

6259

G-000-1012.110

RESULTS OF WELL SAMPLING (2 LETTERS) (CONFIDENTIAL)

11/17/94

DOE-0170-95
DOE-FN CITIZEN
6
LETTERS

6259



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

NOV 17 1994
DOE-0170-95

Mr. William Knollman

Dear Mr. Knollman,

The purpose of this letter is to provide you with the results of the water sampling of your well conducted by Fernald Environmental Restoration Management Corporation (FERMCO). Your well at [REDACTED] has been sampled biweekly during the month of September 1994. Also, samples were collected from the house well located at [REDACTED] and from the house at [REDACTED] during the month of October. An ion exchange system was installed in 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 the second column. The results are expressed in Enclosure 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 provide you with the results 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 wells 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 (<0.1 ppb to 2.7 ppb).

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W. Knollman

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If you have any questions regarding the results reported to you in this letter or any aspect of our environmental program, please contact me by phone (648-3137) at your convenience.

Sincerely,

Wally Quaider

Walter J. Quaider

Acting Associate Director

Safety, Operations, & Technical Support

Enclosure: as stated

W. Knollman

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**ENCLOSURE 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)
██████████ September 13, 1994 September 27, 1994	91.0 98.0	61.5 66.2	<0.1 <0.1	<0.1 <0.1	<0.1 0.1	<0.1 <0.1
██████████ September 13, 1994 September 27, 1994	91.0 84.0	61.5 56.8	0.2 0.4	0.1 0.3	<0.1 <0.1	<0.1 <0.1
██████████ September 13, 1994 September 28, 1994	2.0 2.0	1.4 1.4				

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

NOV 17 1994
DOE-0170-95

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 Fernald Environmental Restoration Management Corporation (FERMCO). Your well at [Redacted] has been sampled biweekly during the month of September 1994. Also, samples were collected from the house well located at [Redacted] and from the house at [Redacted] during the month of September. An ion exchange system was installed in 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 the second column. The results are expressed in Enclosure 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 provide you with the results 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 concentrations in the samples from [Redacted] are below this limit. However, the results from the sampling of the wells 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 (<0.1 ppb to 2.7 ppb).

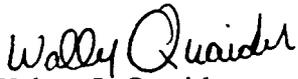
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M. Knollman

-2-

If you have any questions regarding the results reported to you in this letter or any aspect of our environmental program, please contact me by phone (648-3137) at your convenience.

Sincerely,


Walter J. Quaid
Acting Associate Director
Safety, Operations, & Technical Support

Enclosure: as stated

**ENCLOSURE I
WELL WATER RESULTS**

SAMPLING LOCATION/ DATE	UNTREATED WELL WATER		TREATED ONE COLUMN		TREATED TWO COLUMN	
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September 13, 1994	91.0	61.5	<0.1	<0.1	<0.1	<0.1
September 27, 1994	98.0	66.2	<0.1	<0.1	0.1	<0.1
September 13, 1994	91.0	61.5	0.2	0.1	<0.1	<0.1
September 27, 1994	84.0	56.8	0.4	0.3	<0.1	<0.1
September 13, 1994	2.0	1.4				
September 28, 1994	2.0	1.4				