

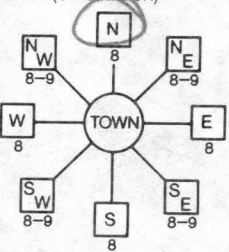



B 1 9197 SEQUENCE NO. (MDE USE ONLY) STATE OF MARYLAND PERMIT TO DRILL WELL STATE PERMIT NUMBER 40-94-4181  
 1 2 3 6 522054 please print or type 70 fill in this form completely 79

Date Received (APA) \_\_\_\_\_  
 OWNER INFORMATION  
 8 MM DD YY 13  
GOODIER Builders Inc  
 15 Last Name Owner First Name 34  
10705 Charter Dr.  
 36 Street or RFD 55  
Columbia MD 21044  
 57 Town 70 State 72 Zip 76

B 3 Howard LOCATION OF WELL  
 8 COUNTY 21  
WALNUT GROVE  
 23 SUBDIVISION 42  
 SECTION \_\_\_\_\_ LOT 51  
 44 46 48 50  
CLARKSVILLE  
 52 NEAREST TOWN 71  
 MILES FROM TOWN (enter 0 if in town) 2 M I  
 73 76 77 78

DRILLER INFORMATION  
Ralph E. MAYNE MS D 117  
 76 Driller's Name License No. 81  
Ralph E. MAYNE INC  
 Firm Name  
17024 Handy Rd. Mt Airy MD 21771  
 Address  
Ralph E. Mayne 3-26-05  
 Signature Date

B 4  
 1 2 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)  
  
Preakness Circle LA.  
 11 NEAR WHAT ROAD 30  
 ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX)  
  
 34 250 37 DISTANCE FROM ROAD ENTER FT OR MI 38 39  
 TAX MAP: 28 BLK: 18 PARCEL 24

B 2 WELL INFORMATION  
 1 2 APPROX. PUMPING RATE 5  
 (GAL. PER MIN.) 8 12  
 AVERAGE DAILY QUANTITY NEEDED 500  
 (GAL. PER DAY) 14 20

USE FOR WATER (CIRCLE APPROPRIATE BOX)  
 D DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION  
 F FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION)  
 I INDUSTRIAL, COMMERCIAL, DEWATERING  
 P PUBLIC WATER SUPPLY WELL  
 T TEST, OBSERVATION, MONITORING  
 G GEO-THERMAL

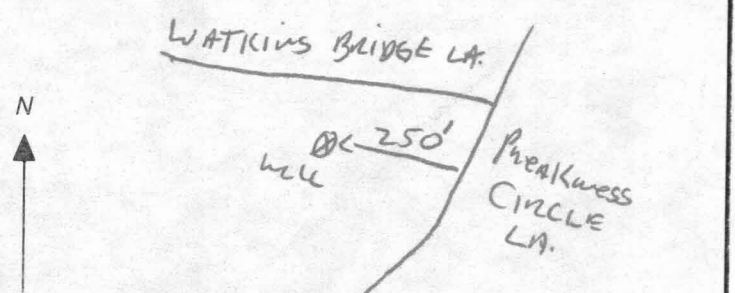
NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL  
Howard COUNTY NAME 1517420 COUNTY NO.  
 STATE SIGNATURE \_\_\_\_\_ INSERT S →  
 DATE ISSUED 4/22/05 EXP. DATE 4/22/06  
 43 MM DD YY 48 CO SIGNATURE EAST GRID 816 0 0 0  
 NORTH GRID 508 0 0 0 WEST GRID 000 57 63

APPROXIMATE DEPTH OF WELL 150 FEET  
 24 28  
 APPROXIMATE DIAMETER OF WELL 64 INCH  
 NEAREST INCH

SHOW MAJOR FEATURES OF BOX & LOCATE WELL WITH AN X  
 SOURCES OF DRILLING WATER  
 1. well  
 2.  
 3.  
 WRITE THE BOX NUMBER FROM THE MAP HERE  
 E 510-816  
 N 815-508  
 000  
 000

METHOD OF DRILLING (circle one)  
 BORED (or Augered) JETTED Jetted & DRIVEN  
 30 AIR-ROtary AIR-PERcussion ROTARY (Hydraulic Rotary)  
 37 CABLE REVerse-ROtary DRive-POINT  
 other \_\_\_\_\_

REPLACEMENT OR DEEPEMED WELLS (CIRCLE APPROPRIATE BOX)  
 N THIS WELL WILL NOT REPLACE AN EXISTING WELL  
 Y THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED  
 S THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS  
 D THIS WELL WILL DEEPEM AN EXISTING WELL  
 39 PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEMED (IF AVAILABLE) 41 \_\_\_\_\_ 52

DRAW A SKETCH BELOW SHOWING LOCATION OF WELL IN RELATION TO NEARBY TOWNS AND ROADS AND GIVE DISTANCE FROM WELL TO NEAREST ROAD JUNCTION  
  
 N  
 ↑

Not to be filled in by driller (MDE OR COUNTY USE ONLY)  
 APPROP. PERMIT NUMBER \_\_\_\_\_ G \_\_\_\_\_  
 PERMIT No. 40-94-4181  
 70 71 72 73 74 75 76 77 78 79

SPECIAL CONDITIONS  
 NOTE - APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED  
well to be converted to potable supply  
MAP is needed  
 DENV-Permit 97 © COUNTY

**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: Robert L. Feezer Co., Inc. Telephone #: 410-781-4655  
Address: 6321 Barnett Avenue  
Sykesville, MD 21784

**(Must circle one)** Licensed Plumber      Licensed Well Driller      Licensed Well Pump Installer  
License # and name of individual responsible for the field installation:  
Name (Print): Robert L. Feezer License# 2122

**\*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: NV Homes Telephone #: 410-379-5956  
Subdivision: Walnut Grove Lot #: 51 Well Tag #: HO - 95 - 4181  
Site Address: 12344 Preakness Circle Lane  
Clarksville, MD 21029

**Submersible Pump Data**

Make: Sta-Rite  
Model #: S10P4HS10221-01  
Pump Capacity <sup>10</sup> \_\_\_\_\_ GPM  
Well Yield: <sup>15</sup> \_\_\_\_\_ GPM

**Pitless Adapter**

Make: Campbell  
Model#: PT800  
Depth: 42" (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 18" B.G.: Yes  
Conduit secured to well cap: Yes

Depth of well encountered at time of pump installation: 300 (feet)  
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: Poly  
PSI: 200 (160 psi min)  
Depth of supply line: 42" (36" min)

**House Connection**

PVC sleeve to undisturbed soil at wall penetration: Yes  
Length of sleeve(5' minimum from foundation): 10'  
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.**

Robert L. Feezer Digitally signed by Robert L. Feezer  
DN: cn=Robert L. Feezer, o=Robert L. Feezer Co., Inc., email=rlf@rlfco.com, c=US  
Date: 2011.08.09 16:04:30 -0400 9/7/2011  
Signature of company representative responsible for installation      date

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

Date Insp. Requested: \_\_\_\_\_ Date Insp. Approved: \_\_\_\_\_ Inspector: \_\_\_\_\_  
Inspection Data: Pitless adapter watertight & water supply line at least 36" below grade \_\_\_\_\_  
Two piece cap installed and attached to casing securely \_\_\_\_\_  
Elec. conduit extends at least 18" below grade/attached to cap properly \_\_\_\_\_  
Safety rope not outside of well cap/casing \_\_\_\_\_  
Correct well tag attached properly and casing 8" above finished grade \_\_\_\_\_  
Water supply line sleeved adequately at house connection \_\_\_\_\_  
Adequate grout observed below pitless adapter \_\_\_\_\_

**HOWARD COUNTY HEALTH DEPARTMENT  
BUREAU OF ENVIRONMENTAL HEALTH  
WATER AND SEWERAGE PROGRAM  
TEL: (410)313-2640 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: \_\_\_\_\_ Telephone #: \_\_\_\_\_  
Address: \_\_\_\_\_  
\_\_\_\_\_

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

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

Name (Print): \_\_\_\_\_ License# \_\_\_\_\_

**\*A licensed individual must perform the actual installation. Apprentices must be under the direct supervision of a licensed journeyman or master plumber, pump installer or well driller. Licenses may be subjected to field verification.**

Name of Property Owner: \_\_\_\_\_ Telephone #: \_\_\_\_\_  
Subdivision: Walden Grove Lot #: 51 Well Tag #: HO-95-4181  
Site Address: \_\_\_\_\_

**Submersible Pump Data**

Make: \_\_\_\_\_  
Model #: \_\_\_\_\_  
Pump Capacity \_\_\_\_\_ GPM  
Well Yield: \_\_\_\_\_ GPM

**Pitless Adapter**

Make: \_\_\_\_\_  
Model#: \_\_\_\_\_  
Depth: \_\_\_\_\_ (36" min)  
NSF approved: \_\_\_\_\_

**Well Cap and Electric Conduit**

Two piece watertight cap: \_\_\_\_\_  
Screened, vented well cap: \_\_\_\_\_  
Cap secured to casing: \_\_\_\_\_  
Conduit min 18" B.G.: \_\_\_\_\_  
Conduit secured to well cap: \_\_\_\_\_

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

Torque arrestors or Cable guards are required – Must circle one

Safety rope, if used, attached to inside of well casing with eye bolt \_\_\_\_\_

**Piping to house**

Type: \_\_\_\_\_  
PSI: \_\_\_\_\_ (160 psi min)  
Depth of supply line: \_\_\_\_\_ (36" min)

**House Connection**

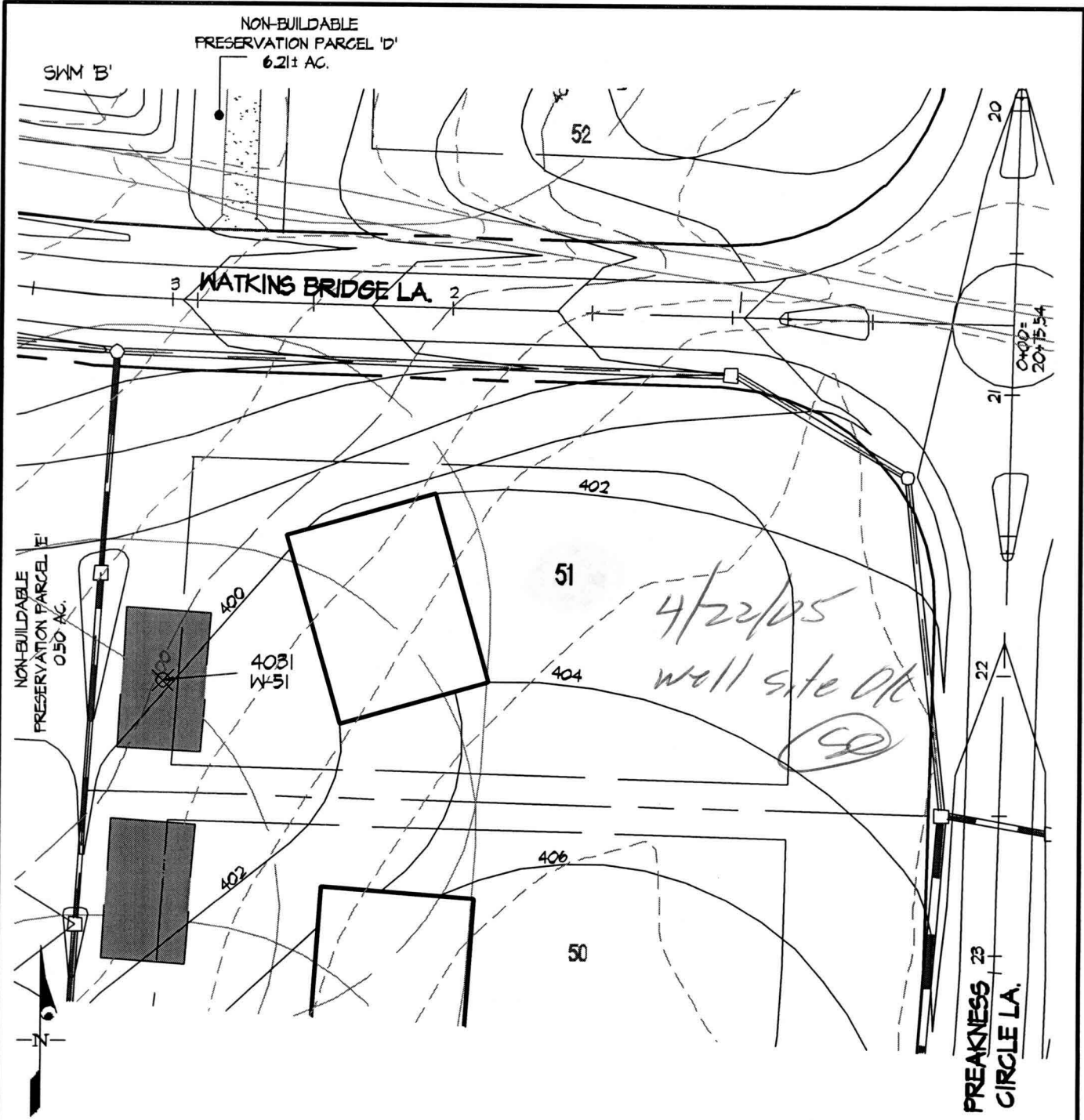
PVC sleeved to undisturbed soil at wall penetration: \_\_\_\_\_  
Approximate length of sleeve: \_\_\_\_\_  
Sleeve caulked and sealed properly: \_\_\_\_\_

**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.**

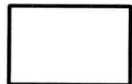
Signature of company representative responsible for installation \_\_\_\_\_ date \_\_\_\_\_

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

Date Insp. Requested: \_\_\_\_\_ Date Insp. Approved: 8/25/11 (KW)  
Inspection Data: Pitless adapter and water supply line at least 36" below grade \_\_\_\_\_  
Two piece cap installed and attached to casing securely \_\_\_\_\_  
Elec. conduit extends at least 18" below grade/attached to cap properly \_\_\_\_\_  
Safety rope installed inside of well 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 \_\_\_\_\_



**LEGEND**



CONCEPTUAL HOUSE BOX

4022  
N-05 X

WELL SURVEY POINT



WELL BOX

**WELL LOCATION EXHIBIT - LOT 51**

**WALNUT GROVE**

Lots 1 thru 88, and Preservation Parcels "A" thru "G"  
and Non-Buildable Bulk Parcel "H"

**GLWGUTSCHICK LITTLE & WEBER, P.A.**

CIVIL ENGINEERS, LAND SURVEYORS, LAND PLANNERS, LANDSCAPE ARCHITECTS  
3909 NATIONAL DRIVE - SUITE 250 - BURTONSVILLE OFFICE PARK  
BURTONSVILLE, MARYLAND 20866  
TEL: 301-421-4024 BALT: 410-880-1820 DC/VA: 301-988-2524 FAX: 301-421-4186

SCALE: 1"=50'

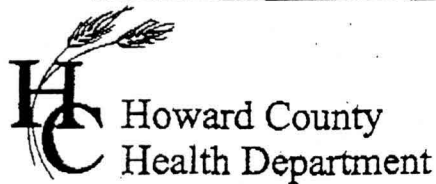
ZONING: RC/RR-DEO

TAX MAP/GRID: 28-18/17

GLW JOB NO: 00153

APR., 2005

1 OF 1



3525 H Ellicott Mills Drive • Ellicott City, MD 21043  
(410) 313-2640 Fax (410) 313-2648  
TDD (410) 313-2323 Toll Free 1-866-313-6300  
website: www.hchealth.org

Penny E. Borenstein, M.D., M.P.H., Health Officer

## ATTENTION WELL DRILLERS!!!

When submitting a well application for a new or replacement well, please indicate one of the following:

- The well site has been staked by Gutschick, Little & Weber on 3/16/05 and is ready for site inspection.
- \_\_\_\_\_ will call the Health Department for a time to meet in the field to verify a well location.
- Site plan for new well is attached to well permit application.

Please attach this sheet when submitting your green application. This should help improve communication allowing a more timely service for our citizens.

KN



Bureau of Environmental Health  
7178 Gateway Drive Columbia, MD 21046  
(410) 313-2640 Fax (410) 313-2648  
TDD (410) 313-2323 Toll Free 1-866-313-6300  
Website: [www.hchealth.org](http://www.hchealth.org)

*Peter Beilenson, M.D., M.P.H., Health Officer*

September 19, 2011  
Homeowner  
12344 Preakness Circle Lane  
Clarksville, MD 21029

RE: Walnut Grove, Lot 51  
12344 Preakness Circle Lane  
BP #: B11001292  
Well Tag: HO-94-4181

Dear Sir:

This is to advise you that the septic system for the above referenced property has been installed and inspected. **Final approval of the septic system was granted on 08/22/2011. Final approval of the well line connection to the dwelling was approved on 08/23/2011.**

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. The water sample results were found to be in compliance with COMAR water quality standards.

Gross Alpha and Beta samples were also collected on 03/26/2007. Results showed a post-treated Gross Alpha level of 14.2+-2.2 pCi/L and **Gross Beta** level of 8.6+-1.3 pCi/L. With the margin of error the **Gross Alpha** was above the maximum contaminant level (MCL) of 15 pCi/L, while the Gross Beta was below the MCL of 50pCi/L. This is a temporary deviation to allow time for additional radium samples to be tested.

Enclosed with this certificate, is a copy of the septic permit and the as-built along with important information regarding the use and maintenance of your septic system. Please read through carefully and thoroughly. Any questions regarding your well and/or septic, please call this office for guidance 410-313-1771.

#### **INTERIM CERTIFICATE OF POTABILITY**

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-95-4034. Although the submitted sample results are in compliance with COMAR standards, the Health Department does not guarantee water supplies. Based upon satisfactory investigation and evaluation, the Howard County Health Department as authorized by the Maryland Department of the Environment accepts this well system as required by COMAR 26.04.04.

This certificate may become final upon completion of the second bacteriological test, which is to be taken by the county health department within six months of receipt of this letter. **Please contact (410) 313-1773 to schedule a final water sample appointment. Currently, there is no charge for this final sampling.**

Date of Water Samples: 08/29/2011  
Date of Radium Samples: 03/26/2007  
Date of Well Completion: 06/30/2005

Approving Authority,

Kevin M. Wolf, R.E.H.S./R.S.  
Environmental Sanitarian  
Well & Septic Program

cc: Building Inspector's Office  
Community Hygiene Program  
File

# Water Testing Laboratories

P.O. Box 712  
Stevensville, MD 21666  
410-643-7711

of Maryland, Inc.

Feezer Company  
6085 Marshalee Drive  
Suite 130  
Elkridge, Md 21075

Reporting Date: 10/7/2011  
Report #: K7570

Submitted Sample Address: 12344 Preakness Circle Lane  
Clarksville, Md 21029  
Submitted Sample Source: Laundry tub  
Date / Time Collected: 9/19/2011 01:45 PM  
Sample Type: Drinking Water  
Sampler/Company: D. Pitts 4322dp, Wtl Of Md  
Field Record: Chlorine residual: Absent  
Well #: HO-94-4181

10/25  
\* Perform  
another

Post Treated

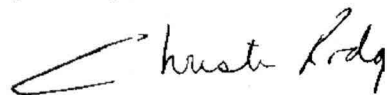
## Analytical Results

Parameter	Result	Units	Report Limit	MCL	Analytical Method	Analysis
Gross Alpha	15.61	pCi/L	2.78	15	EPA 900.0	BPS-CV
Gross Beta	ND	pCi/L	3.10	50	EPA 900.0	BPS-CV
Radium 226	ND	pCi/L	0.85	---	EPA 903.1	BH-CV
Radium 228	ND	pCi/L	0.68	---	EPA 904.0	MJS-CV
Radium 226+228	ND	pCi/L	---	5.0	EPA 903.1	See above

### Notes:

1. MCL is EPA's maximum contaminant level under primary drinking water regulations.
2. ND - Not Detected.
3. Analyzed by lab 315.
4. Sample received and examined within EPA's recommended holding time

Reported by,



C. Rodgers, Customer Service Representative

Reviewed by: Sub

# Water Testing Laboratories

P.O. Box 712  
Stevensville, MD 21666  
410-643-7711

of Maryland, Inc.

Feezer Company  
6085 Marshalee Drive  
Suite 130  
Elkridge, Md 21075

Reporting Date: 9/16/2011  
Report #: K7543

Submitted Sample Address: Walnut Grove  
12344 Preakness Circle Lane  
Clarksville, Md 21029  
Submitted Sample Source: Laundry tub  
Date / Time Collected: 9/12/2011 09:00 AM  
Sample Type: Drinking Water  
Sampler/Company: D. Pitts 4322DP, WTL of MD  
Field Record: Chlorine residual: Absent Clear when drawn  
Well #: HO-94-4181

## Analytical Results

Parameter	Result	Units	Report Limit	MCL	Analytical Method	Analysis
Short Term Gross Alpha	6.79	pCi/L	2.51	15	ECLS-R-GA	BPS-CV

### Notes:

1. MCL is EPA's maximum contaminant level under primary drinking water regulations.
2. ND - Not Detected.
3. Sample received and examined within EPA's recommended holding time
4. Analyzed by Lab 315.
5. Sample received and examined within EPA's recommended holding time.
6. Analyzed by lab 313 Analysis Start 09/14/11 @ 18:45 and Analysis End 09/15/11.

Reported by,



C. Rodgers, Customer Service Representative

Reviewed by: VB

# Water Testing Laboratories

P.O. Box 712  
Stevensville, MD 21666  
410-643-7711

of Maryland, Inc.

Feezer Company  
6085 Marshalee Drive  
Suite 130  
Elkridge, MD 21075

Reporting Date: 9/27/2011  
Report #: K7570

Submitted Sample Address: Walnut Grove  
12344 Preakness Circle Lane  
Clarksville, MD 21029  
Submitted Sample Source: Utility Sink  
Date / Time Collected: 9/19/2011 1:45 PM  
Sample Type: Drinking Water  
Sampler/Company: D. Pitts 4322DP, WTL of MD  
Field Record: Chlorine residual: Absent  
Well #: HO-94-4181

## Analytical Results

Parameter	Result	Units	Report Limit	MCL	Analytical Method	Analysis
Rapid Beta	2.16	pCi/L	3.2	50	ECLS-R-GA	BH-CV


### Notes:

1. MCL is EPA's maximum contaminant level under primary drinking water regulations. SMCL is secondary maximum contaminant level and is the aesthetic quality only. If your result is above any MCL or SMCL, you may want to consider a water treatment system or a new well. Please check your local regulations for any restrictions or additional limits.
2. ND - Not Detected.
3. Sample received and examined within EPA's recommended holding time.
4. Analyzed by lab 315 Analysis Start 09/20/11 @ 23:36 and Analysis End @ 09/22/11.
5. SM - Greenberg, Clesceri and Eaton, *Standard Methods for the Examination of Water and Wastewater*, 21<sup>st</sup> Ed.

Reported by,



C. Rodgers, Customer Service Representative

Reviewed by: 

# Water Testing Laboratories

of Maryland, Inc.

P.O. Box 712  
Stevensville, MD 21666  
410-643-7711

Feczer Company  
6085 Marshalee Drive  
Suite 130  
Elkridge, Md 21075

Reporting Date: 9/1/2011  
Report #: K7512

Submitted Sample Address: Walnut Grove  
12344 Preakness Circle Lane, Clarksville, Md 21029  
Submitted Sample Source: Holding tank  
Date / Time Collected: 8/29/2011 09:27 AM  
Sample Type: Drinking Water  
Sampler/Company: D. Pitts 4322DP, WTL of MD  
Field Record: Chlorine residual: Absent Clear when drawn  
Well #: HO-94-4181

OK ✓

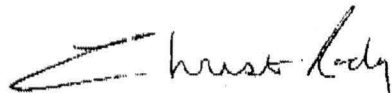
## Analytical Results

Parameter	Result	Units	Report Limit	MCL	Analytical Method
Total Coliforms	Absent	Coliforms/100 ml	Present/Absent	Present	SM 9223B
<i>E. Coli</i>	Absent	Coliforms/100 ml	Present/Absent	Present	SM 9223B
Nitrates + Nitrites	ND	mg/L	1.0	10	EPA 353.2
Sand	Absent	P/A	Present/Absent	Present	Visual
Turbidity	ND	NTU	0.5	10	SM 2130B
pH	6.9	SU	0.1	6.5-8.5 (SMCL)	SM 4500 H <sup>+</sup> B


Notes:

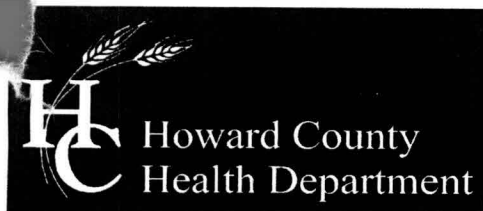
- Bacteriological analysis of this sample indicates this water is  safe for human consumption.
- MCL is EPA's maximum contaminant level under primary drinking water regulations. SMCL is secondary maximum contaminant level and is the aesthetic quality only. If your result is above any MCL or SMCL, you may want to consider a water treatment system or a new well. Please check your local regulations for any restrictions or additional limits.
- ND - Not Detected.
- Sample received and examined within EPA's recommended holding time
- Analyzed by Lab 214.
- SM - Greenberg, Clesceri and Eaton, *Standard Methods for the Examination of Water and Wastewater*, 21<sup>st</sup> Ed.

Reported by,



C. Rodgers, Customer Service Representative

Reviewed by: 



Bureau of Environmental Health  
7178 Columbia Gateway Drive, Columbia, MD 21046-2147  
(410) 313-2640 Fax (410) 313-2648  
TDD (410) 313-2323 Toll Free 1-866-313-6300  
website: www.hchealth.org

Peter L. Beilenson, M.D., M.P.H., Health Officer

April 9, 2007

Walnut Grove, LLC  
10705 Charter Drive  
Suite 320  
Columbia, Maryland 21044

RE: Walnut Grove Subdivision, Lot 51  
Well Tag: HO - 94 - 4181

To Whom It May Concern:

A sample was collected during a yield test on March 26, 2007 and submitted to GPL Laboratories to assess the possible presence of **Gross Alpha** and **Gross Beta** in the future well water supply. **Gross Alpha** and **Gross Beta** (GAGB) 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  $14.2 \pm 2.2$  picocuries/liter (pCi/L); while the **Gross Beta** level was  $8.6 \pm 1.3$  pCi/L. With the margin of error, the **Gross Alpha** result was above its **maximum contaminant level (MCL)** of **15 pCi/L**, while the **Gross Beta** level was below its target value of **50 pCi/L** (roughly equivalent to the **annual dose rate of 4 millirem/year**).

Since the **Gross Alpha** finding exceeded its **MCL**, additional testing for **Radium** will be necessary to verify existing levels prior to occupancy. Alternatively, you may install treatment designed to reduce **Gross Alpha**, **Gross Beta** and **Radium**, plus provide post treated results (short and long term **GAGB**, plus **Radium**) confirming that levels are in conformance with existing standards. **Additionally**, the owners will be required to sign an "AGREEMENT FOR APPROVAL OF AN INDIVIDUAL DRINKING WELL WITH AN ON-SITE TREATMENT SYSTEM" as part of the Use and Occupancy process. Moreover, keep in mind that the standard potability parameters required for occupancy will still be needed.

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 or concerns.

Sincerely,

A handwritten signature in cursive script that reads 'Bert Nixon'.

Bert Nixon, Deputy Director  
Bureau of Environmental Health

cc: Eric Dougherty, MDE Water Mgmt., Groundwater  
✓ Well & Septic property file

Send Report To:

State of Maryland  
DHMH - Laboratories Administration  
Division of Environmental Chemistry  
**RADIATION LABORATORY**

201 W. Preston Street, Baltimore, Maryland 21201

John M. DeBoy, Dr. P.H., Director

**LABORATORY ANALYSIS REQUEST**

WG51BB944181

Sample Bottle No. A: \_\_\_\_\_ No. B: \_\_\_\_\_ Field Blank Bottle No. A: \_\_\_\_\_ No. B: \_\_\_\_\_

Plant/Site Name: Walnut Grove-Lot 51 County: \_\_\_\_\_

Sample Source: Preakness Circle Lane Location: HO-94-4181  
(well no., lab sink, sample tap, etc.)

County:   Plant No.

CHECK (one per box)

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

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

Source (raw water)	<input checked="" type="checkbox"/>
Distribution (treated)	<input type="checkbox"/>
MCL	<input type="checkbox"/>

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

Collector: Brian Baker

Telephone No: x2643

Date Collected: 3 / 26 / 2007

Time Collected: 11:00 a.m. \_\_\_\_\_ p.m.

Nitric Acid Preserved: Yes  No

Iced: Yes  No

Submitters Code:   Federal Project:  Field Data: \_\_\_\_\_

Remarks: Sample Collected During Yield Test pH Chlorine

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Reported
✓	Gross Alpha	4000	703208-007	14.2 ± 2.2	4/2/07
✓	Gross Beta	4100		8.6 ± 1.3	
	Radon-222 Bottle A	4004			
	Radon-222 Bottle B	4004			
	Field Blank A	4004			
	Field Blank B	4004			
	Tritium				
	Ra - 226	4020			
	Ra - 228	4030			
	Total Uranium	4006			

Date Received: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

Supervisor: \_\_\_\_\_

# CERTIFICATE OF ANALYSIS



**Requester:**  
Heritage Realty & Land Development  
Attn: Jeremy Rutter  
P.O. Box 482  
Lisbon, MD 21765

**S/O Number:** 64290-6  
**Report Date:** July 31, 2007

**Trace Laboratories, Inc.  
Maryland**

5 North Park Drive  
Hunt Valley, MD 21030  
Telephone: 410/252-7742  
Telephone: 410/584-9099  
Fax: 410/584-9117  
Email: [tracelab@connext.net](mailto:tracelab@connext.net)  
[www.tracelabs.com](http://www.tracelabs.com)

Maryland State Certified  
Water Quality Laboratory  
No. 318

ISO 9001:2000



Cert No. C2005-01504

**Property Sampled:** Walnut Grove Property

**County:** Howard  
**Subdivision:** Walnut Grove  
**Lot #:** 51  
**Tax Map #:** N/A  
**Parcel #:** N/A

**Date/Time Collected:** July 11, 2007 at 1:30 pm  
**Date/Time Received:** July 11, 2007 at 3:40 pm

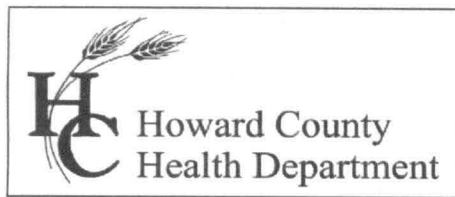
**Sample Location:** Pump  
**Sampler ID:** 6308KW  
**Samples Iced:** Yes  
**Residual Cl<sub>2</sub> <0.1 mg/L:** Yes

**Well Tag Number:** HO-94-4181  
**Well Condition:** N/A

**Water Conditioning/Treatment:** None

PARAMETER	RESULT	METHOD	DETECTION LIMIT
Radium 226	9.6 +/- 0.8 pCi/L	EPA 903.1	0.1 pCi/L
Radium 228	1.2 +/- 0.6 pCi/L	EPA Ra-05	0.8 pCi/L
Uranium	18.1 +/- 2.7 pCi/L	EPA 908.0	0.9 pCi/L

Allison R. Milburn  
Manager-Drinking Water Testing



Bureau of Environmental Health  
7178 Gateway Drive Columbia, MD 21046  
(410) 313-2640 Fax (410) 313-2648  
TDD (410) 313-2323 Toll Free 1-866-313-6300  
website: www.hchealth.org

Peter L. Beilenson, M.D., M.P.H., Health Officer

November 29, 2011

Ms. Taylor Barrett  
12344 Preakness Circle  
Clarksville, Maryland 21029

RE: Walnut Grove, Lot 51  
12344 Preakness Circle  
Clarksville, MD. 21029

Dear Ms. Barrett:

Testing was performed on November 7, 2011 and samples submitted to the Department of Health & Mental Hygiene Laboratories (DHMH) and Florida Radiochemistry (FRC) to assess the possible presence of **Gross Alpha** and **Gross Beta** in your well water supply. Short and long term **Gross Alpha** and **Gross Beta** along with **Radium 226 / 228** samples were collected to assess the effectiveness of existing treatment and need for possible additional treatment.

Results from this pre-short term screening (DHMH, sample taken from the pressure tank) revealed a **Gross Alpha** of  $34.9 \pm 4.5$  picocuries/liter (pCi/L); while the **Gross Beta** level was  $12.1 \pm 2.3$  pCi/L. The **Gross Alpha** result was above the **maximum contaminant level (MCL)** of  $15$  pCi/L, while the **Gross Beta** level was below the targeted value of  $50$  pCi/L (roughly equivalent to the **annual dose rate** of  $4$  millirems per year).

Results from this post-short term screening (sample taken from the laundry sink) revealed a **Gross Alpha** of  $32.1 \pm 4.4$  pCi/L; while the **Gross Beta** level was  $12.1 \pm 2.3$  pCi/L. The **Gross Alpha** result was again above the **maximum contaminant level (MCL)** of  $15$  pCi/L, while the **Gross Beta** level was below the targeted value of  $50$  pCi/L (roughly equivalent to the **annual dose rate** of  $4$  millirems per year).

Results from this pre-long term screening (FRC, sample taken from the pressure tank) revealed a **Gross Alpha** of  $27.9 \pm 4.1$  pCi/L; while the **Gross Beta** level was  $14.0 \pm 1.8$  pCi/L. The **Gross Alpha** result was above the **maximum contaminant level (MCL)** of  $15$  pCi/L, while the **Gross Beta** level was below the targeted value of  $50$  pCi/L (roughly equivalent to the **annual dose rate** of  $4$  millirems per year).

Results from the post-long term screening (sample taken from the laundry sink) revealed a **Gross Alpha** of  $27.9 \pm 4.1$  pCi/L; while the **Gross Beta** level was  $14.0 \pm 1.8$  pCi/L. The **Gross Alpha** result was above the **maximum contaminant level (MCL)** of  $15$  pCi/L, while the **Gross Beta** level remained below the targeted value of  $50$  pCi/L (roughly equivalent to the **annual dose rate** of  $4$  millirems per year).

Results from **Radium 226 / 228** (FRC) revealed a **Radium 226** level of  $8.2 \pm 0.8$  pCi/L; while the **Radium 228** level was  $< 0.9 \pm 0.6$  pCi/L. These naturally occurring isotopes of radium are considered the most important due to their longer half-lives and health significance. Here the **combined Radium 226 / 228** was above the **MCL** of  $5$  pCi/L.

At the time of testing and based upon the reported results, with respect to these parameters, your well water supply **is not** be safe for all uses. Given the elevated **Gross Alpha** findings, and more importantly, **Radium 226 / 228** the current treatment (water softener) is having little to no positive effect when comparing pre and post values for both short and long term **Gross Alpha** and **Gross Beta**. Generally speaking, softener systems are effective in addressing this type of contaminant. Therefore, consider having your system serviced as a first step. Additionally, the installation of a reverse osmosis unit (R/O) to address these contaminants is recommended to further treat your well water supply.

A copy of each test report is enclosed for your information. Please call this office at **410-313-1773** if you have any further questions or following the installation of treatment, to schedule additional testing.

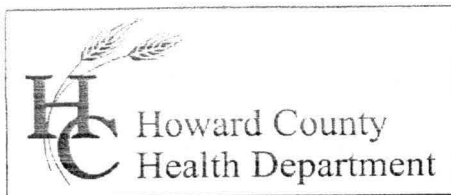
Sincerely,

A handwritten signature in black ink, appearing to read "Bert Nixon". The signature is fluid and cursive, with the first name "Bert" being more prominent than the last name "Nixon".

Bert Nixon, Director  
Bureau of Environmental Health

Enclosures

cc: Barry Glotfelty, MDE, Water Mgmt.



Bureau of Environmental Health  
7178 Gateway Drive Columbia, MD 21046  
(410) 313-2640 Fax (410) 313-2648  
TDD (410) 313-2323 Toll Free 1-866-313-6300  
website: www.hchealth.org

Peter L. Beilenson, M.D., M.P.H., Health Officer

January 10, 2012

Ms. Taylor Barrett  
12344 Preakness Circle  
Clarksville, Maryland 21029

RE: 12344 Preakness Circle  
Walnut Grove Lot 51  
Clarksville, MD. 21029

Dear Ms. Barrett:

Follow-up testing was performed on November 7<sup>th</sup> and December 15, 2011 and samples submitted to the Department of Health & Mental Hygiene Laboratories (DHMH) and Florida Radiochemistry (FRC) to assess the possible presence of **Gross Alpha** and **Gross Beta** in your well water supply. Short term **Gross Alpha** and **Gross Beta** along with **Radium 226 / 228** samples were collected to assess the effectiveness of existing treatment and possible need for additional treatment.

Results from the 11/7/11 **pre-treatment** long term screening (FRC – sample taken from the well pressure tank) revealed a **Gross Alpha** of  $27.9 \pm 4.1$  picocuries/liter (pCi/L); while the **Gross Beta** level was  $14.0 \pm 1.8$  pCi/L. The **Gross Alpha** result was again above the **MCL** of 15 pCi/L, while the **Gross Beta** level was below the targeted value of 50 pCi/L (roughly equivalent to the annual dose rate of 4 millirems per year).

Results from the 11/7/11 **post-treatment** (softener only) long term screening (FRC – sample taken from the kitchen tap) revealed a **Gross Alpha** of  $27.2 \pm 4.0$  pCi/L; while the **Gross Beta** level was  $11.8 \pm 1.8$  pCi/L. The **Gross Alpha** result remained above the **MCL** of 15 pCi/L, while the **Gross Beta** level was again below the targeted value of 50 pCi/L.

Results from **Radium 226 / 228** (FRC – softener only) revealed a **Radium 226** level of  $8.2 \pm 0.8$  pCi/L; while the **Radium 228** level was  $< 0.9 \pm 0.6$  pCi/L. These naturally occurring isotopes of radium are considered the most important due to their longer half-lives and health significance. Here the **combined Radium 226 / 228** was above the **MCL** of 5 pCi/L.

Results from the 12/15/11 **pre-treatment** short term screening (DHMH – sample taken from the well pressure tank) revealed a **Gross Alpha** of  $33.6 \pm 4.3$  pCi/L; while the **Gross Beta** level was  $13.1 \pm 2.9$  pCi/L. The **Gross Alpha** result was above the **maximum contaminant level (MCL)** of 15 pCi/L, while the **Gross Beta** level was below the targeted value of 50 pCi/L.

Results from the 12/15/11 **post-treatment** (softener only) short term screening (DHMH – sample taken from the kitchen tap) revealed a **Gross Alpha** of  $13.0 \pm 2.9$  pCi/L; while the **Gross Beta** level was  $< 4.0 \pm 0.0$  pCi/L. With the margin of error, the **Gross Alpha** result was just above the **MCL** of 15 pCi/L, while the **Gross Beta** level was well below the targeted value of 50 pCi/L.

Results from the 12/15/11 **post-treatment** (softener and R/O) short term screening (FRC – sample taken from the R/O kitchen tap) revealed a **Gross Alpha** of  $< 0.8 \pm 0.5$  pCi/L; while the **Gross Beta** level was  $< 1.7 \pm 1.0$  pCi/L. Here the **Gross Alpha** result was well below the **MCL** of 15 pCi/L, while the **Gross Beta** level was also well below the targeted value of 50 pCi/L.

Results from the 12/15/11 **pre-treatment** long term screening (FRC – sample taken from the well pressure tank) revealed a **Gross Alpha** of  $29.1 \pm 4.0$  picocuries/liter pCi/L; while the **Gross Beta** level was  $13.0 \pm 1.8$  pCi/L. The **Gross Alpha** result was again above the **MCL** of 15 pCi/L, while the **Gross Beta** level was below the targeted value of 50 pCi/L.

Results from the 12/15/11 **post-treatment** (softener only) long term screening (FRC – sample taken from the kitchen tap) revealed a **Gross Alpha** of  $13.4 \pm 2.8$  pCi/L; while the **Gross Beta** level was  $5.2 \pm 1.4$  pCi/L. With the margin of error, the **Gross Alpha** result remained above the **MCL** of 15 pCi/L, while the **Gross Beta** level was again below the targeted value of 50 pCi/L.

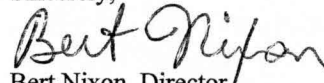
Results from the 12/15/11 **post-treatment** (softener and R/O) long term screening (FRC – sample taken from the R/O kitchen tap) revealed a **Gross Alpha** of  $< 0.7 \pm 0.5$  pCi/L; while the **Gross Beta** level was  $< 1.6 \pm 1.0$  pCi/L. Here the **Gross Alpha** result was well below the **MCL** of **15 pCi/L**, while the **Gross Beta** level was also well below the targeted value of **50 pCi/L**.

Results from the 12/15/11 **Radium 226 / 228** (FRC – softener only) revealed a **Radium 226** level of  $0.1 \pm 0.1$  pCi/L; while the **Radium 228** level was  $< 0.9 \pm 0.6$  pCi/L. These naturally occurring isotopes of radium are considered the most important due to their longer half-lives and health significance. Here the **combined Radium 226 / 228** was well below the **MCL** of **5 pCi/L**.

Given the many results noted above, a couple of basic themes have evolved. First, at the times of testing and based upon the reported results, with respect to these parameters, your raw (untreated) well water supply **is not** safe for all uses. Given the elevated **Gross Alpha** (for both testing dates and for both short and long term findings), the underlying levels are well above the **MCL** of **15 pCi/L**. Second, the impact of the softener system for the 11/7/11 results was less positive than seen for the 12/15/11 results. This was particularly evident when comparing long term pre and post results, and more importantly, the post softener **Radium 226 / 228**. If maintenance was performed on the softener between the two testing dates, this could explain the improved results. Finally, the use of both the softener and R/O treatments to address these contaminants appears very effective, with all post results well below applicable standards. It is recommended that combination be used for drinking and / or cooking related activities to ensure the greatest protection. Regular maintenance of both treatments is also recommended to keep your treated supply as safe as possible.

A copy of each 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

Enclosures

cc: Barry Glotfelty, MDE, Water Mgmt.

Send Report To:

Howard County Health Department  
Bureau of Environmental Health  
7178 Columbia Gateway Drive  
Columbia, Maryland 21046

State of Maryland  
DHMH - Laboratories Administration  
Division of Environmental Chemistry  
**RADIATION LABORATORY**  
201 W. Preston Street, Baltimore, Maryland 21201  
John M. DeBoy, Dr. P. H., Director

E001248 #15=

### LABORATORY ANALYSIS REQUEST

Sample Bottle No. A: \_\_\_\_\_ No. B: \_\_\_\_\_ Field Blank Bottle No. 1: HC12344A No B: \_\_\_\_\_

Plant/Site Name: TAYLOR BARRETT County: HOWARD

Sample Source: 12344 PREAKNESS CIRCLE LN Location: \_\_\_\_\_

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

County:  1  3 Plant No.

CHECK (one per box)

Drinking Water   
Landfill   
Stream   
Other

Community   
Non-community   
Private   
Other

Source (raw water)   
Distribution (treated)   
MCL

Emergency   
Routine   
Recheck   
Special

Collector: DOWU ORESANYA

Telephone No.: 410-313-4259

Date Collected: 12/15/2011 *comb*

Time Collected: 10:00 a.m. \_\_\_\_\_ p.m.

Nitric Acid Preserved: Yes  No

Iced: Yes  No

Submitters Code:

Federal Project:

Field Data: 6.7 0.00  
pH Chlorine

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

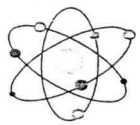
✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Analyzed	Date Reported
	Gross Alpha	4000	<u>1248</u>	<u>&lt; 2.0</u>	<u>12/16/11</u>	<u>12/17/11</u>
	Gross Beta	4100	<u>1248</u>	<u>&lt; 4.0</u>	"	"
	Radon-222 Bottle A	4004				
	Radon-222 Bottle B	4004				
✓	Field Blank #A	4004				
	Field Blank #B	4004				
	Tritium					
	Ra - 226	4020				
	Ra - 228	4030				
	Total Uranium	4006				

Date Received: 12/15/11

Supervisor: Afonso Saunders

•Tel. No.: (410) 767 - 5537 •Fax No.: (410) 333- 5373

11/7/11 RESULTS

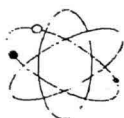


# Florida Radiochemistry Services, Inc.

## Analysis Report

Lab Sample I.D.	1111116-01	1111116-02
Client I.D.	PRE-HC12344L	POST-HC12344L
Gross Alpha	27.9	27.2
Error +/-	4.1	4.0
MDL	2.1	1.8
EPA Method	900.0	900.0
Prep Date/Time	11/21/11 06:10	11/21/11 06:10
Analysis Date/Time	11/22/11 06:53	11/22/11 06:53
Analyst	MJN	MJN
Gross Beta	14.0	11.8
Error +/-	1.8	1.8
MDL	2.0	1.9
EPA Method	900.0	900.0
Prep Date/Time	11/21/11 06:10	11/21/11 06:10
Analysis Date/Time	11/22/11 06:53	11/22/11 06:53
Analyst	MJN	MJN
Radium 226		8.2
Error +/-		0.8
MDL		0.2
EPA Method		903.1
Prep Date/Time		11/15/11 09:12
Analysis Date/Time		11/23/11 10:55
Analyst		MJN
Radium 228		<0.9
Error +/-		0.6
MDL		0.9
EPA Method		Ra-05
Prep Date/Time		11/15/11 09:12
Analysis Date/Time		11/22/11 13:08
Analyst		SN
Units	pCi/l	pCi/l

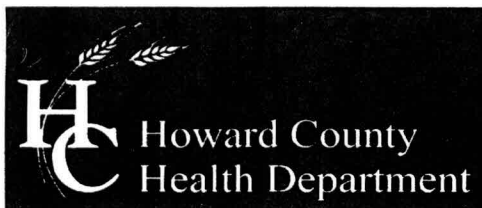
12/15/2011 RESULTS



Florida Radiochemistry Services, Inc.

Analysis Report

Lab Sample I.D.	1112144-01	1112144-02	1112144-03	1112144-04	1112144-05
Client I.D.	HC12344 (LONG)	HC12344 (Softener)	HC12344 (Softener)	HC12344 (SHORT) R/O	HC12344 (LONG) R/O
Gross Alpha	29.1	13.4		<0.8	<0.7
Error +/-	4.0	2.8		0.5	0.5
MDL	1.6	1.7		0.8	0.7
EPA Method	900.0	900.0		900.0	900.0
Prep Date/Time	12/27/11 06:19	12/27/11 06:19		12/20/11 13:37	12/27/11 06:19
Analysis Date/Time	12/28/11 06:44	12/28/11 06:44		12/21/11 10:08	12/28/11 06:44
Analyst	MJN	MJN		MJN	MJN
Gross Beta	13.0	5.2		<1.7	<1.6
Error +/-	1.8	1.4		1.0	1.0
MDL	2.1	1.9		1.7	1.6
EPA Method	900.0	900.0		900.0	900.0
Prep Date/Time	12/27/11 06:19	12/27/11 06:19		12/20/11 13:37	12/27/11 06:19
Analysis Date/Time	12/28/11 06:44	12/28/11 06:44		12/21/11 10:08	12/28/11 06:44
Analyst	MJN	MJN		MJN	MJN
Radium 226			0.1		
Error +/-			0.1		
MDL			0.1		
EPA Method			903.1		
Prep Date/Time			12/23/11 08:00		
Analysis Date/Time			01/04/12 13:20		
Analyst			MJN		
Radium 228			<0.9		
Error +/-			0.6		
MDL			0.9		
EPA Method			Ra-05		
Prep Date/Time			12/23/11 08:00		
Analysis Date/Time			01/03/12 13:50		
Analyst			SN		
Units	pCi/l	pCi/l	pCi/l	pCi/l	pCi/l



Bureau of Environmental Health  
7178 Columbia Gateway Drive, Columbia, MD 21046-2147  
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TDD (410) 313-2323 Toll Free 1-866-313-6300  
website: www.hchealth.org

Peter L. Beilenson, M.D., M.P.H., Health Officer  
December 19, 2007

Jeremy Rutter  
Heritage Realty & Land Development  
P.O. Box 482  
Lisbon, Maryland 21765

RE: Radium & Uranium Results for:  
Walnut Grove Lot 15, HO – 95 – 0572  
Walnut Grove Lot 19, HO – 95 – 0575  
Walnut Grove Lot 30, HO – 95 – 0584  
Walnut Grove Lot 41, HO – 95 – 0594  
Walnut Grove Lot 45, HO – 94 – 4187  
✓Walnut Grove Lot 51, HO – 94 – 4181  
Walnut Grove Lot 53, HO – 95 – 0598  
Walnut Grove Lot 63, HO – 94 – 4183  
Walnut Grove Lot 87, HO – 95 – 0618

Dear Mr. Rutter:

You have requested that I review and comment upon sample results from the aforementioned lots at the Walnut Grove Sub Division, all taken on July 11, 2007 and sent to Trace Laboratories for analysis of Radium 226 / 228 and Uranium. My comments would be used to help confirm whether or not treatment to address these parameters, would be needed on any of these well water supplies.

Let me first state that no information was provided on how long the wells were purged prior to the sample being collected. From looking at the sample reports, wells were sampled at 10 – 15 minute intervals, suggesting little to no purging on some (or all) of these wells. Additionally, without the benefit of short and long term Gross Alpha & Beta components, the interpretation of some results is less clear. Because of this, I will “err” on the side of caution in my conclusions.

In general, my interpretation of these results is similar to those reached by Allison Milburn, Manager – Drinking Water Testing for Trace Laboratories. **Lots 19, 45, 53 and 87** are water supplies in which no additional treatment for these parameters would be anticipated. Alternatively, **Lots 15 (based upon Uranium), 51 and 63** are lots that additional treatment (i.e., softeners and/or reverse osmosis systems) will be needed. The remaining two lots (**30 and 41**), though not strictly reaching or exceeding the maximum contaminant level (MCL) of 5 picocuries/liter, are close enough that with variability (and a lack of additional information), will at this point be required to have treatment.

If you have questions or wish to discuss further, please contact me at (410) 313 – 1774.

Sincerely,

A handwritten signature in black ink that reads 'Bert Nixon'.

Bert Nixon, Director  
Bureau of Environmental Health

**CERTIFICATE OF ANALYSIS**



**Trace Laboratories, Inc.  
Maryland**

5 North Park Drive  
Hunt Valley, MD 21030  
Telephone: 410/252-7742  
Telephone: 410/584-9099  
Fax: 410/584-9117  
Email: [tracelab@connect.net](mailto:tracelab@connect.net)  
[www.tracelabs.com](http://www.tracelabs.com)

Maryland State Certified  
Water Quality Laboratory  
No. 318

**ISO 9001:2000**



Cert No. C2005-01504

**Requester:**  
Heritage Realty & Land Development  
Attn: Jeremy Rutter  
P.O. Box 482  
Lisbon, MD 21765

**S/O Number:** 64290-6  
**Report Date:** July 31, 2007

**Property Sampled:** Walnut Grove Property

**County:** Howard  
**Subdivision:** Walnut Grove  
**Lot #:** 51  
**Tax Map #:** N/A  
**Parcel #:** N/A

**Date/Time Collected:** July 11, 2007 at 1:30 pm  
**Date/Time Received:** July 11, 2007 at 3:40 pm

**Sample Location:** Pump  
**Sampler ID:** 6308KW  
**Samples Iced:** Yes  
**Residual Cl<sub>2</sub> <0.1 mg/L:** Yes

**Well Tag Number:** HO-94-4181  
**Well Condition :** N/A

**Water Conditioning/Treatment:** None

PARAMETER	RESULT	METHOD	DETECTION LIMIT
Radium 226	9.6 +/- 0.8 pCi/L	EPA 903.1	0.1 pCi/L
Radium 228	1.2 +/- 0.6 pCi/L	EPA Ra-05	0.8 pCi/L
Uranium	18.1 +/- 2.7 pCi/L	EPA 908.0	0.9 pCi/L

*Allison Milburn*

-----  
Allison R. Milburn  
Manager-Drinking Water Testing

Samples analyzed by Laboratory #E83033