

5871

G-000-1012.93

RESULTS OF WATER SAMPLING OF WELLS (14 LETTERS)

08/15/94

DOE-2150-94
DOE-FN CITIZEN
28
LETTER



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

AUG 15 1994
 DOE-2150-94

Mrs. Joan Pottenger
 [REDACTED]

Dear Mrs. Pottenger:

The Fernald Environmental Restoration Management Corporation (FERMCO), in cooperation with the Ohio Environmental Protection Agency and the Department of Health, has been collecting water samples from your well and others in the area as part of our continuing environmental monitoring program. Samples have been collected from your water softener system and the reverse osmosis filter in your kitchen. These samples are analyzed for uranium concentration in order to assess any possible effects of Fernald Site operations on the quality of water in your cistern.

The purpose of this letter is to provide you with an update on the results of our sampling. No samples were collected from your residence during the month of May at your request. The laboratory results from the months of June and July 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 Site Environmental Report.

<u>Sampling Date</u>	<u>Uranium Concentration</u>	
	(ppb)	(pCi/L)
(Kitchen Tap)		
June 6, 1994	8.5	5.7
July 6, 1994	1.9	1.3
(Reverse osmosis filter)		
June 6, 1994	<0.1	<0.1
July 6, 1994	<0.1	<0.1
(Outside Tap)		
June 6, 1994	NS	NS
July 6, 1994	5.3	3.6

J. Pottenger

-2-

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.

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 your reverse osmosis and water softener samples are below this limit. Your June result from the water softener was elevated when compared to previous months. However, your July result is back down in the range expected based on historical data. We assume that this variance is due to low water flow through the faucet during your vacation in May. In June when the water flow was back to normal, any residues that had settled out would be flushed from the system. Environmental Monitoring will continue to collect water samples from your kitchen tap, reverse osmosis system, and outside faucet on a monthly basis, at your convenience.

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 (648-3137) at your convenience.

Sincerely,


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

5871



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

AUG 15 1994
 DOE-2212-94

Ralph Atherton
 [REDACTED]

Dear Mr. Atherton:

The purpose of this letter is to provide you with the results of the produce and soil sampling from your garden conducted by Fernald Environmental Restoration Management Corporation (FERMCO). Your garden was sampled on August 9, 1993 as part of the Fernald Site Environmental Monitoring Program.

The results of this sampling are expressed below in picocuries of uranium per gram (pCi/g). Picocuries per gram are the units used to express produce data in the Site Environmental Report. The \pm values represent the amount of uncertainty associated with the analysis performed on the samples. For example, 1.0 ± 0.01 indicates that the actual uranium concentration in your soil sample is in the range of 0.99 to 1.01 pCi/g.

<u>Sampling Collected</u>	<u>Uranium Concentration</u>	
	(pCi/L)	(\pm)
Cabbage	0.0072	0.00076
Tomato	0.0017	0.00018
Corn	0.0015	0.00029
Eggplant	0.0006	0.00007
Banana Peppers	0.0008	0.00010
Bell Peppers	0.0011	0.00012
Soil (cabbage)	0.9190	0.09663

For the purposes of comparison, naturally-occurring total uranium concentrations for soil in Ohio range from 1.0 pCi/g to 4.4 pCi/g. The uranium content in your soil sample is within the range expected for background concentrations in this part of the country. Although there is no standard for comparison of uranium concentrations in produce, based on data from previous years, your produce samples fall within the range expected for this area.

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R. Atherton

-2-

We apologize for the delay in reporting these data to you. The delay was due, in part, to the fact that methods used to analyze produce are time consuming. Additionally, the data were reviewed for trends and compared against historical data. We will strive to release the data to you in a more timely manner in the future.

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

Sincerely,

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

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

AUG 15 1994
DOE-2212-94

Sandy Butterfield



Dear Mrs. Butterfield:

The purpose of this letter is to provide you with the results of the produce and soil sampling from your garden conducted by Fernald Environmental Restoration Management Corporation (FERMCO). Your garden was sampled on August 11, 1993 as part of the Fernald Site Environmental Monitoring Program.

The results of this sampling are expressed below in picocuries of uranium per gram (pCi/g). Picocuries per gram are the units used to express produce data in the Site Environmental Report. The \pm values represent the amount of uncertainty associated with the analysis performed on the samples. For example, 1.0 ± 0.01 indicates that the actual uranium concentration in a sample is in the range of 0.99 to 1.01 pCi/g.

<u>Sampling Collected</u>	<u>Uranium Concentration</u>	
	(pCi/L)	(\pm)
Tomato	0.0014	0.00015
Apple	0.0003	0.00004
Soil	1.0541	0.11081

For the purposes of comparison, naturally-occurring total uranium concentrations for soil in Ohio range from 1.0 pCi/g to 4.4 pCi/g. The uranium content in your soil sample is within the range expected for background concentrations in this part of the country. Although there is no standard for comparison of uranium concentrations in produce, based on data from previous years, your produce samples fall within the range expected for this area.

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S. Butterfield

-2-

We apologize for the delay in reporting these data to you. The delay was due, in part, to the fact that methods used to analyze produce are time consuming. Additionally, the data were reviewed for trends and compared against historical data. We will strive to release the data to you in a more timely manner in the future.

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

Sincerely,


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

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

AUG 15 1994

DOE-2212-94

Robert Gander
 [REDACTED]

Dear Mr. Gander:

The purpose of this letter is to provide you with the results of the produce and soil sampling from your garden conducted by Fernald Environmental Restoration Management Corporation (FERMCO). Your garden was sampled on August 8, 1993 as part of the Fernald Site Environmental Monitoring Program.

The results of this sampling are expressed below in picocuries of uranium per gram (pCi/g). Picocuries per gram are the units used to express produce data in the Site Environmental Report. The \pm values represent the amount of uncertainty associated with the analysis performed on the samples. For example, 1.0 ± 0.01 indicates that the actual uranium concentration in a sample is in the range of 0.99 to 1.01 pCi/g.

<u>Sampling Collected</u>	<u>Uranium Concentration</u>	
	(pCi/L)	(\pm)
Corn	0.0003	0.00003
Tomato	0.0016	0.00018
Apple	0.0002	0.00002
Soil	0.7433	0.07838

For the purposes of comparison, naturally-occurring total uranium concentrations for soil in Ohio range from 1.0 pCi/g to 4.4 pCi/g. The uranium content in your soil sample is within the range expected for background concentrations in this part of the country. Although there is no standard for comparison of uranium concentrations in produce, based on data from previous years, your produce samples fall within the range expected for this area.

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R. Gander

-2-

We apologize for the delay in reporting these data to you. The delay was due, in part, to the fact that methods used to analyze produce are time consuming. Additionally, the data were reviewed for trends and compared against historical data. We will strive to release the data to you in a more timely manner in the future.

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

Sincerely,

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

000008



Department of Energy

Fernald Environmental Management Project

P.O. Box 398705

Cincinnati, Ohio 45239-8705

(513) 738-6357

AUG 15 1994

DOE-2212-94

Jerry Gels

Dear Mr. Gels:

The purpose of this letter is to provide you with the results of the produce and soil sampling from your garden conducted by Fernald Environmental Restoration Management Corporation (FERMCO). Your garden was sampled on August 13, 1993 as part of the Fernald Site Environmental Monitoring Program.

The results of this sampling are expressed below in picocuries of uranium per gram (pCi/g). Picocuries per gram are the units used to express produce data in the Site Environmental Report. The \pm values represent the amount of uncertainty associated with the analysis performed on the samples. For example, 1.0 ± 0.01 indicates that the actual uranium concentration in a sample is in the range of 0.99 to 1.01 pCi/g.

<u>Sampling Collected</u>	<u>Uranium Concentration</u>	
	(pCi/L)	(\pm)
Tomato	0.0012	0.00014
Green Pepper	0.0013	0.00014
Apple	0.0008	0.00010
Soil	0.5933	0.06237

For the purposes of comparison, naturally-occurring total uranium concentrations for soil in Ohio range from 1.0 pCi/g to 4.4 pCi/g. The uranium content in your soil sample is within the range expected for background concentrations in this part of the country. Although there is no standard for comparison of uranium concentrations in produce, based on data from previous years, your produce samples fall within the range expected for this area.

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J. Gels

-2-

We apologize for the delay in reporting these data to you. The delay was due, in part, to the fact that methods used to analyze produce are time consuming. Additionally, the data were reviewed for trends and compared against historical data. We will strive to release the data to you in a more timely manner in the future.

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

Sincerely,

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

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

AUG 15 1994

DOE-2212-94

J. Groblewiski


Dear Mrs. Groblewiski:

The purpose of this letter is to provide you with the results of the produce and soil sampling from your garden conducted by Fernald Environmental Restoration Management Corporation (FERMCO). Your garden was sampled on August 18, 1993 as part of the Fernald Site Environmental Monitoring Program.

The results of this sampling are expressed below in picocuries of uranium per gram (pCi/g). Picocuries per gram are the units used to express produce data in the Site Environmental Report. The \pm values represent the amount of uncertainty associated with the analysis performed on the samples. For example, 1.0 ± 0.01 indicates that the actual uranium concentration in a sample is in the range of 0.99 to 1.01 pCi/g.

<u>Sampling Collected</u>	<u>Uranium Concentration</u>	
	(pCi/L)	(\pm)
Tomato	0.0020	0.00022
Soil	0.5879	0.06189

For the purposes of comparison, naturally-occurring total uranium concentrations for soil in Ohio range from 1.0 pCi/g to 4.4 pCi/g. The uranium content in your soil sample is within the range expected for background concentrations in this part of the country. Although there is no standard for comparison of uranium concentrations in produce, based on data from previous years, your produce samples fall within the range expected for this area.

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J. Groblewiski

-2-

We apologize for the delay in reporting these data to you. The delay was due, in part, to the fact that methods used to analyze produce are time consuming. Additionally, the data were reviewed for trends and compared against historical data. We will strive to release the data to you in a more timely manner in the future.

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

Sincerely,


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

000012



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

AUG 15 1994

DOE-2212-94

Bruce Koehn



Dear Mr. Koehn:

The purpose of this letter is to provide you with the results of the produce and soil sampling from your garden conducted by Fernald Environmental Restoration Management Corporation (FERMCO). Your garden was sampled on August 18, 1993 as part of the Fernald Site Environmental Monitoring Program.

The results of this sampling are expressed below in picocuries of uranium per gram (pCi/g). Picocuries per gram are the units used to express produce data in the Site Environmental Report. The \pm values represent the amount of uncertainty associated with the analysis performed on the samples. For example, 1.0 ± 0.01 indicates that the actual uranium concentration in a sample is in the range of 0.99 to 1.01 pCi/g.

<u>Sampling Collected</u>	<u>Uranium Concentration</u>	
	(pCi/L)	(\pm)
Tomato	0.0010	0.00011
Squash	0.0186	0.00198
Apple	0.0004	0.00004
Soil	0.8311	0.08717

For the purposes of comparison, naturally-occurring total uranium concentrations for soil in Ohio range from 1.0 pCi/g to 4.4 pCi/g. The uranium content in your soil sample is within the range expected for background concentrations in this part of the country. Although there is no standard for comparison of uranium concentrations in produce, based on data from previous years, your produce samples fall within the range expected for this area.

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B. Koehn

-2-

We apologize for the delay in reporting these data to you. The delay was due, in part, to the fact that methods used to analyze produce are time consuming. Additionally, the data were reviewed for trends and compared against historical data. We will strive to release the data to you in a more timely manner in the future.

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

Sincerely,

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

000014

5871



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

AUG 15 1994
 DOE-2212-94

Carl Lierer
 [REDACTED]

Dear Mr. Lierer:

The purpose of this letter is to provide you with the results of the produce and soil sampling from your garden conducted by Fernald Environmental Restoration Management Corporation (FERMCO). Your garden was sampled on August 11, 1993 as part of the Fernald Site Environmental Monitoring Program.

The results of this sampling are expressed below in picocuries of uranium per gram (pCi/g). Picocuries per gram are the units used to express produce data in the Site Environmental Report. The \pm values represent the amount of uncertainty associated with the analysis performed on the samples. For example, 1.0 ± 0.01 indicates that the actual uranium concentration in a sample is in the range of 0.99 to 1.01 pCi/g.

<u>Sampling Collected</u>	<u>Uranium Concentration</u>	
	(pCi/L)	(\pm)
Tomato	0.0020	0.00022
Potato	0.0037	0.00040
Bell Pepper	0.0008	0.00008
Soil	1.1960	0.12568

For the purposes of comparison, naturally-occurring total uranium concentrations for soil in Ohio range from 1.0 pCi/g to 4.4 pCi/g. The uranium content in your soil sample is within the range expected for background concentrations in this part of the country. Although there is no standard for comparison of uranium concentrations in produce, based on data from previous years, your produce samples fall within the range expected for this area.

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Recycled and Recyclable

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C. Lierer

-2-

We apologize for the delay in reporting these data to you. The delay was due, in part, to the fact that methods used to analyze produce are time consuming. Additionally, the data were reviewed for trends and compared against historical data. We will strive to release the data to you in a more timely manner in the future.

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Sincerely,


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

000016



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

AUG 15 1994

DOE-2212-94

H. Merrill

Dear Mr. Merrill:

The purpose of this letter is to provide you with the results of the produce and soil sampling from your garden conducted by Fernald Environmental Restoration Management Corporation (FERMCO). Your garden was sampled on August 10, 1993 as part of the Fernald Site Environmental Monitoring Program.

The results of this sampling are expressed below in picocuries of uranium per gram (pCi/g). Picocuries per gram are the units used to express produce data in the Site Environmental Report. The \pm values represent the amount of uncertainty associated with the analysis performed on the samples. For example, 1.0 ± 0.01 indicates that the actual uranium concentration in a sample is in the range of 0.99 to 1.01 pCi/g.

<u>Sampling Collected</u>	<u>Uranium Concentration</u>	
	<u>(pCi/L)</u>	<u>(\pm)</u>
Bell Pepper	0.0004	0.00004
Tomato	0.0006	0.00007
Soil	0.5602	0.05899

For the purposes of comparison, naturally-occurring total uranium concentrations for soil in Ohio range from 1.0 pCi/g to 4.4 pCi/g. The uranium content in your soil sample is within the range expected for background concentrations in this part of the country. Although there is no standard for comparison of uranium concentrations in produce, based on data from previous years, your produce samples fall within the range expected for this area.

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H. Merrill

-2-

We apologize for the delay in reporting these data to you. The delay was due, in part, to the fact that methods used to analyze produce are time consuming. Additionally, the data were reviewed for trends and compared against historical data. We will strive to release the data to you in a more timely manner in the future.

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Sincerely,


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

000018



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

AUG 15 1994
 DOE-2212-94

J. Penny

Dear Mr. Penny:

The purpose of this letter is to provide you with the results of the produce and soil sampling from your garden conducted by Fernald Environmental Restoration Management Corporation (FERMCO). Your garden was sampled on August 10, 1993 as part of the Fernald Site Environmental Monitoring Program.

The results of this sampling are expressed below in picocuries of uranium per gram (pCi/g). Picocuries per gram are the units used to express produce data in the Site Environmental Report. The \pm values represent the amount of uncertainty associated with the analysis performed on the samples. For example, 1.0 ± 0.01 indicates that the actual uranium concentration in a sample is in the range of 0.99 to 1.01 pCi/g.

<u>Sampling Collected</u>	<u>Uranium Concentration</u>	
	(pCi/L)	(\pm)
Tomato	0.0009	0.00011
Corn	0.0011	0.00012
Soil	0.6048	0.06352

For the purposes of comparison, naturally-occurring total uranium concentrations for soil in Ohio range from 1.0 pCi/g to 4.4 pCi/g. The uranium content in your soil sample is within the range expected for background concentrations in this part of the country. Although there is no standard for comparison of uranium concentrations in produce, based on data from previous years, your produce samples fall within the range expected for this area.

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J. Penny

-2-

We apologize for the delay in reporting these data to you. The delay was due, in part, to the fact that methods used to analyze produce are time consuming. Additionally, the data were reviewed for trends and compared against historical data. We will strive to release the data to you in a more timely manner in the future.

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

Sincerely,

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

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

AUG 15 1994

DOE-2212-94

Rock Springs Farm
 7679 East Miami River Road
 Hamilton, Ohio 45013

Dear Sir:

The purpose of this letter is to provide you with the results of the produce and soil sampling from your garden conducted by Fernald Environmental Restoration Management Corporation (FERMCO). Your garden was sampled on August 17, 1993 as part of the Fernald Site Environmental Monitoring Program.

The results of this sampling are expressed below in picocuries of uranium per gram (pCi/g). Picocuries per gram are the units used to express produce data in the Site Environmental Report. The \pm values represent the amount of uncertainty associated with the analysis performed on the samples. For example, 1.0 ± 0.01 indicates that the actual uranium concentration in a sample is in the range of 0.99 to 1.01 pCi/g.

<u>Sampling Collected</u>	<u>Uranium Concentration</u>	
	(pCi/L)	(\pm)
Squash	0.0003	0.00004
Squash	0.0004	0.00004
Potato	0.0029	0.00031
Tomato	0.0035	0.00038
Corn	0.0002	0.00003
Soil	0.6825	0.07230

For the purposes of comparison, naturally-occurring total uranium concentrations for soil in Ohio range from 1.0 pCi/g to 4.4 pCi/g. The uranium content in your soil sample is within the range expected for background concentrations in this part of the country. Although there is no standard for comparison of uranium concentrations in produce, based on data from previous years, your produce samples fall within the range expected for this area.

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Rock Springs Farm

-2-

We apologize for the delay in reporting these data to you. The delay was due, in part, to the fact that methods used to analyze produce are time consuming. Additionally, the data were reviewed for trends and compared against historical data. We will strive to release the data to you in a more timely manner in the future.

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Sincerely,

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

000022



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

AUG 15 1994
 DOE-2212-94

Lawrence Stebbins
 [REDACTED]

Dear Mr. Stebbins:

The purpose of this letter is to provide you with the results of the produce and soil sampling from your garden conducted by Fernald Environmental Restoration Management Corporation (FERMCO). Your garden was sampled on August 20, 1993 as part of the Fernald Site Environmental Monitoring Program.

The results of this sampling are expressed below in picocuries of uranium per gram (pCi/g). Picocuries per gram are the units used to express produce data in the Site Environmental Report. The \pm values represent the amount of uncertainty associated with the analysis performed on the samples. For example, 1.0 ± 0.01 indicates that the actual uranium concentration in a sample is in the range of 0.99 to 1.01 pCi/g.

<u>Sampling Collected</u>	<u>Uranium Concentration</u>	
	(pCi/L)	(\pm)
Tomato	0.0019	0.00021
Apple	0.0015	0.00016
Green Pepper	0.0049	0.00052
Cucumber	0.0017	0.00022
Soil	0.6372	0.06703

For the purposes of comparison, naturally-occurring total uranium concentrations for soil in Ohio range from 1.0 pCi/g to 4.4 pCi/g. The uranium content in your soil sample is within the range expected for background concentrations in this part of the country. Although there is no standard for comparison of uranium concentrations in produce, based on data from previous years, your produce samples fall within the range expected for this area.

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L. Stebbins

-2-

We apologize for the delay in reporting these data to you. The delay was due, in part, to the fact that methods used to analyze produce are time consuming. Additionally, the data were reviewed for trends and compared against historical data. We will strive to release the data to you in a more timely manner in the future.

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Sincerely,

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

000024



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

AUG 15 1994

DOE-2212-94

Valley Orchards
 Harold Hempfling
 7029 River Road
 Hebron, Kentucky 41048

Dear Mr. Hempfling:

The purpose of this letter is to provide you with the results of the produce and soil sampling from your garden conducted by Fernald Environmental Restoration Management Corporation (FERMCO). Your garden was sampled on August 13, 1993 as part of the Fernald Site Environmental Monitoring Program.

The results of this sampling are expressed below in picocuries of uranium per gram (pCi/g). Picocuries per gram are the units used to express produce data in the Site Environmental Report. The \pm values represent the amount of uncertainty associated with the analysis performed on the samples. For example, 1.0 ± 0.01 indicates that the actual uranium concentration in a sample is in the range of 0.99 to 1.01 pCi/g.

<u>Sampling Collected</u>	<u>Uranium Concentration</u> (pCi/L)	(\pm)
Beans	0.0010	0.00011
Potato	0.0022	0.00025
Onions	0.0010	0.00012
Tomato	0.0012	0.00013
Cucumber	0.0003	0.00004
Corn	0.0001	0.00001
Apple	0.0003	0.00004
Soil	0.5189	0.05473

For the purposes of comparison, naturally-occurring total uranium concentrations for soil in Ohio range from 1.0 pCi/g to 4.4 pCi/g. The uranium content in your soil sample is within the range expected for background concentrations in this part of the country. Although there is no standard for comparison of uranium concentrations in produce, based on data from previous years, your produce samples fall within the range expected for this area.

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Valley Orchards

-2-

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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 monitoring program, please contact me by phone (648-3137) at your convenience.

Sincerely,

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

000026



Department of Energy
Fernald Environmental Management Project
 P.O. Box 398705
 Cincinnati, Ohio 45239-8705
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AUG 15 1994

DOE-2212-94

Lawrence Wyatt


Dear Mr. Wyatt:

The purpose of this letter is to provide you with the results of the produce and soil sampling from your garden conducted by Fernald Environmental Restoration Management Corporation (FERMCO). Your garden was sampled on August 10, 1993 as part of the Fernald Site Environmental Monitoring Program.

The results of this sampling are expressed below in picocuries of uranium per gram (pCi/g). Picocuries per gram are the units used to express produce data in the Site Environmental Report. The \pm values represent the amount of uncertainty associated with the analysis performed on the samples. For example, 1.0 ± 0.01 indicates that the actual uranium concentration in a sample is in the range of 0.99 to 1.01 pCi/g.

<u>Sampling Collected</u>	<u>Uranium Concentration</u>	
	(pCi/L)	(\pm)
Tomato	0.0013	0.00014
Potato	0.0061	0.00065
Squash	0.0017	0.00019
Squash	0.0014	0.00016
Soil	1.8041	0.18987

For the purposes of comparison, naturally-occurring total uranium concentrations for soil in Ohio range from 1.0 pCi/g to 4.4 pCi/g. The uranium content in your soil sample is within the range expected for background concentrations in this part of the country. Although there is no standard for comparison of uranium concentrations in produce, based on data from previous years, your produce samples fall within the range expected for this area.



L. Wyatt

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We apologize for the delay in reporting these data to you. The delay was due, in part, to the fact that methods used to analyze produce are time consuming. Additionally, the data were reviewed for trends and compared against historical data. We will strive to release the data to you in a more timely manner in the future.

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

Sincerely,



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