

**G-000-1012.21**

**3155**

**RESULTS OF THE WATER SAMPLING OF WELL**

**04/15/92**

**DOE-1339-92  
DOE-FN/NEIGHBOR  
2  
LETTER**



**Department of Energy**  
**Fernald Environmental Management Project**  
P.O. Box 398705  
Cincinnati, Ohio 45239-8705  
(513) 738-6357

3155

April 15, 1992

DOE-1339-92

Mr. William Knollman  
[Redacted]

Dear Mr. Knollman:

The purpose of this letter is to provide you with the results of the water sampling of your well conducted by Westinghouse Environmental Management Company of Ohio (WEMCO). Your well at [Redacted] has been sampled biweekly during the month of March. Also, samples were collected from the house well located at [Redacted] during the month of March. The results are expressed below in parts of uranium per billion parts of water (ppb), and picocuries of uranium per liter of water (pCi/L). Picocuries per liter are the units used to express groundwater data in the Annual Environmental Report.

<u>Sampling Date</u>	<u>Uranium Concentration</u>	
	<u>(ppb)</u>	<u>(pCi/L)</u>
[Redacted]		
March 10, 1992	17.0	11.5
March 24, 1992	20.6	13.9
(7312 Willey)		
March 10, 1992	2.4	1.6

For comparison, a groundwater study conducted by an independent consultant for the Fernald Site determined that background concentrations of naturally-occurring uranium in the groundwater for this area range from less than 0.1 ppb to 2.7 ppb (0.07 to 2.0 pCi/L). Also, a U. S. Geological Survey study (J.D. Hem, 1970, Geological Survey Water-Supply Paper 1473) reported a range of uranium concentration of less than 0.1 ppb to 10 ppb (0.07 to 6.8 pCi/L) in most natural water within the United States.

W. Knollman

-2-

3155

The Environmental Protection Agency (EPA) has proposed an interim drinking water standard for total uranium of 20 ppb (13.5 pCi/L). The uranium concentration in the sample from [REDACTED] is below this limit. However, the results from the sampling of your well at [REDACTED] indicate levels of uranium above background and the interim EPA standard. Environmental Monitoring will continue sampling your well and providing you the results verbally on a biweekly basis. Also, a notification letter with results will be mailed to you on a monthly basis.

As per our discussion on Thursday, April 9, DOE will provide you with an advanced water treatment system. We appreciate your patience and cooperation in working with us. WEMCO personnel will be contacting you in the near future to make arrangements for installing the water treatment system at your house.

If you have any questions regarding the results reported to you in this letter or on any aspect of our environmental program, please contact me by phone (738-6160) at your convenience.

Sincerely,

*Wally Quaider*  
Wally Quaider, Branch Chief  
Environmental Compliance

FO:Quaider

P.S. Bill,

Please call if you run into any problems with our sampling crews. I certainly enjoyed talking with you and will do everything I can to minimize any inconveniences our work creates.

*WQ*



[REDACTED] 3155

**Department of Energy**  
**Fernald Environmental Management Project**  
P.O. Box 398705  
Cincinnati, Ohio 45239-8705  
(513) 738-6357

April 15, 1992

DOE-1339-92

Mr. Melvin Knollman  
[REDACTED]

Dear Mr. Knollman:

The purpose of this letter is to provide you with the results of the water sampling of your well conducted by Westinghouse Environmental Management Company of Ohio (WEMCO). The well at [REDACTED] has been sampled biweekly during the month of March. Also, a sample was collected from the house well located [REDACTED] during the month of March. The results are expressed below in parts of uranium per billion parts of water (ppb), and picocuries of uranium per liter of water (pCi/L). Picocuries per liter are the units used to express groundwater data in the Annual Environmental Report.

<u>Sampling Date</u>	<u>Uranium Concentration</u>	
	<u>(ppb)</u>	<u>(pCi/L)</u>
[REDACTED]		
March 10, 1992	17.0	11.5
March 24, 1992	20.6	13.9
[REDACTED]		
March 10, 1992	2.4	1.6

For comparison, a groundwater study conducted by an independent consultant for the Fernald Site determined that background concentrations of naturally-occurring uranium in the groundwater for this area range from less than 0.1 ppb to 2.7 ppb (0.07 to 2.0 pCi/L). Also, a U. S. Geological Survey study (J.D. Hem, 1970, Geological Survey Water-Supply Paper 1473) reported a range of uranium concentration of less than 0.1 ppb to 10 ppb (0.07 to 6.8 pCi/L) in most natural water within the United States.

M. Knollman

-2-

The Environmental Protection Agency (EPA) has proposed an interim drinking water standard for total uranium of 20 ppb (13.5 pCi/L). The uranium concentration in the sample from [REDACTED] is below this limit. However, the results from the sampling of the well at [REDACTED] indicate levels of uranium above background and the interim EPA standard. Environmental Monitoring will continue sampling your well and providing you the results verbally on a biweekly basis. Also, a notification letter with results will be mailed to you on a monthly basis.

As per our discussion on Thursday, April 9, DOE will provide you with an advanced water treatment system. We appreciate your patience and cooperation in working with us. WEMCO personnel will be contacting you in the near future to make arrangements for installing the water treatment system at the house ([REDACTED]).

If you have any questions regarding the results reported to you in this letter or on any aspect of our environmental program, please contact me by phone (738-6160) at your convenience.

Sincerely,

*Wally Quaider*  
Wally Quaider, Branch Chief  
Environmental Compliance

FO:Quaider

P.S.

Melvin,

It was a pleasure talking with you again. If you run into problems -- please give me a call. I'll do anything I can to make things right.  
WQ