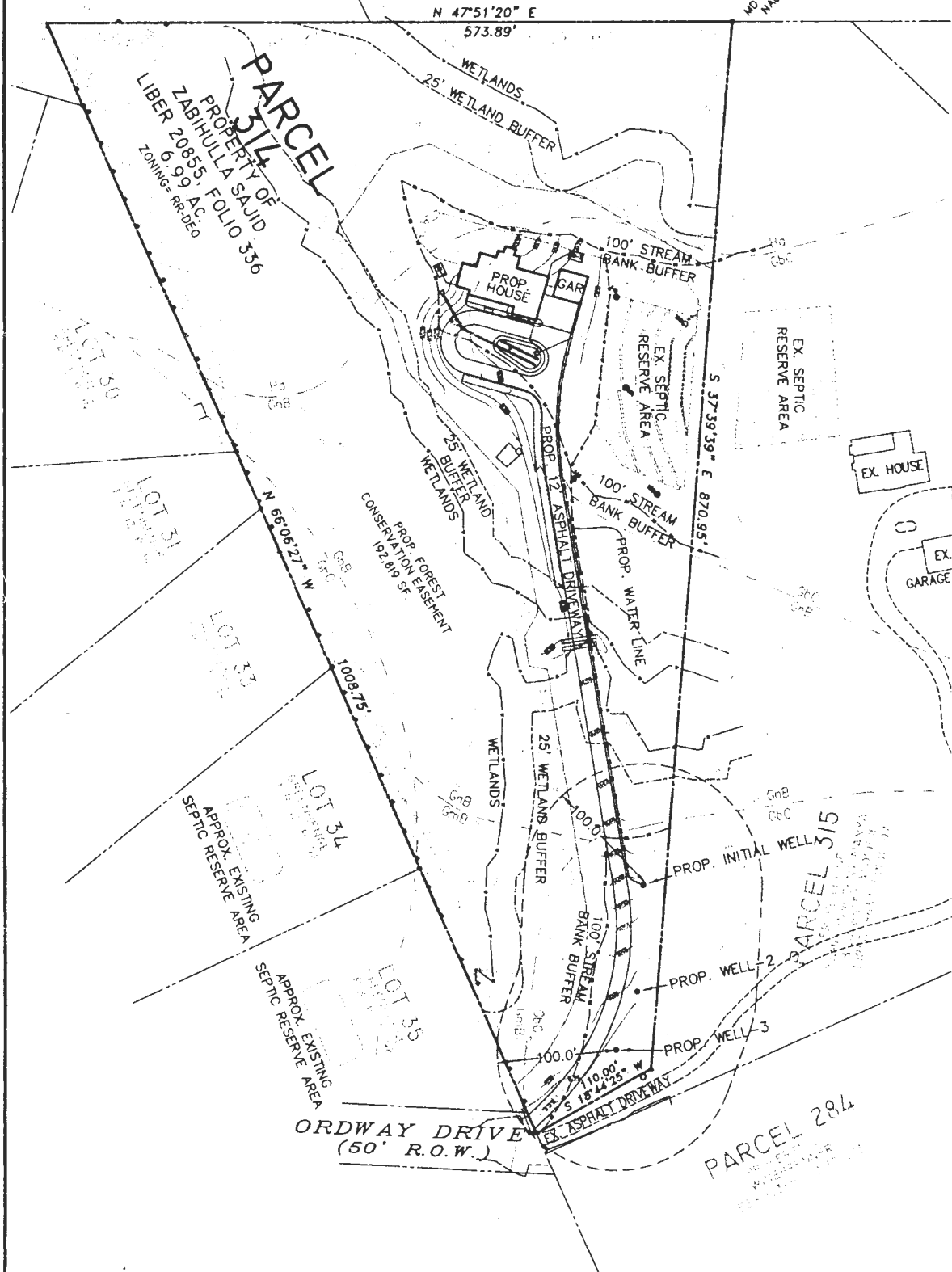
PARCEL 317

PROJECT OF  
KORSAK  
REP. TRACT 1000-1-A-1

PARCEL 87

PROJECT OF  
STURGEON  
LITER 1668-10-0-1-1-1

MD STATE PLANE  
NO. 83,791



WELL STAKEOUT EXHIBIT-A

**PARCEL 314**

TAX MAP 16, GRID.19  
LIBER 20855, FOLIO 336  
N ORDWAY DRIVE  
ELLICOTT CITY, MARYLAND 21042  
5TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

DESIGNED BY:	NJ
CHECKED BY:	WR
SCALE:	1" = 100'
DATE:	MARCH 8, 2020
PROJECT No.	3665
SHEET:	1 OF 1

PREPARED BY:



**NJR & ASSOCIATES, LLC.**  
LAND SURVEYING AND PLANNING  
2770 TERRAPIN RUN  
WEST FRIENDSHIP, MD 21794  
TEL: (240) 508-3200



# FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

## REPORT OF ANALYSIS

Laboratory ID #: 168509 Account #: 1045  
Reference: Caruso Homes Client: Atlantic Blue Water Services  
Location: 2896 Ordway Drive Requested By: Mark Mather  
Ellicott City, MD 21042 Source: Well Water  
Date/ Time Collected: 9/5/2024 1152 Site: Well Tank  
Date/Time Rec'd: 9/5/2024 1329 Treatment: None  
Chlorine ppm: Free: ND Total: ND pH: 7.0  
Collected By: E. Van Allen 1560EV Well #: HO-20-0163

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Bacteria, Coliform, Total, MPN	>200.5	MPN/ 100 ml	<1.0	SM20 9223B	9/6/2024 / 1000 / KDR
Bacteria, E. coli, MPN	<1.0	MPN/ 100 ml	<1.0	SM20 9223B	9/6/2024 / 1000 / KDR
Nitrate.	<0.40	mg/L (as N)	10	EPA 300.0	9/6/2024 / 0443 / CRS
Nitrite.	<0.10	mg/L (as N)	1	EPA 300.0	9/4/2024 / 0443 / CRS
Turbidity	12.0	NTU	<10	SM2130B	9/6/2024 / 0915 / KDR
Iron	1.67	mg/L	0.3*	Hach 8146	9/6/2024 / 0930 / KDR

### NOTES:

- 1 Revised Report at request of client to correct Well #- 9/27/2024 CRS
- 2 \*SMCL = Secondary Maximum Contaminant Level
- 3 mg/L = milligrams per liter (also, parts per million)
- 4 MPN/ 100 ml = Most Probable Number [of viable bacteria] per 100 ml of sample.
- 5 NTU = Nephelometric Turbidity Units
- 6 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
- 7 Sample collected by client, analyzed as received
- 8 Sample submitted for analysis was above the recommended temperature 2-6 Centigrade.
- 9 Sample submitted for bacteria analysis was above the recommended temperature  $\leq$  10 Centigrade.
- 10 Temperature of samples when received at Fountain Valley Lab: 12.6 degrees Centigrade
- 11 ND:None Detected
- 12 Visual well check: Sealed, vented cap
- 13 pH and Chlorine level tested in lab (pH tested after recommended holding time)

Reason for Test : Use & Occupancy

Date Reported: 9/27/2024

Atlantic Blue  
1802 Baltimore Blvd.  
Westminster, MD 21157

Reporting Date: 9/20/2024  
Report #: AB2409-10

Submitted Sample Address: Caruso Homes  
2896 Ordway Drive  
Ellicott City, MD 21042

Submitted Sample Source: Well Tank

Date / Time Collected: 9/19/2024 12:30 PM

Sample Type: Drinking Water

Field Record: Chlorine residual: Absent

Sampler/Company: Quentin Oliver 3414QO, Atlantic Blue

Well Tag#: HO-20-0163

## Analytical Results

Parameter	Result	Units	Report Limit	Standard	Standard Type
Total Coliform Bacteria	Absent	Coliforms/100 ml	Present/Absent	Absent	EPA Primary MCL
<i>E. Coli</i> Bacteria	Absent	Coliforms/100 ml	Present/Absent	Absent	EPA Primary MCL

### Notes:

- Bacteriological analysis of this sample indicates this water is  safe for human consumption.
- Results in **BOLD** exceed the MCL, Action Level or MD well regulation.
- Samples received and examined within EPA's recommended holding times.
- MCL – Maximum Contaminant Level
- ND – Not Detected.
- MCL Type –
  - EPA Primary:** The maximum contaminant level which is the highest level of contaminant that is allowed in drinking water. Primary MCLs are enforceable standards.
  - EPA Secondary:** Non enforceable guidelines regulating contaminants that cause cosmetic effects (such as skin or tooth discoloration) or aesthetic effects (such as taste or odor) in drinking water.
  - Action Level:** Defined in treatment techniques which are required processes intended to reduce the level of a contaminant in drinking water.
- We certify that the analyses performed for this report are accurate, and that the laboratory tests were conducted by methods approved by the US Environmental Protection Agency and the Maryland Department of the Environment.

Reported by,

*C. Rodgers*

C. Rodgers, Laboratory Manager, Microbiology

# FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

## REPORT OF ANALYSIS

Laboratory ID #: 169147 Account #: 1045  
Reference: Caruso Homes Client: Atlantic Blue Water Services  
Location: 2896 Ordway Drive Requested By: Mark Mather  
Ellicott City, MD 21042 Source: Well Water  
Date/ Time Collected: 9/26/2024 1030 Site: Kitchen Sink Tap  
Date/Time Rec'd: 9/26/2024 1248 Treatment: Softener/Sediment Filter  
Chlorine ppm: Free: ND Total: ND pH: 7.6  
Collected By: E. Van Allen 1560EV Well #: HO-20-0163

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Turbidity	1.57	NTU	<10	SM2130B	9/26/2024 / 1525 / KDR
Iron	0.16	mg/L	0.3*	Hach 8146	9/26/2024 / 1540 / KDR

### NOTES:

- 1 \*SMCL = Secondary Maximum Contaminant Level
- 2 Chlorine level tested on site
- 3 mg/L = milligrams per liter (also, parts per million)
- 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 and Chlorine level tested in lab (pH tested after recommended holding time)

Reason for Test : Use & Occupancy

Date Reported: 9/27/2024

# FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

## REPORT OF ANALYSIS

Laboratory ID #: 168511 Account #: 1045  
Reference: Caruso Homes Client: Atlantic Blue Water Services  
Location: 2896 Ordway Drive Requested By: Mark Mather  
Ellicott City, MD 21042 Source: Well Water  
Date/ Time Collected: 9/5/2024 1152 Site: Well Tank  
Date/Time Rec'd: 9/5/2024 1329 Treatment: None  
Chlorine ppm: Free: ND Total: ND pH: 7.0  
Collected By: E. Van Allen 1560EV Well #: HO-20-0163

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Gross Alpha, Short Term	8.4	pCi/L	15	900.0	9/7/2024 / 0548 / MJN
Gross Beta, Short Term	7.8	pCi/L	50	900.0	9/7/2024 / 0548 / MJN
Radium-226	2.1	pCi/L	****	903.0	9/17/2024 / 0625 / MJN
Radium-228	2.1	pCi/L	****	Ra-05	9/16/2024 / 1044 / MJN

### NOTES:

- 1 Revised Report at request of client to correct Well #- 9/27/2024 CRS
  - 2 \*\*\*\*Radium 226 and Radium 228 combined have a reference of 5 pCi/L
  - 3 Gross Alpha Detection Limit: 0.9 pCi/L; Gross Alpha Error: +/- 1.3 pCi/L
  - 4 Gross Beta Detection Limit: 1.0 pCi/L; Gross Beta Error: +/- 0.8 pCi/L
  - 5 pCi/L = picocuries per liter
  - 6 Radium 226 Detection Limit: 0.2 pCi/L; Radium 226 Error: +/- 0.6 pCi/L; Chemical Yield: 0.9336
  - 7 Radium 228 Detection Limit: 0.6 pCi/L; Radium 228 Error: +/- 0.5 pCi/L
  - 8 Results less than or within the reference range are considered satisfactory and within potable water limits at the time of sampling.
  - 9 Sample collected by client, analyzed as received
  - 10 Sub-contracted to Reference Lab #278
  - 11 ND:None Detected
  - 12 Visual well check: Sealed, vented cap
  - 13 pH and Chlorine level tested in lab (pH tested after recommended holding time)
- Reason for Test : Use & Occupancy

Date Reported: 9/27/2024

# FOUNTAIN VALLEY ANALYTICAL LABORATORY, INC.

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

## REPORT OF ANALYSIS

Laboratory ID #:	168510	Account #:	1045
Reference:	Caruso Homes	Client:	Atlantic Blue Water Services
Location:	2896 Ordway Drive Ellicott City, MD 21042	Requested By:	Mark Mather
Date/ Time Collected:	9/5/2024 1152	Source:	Well Water
Date/Time Rec'd:	9/5/2024 1329	Site:	Well Tank
Chlorine ppm:	Free: ND Total: ND	Treatment:	None
Collected By:	E. Van Allen 1560EV	pH:	NT
		Well #:	HO-20-0163

PARAMETERS	RESULTS	UNITS	REFERENCE	METHOD	DATE/TIME/ANALYST
Lead	<0.005	mg/L	0.015	SM3113-B	9/11/2024 / 1531 / KMW

### NOTES:

- 1 Revised Report at request of client to correct Well #- 9/27/2024 CRS
- 2 Lead Action Level is 0.015 parts per million. The action level is the concentration, if exceeded, that triggers remediation.
- 3 Lead collected as a 1st draw sample
- 4 Lead Detection Limit: 0.005 mg/L
- 5 mg/L = milligrams per liter (also, parts per million)
- 6 Sample collected by client, analyzed as received
- 7 Sub-contracted to Reference Lab #116
- 8 ND:None Detected; NT: Not Tested
- 9 Visual well check: Sealed, vented cap
- 10 pH and Chlorine level tested in lab (pH tested after recommended holding time)

Reason for Test : Client's Information

Date Reported: 9/27/2024

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

June 10, 2022

Gregory Phillips  
2896 ORDWAY DR  
ELLCOTT CITY, MD 21042

**RE: 2896 ORDWAY DR**  
**ELLCOTT CITY, MD 21042**  
**Well Tag: HO-20-0163 (New Well)**

Dear Gregory Phillips;

A yield test sample was collected on April 26, 2022 and submitted to the Maryland Department of Health Laboratories to assess the possible presence of **Gross Alpha** and **Gross Beta** in the 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 the test screening revealed a **Gross Alpha** of **24.0 ± 3.4 picocuries/liter (pCi/L)**, while the **Gross Beta** level was **13.0 ± 2.4 pCi/L**. The **Gross Alpha** result was above the **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**).

In addition, on the same laboratory result slip, a second lab analysis shows a **Gross Alpha** of **21.6 ± 3.2 picocuries/liter (pCi/L)**, while the **Gross Beta** level was **13.4 ± 2.3 pCi/L**.

At the time of testing and with respect to the initial test and second lab analysis results, your “untreated” well water supply **does not meet** EPA regulatory standards for **Gross Alpha** and **Gross Beta**. Given these result readings, some additional testing to further evaluate Gross Alpha, Gross Beta and Radium 226/228 is required. Additional **Gross Alpha** and **Gross Beta (long-terms)** as well as **Radium 226/228** tests are needed to properly evaluate the **Gross Alpha** and **Gross Beta** presence in the well water supply.

A copy of the test results is enclosed for your information. Please call this office at **410-313-6287** to schedule the additional testing **free of charge**. If you have any general questions about this new well, please contact the Well & Septic Program at **410-313-1771** or **410-313-2645**.

Sincerely,



Ramar Martin, Program Supervisor  
Bureau of Environmental Health

Enclosure

cc: Property file, Well & Septic Program

SEND REPORT TO:

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

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

Lab No.   
EPA 2000-1278

LABORATORY ANALYSIS REQUEST FORM

Plant/Site Name: 2896 Ordway Drive County: Howard

Sample Source: \_\_\_\_\_ Location: HO-20-0163  
(Well no., lab sink, sample tap, etc.)

~~Radium~~ Radon-222 Bottle A HOST 0163RA 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: 4 F Federal Project: \_\_\_\_\_

Collector: Susan Thomas Telephone No.: 410-313-6287

Date Collected: 4/26/22 Time Collected: 10:35 a.m. \_\_\_\_\_ p.m.

Field pH: 8.0 Field Chlorine: neg

Nitric Acid Preserved: Yes  No  Iced: Yes  No

Remarks: collected at end of yield ; new construction

TEST	EPA Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Date Reported
<input checked="" type="checkbox"/> Gross Alpha	4000	2000	EM9000	24.0 ± 3.4	4/28/22	F.K.	4/29/22
<input checked="" type="checkbox"/> Gross Beta	4100	2000	EM9000	15.0 ± 2.4	4/28/22	F.K.	4/29/22
<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"/> Gross Alpha	4000	2050	EM9000	21.6 ± 3.2	4/28/22	F.K.	4/29/22
<input type="checkbox"/> Gross Beta	4100	2000	EM9000	13.4 ± 2.3	4/28/22	F.K.	4/29/22

Date Received: 04/27/22 Received By: ASimit  
Data Release Signature: \_\_\_\_\_ Date: 4/29/22

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:

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

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

Lab No.

5001589279

LABORATORY ANALYSIS REQUEST FORM

Plant/Site Name: 2896 Ordway Drive

County: Howard

Sample Source: \_\_\_\_\_

Location: \_\_\_\_\_

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

Radium  
Radon-222 Field Blank

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

Bottle A HOST 0163 FB  
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: 4 F

Federal Project:

Collector: Susan Thomas

Telephone No.: 410-313-6287

Date Collected: 4/26/22

Time Collected: 9:40 a.m. \_\_\_\_\_ p.m.

Field pH: 6.0

Field Chlorine: neg

Nitric Acid Preserved: Yes  No

Iced: Yes  No

Remarks: collected at end of yield; new construction

TEST	EPA Code	Lab No.	Method No.	Results (pCi/L)	Date Analyzed	Analyst	Date Reported
<input checked="" type="checkbox"/> Gross Alpha	4000	1999	EP149000	22	4/15/22	F.K	4/29/22
<input checked="" type="checkbox"/> Gross Beta	4100	1999	EP149000	24	4/15/22	F.K	4/29/22
<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: 04/27/2022

Received By: ASLinit

Data Release Signature: Michelle Tinea

Date: 4/29/22

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

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

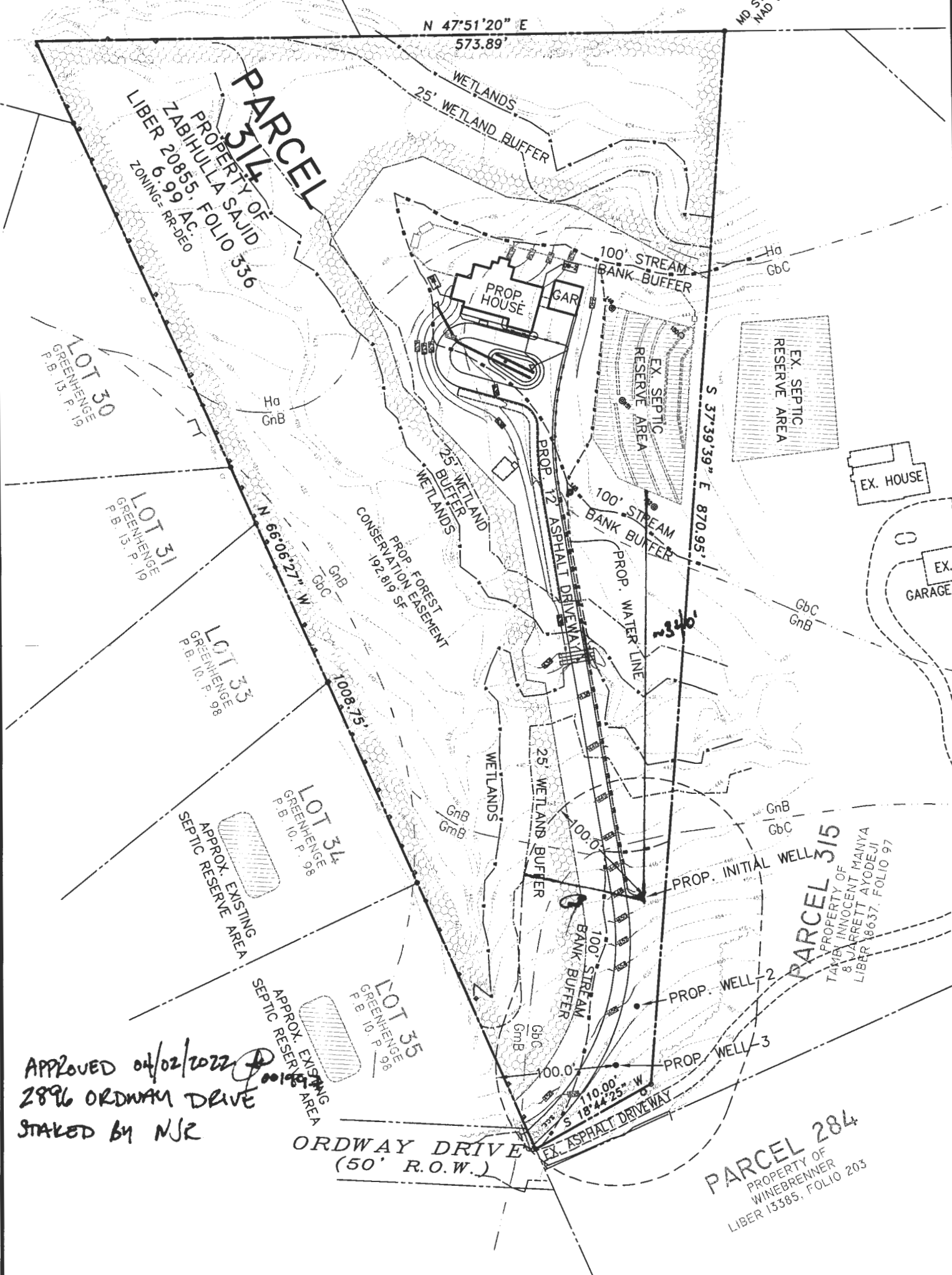
Howard County Health Department  
MAY 2 2022  
Environment & Health  
RECEIVED  
SAMPLE TESTED AS RECEIVED

**PARCEL 317**

PROPERTY OF  
GORGAN  
LIBER 1355, FOLIO 606

**PARCEL 87**

PROPERTY OF  
SVRJCEK  
LIBER 1668, FOLIO 173



APPROVED 04/02/2022  
2896 ORDWAY DRIVE  
STAKED BY NJR

WELL STAKEOUT EXHIBIT-A  
**PARCEL 314**  
TAX MAP 16, GRID 19  
LIBER 20855, FOLIO 336  
N ORDWAY DRIVE  
ELLCOTT CITY, MARYLAND 21042  
5TH ELECTION DISTRICT  
HOWARD COUNTY, MARYLAND

DESIGNED BY:	NJ
CHECKED BY:	WR
SCALE:	1" = 100'
DATE:	MARCH 8, 2020
PROJECT No.	3665
SHEET:	1 OF 1



**NJR & ASSOCIATES, LLC.**  
LAND SURVEYING AND PLANNING  
2770 TERRAPIN RUN  
WEST FRIENDSHIP, MD 21794  
TEL: (240) 508-3200

