



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

October 9, 2007

James Keelty and Company, Inc.  
61 East Padonia Road  
Timonium, MD 21093

RE: **Myrtue Property, Lot# 6**  
**Well Tag: HO-95-1182**

To Whom It May Concern:

A sample was collected from a yield test August 27, 2007 and submitted to Department of Health and Mental Hygiene 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. In turn, this can provide information regarding naturally occurring radiation (i.e., Radionuclides) that may exist in your area of development within the County.

Results from this screening revealed a **Gross Alpha** of  $3.0 \pm 1.0$  picocuries/liter (pCi/L); while the **Gross Beta** level was  $4.0 \pm 2.0$  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 target 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 (potability) testing will still be necessary.

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.

Sincerely,

  
Bert Nixon, Director  
Bureau of Environmental Health

cc: Eric Dougherty, MDE Water Mgmt., Groundwater  
Well & Septic File

Send Report To:

Bert Nixon - Howard Co  
7178 Columbia Gateway Dr.  
Columbia, MD 21046

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**

MP6BB951182

Sample Bottle No. A: 7 No. B: \_\_\_\_\_ Field Blank Bottle No. 1: \_\_\_\_\_ No. 2: \_\_\_\_\_

Plant/Site Name: Myrtle Property - Lot 6 County: Howard

Sample Source: Davis Branch Road Location: HO-95-1182  
(well no., lab sink, sample tap, etc.)

County:  1  3 Plant No.

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

Date Collected: 8/27/2007 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	0488	3±1	08/30/07
✓	Gross Beta	4100	0488	4±2	"
	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: 08/28/07

Section Chief: S. W. [Signature]