

5159

**RESULTS OF THE WATER SAMPLING OF WELLS
(2 INDIVIDUAL LETTERS)**

08/20/92

**DOE-2172-92
DOE-FN/CITIZEN
6
LETTERS**

-5159



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

AUG 20 1992

DOE-2172-92

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 June. Also, samples were collected from the house well located at [REDACTED] and from your house at [REDACTED] during the month of June. An ion exchange system was installed at your home June 18, 1992. This system is designed to remove the uranium from your well water by filtering the water through two columns.

Samples have been collected from three different sample points to determine the effectiveness of the system: untreated well water, treated water from the first column, and treated water from both columns. The results are expressed in Attachment I in parts of uranium per billion parts of water (ppb), and picocuries of uranium per liter of water (pCi/L). Environmental Monitoring will continue to collect samples from these three points 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.

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 samples 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. The results from the water filtered through the ion exchange system (first and second columns) indicate that the uranium is being removed and that the uranium concentrations in the treated water are within the background range for this area.

5159

M. Knollman

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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, Branch Chief
Environmental Compliance

FN:Quaider

ATTACHMENT I
WELL WATER RESULTS

SAMPLING LOCATION / DATE	UNTREATED WELL WATER		TREATED ONE COLUMN		TREATED TWO COLUMN	
	(ppb)	(pCi/L)	(ppb)	(pCi/L)	(ppb)	(pCi/L)
██████████ June 2, 1992 June 16, 1992 June 30, 1992	24 28 32	16 19 22			0.1 0.1 0.1	0.1 0.1 0.1
██████████ June 30, 1992	33	22	0.1	0.1	0.2	0.1
██████████ June 2, 1992 June 16, 1992	2.3 2.0	1.6 1.4				



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AUG 20 1992

DOE-2172-92

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 June. Also, samples were collected from the house well located at [REDACTED] during the month of June. An ion exchange system was installed at your home June 18, 1992. This system is designed to remove the uranium from your well water by filtering the water through two columns.

Samples have been collected from three different sample points to determine the effectiveness of the system: untreated well water, treated water from the first column, and treated water from both columns. The results are expressed in Attachment I in parts of uranium per billion parts of water (ppb), and picocuries of uranium per liter of water (pCi/L). Environmental Monitoring will continue to collect samples from these three points 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.

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 samples 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. The results from the water filtered through the ion exchange system (first and second columns) indicate that the uranium is being removed and that the uranium concentrations in the treated water are within the background range for this area.

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W. Knollman

-2-

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Sincerely,

Wally Quaider
Wally Quaider, Branch Chief
Environmental Compliance

FN:Quaider

W. Knollman

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WELL WATER RESULTS

SAMPLING LOCATION / DATE	UNTREATED WELL WATER		TREATED ONE COLUMN		TREATED TWO COLUMN	
	(ppb)	(pCi/L)	(ppb)	(pCi/L)	(ppb)	(pCi/L)
████████						
June 2, 1992	24	16				
June 16, 1992	28	19				
June 30, 1992	32	22	0.1	0.1	0.1	0.1
████████						
June 30, 1992	33	22	0.1	0.1	0.2	0.1
████████						
June 2, 1992	2.3	1.6				
June 16, 1992	2.0	1.4				