

Send Report To:

Howard County
Env Health

State of Maryland

DHMH - Laboratories Administration
Division of Environmental Chemistry
RADIATION LABORATORY

03-288714

201 W. Preston Street, Baltimore, Maryland 21201

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

LABORATORY ANALYSIS REQUEST

Sample Bottle No. A: mPOZKW0510 No. B: _____ Field Blank Bottle No. A: _____ No. B: _____

Plant/Site Name: FRANKS & MARY Mullin Property County: Howard

Sample Source: 11975 Fendrick Rd. Location: well #140-95-0510
E.C. 2042 (well no., lab sink, sample tap, etc.)

County: 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: Kevin Wolf

Telephone No: 410-313-2645

Date Collected: 9/11/06

Time Collected: 10:30 a.m. _____ p.m.

Nitric Acid Preserved: Yes No

Iced: Yes No

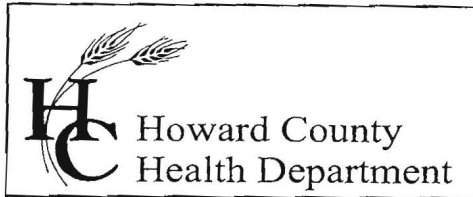
Submitters Code: Federal Project: Field Data: _____

Remarks: Sample Taken During Field test pH _____ Chlorine _____

✓	Test	EPA Code	Laboratory No.	Results (pCi/L)	Date Reported
✓	Gross Alpha	4000	0530	64 ± 4	09/15/06
✓	Gross Beta	4100	0530	26 ± 3	09/15/06
	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: 09/13/06

Supervisor: S. Wise



Bureau of Environmental Health
7178 Columbia 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

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

October 17, 2006

Mr. and Mrs. Francis Mullin
11975 Frederick Road
Ellicott City, Maryland 21042

11975 Frederick Rd

RE: Mullin Property
Well Tag: HO-95-0510

Dear Mr. and Mrs. Mullin:

A sample was collected from a yield test on September 11, 2006 and submitted to Department of Health & 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. 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 64.0 ± 4.0 picocuries/liter (pCi/L); while the **Gross Beta** level was 26.0 ± 3.0 pCi/L. The **Gross Alpha** result exceeded its **maximum contaminant level (MCL)** of 15 pCi/L, while the **Gross Beta** level was below its targeted value of 50 pCi/L (roughly equal to the **annual dose rate** of 4 millirems/year).

Since the **Gross Alpha** finding exceeded its **MCL**, additional testing for **Radium** will be necessary prior to occupancy to verify existing levels. Alternatively, you may install treatment designed to reduce **Gross Alpha**, **Gross Beta** and **Radium**, plus provide post treated results confirming that levels are in conformance with existing standards. 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 to discuss additional testing requirements.

Sincerely,

Bert Nixon, Deputy Director
Bureau of Environmental Health

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



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Health Department

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

Monday, December 04, 2006

**Scan with On-site Sewage Disposal
Installation Permits for these lots**

MEMORANDUM

To: FILE

From: Michael J. Davis 
Director Well and Septic Program

Re: HO-95-0510

The above referenced well needs **retesting for radium** prior to issuance of a building permit or before the septic system is given final approval. Obtain written confirmation from the lot owner that they are aware of the need for testing if the building permit is to be issued before the result of the testing is received.