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RESULTS OF WELL SAMPLING

12/09/92

DOE-388-92
DOE-FN CITIZEN
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LETTER



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

DEC 9 1991

DOE-388-92

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 October. Also, samples were collected from the house well located at [REDACTED] during the month of October. 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> (7493 Willey)	<u>Uranium Concentration</u>	
	<u>(ppb)</u>	<u>(pCi/L)</u>
October 1, 1991	7.3	4.93
October 15, 1991	9.5	6.42
October 29, 1991	10.0	6.76
 (7312 Willey)		
October 1, 1991	2.1	1.42
October 15, 1991	2.5	1.69
October 29, 1991	2.4	1.62

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 (0.068 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 (0.068 to 6.8 pCi/L) in most natural water within the United States.

W. Knollman

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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 your samples is well below this limit. However, the results from the sampling of your well at [REDACTED] continue to indicate levels of uranium slightly above background. 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.

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