



Bureau of Environmental Health
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Peter L. Beilenson, M.D., M.P.H., Health Officer

October 19, 2007

Winchester of Howard County
6905 Rockledge Drive
Suite 800
Bethesda, Maryland 20817

RE: Riverwood II Lot # 70
Well Tag: HO - 95 - 0715

To Whom It May Concern:

A sample was collected from a yield test on August 13, 2007 and submitted to the Department of Health & Mental Hygiene Laboratory 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 12.0 ± 2.0 picocuries/liter (pCi/L); while the **Gross Beta** level was 8.0 ± 2.0 pCi/L. The **Gross Alpha** result was below its **maximum contaminant level (MCL)** of 15 pCi/L, while the **Gross Beta** level was below its targeted value of 50 pCi/L (roughly equivalent to the **annual dose rate** of 4 millirems/year).

At the time of 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 & Occupancy. However, other standard testing will still be necessary.

A copy of the test results is enclosed for your information. Please call our office at 410-313-1773 if you have any further questions.

Sincerely,

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

Bert Nixon, 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
 J. Mehsen Joseph, Ph.D., Director

LABORATORY ANALYSIS REQUEST

Sample Bottle No. A: R70BB950715 1 No. B: _____ Field Blank Bottle No. 1: _____ No. 2: _____

Plant/Site Name: Riverwood-Lot 70 County: Howard

Sample Source: Withorn Way Location: HO-95-0715
 (well no., lab sink, sample tap, etc.)

County: 1 3 Plant No.

Collector: Brian Baker Telephone No.: (410) 313-2643

Date Collected: 8/13/2007 Time Collected: 11 a.m. _____ p.m.

Nitric Acid Preserved: Yes No Iced: Yes No

Submitters Code: Federal Project: S Field Data: _____ pH _____ Chlorine _____

Remarks: Sample Collected During Yield Test

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Reported
✓	Gross Alpha	4000	0398	2523	08/14/07
✓	Gross Beta	4100	0398	8523	v. 1
	Radon-222 Bottle A	4004			
	Radon-222 Bottle B	4004			
	Field Blank #1	4004			
	Field Blank #2	4004			
	Tritium				
	Ra - 226	4020			
	Ra - 228	4030			
	Total Uranium	4006			

Date Received: 08/14/07

Section Chief: S. Wise

Need files for

Riverwood Lot 45 – Castlebridge Road

Riverwood II Lot 70 – Whithorn Way

Lot 72 “

Parcel BB “