

C18766

SEQUENCE NO.
(MDE USE ONLY)

STATE OF MARYLAND
WELL COMPLETION REPORT
FILL IN THIS FORM COMPLETELY
PLEASE TYPE

THIS REPORT MUST BE SUBMITTED WITHIN
45 DAYS AFTER WELL IS COMPLETED.

COUNTY
NUMBER13A517422

PERMIT NO.
FROM "PERMIT TO DRILL WELL"
H0-95-0594

ST/CO USE ONLY
DATE Received
MMDDYY
813

DATE WELL COMPLETED
MMDDYY
022207

Depth of Well
2230026
(TO NEAREST FOOT)

OWNERDeFrancis
STREET OR RFDWatkins Bridge Lane
SUBDIVISIONWalnut GroveSECTIONLOT41

WELL LOG
Not required for driven wells

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

DESCRIPTION (Use additional sheets if needed)	FEET		check if water bearing
	FROM	TO	
Top Soil	0	1	
Clay	1	11	
Sandy	11	50	✓
Sand Stone	50	55	
MICKA	55	95	
Sand Stone	95	100	✓
MICKA	100	240	
Sand Stone	240	245	✓
MICKA	245	300	

GROUTING RECORD

WELL HAS BEEN GROUTED
(Circle Appropriate Box)
yesno
Y44N44

TYPE OF GROUTING MATERIAL (Circle one)
CEMENTCMBENTONITE CLAYBC

NO. OF BAGS454622NO. OF POUNDS245460

GALLONS OF WATER132

DEPTH OF GROUT SEAL (to nearest foot)
from48TOP52ft. to54BOTTOM58ft.
(enter 0 if from surface)
30+

CASING RECORD

casing
types
insert
appropriate
code
below

STEELSTCONCRETECO
PLASTICPLOTHOTHEROT

MAIN CASING TYPENominal diameter
top (main) casing
(nearest inch)!Total depth
of main casing
(nearest foot)
663

OTHER CASING (if used)
diameterdepth (feet)
inchfromto
5+6"4163

NUMBER OF UNSUCCESSFUL WELLS:0

WELL HYDROFRACTUREDyesno
YN

CIRCLE APPROPRIATE LETTER
A A WELL WAS ABANDONED AND SEALED
WHEN THIS WELL WAS COMPLETED
E ELECTRIC LOG OBTAINED
P TEST WELL CONVERTED TO PRODUCTION
WELL

I HEREBY CERTIFY THAT THIS WELL HAS BEEN CONSTRUCTED IN
ACCORDANCE WITH COMAR 26.04.04 "WELL CONSTRUCTION" AND
IN CONFORMANCE WITH ALL CONDITIONS STATED IN THE ABOVE
CAPTIONED PERMIT, AND THAT THE INFORMATION PRESENTED
HEREIN IS ACCURATE AND COMPLETE TO THE BEST OF MY
KNOWLEDGE.

DRILLERS LIC. NO. M S D 112
DRILLERS SIGNATURE
(MUST MATCH SIGNATURE ON APPLICATION)

LIC. NO. 1 D

SITE SUPERVISOR (sign. of driller or journeyman
responsible for sitework if different from permittee)

SCREEN RECORD

screen type
or open hole
(insert
appropriate
code
below)

STEELSTBRASSBR
PLASTICPLHOLEHO
OTHEROT

DEPTH (nearest ft.)
1211061300

EACH CASING
18911151721
2232426303236
3383941454751

SLOT SIZE 123

DIAMETER
OF SCREEN(NEAREST
INCH)
5660
fromto

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

MDE USE ONLY
(NOT TO BE FILLED IN BY DRILLER)
T(E.R.O.S.)WQ
7072747576
TELESCOPE LOG
CASINGINDICATOROTHER DATA

C3

PUMPING TEST

HOURS PUMPED (nearest hour)3
89

PUMPING RATE (gal. per min.)15
1115

METHOD USED TO
MEASURE PUMPING RATEBucket

WATER LEVEL (distance from land surface)
BEFORE PUMPING24ft.
1720
WHEN PUMPING44ft.
2225

TYPE OF PUMP USED (for test)
AairPpistonTturbine
272727
CcentrifugalRrotaryOother
272727
JjetSsubmersible
2727

PUMP INSTALLED

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

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 29.29

CAPACITY:
GALLONS PER MINUTE
(to nearest gallon)3135

PUMP HORSE POWER3741

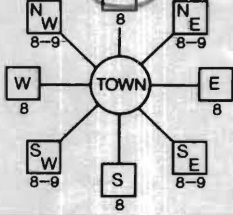
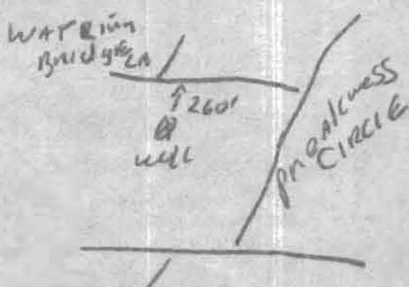
PUMP COLUMN LENGTH
(nearest ft.)4347

CASING HEIGHT (circle appropriate box
and enter casing height)
+above
49
-below
49
LAND SURFACE
2(nearest
foot)
5051

LOCATION OF WELL ON LOT

SHOW PERMANENT STRUCTURE SUCH AS
BUILDING, SEPTIC TANKS, AND /OR
LANDMARKS AND INDICATE NOT LESS
THAN TWO DISTANCES
(MEASUREMENTS TO WELL)

Prop Line 50' 50'

B 1 1 2 3 6 0555	SEQUENCE NO. (MDE USE ONLY)	STATE OF MARYLAND APPLICATION FOR PERMIT TO DRILL WELL 525642 please type	STATE PERMIT NUMBER HO-95-0594 70 fill in this form completely 79
Date Received (APA) 8 MM DD YY 13 Land Marketing Consultants 15 Last Name Owner First Name 34 3060 Rt. 94 36 Street or RFD 55 Glenwood Md. 21738 57 Town 70 State 72 Zip 76		B 3 LOCATION OF WELL 8 COUNTY 21 Walnut Grove 23 SUBDIVISION 42 SECTION 44 46 LOT 41 50 Clarksville 52 NEAREST TOWN 71 MILES FROM TOWN (enter 0 if in town) 2 M I 73 76 77 78	
OWNER INFORMATION Driller's Name 76 License No. 81 RAUL E. MAYNE M SD 112 Firm Name 17024 Handy Rd Mt Airy MD 21771 Address Raul E. Mayne 11-11-06 Signature Date		B 4 1 2 DIRECTION OF WELL FROM TOWN (CIRCLE BOX)  11 NEAR WHAT ROAD 30 WATKINS BRIDGE LA. ON WHICH SIDE OF ROAD (CIRCLE APPROPRIATE BOX) NORTH WEST 32 EAST SOUTH 34 260 37 DISTANCE FROM ROAD ENTER FT OR MI 38 39 TAX MAP: 28 BLK: 18 PARCEL 74	
DRILLER INFORMATION APPROX. PUMPING RATE (GAL. PER MIN.) 5 8 12 AVERAGE DAILY QUANTITY NEEDED (GAL. PER DAY) 500 14 20		WELL INFORMATION B 2 1 2 USE FOR WATER (CIRCLE APPROPRIATE BOX) <input checked="" type="radio"/> DOMESTIC POTABLE SUPPLY & RESIDENTIAL IRRIGATION <input type="radio"/> FARMING (LIVESTOCK WATERING & AGRICULTURAL IRRIGATION) <input type="radio"/> INDUSTRIAL, COMMERCIAL, DEWATERING <input type="radio"/> PUBLIC WATER SUPPLY WELL <input type="radio"/> TEST, OBSERVATION, MONITORING <input type="radio"/> GEO-THERMAL	
APPROXIMATE DEPTH OF WELL 150 FEET 24 28 APPROXIMATE DIAMETER OF WELL 6 INCH NEAREST INCH		NOT TO BE FILLED IN BY DRILLER HEALTH DEPARTMENT APPROVAL Howard (13) A517422 COUNTY NAME COUNTY NO. STATE SIGNATURE INSERT S → 41 DATE ISSUED 12/19/2006 Brian Baker 12/19/2007 43 MM DD YY 48 CO SIGNATURE EXP. DATE NORTH GRID 508 000 EAST GRID 815 000 50 55 57 63	
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		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 815 N 508 000 000 (BB)	
REPLACEMENT OR DEEPEENED WELLS (CIRCLE APPROPRIATE BOX) <input checked="" type="radio"/> THIS WELL WILL NOT REPLACE AN EXISTING WELL <input type="radio"/> THIS WELL WILL REPLACE A WELL THAT WILL BE ABANDONED AND SEALED <input type="radio"/> THIS WELL WILL REPLACE A WELL THAT WILL BE USED AS A STANDBY-CONTACT LOCAL APPROVING AUTHORITY FOR POLICY ON STANDBY WELLS <input type="radio"/> THIS WELL WILL DEEPEEN AN EXISTING WELL PERMIT NUMBER OF WELL TO BE REPLACED OR DEEPEENED (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 	
Not to be filled in by driller (MDE OR COUNTY USE ONLY) APPROP. PERMIT NUMBER H02005G006 PERMIT No. HO-95-0594 70 71 72 73 74 75 76 77 78 79			
SPECIAL CONDITIONS NOTE: APPROVING AUTHORITIES SHOULD USE SEPARATE SHEET IF NEEDED Health Dept. Must Collect Radium Sample During Yield Test			

Well Permit No. HO - 95-0594
Location of property (road) Watkins Bridge Lane
Subdivision Walnut Grove Lot 441 Block Plat Sec.
Well Driller Ralph Mayne Owner DeFrancis

Depth of well 300
Distance of measuring point (M.P.) above ground 2 ft
Static water level (S.W.L.) below M.P. 24 ft

Time pump started 11:30 Pumping rate 15 Gpm
Total time 15 min to reach pumping water level 44 ft. below M.P.

[illegible]

**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: Walnut Grove Lot #: 41 Well Tag #: HO-95-0584 ✓
Site Address: 12411 Watkins Bridge Ln

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: _____

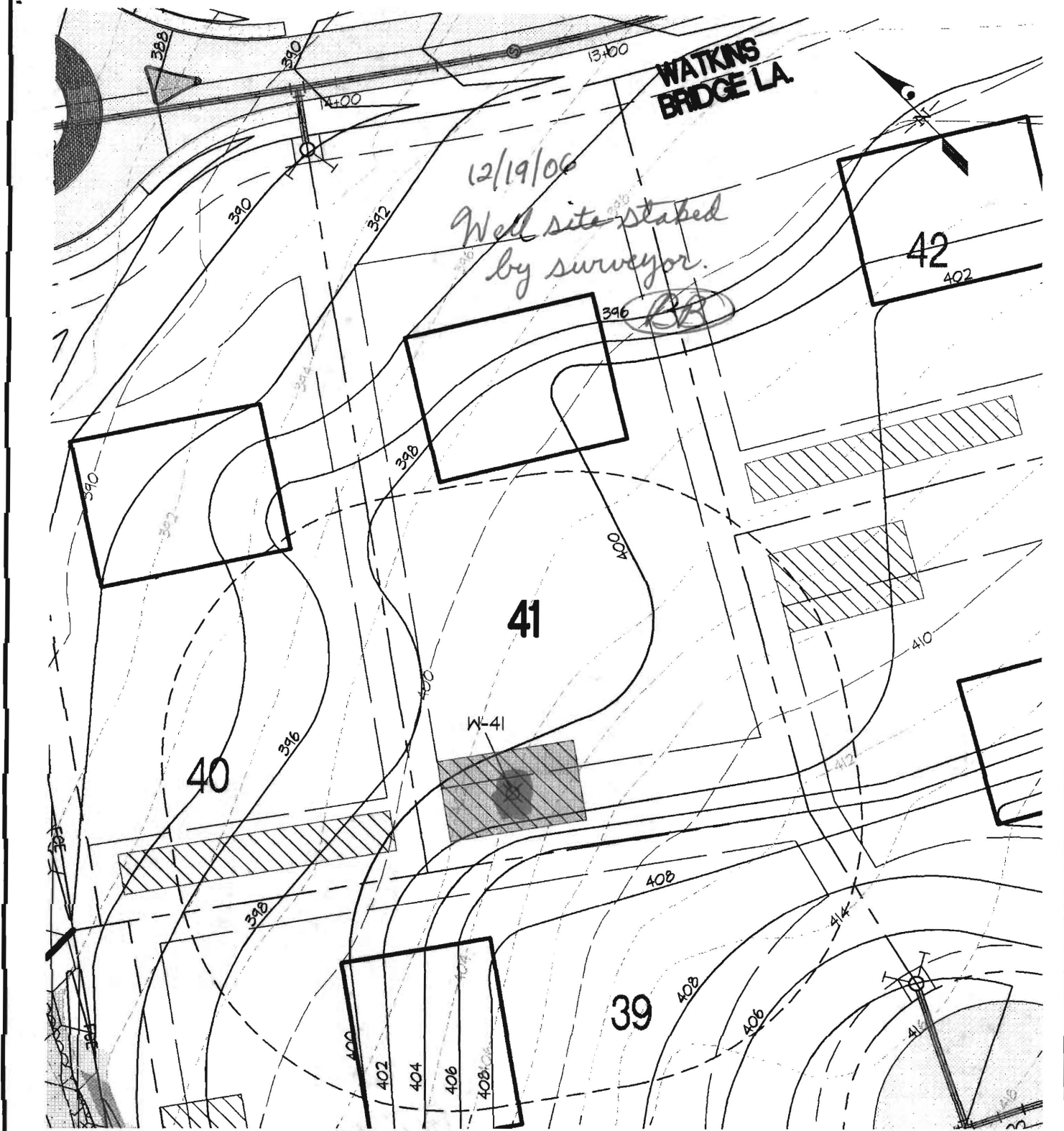
The water supply line is required to be at least ten feet from the septic tank, pump chamber, sewage piping, distribution box, drainfields, and sewage reserve area. If this cannot be accomplished, contact this office for approval prior to installation.

Signature of company representative responsible for installation _____ date _____

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

Date Insp. Requested: 4/19/2011 Date Insp. Approved: 4/19/2011
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 ✓

Approved
by MS



LEGEND	PROPOSED LPSS PROPOSED STORM DRAIN	HOUSE BOX	WELL BOX	W-05 SURVEY POINT
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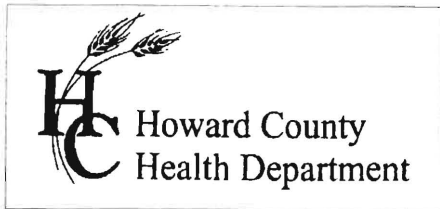
WELL LOCATION EXHIBIT - LOT 41

WALNUT GROVE
 Lots 1 thru 88, Buildable Preservation Parcel "A",
 Non-Buildable Preservation Parcels "B" Thru "I" And
 and Non-Buildable Bulk Parcel "J"

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 BAL: 410-880-1820 DC/VA: 301-989-2524 FAX: 301-421-4186



7178 Columbia Gateway Dr., Columbia, MD 21046
(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

TO ALL INTERESTED PARTIES

When submitting a well application for a proposed well for new construction, please indicate one of the following:

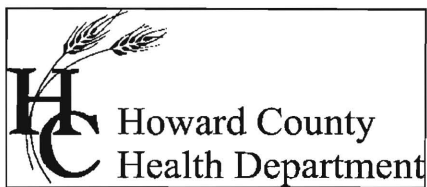
Well Site Location:

<u>Walnut Grove</u>	<u>41</u>	<u>Watkins Bridge Lane</u>
Subdivision/Property Name	Lot #	Road Name

- ☒ Staking to take place after initial review (as discussed with Bob Weber).
- ☐ The well site has been staked by _____ ,
(professional land surveyor or company employing professional land surveyors)
on _____ (date) and does not require a site inspection.
- ☐ The well driller, builder or property owner will call the Health Department to schedule a time to meet in the field to verify the proposed well site location.

This sheet, along with two copies of an acceptable well site plan, must be attached to the green well permit application.

Revised 3/11/05



Bureau of Environmental Health
7178 Columbia Gateway Drive Columbia, Maryland 21046-2132
(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

May 19, 2011

Homeowner
12411 Watkins Bridge Lane
Clarksville, MD 21029

RE: Walnut Grove, Lot 41
12411 Watkins Bridge Lane
BP# B10003969
Well Tag: HO-95-0594

Dear Homeowner:

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 05/09/2011. Final approval of the well line connection to the dwelling was approved on 04/19/2011.**

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 02/22/2007 & 5/11/2011. The sample results from 02/22/2007 indicated Gross Alpha levels above the maximum contamination level suggested by the EPA. A reverse osmosis system was subsequently installed and samples were taken from the treated tap on 5/11/2011. Those sample results indicated that Gross Alpha results were below the targeted value of 15 pCi/L and the Gross Beta results were below the targeted value of 50 pCi/L. At the time of the testing and with respect to these parameters, the future well water supply appears safe for all uses. No additional testing **for these parameters** will be required to secure the future Use and Occupancy.

However, this treatment system must be properly operated and maintained continuously in accordance with the service contract for the life of the residence to assure future compliance. Water used for internal consumption should come from this treated tap. If the house is sold the new homeowners must be made aware of this condition.

INTERIM CERTIFICATE OF POTABILITY

The initial sampling requirements of COMAR 26.04.04 "Well Regulations" have been met for the water supply system installed under well permit #HO-95-0594. 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 Bacterial, etc. Water Sample(s): 05/03/2011

Date of Well Completion: 02/22/2007

Approving Authority,

A handwritten signature in black ink, appearing to read 'Jeff Williams', with a long horizontal line extending to the right.

Jeff Williams, R.S., REHS, MAS
Well & Septic Program

cc: Building Inspector's Office
Community Health Services
File

**TRACE LABORATORIES, INC**

5 North Park Drive
Hunt Valley, MD 21030 USA
Telephone: 410/584-9099 / Fax: 410/584-9117
Website: www.tracelabs.com / Email: info@tracelabs.com

Maryland State Certified Laboratory #318

CERTIFICATE OF ANALYSIS**Requester:**

NV Homes, Inc.
6085 Marshalee Drive Suite 130
Elkridge, Maryland 21075

S/O Number: 81297

Report Date: May 18, 2011

Property Sampled: 12411 Watkins Bridge Lane, 21029
Sample Location: Reverse Osmosis (R/O) Tap
Residual Chlorine: <0.1 mg/L

Building Permit #: B10003969
Sampler ID #: 9813AM
Samples Iced: Yes

County: Howard
Map: 28

Subdivision: Walnut Grove
Parcel: 74

Lot #: 41

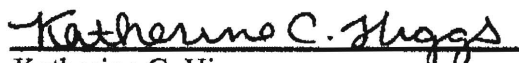
Date/Time Collected in Field: May 11, 2011 @ 12:15 pm
Date/Time Received in Lab: May 11, 2011 @ 4:15 pm

Well Tag #: HO-95-0594
Well Condition: 2-Piece Cap, Satisfactory

Water Treatment/Conditioning: Softener, Neutralizer, Reverse Osmosis (R/O)

PARAMETER	METHOD	DETECTION LIMIT	MCL*	RESULT	ACCEPTABILITY
Gross Alpha	EPA 900.0	0.9 pCi/L	15 pCi/L	<0.9 ± 0.7 pCi/L	Acceptable
Gross Beta	EPA 900.0	1.9 pCi/L	50 pCi/L	2.1 ± 1.3 pCi/L	Acceptable

*Note: There are no established limits set forth by the EPA for radionuclide particles in private well water. The limits for public water are instead provided as MCLs in this report. The acceptability of this sample is based on these requirements.


Katherine C. Higgs
Administrative Assistant



TRACE LABORATORIES, INC
5 North Park Drive
Hunt Valley, MD 21030 USA
Telephone: 410/584-9099 / Fax: 410/584-9117
Website: www.tracelabs.com / Email: info@tracelabs.com

Maryland State Certified Laboratory #318

CERTIFICATE OF ANALYSIS

Requester:

NV Homes, Inc.
6085 Marshalee Drive Suite 130
Elkridge, Maryland 21075

S/O Number: 81178**Report Date:** May 3, 2011

Property Sampled: 12411 Watkins Bridge Lane, 21029
Sample Location: Pressure Tank
Residual Chlorine: <0.1 mg/L

Building Permit #: B10003969
Sampler ID #: 9813AM
Samples Iced: Yes

County: Howard
Map: 28

Subdivision: Walnut Grove
Parcel: 74

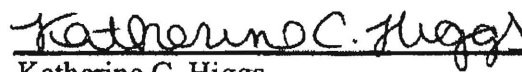
Lot #: 41

Date/Time Collected in Field: May 2, 2011 @ 11:30 am
Date/Time Received in Lab: May 2, 2011 @ 2:40 pm

Well Tag #: HO-95-0594
Well Condition: 2-Piece Cap, Satisfactory

Water Treatment/Conditioning: Softener, Neutralizer

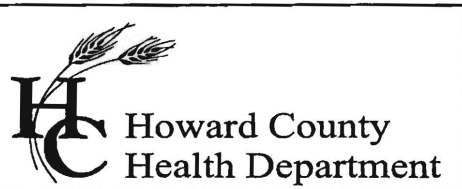
PARAMETER	METHOD	MCL/*SMCL	RESULT	PASS/FAIL
Total Coliform	SM 9223B	Absent	Absent	Pass
<i>E. coli</i>	SM 9223B	Absent	Absent	Pass
Nitrate	SM 4500D	10 mg/L as N	5.5 mg/L as N	Pass
Turbidity	EPA 180.1	10 NTU	<1.0 NTU	Pass
pH	EPA 150.1	*6.5-8.5 Units	7.6 Units	***Acceptable
Sand		Negative	Negative	


Katherine C. Higgs
Administrative Assistant

MCL: Maximum Contamination Level, an enforceable level established by the EPA

*SMCL: Secondary Maximum Contamination Level, a level recommended by the EPA

***A non-enforceable parameter that may cause cosmetic effects or aesthetic effects (such as taste, color or odor) in drinking water.



Bureau of Environmental Health
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website: www.hchealth.org

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

March 5 2007

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

RE: Walnut Grove Subdivision, Lot 41
Well Tag: HO - 95 - 0594

To Whom It May Concern:

A sample was collected during a yield test on February 22, 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** 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 30.4 ± 3.1 picocuries/liter (pCi/L); while the **Gross Beta** level was 7.7 ± 1.4 pCi/L. 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 **MCL** 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,

Bert Nixon, Deputy Director
Bureau of Environmental Health

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

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

WG41BB950594

County: □ □ **Plant No.** □ □ □ □ □ □ □ □ □

Drinking Water	<input 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 type="checkbox"/>
Other	<input type="checkbox"/>

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

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

Remarks: Water Sample Taken During Yield Test pH Chlorine

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Reported
✓	Gross Alpha	4000	702106-001	30.4 ± 3.1	2/26/07
✓	Gross Beta	4100		7.7 ± 1.4	
	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			

Supervisor: _____

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@connext.net
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: 64290-4
Report Date: July 31, 2007

Property Sampled: Walnut Grove Property

County: Howard
Subdivision: Walnut Grove
Lot #: 41
Tax Map #: N/A
Parcel #: N/A

Date/Time Collected: July 11, 2007 at 12:41 pm
Date/Time Received: July 11, 2007 at 3:40 pm

Sample Location: Pump
Sampler ID: 6308KW
Samples Iced: Yes
Residual Cl₂ <0.1 mg/L: Yes

Well Tag Number: HO-95-0594
Well Condition: N/A

Water Conditioning/Treatment: None

PARAMETER	RESULT	METHOD	DETECTION LIMIT
Radium 226	3.6 +/- 0.5 pCi/L	EPA 903.1	0.2 pCi/L
Radium 228	1.0 +/- 0.5 pCi/L	EPA Ra-05	0.8 pCi/L
Uranium	27.4 +/- 3.3 pCi/L	EPA 908.0	0.8 pCi/L

Allison R. Milburn
Manager-Drinking Water Testing

Samples analyzed by Laboratory #E83033

1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 26

DEBBIE L. HARRISON

5642 • J. Neurosci., September 24, 2008 • 28(39):5636–5646

HUMPHREY

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Journal of Interpersonal Violence 26(10) 1978-1997
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1997 2000 2003 2006 2009 2012 2015 2018 2021 2024 2027 2030

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1. The first group of authors (e.g., [1, 2]) has shown that the use of a single, common, and simple model for the entire system is not only possible but also useful. This approach is based on the assumption that the system is a single, unified entity, and its behavior can be described by a single set of equations. This approach is often used in the design of control systems for simple systems, such as those found in the automotive industry.

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SECRET

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

This agreement is entered into by and between the Howard County Health Department ("the Health Department") and Shoumeny, Hu ("the Owner").

WHEREAS, the Owner owns a tract of land at street address 12411 Waltham Bridge Ln, 21029 and the deed and subdivision plat of the property is recorded among the Land Records of Howard County, Maryland, Tax Map # 28 Block # 9999 Parcel # 74, Deed Reference # 10961/624 and Tax Account # 449022 ("the Property").

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

20
20
110-95-0594
WHEREAS, the Owner has installed a residential drinking well under well permit 110-95-0594 that has been tested by the Health Department (or a private laboratory certified to perform testing) for radionuclide particles. The results of the tests have shown that the gross alpha particle content and/or the gross beta particle content and/or the combined radium 226/228 levels exceeds the standards of 15 picocuries per liter (pCi/L), 4 millirems per year (mrem/yr) and/or 5 pCi/L respectively.

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

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

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

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

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

Lot 41 Block _____

Community Walnut Grove

WATER WELL ACKNOWLEDGMENT

The undersigned Purchaser has entered into a Purchase Agreement for the Property known as LOT 41 and located in the Walnut Grove Community (the "Property").

By signing below, Purchaser acknowledges they have been informed of and understand the following information relating to the Property:

This community is located within an area of Howard County which contains higher than normal levels of radium in some water wells. Due to this occurrence, the County is requiring (i) certain remediation treatment devices to be installed on those wells selected by the County, (ii) each property owner to enter into an Agreement for Approval of an Individual Drinking Well With an On-Site Treatment System (attached hereto and made a part hereof), and (iii) disclosure of these matters by the homebuilder to the home purchaser.

Please refer to Sections 12.0, 12.3 and 15.0 in the NVHomes Homeowner's Manual for a description of the limited warranty provided for plumbing and for water wells.

For more information regarding the radium in water wells or about the Howard County requirements, please contact the Howard County Health Department, Bureau of Environmental Health at www.hchealth.org.

ACKNOWLEDGED BY PURCHASER:

Purchaser: [Signature]

Purchaser: (EAM XIOXANE) SHOUXIANY HU

Date: 11/17/10

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

1. The Owner will record this Agreement among the Land Records of Howard County, Maryland and provide confirmation to the Health Dept.
2. The Owner agrees to install and maintain a water treatment device, which effectively reduces the gross alpha, gross beta and radium levels to below their respective MCL. The Health Department shall verify that the treatment device is operating effectively and the Owner agrees to allow access to the Health Department to collect a follow-up sample(s).
3. The Health Department shall issue a Certificate of Potability for the well once follow-up sampling shows acceptable gross alpha, gross beta (short and long term) and radium 226 / 228 levels.
4. The Owner agrees that there shall be no liability on part of the Health Department for any immediate or long term impacts to health or property, under any circumstance or including, but not limited to, treatment device failure, improper maintenance or installation, or defect. The Health Department does not warrant nor guarantee that the device will adequately or properly function and the Owner agrees to implement and pay for any necessary changes or corrections.
5. The Owner acknowledges and agrees that neither the Health Department nor any of its agents or employees, either officially or individually, underwrites the operation of any system or treatment device.
6. This Agreement shall not be construed to limit any authority of the Health Department to protect the public health, safety or enjoyment of property or to issue any other orders to take any other action, which is now or may hereafter be within its authority.
7. This agreement contains the entire agreement and understanding between the Health Department and the Owner. There are no additional terms other than as contained in this Agreement. This Agreement may not be modified except in writing signed by each of the parties or their authorized representatives.
8. The Agreement shall run with the land and binds the Owner, his heirs, successors, and assigns. The owner agrees to provide a copy of this agreement to any purchaser or lessee of the property.
9. The laws of the State of Maryland govern the provisions of all transactions.

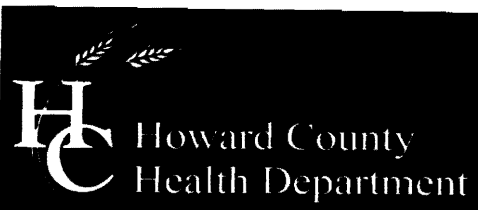
The parties have signed and sealed this Agreement on the dates set forth below.

11/17/10
Date

5/19/2011
Date

[Signature]
Owner
Sam XIONG SHOUXIAN HU
Owner
[Signature]
Howard County Health Department

BORTHAM NIXON



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
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,

Bert Nixon, Director
Bureau of Environmental Health



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
www.tracelabs.com

Maryland State Certified
Water Quality Laboratory
No. 318

ISO 9001:2000



Cert No. C2005-01504

CERTIFICATE OF ANALYSIS

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

S/O Number: 64290-4
Report Date: July 31, 2007

Property Sampled: Walnut Grove Property

County: Howard
Subdivision: Walnut Grove
Lot #: 41

Tax Map #: N/A
Parcel #: N/A

Date/Time Collected: July 11, 2007 at 12:41 pm
Date/Time Received: July 11, 2007 at 3:40 pm

Sample Location: Pump
Sampler ID: 6308KW
Samples Iced: Yes
Residual Cl_2 <0.1 mg/L: Yes

Well Tag Number: HO-95-0594
Well Condition: N/A

Water Conditioning/Treatment: None

PARAMETER	RESULT	METHOD	DETECTION LIMIT
Radium 226	3.6 +/- 0.5 pCi/L	EPA 903.1	0.2 pCi/L
Radium 228	1.0 +/- 0.5 pCi/L	EPA Ra-05	0.8 pCi/L
Uranium	27.4 +/- 3.3 pCi/L	EPA 908.0	0.8 pCi/L

*Not Acceptable - Was
Pump Run Long
Enough / Correctly?*

Allison Milburn

Allison R. Milburn
Manager-Drinking Water Testing

Samples analyzed by Laboratory #E83033